CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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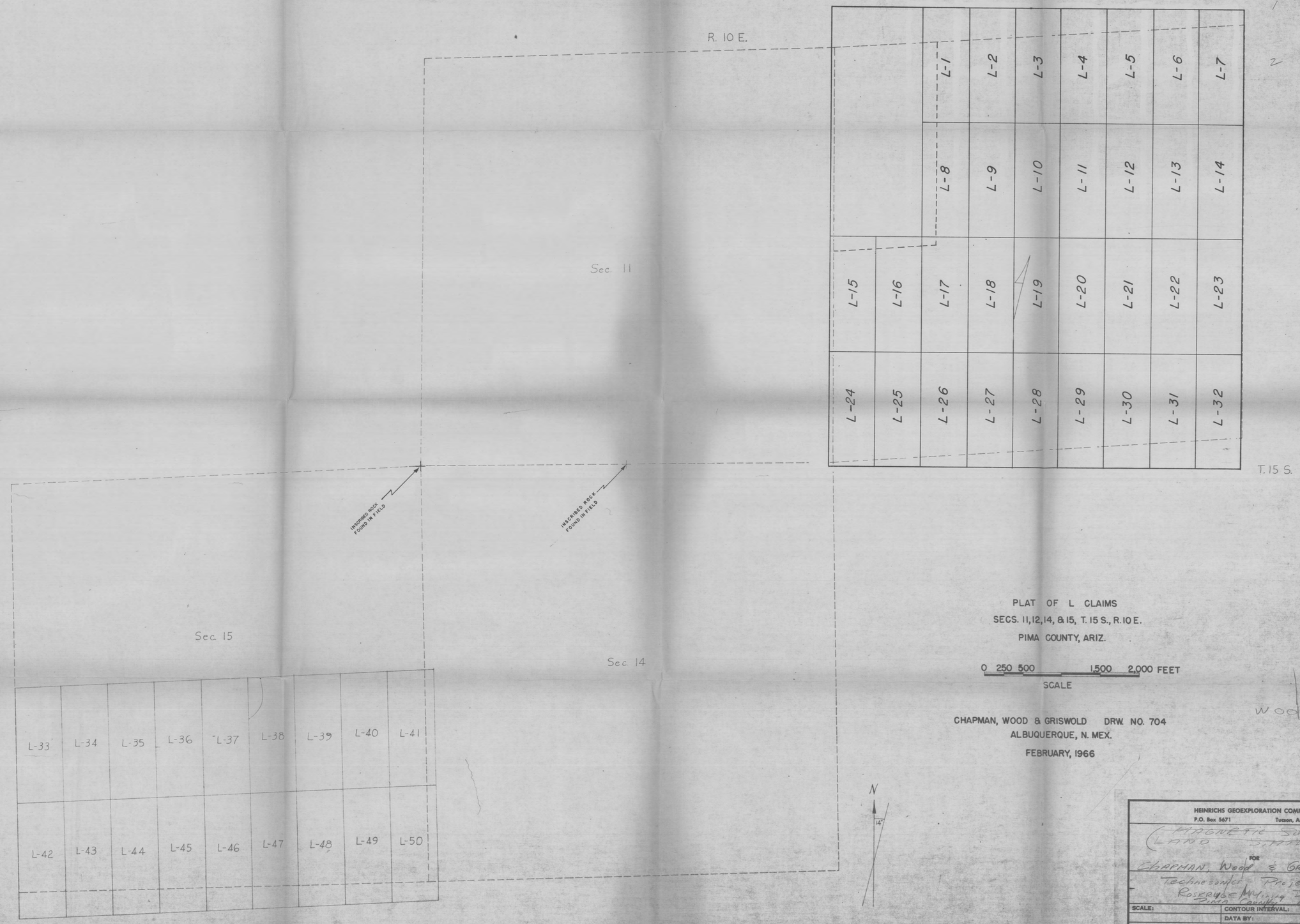


PLAT OF L CLAIMS
SECS. 11, 12, 14, & 15, T. 15 S., R. 10 E.
PIMA COUNTY, ARIZ.

0 250 500 1,500 2,000 FEET
SCALE

CHAPMAN, WOOD & GRISWOLD DRW. NO. 704
ALBUQUERQUE, N. MEX.
FEBRUARY, 1966

WOOD

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

(MAGNETIC SURVEY LAND STATUS)

FOR

Chapman, Wood & Griswold 23
Technesonics Project 17.5
Roskruge Mining Dist 18.5
Pima County Arizona 18

SCALE:	CONTOUR INTERVAL:	REVISIONS
	DATA BY:	
DATE:	SHEET OF	
DRAWN BY:	DRAWING NO.:	FILE:

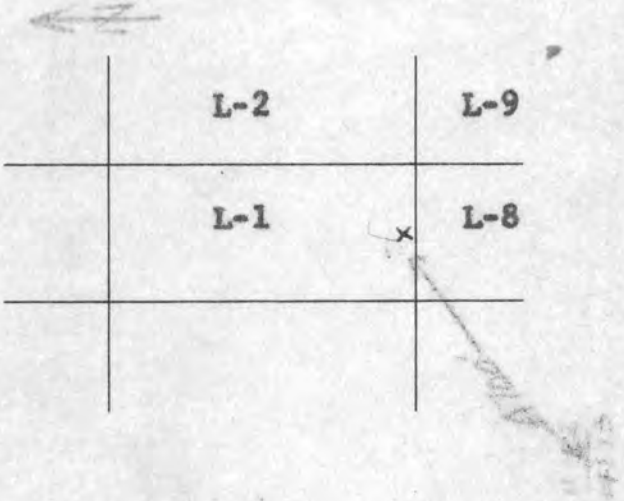
3-2-66

14213 RECORD OF MINES
BOOK 2692 Page 123

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-1 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-1 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M., THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4700' TO THE SW CORNER OF SECTION 12.



E. GROVER HEINRICHS

BY Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

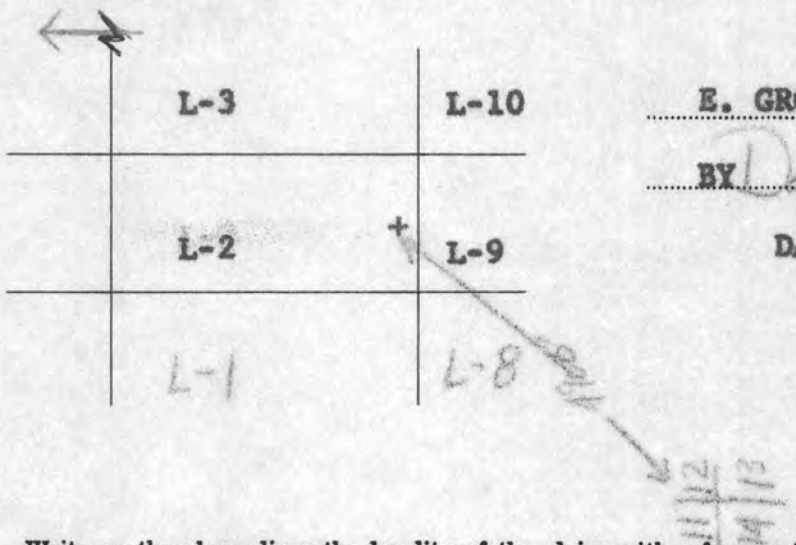
14214
RECORD OF MINES BOOK 2692 PAGE 124

3-266

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-2 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-2 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4900' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

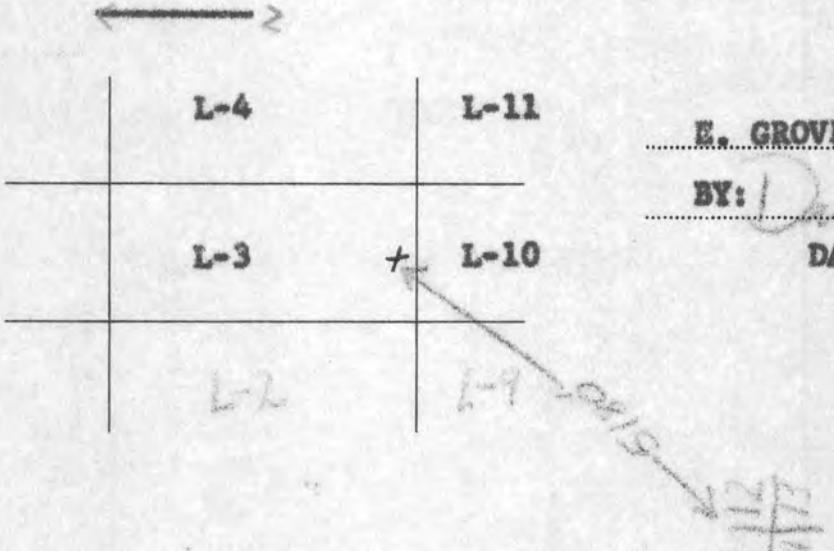
14215 3-2-66

RECORD OF MINES BOOK 2692 PAGE 125

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-3 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-3 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, GSRB&M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5180 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

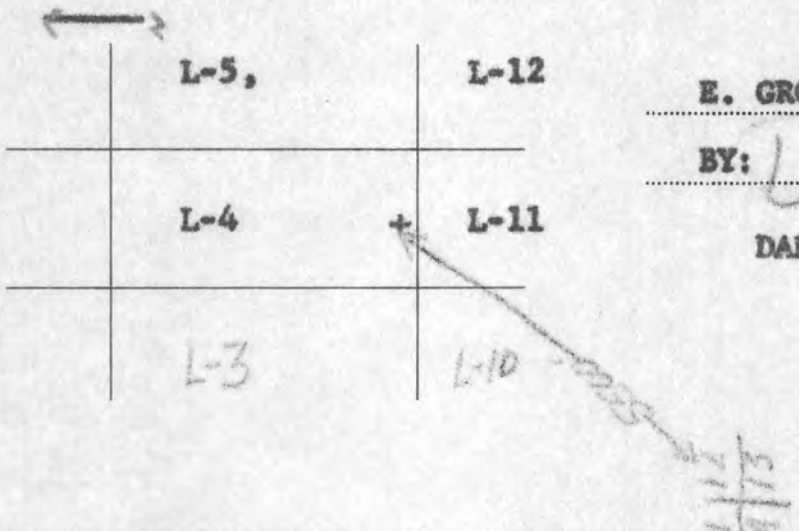
14216 3-2-66

RECORD OF MINES BOOK 2692 PAGE 126

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-4 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-4 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5500' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: D. Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

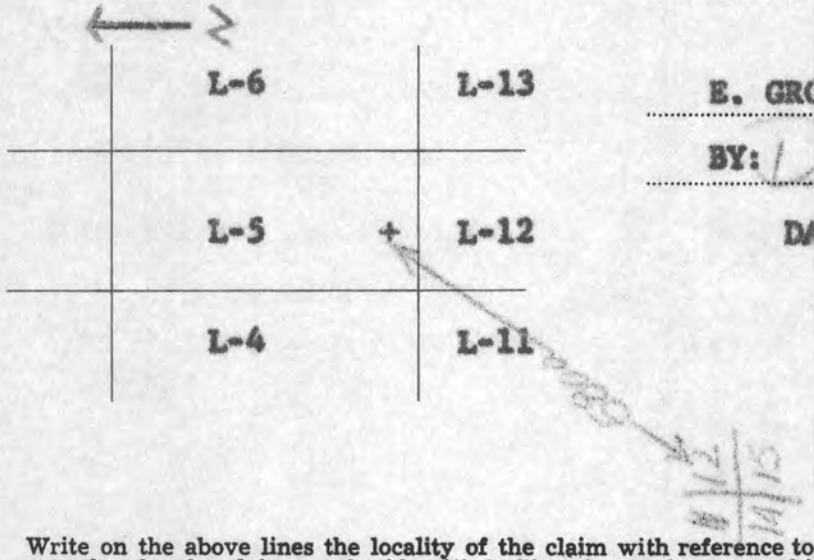
14217 3-2-1966

RECORD OF MINES BOOK 2692 PAGE 127

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-5 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-5 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5800' TO THE SW CORNER, SECTION 12



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

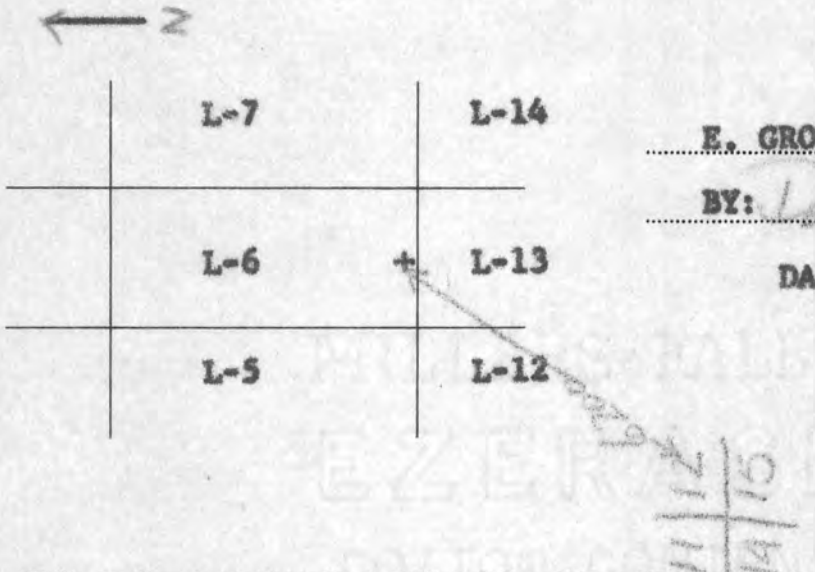
Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14218 3-2-1966
RECORD OF MINES BOOK 2692 PAGE 128

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-6 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-6 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6200' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

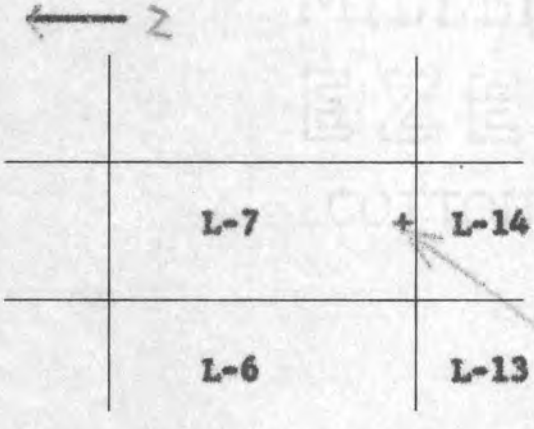
14219 3-2-66

RECORD OF MINES BOOK 2692 PAGE 129

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-7 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-7 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6700' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

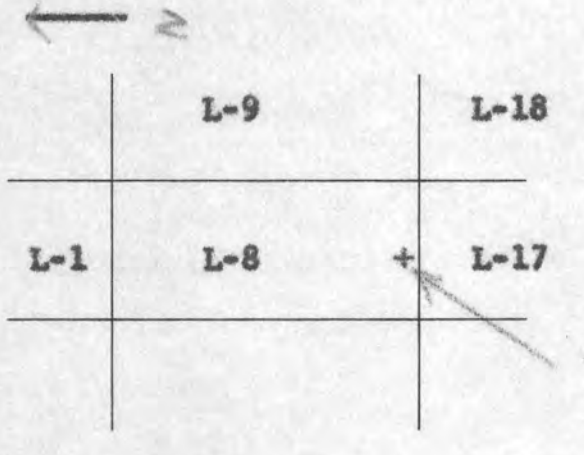
14220 3-2-66

RECORD OF MINES BOOK 2692 PAGE 130

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-8 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-8 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

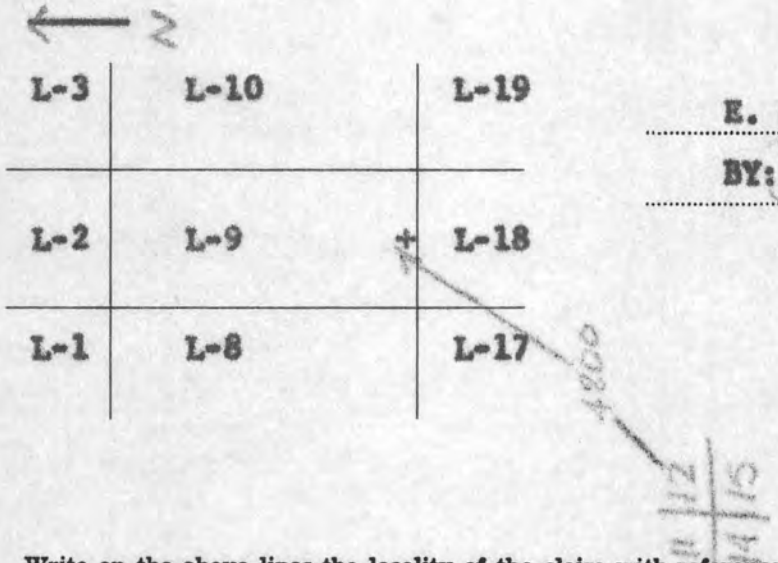
14221 3-2-66

RECORD OF MINES BOOK 2692 PAGE 131

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-9 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-9 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4800' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

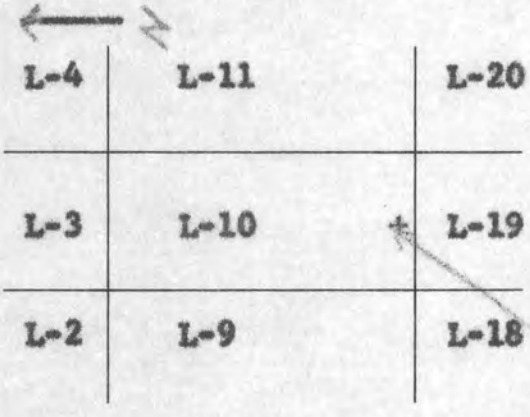
14222 3-2-1966

RECORD OF MINES BOOK 2692 PAGE 132

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-10 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-10 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5400' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14223 3-2-66

RECORD OF MINES BOOK 2692 PAGE 133

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-11 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66 This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-11 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5400' TO THE SW CORNER, SECTION 12.

N

L-5	L-12	L-21
L-4	L-11	L-20
L-3	L-10	L-19

E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

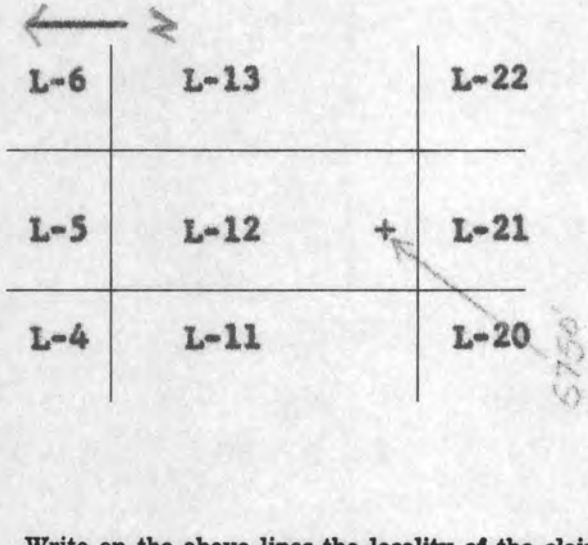
14224 3-2-66

RECORD OF MINES BOOK 2692 PAGE 134

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-12 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-12 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5750' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

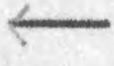
14224 3a 2-66

RECORDS OF MINES BOOK 2692 PAGE 135

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-13 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-13 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6150 TO THE SW CORNER, SECTION 12.



L-7	L-14	L-23
L-6	L-13 +	L-22
L-5	L-12	L-21

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

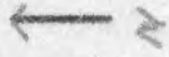
14226 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 136

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-14 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-14 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6600' TO THE SW CORNER, SECTION 12.



L-7	L-14	L-23
L-6	L-13	L-22

E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

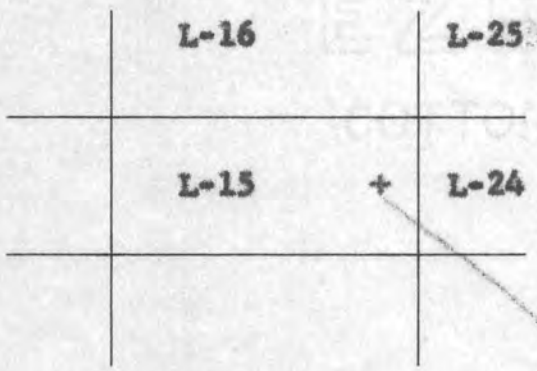
14227 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 137

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-15 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-15 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1500' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

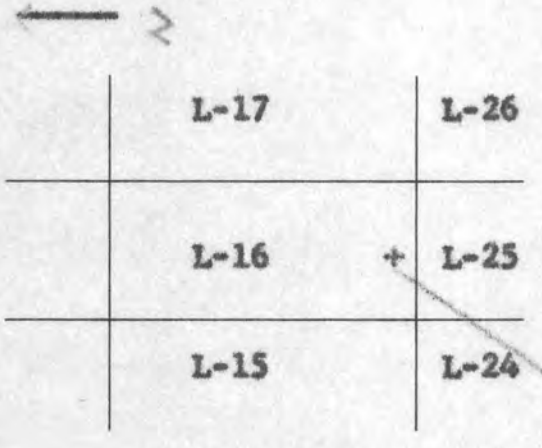
14228 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 138

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-16 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-16 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1700' N TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14229 3-2-66
RECORDS OF MINES BOOK 2692 PAGE 139

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-17 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-17 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2050 TO THE SW CORNER, SECTION 12.

L-9	L-18		L-27
L-8	L-17	+	L-26
	L-16		L-25

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14230 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 140

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-18 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-18 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2450' TO THE SW CORNER, SECTION 12.

L-10	L-19		L-28
L-9	L-18	+	L-27
L-8	L-17		L-27

E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

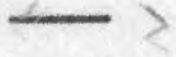
14231 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 141

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-19 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

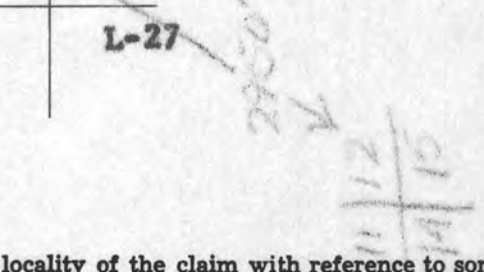
L-19 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2950' TO THE SW CORNER, SECTION 12.



L-11	L-20		L-29
L-10	L-19	+	L-28
L-9	L-18		L-27

E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT



Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14232 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 142

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-20 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

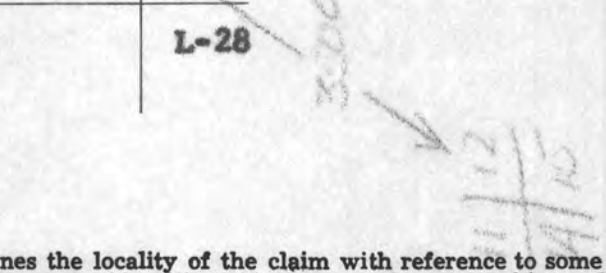
L-20 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 3500' TO THE SW CORNER, SECTION 12.

L-12	L-21		L-30
L-11	L-20	+	L-29
L-10	L-19		L-28

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT



Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14233 13-2-66

RECORDS OF MINES BOOK 2692 PAGE 143

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-21 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-21 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4050' TO THE SW CORNER, SECTION 12.

←—— N

L-13	L-22	L-31
L-12	L-21 +	L-30
L-11	L-20	L-29

E. GROVER HEINRICHS

BY: _____
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

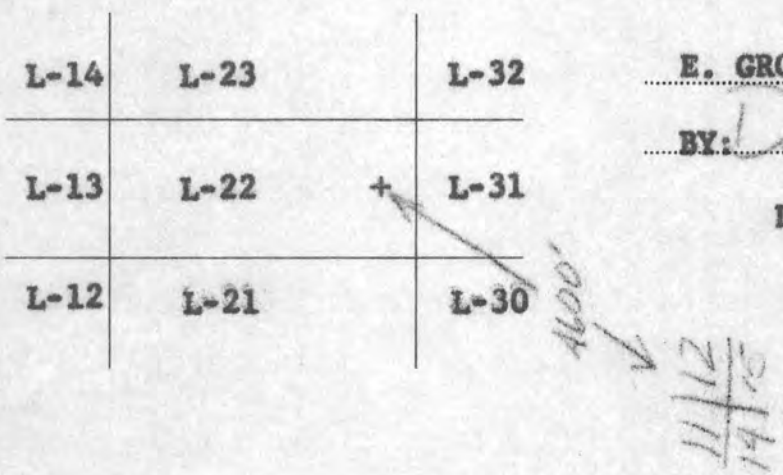
14234 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 144

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-22 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-22 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R. B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

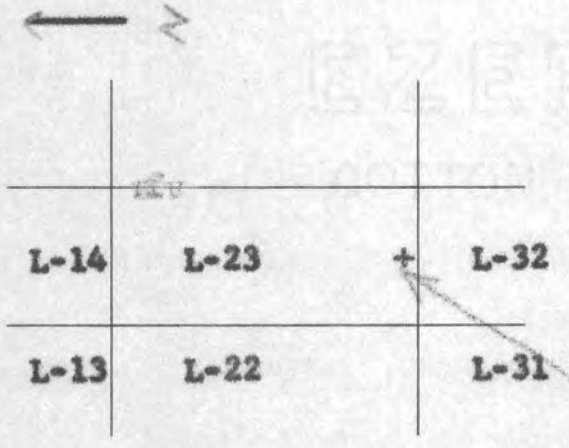
14235 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 145

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-23 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-22 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5150' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14236 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 146

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-24 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-24 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1460' TO THE SW CORNER, SECTION 12.

L-16	L-25	
L-15	L-24	+

E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

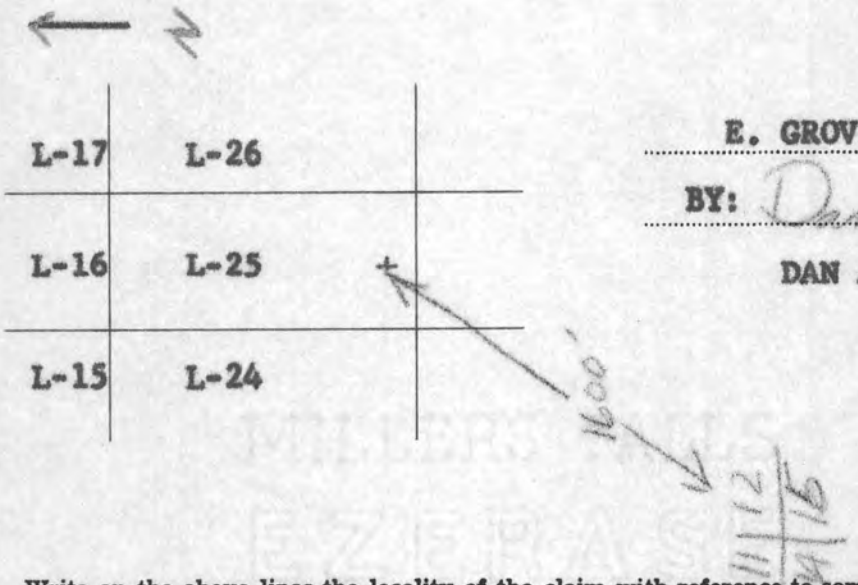
14237 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 147

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-25 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-25 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14238 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 148

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-26 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

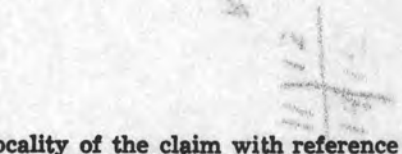
L-26 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2000' TO THE SW CORNER, SECTION 12.

L-18	L-27	
L-17	L-26	+
L-16	L-25	

E. GROVER HEINRICHS

BY: _____
Locator

DAN ANDERSON, AGENT



Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

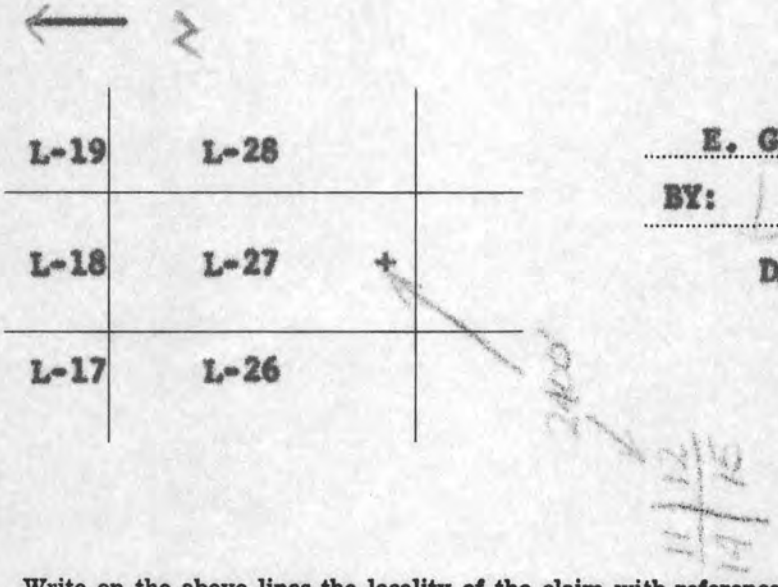
14239 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 149

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-27 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-27 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 7400' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

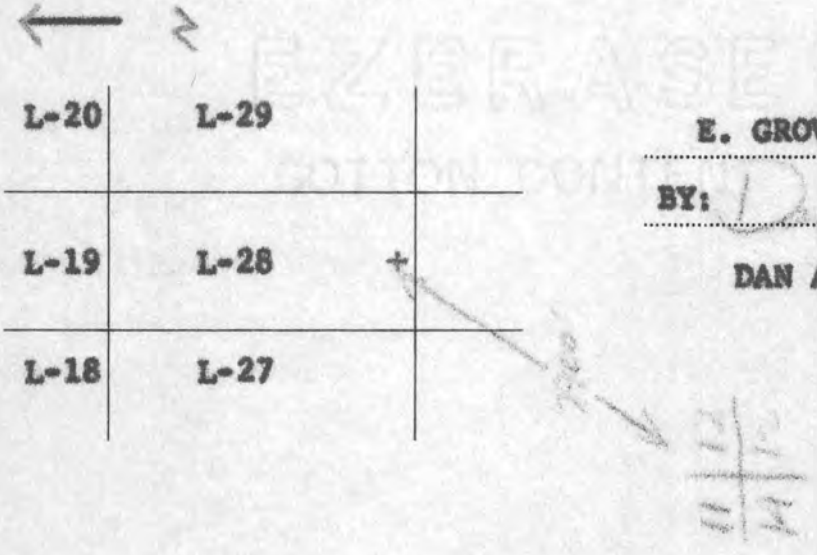
14240 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 150

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-28 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-28 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2700' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

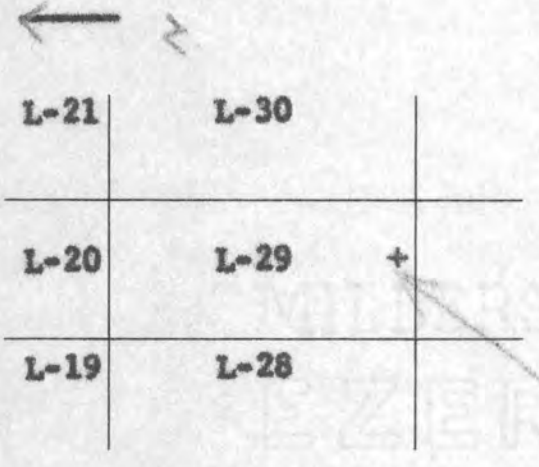
14241 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 151

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-29 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-29 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 3 1/2 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

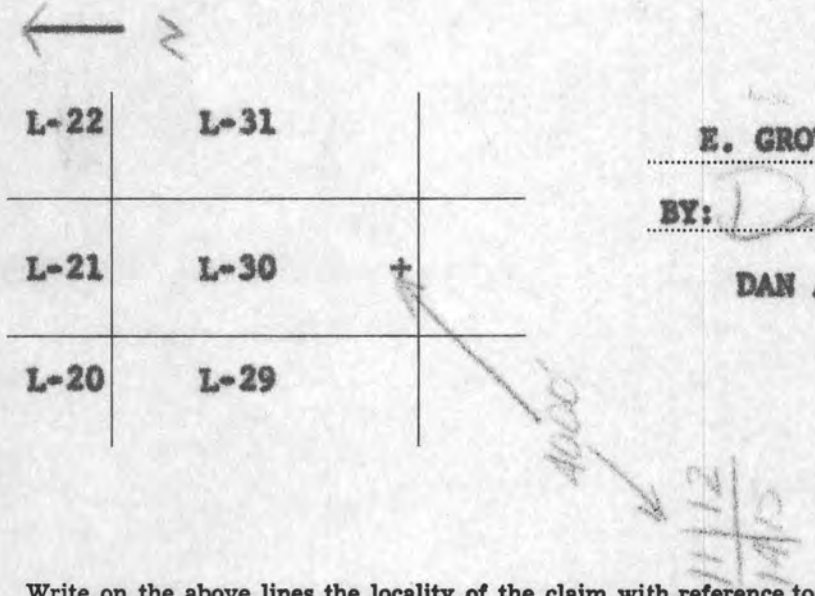
14242 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 152

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-30 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-30 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4000' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

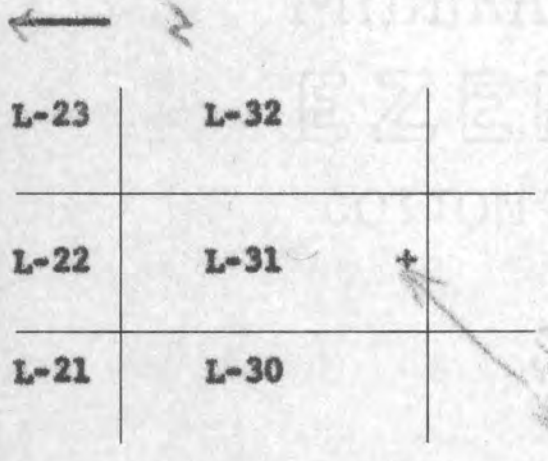
14243 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 153

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-31 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-31 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4550' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

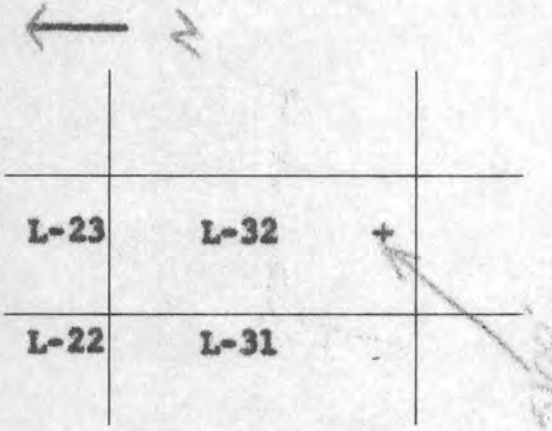
14244 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 154

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-32 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-32 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5100 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

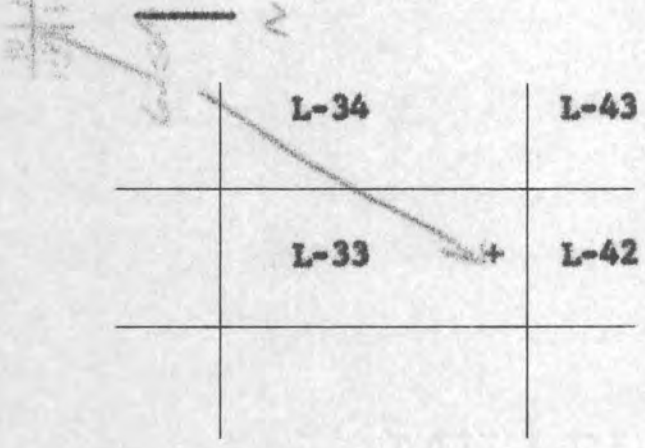
14245 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 155

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-33 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-33 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6,250 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

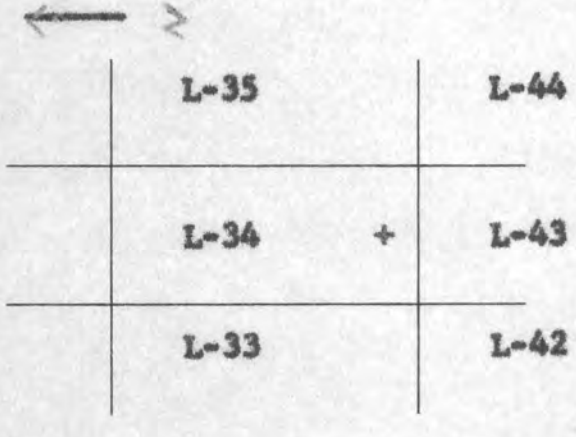
XXX 14246 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 156

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-34 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-34 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY:

Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14247 3-2-66

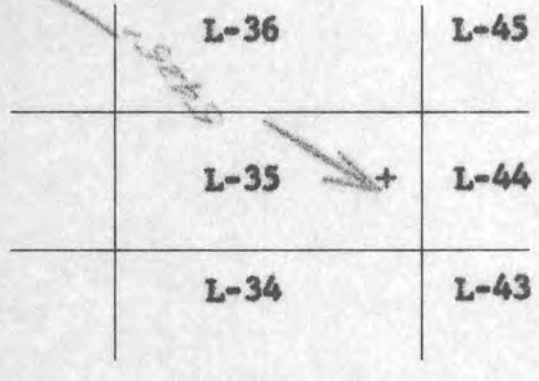
RECORDS OF MINES BOOK 2692 PAGE 157

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-35 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-35 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5425 TO THE NE CORNER, SECTION 15.

10 11 14 15



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

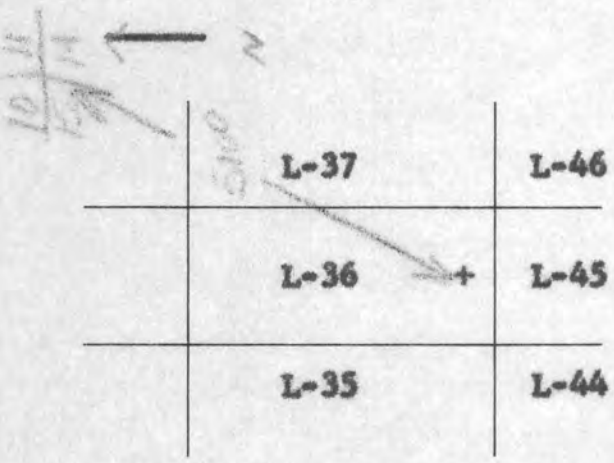
14248 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 158

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-36 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-36 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5100 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

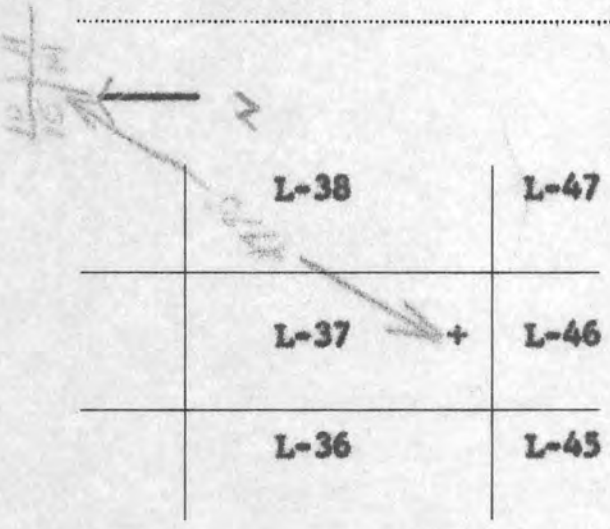
14249 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 159

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-37 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-37 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4775 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

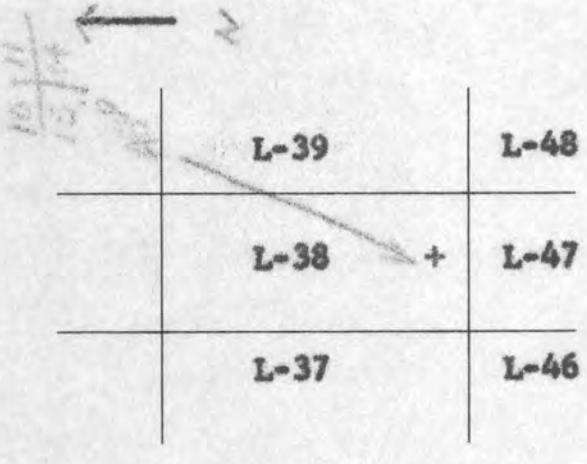
14250 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 160

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-38 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-38 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4600' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

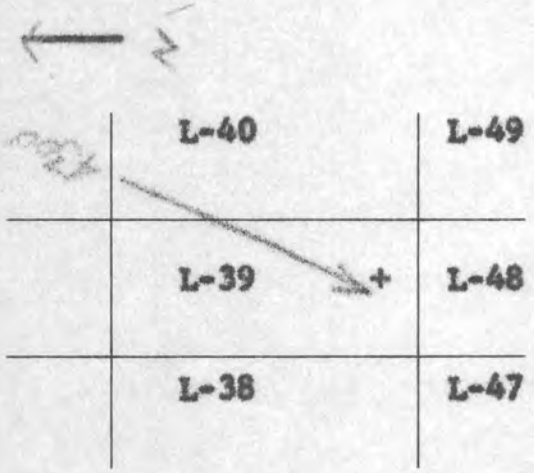
14251 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 161

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-39 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-39 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THIS LOCATION MONUMENT IS LOCATED APPROXIMATELY 4300' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

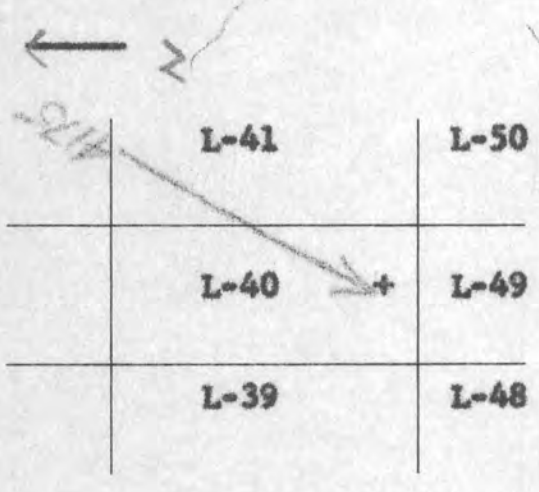
14252 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 162

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-40 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-40 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4175 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: D. Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14253 3-2-66

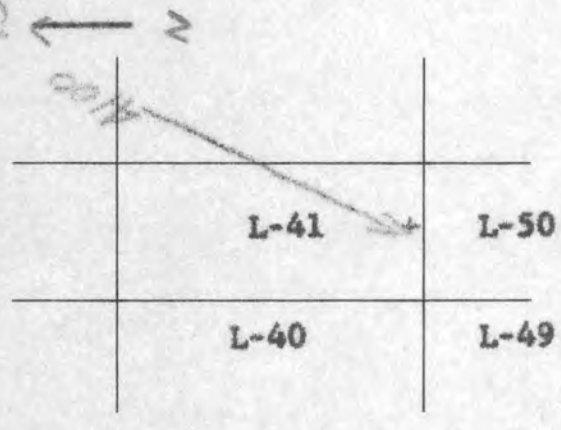
RECORDS OF MINES BOOK 2692 PAGE 163

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-41 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-41 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY A100' TO THE NE CORNER, SECTION 15.

10/11
15/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

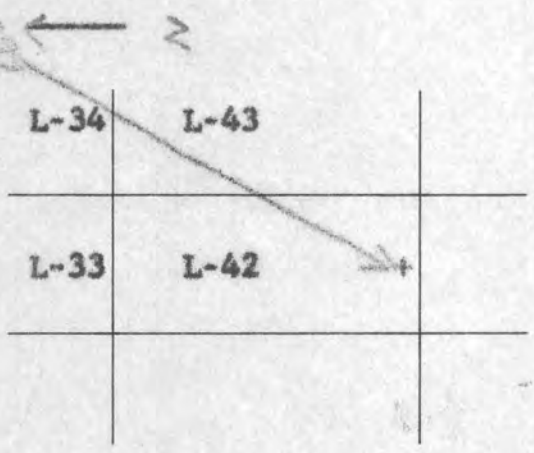
14254 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 164

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-42 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-42 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6,600' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14255 3-2-66

RECORDS OF MINES 2692 PAGE 165

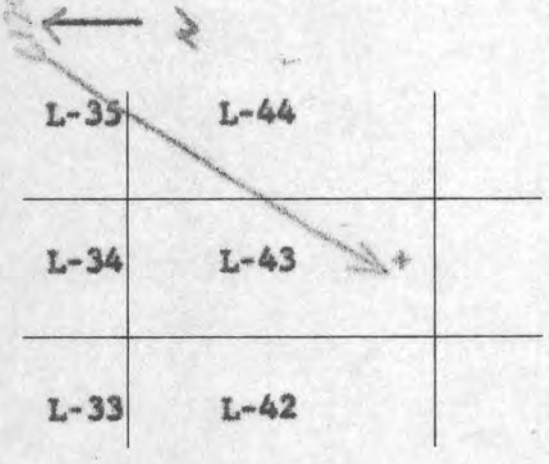
Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-43 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-43 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6125 TO THE NE CORNER, SECTION 15.

10 | 11
15 | 14

L-35	L-44	
L-34	L-43	+
L-33	L-42	



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

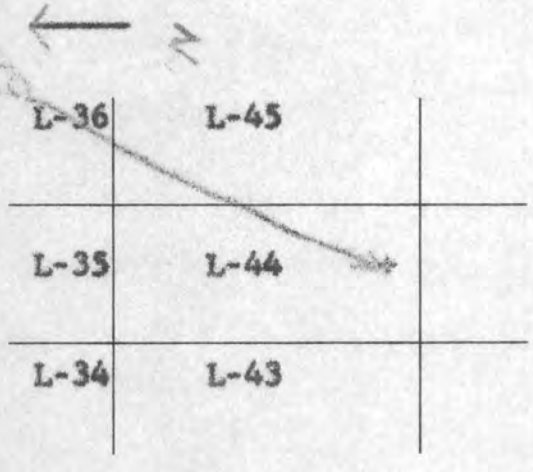
14256 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 166

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-44 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-44 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5,700' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

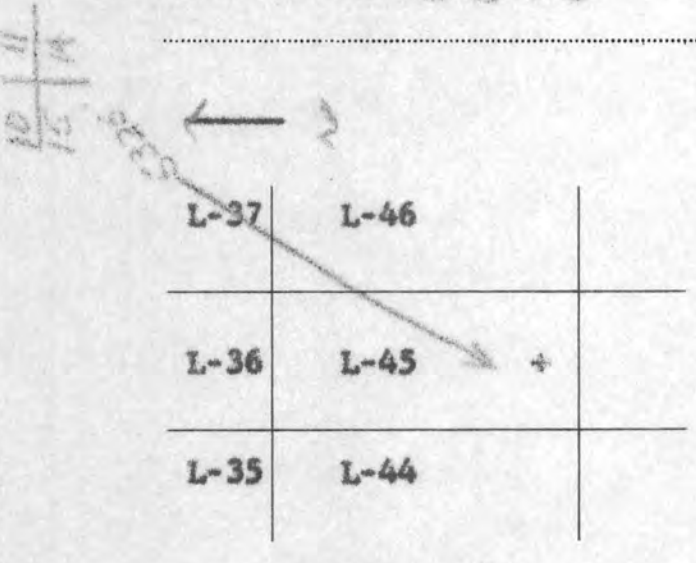
14257 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 167

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-45 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-45 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5725' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

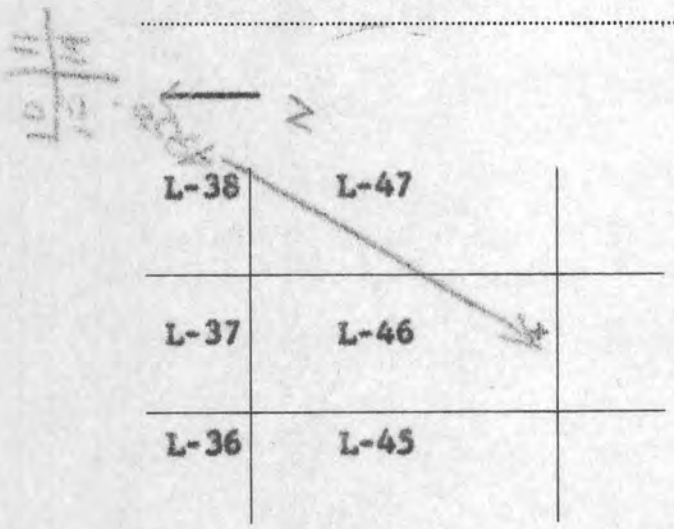
14258 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 168

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-46 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-46 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4950' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14259 3-2-66

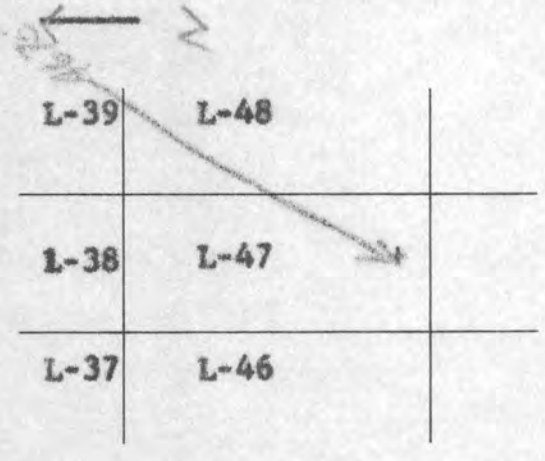
RECORDS OF MINES BOOK 2692 PAGE 169

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-47 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-47 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4675' TO THE NE CORNER, SECTION 15.

12/11
15/14



E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

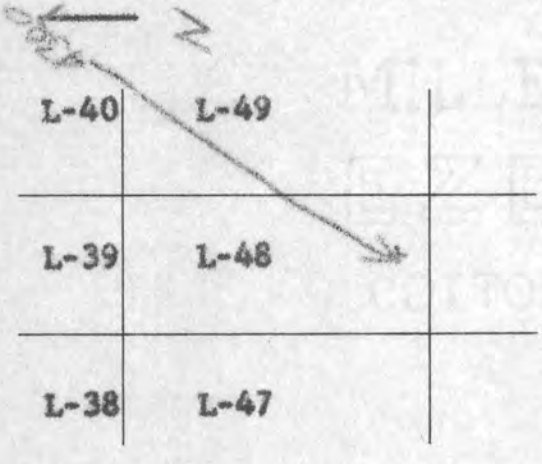
14260 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 170

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-48 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-48 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4300' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

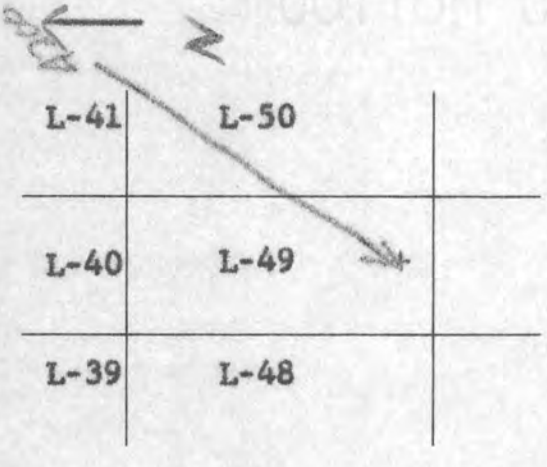
14261 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 171

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-49 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-49 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4200' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

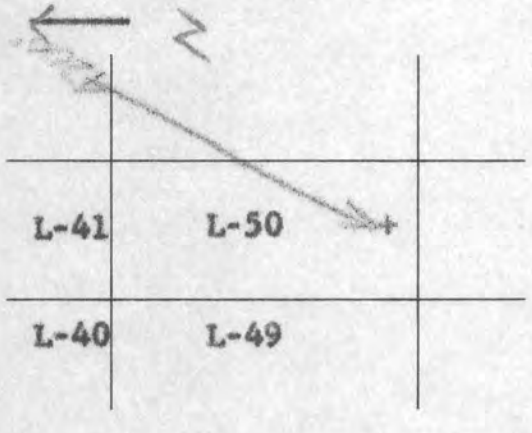
14262 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 172

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-50 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-50 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4200' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

No 14213 Record of Mines
Book 2692 Page 123

14213 RECORD OF MINES
BOOK 2692 Page 123

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-1 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-1 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M., THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4760' TO THE SW CORNER OF SECTION 12.

	L-2	L-9
	L-1 X	L-8

E. GROVER HEINRICHS

BY Dan Anderson
Locator
DAN ANDERSON, AGENT

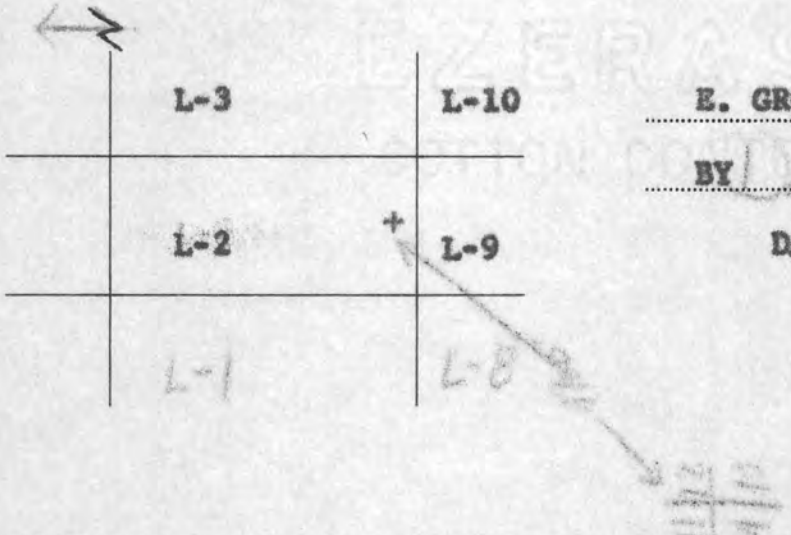
Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14214 3-2-66
RECORD OF MINES BOOK 2692 PAGE 124

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-2 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-2 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4900 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

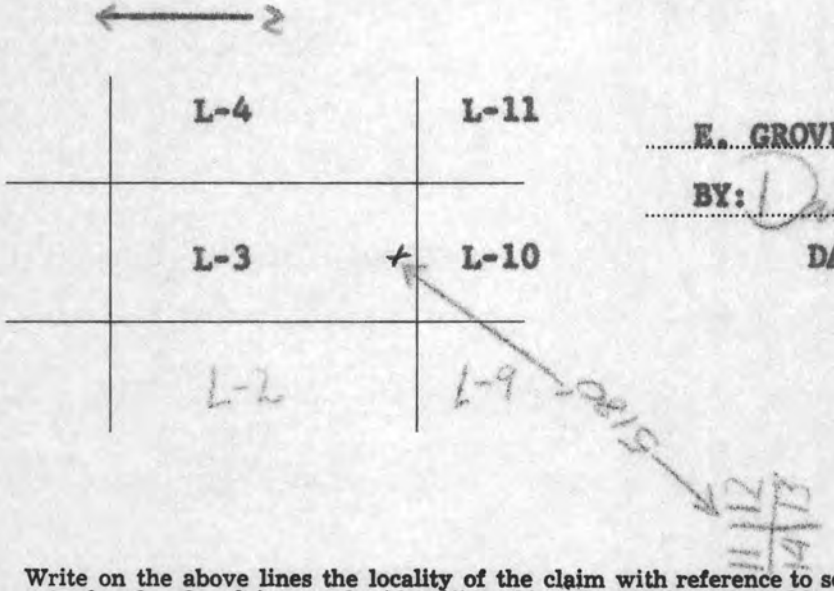
14215 3-2-66

RECORD OF MINES BOOK 2692 PAGE 125

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-3 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-3 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, GSRB&M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5180 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

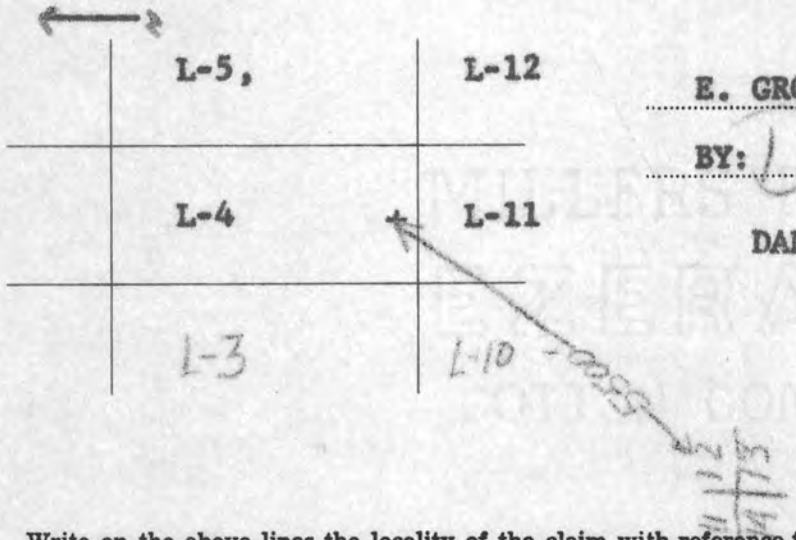
14216 3-2-66

RECORD OF MINES BOOK 2692 PAGE 126

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-4 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-4 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5500' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

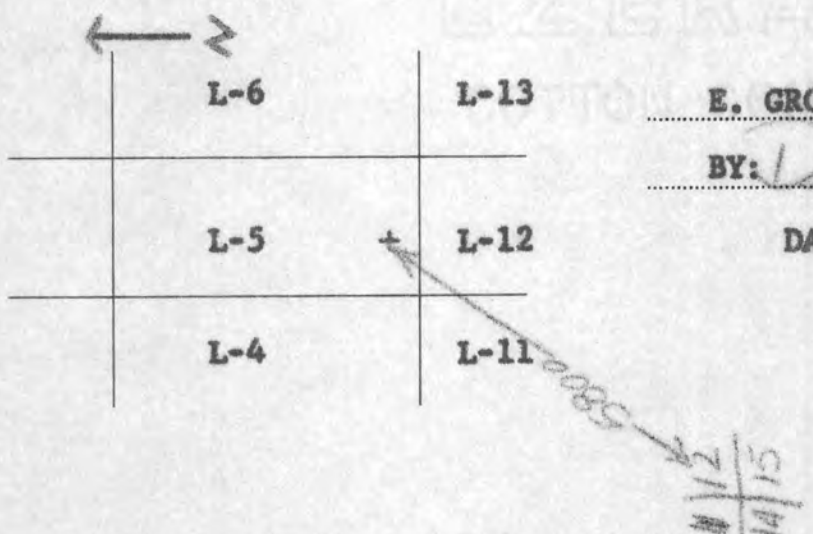
14217 3-2-1966

RECORD OF MINES BOOK 2692 PAGE 127

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-5 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66 This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-5 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5800' TO THE SW CORNER, SECTION 12



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

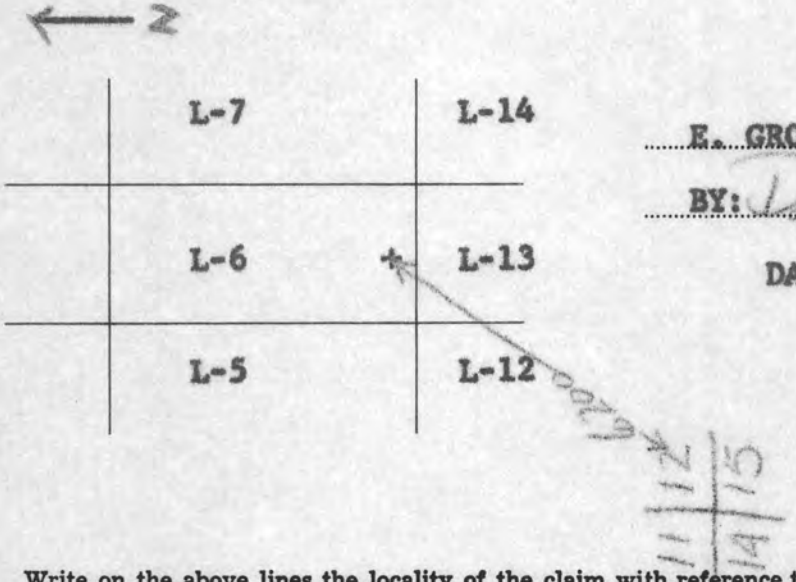
Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14218 3-2-1966
RECORD OF MINES BOOK 2692 PAGE 128

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-6 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-6 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6200' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

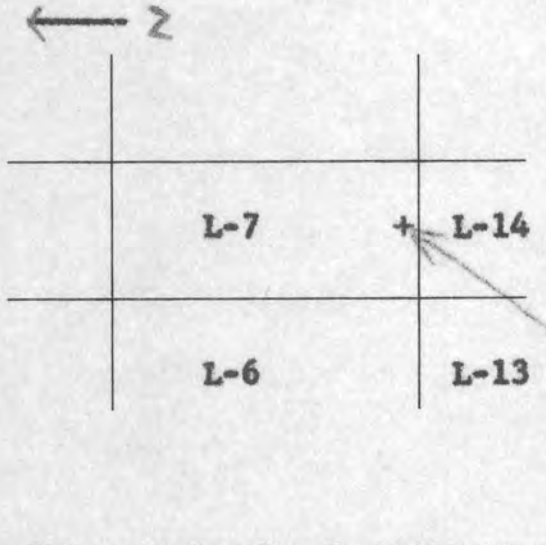
14219 3-2-66

RECORD OF MINES BOOK 2692 PAGE 129

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-7 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66 This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-7 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6700' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

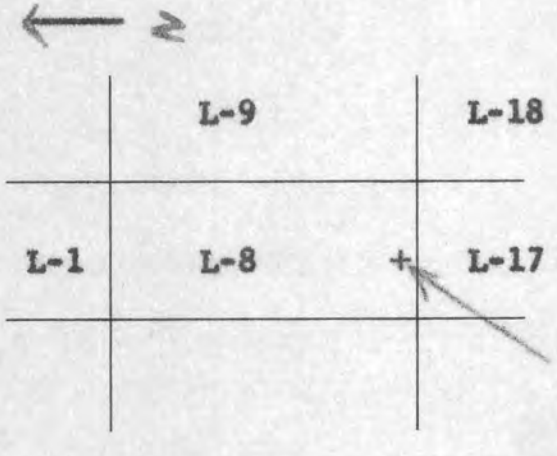
14220 3-2-66

RECORD OF MINES BOOK 2692 PAGE 130

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-8 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-8 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

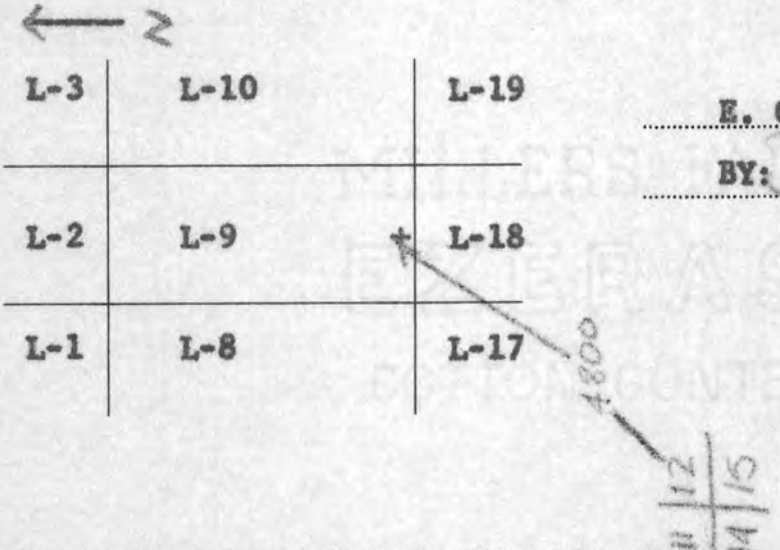
14221 3-2-66

RECORD OF MINES BOOK 2692 PAGE 131

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-9 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-9 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4800' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

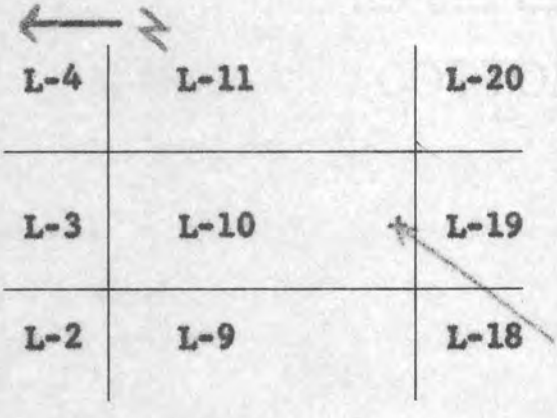
14222 3-2-1966

RECORD OF MINES BOOK 2692 PAGE 132

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-10 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66 This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-10 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5400' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14223 3-2-66

RECORD OF MINES BOOK 2692 PAGE 133

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-11 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-11 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5400' TO THE SW CORNER, SECTION 12.

← 2

L-5	L-12	L-21
L-4	L-11	L-20
L-3	L-10	L-19

5400'

11 12 / 14 15

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

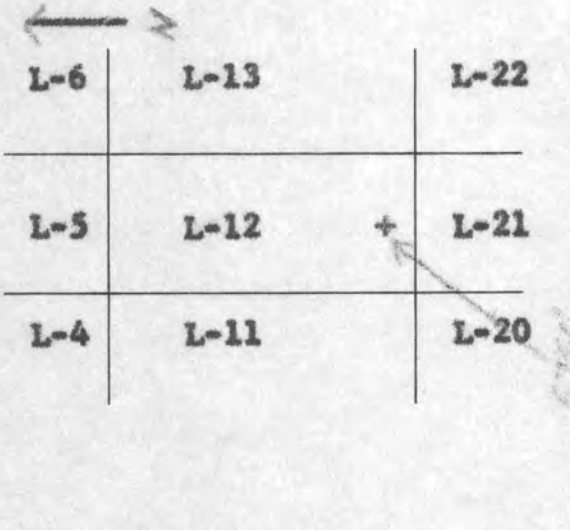
14224 3-2-66

RECORD OF MINES BOOK 2692 PAGE 134

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-12 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-12 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5750' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson

Locator

DAN ANDERSON

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14224 3x 2-66

RECORDS OF MINES BOOK 2692 PAGE 135

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-13 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-13 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6150 TO THE SW CORNER, SECTION 12.

L-7	L-14		L-23
L-6	L-13	+	L-22
L-5	L-12		L-21

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

6150

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

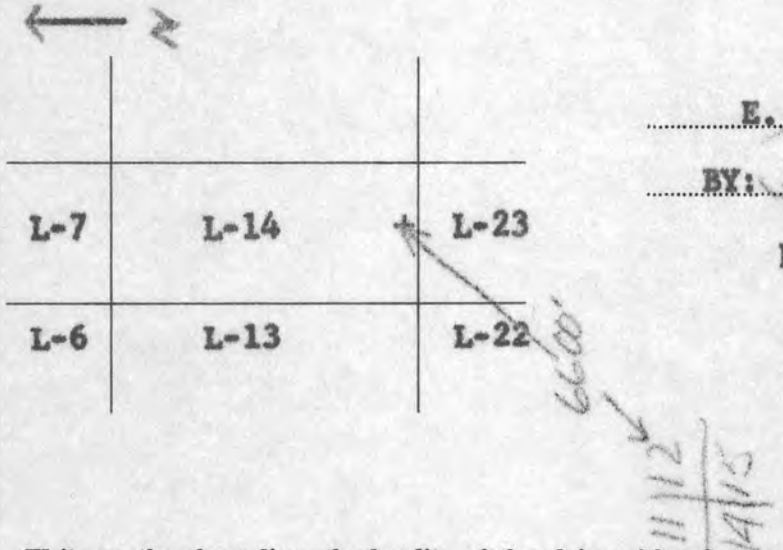
14226 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 136

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-14 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-14 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

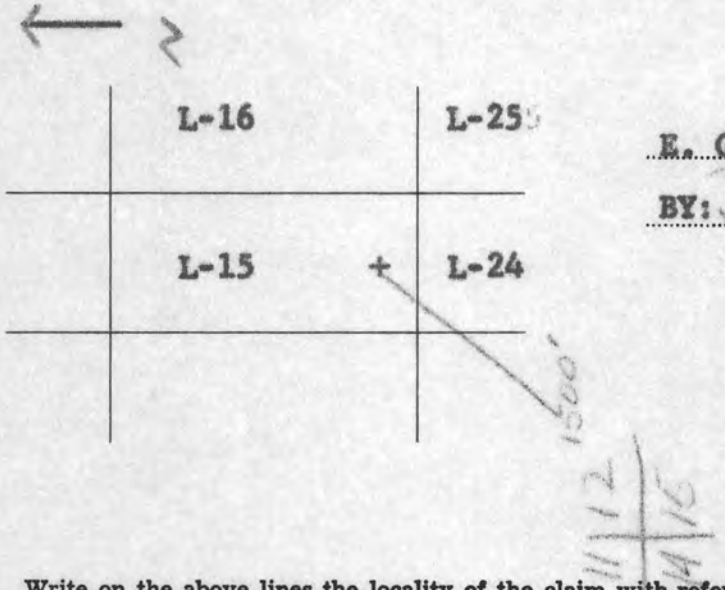
14227 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 137

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-15 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-15 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1500' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

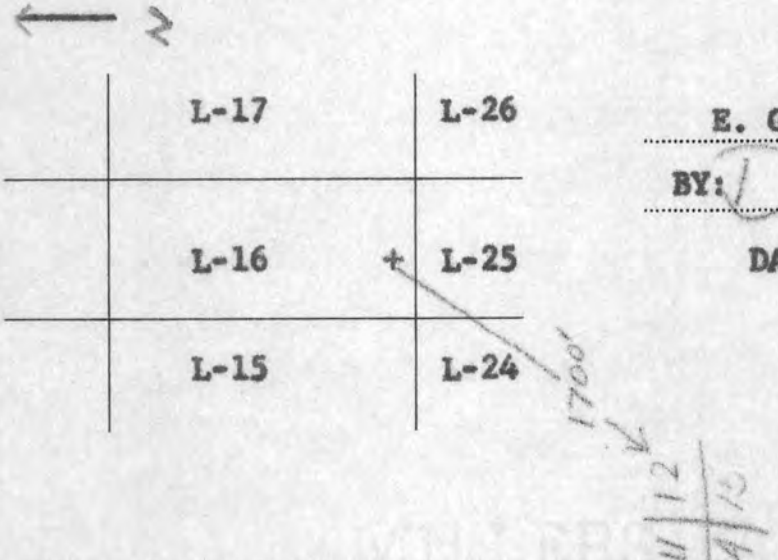
14228 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 138

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-16 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-16 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1700' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

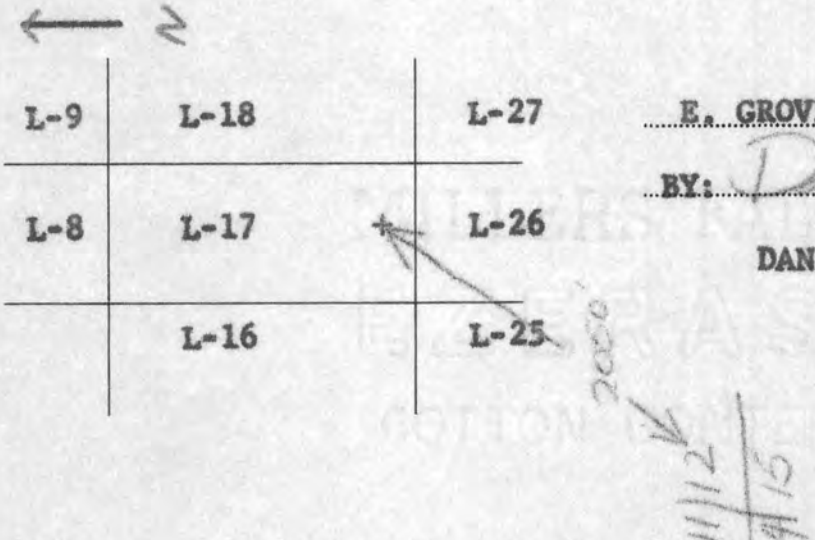
Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14229 3-2-66
RECORDS OF MINES BOOK 2692 PAGE 139

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-17 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-17 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2050 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

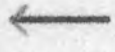
14230 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 140

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-18 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-18 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2450' TO THE SW CORNER, SECTION 12.

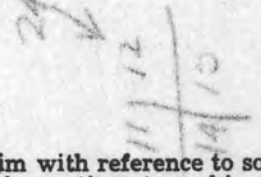


L-10	L-19		L-28
L-9	L-18	+	L-27
L-8	L-17		L-27

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT



Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

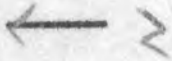
14231 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 141

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-19 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-19 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2950' TO THE SW CORNER, SECTION 12.

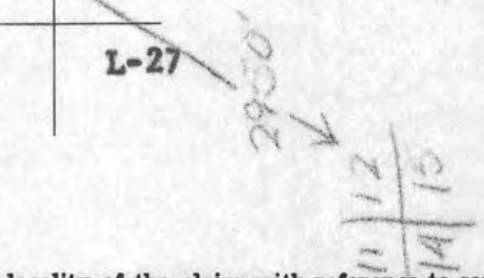


L-11	L-20	L-29
L-10	L-19	L-28
L-9	L-18	L-27

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT



Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

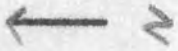
14232 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 142

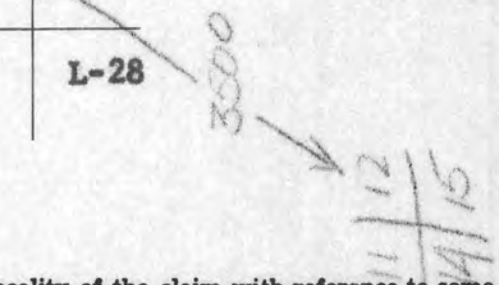
Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-20 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-20 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 3500' TO THE SW CORNER, SECTION 12.



L-12	L-21		L-30
L-11	L-20	+	L-29
L-10	L-19		L-28



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14233 X3-2-66

RECORDS OF MINES BOOK 2692 PAGE 143

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-21 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-21 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4050' TO THE SW CORNER, SECTION 12.

L-13	L-22	L-31
L-12	L-21 +	L-30
L-11	L-20	L-29

E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14234 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 144

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-22 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-22 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S. R. B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4400' TO THE SW CORNER, SECTION 12.

L-14	L-23		L-32
L-13	L-22	+	L-31
L-12	L-21		L-30

E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

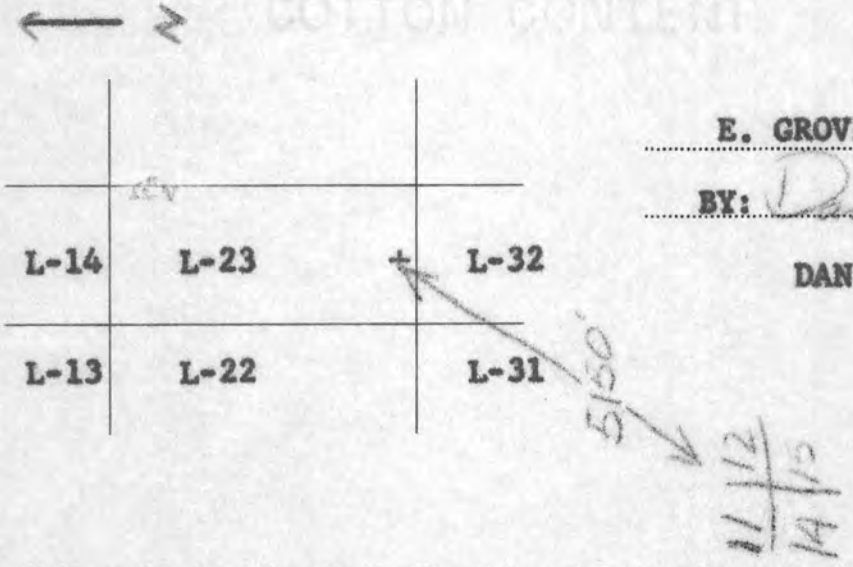
14235 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 145

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-23 lode mining claim was located by E. GROVER HEINRICHS on February 28, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-22 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5150' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

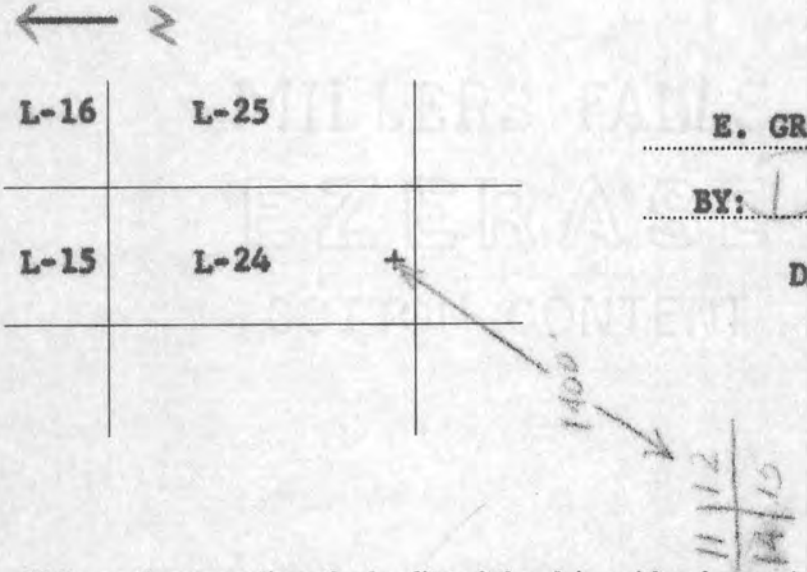
14236 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 146

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-24 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-24 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1400' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

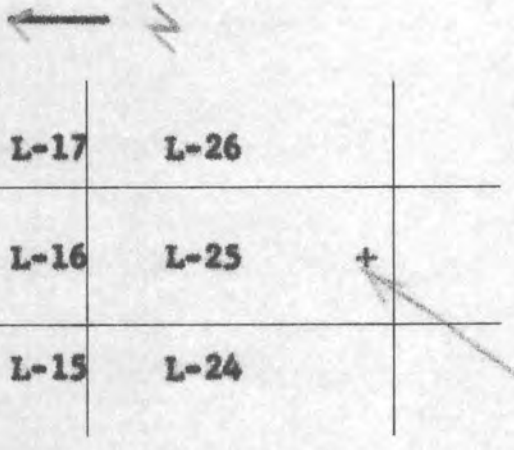
14237 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 147

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-25 lode mining claim was located by E. GROVER HEINRICHS on February 25, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-25 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 1600' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

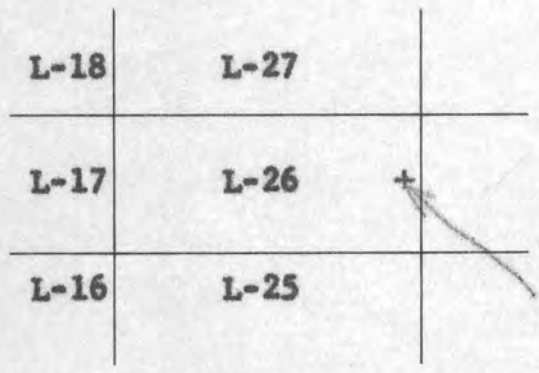
14238 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 148

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-26 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-26 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2000' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

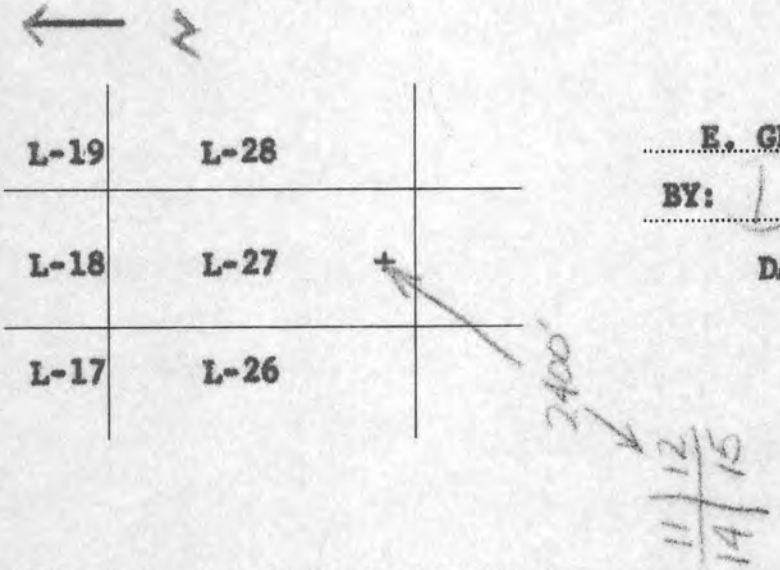
14239 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 149

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-27 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-27 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2400' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: [signature]
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

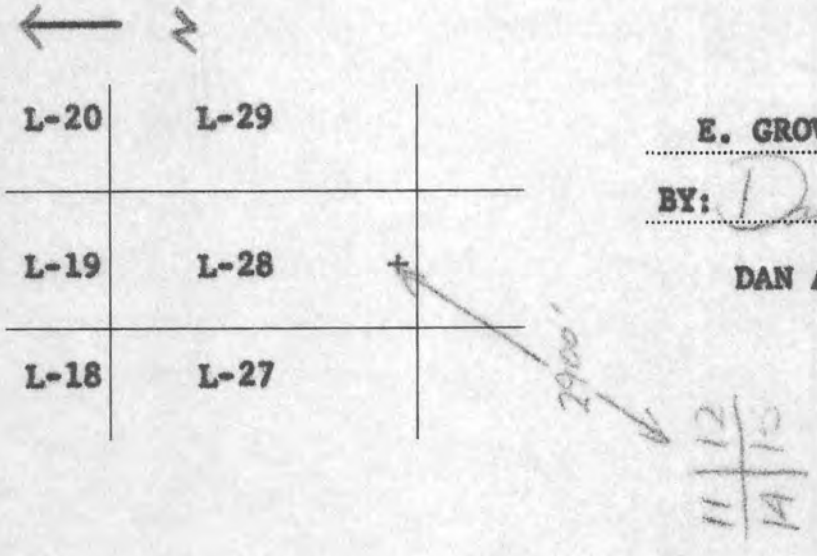
14240 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 150

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-28 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-28 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 2900' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

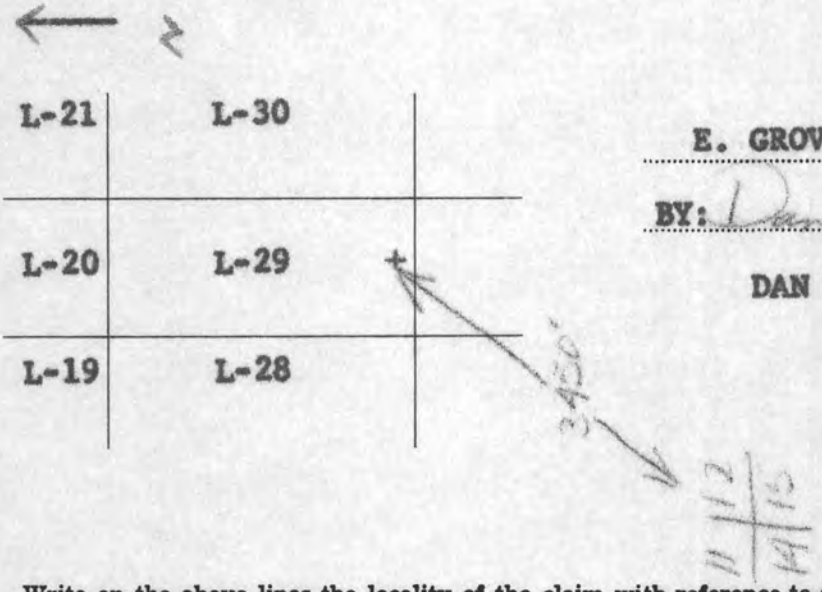
14241 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 151

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-29 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-29 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 3450' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

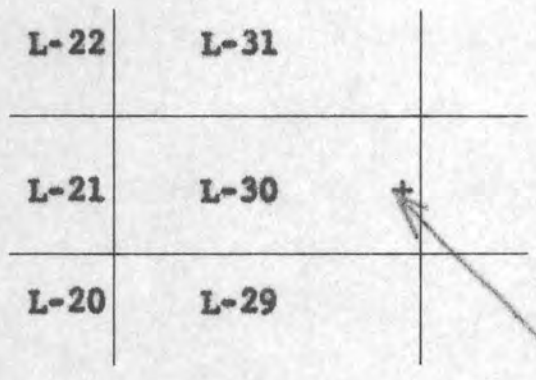
14242 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 152

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-30 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-30 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4000' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

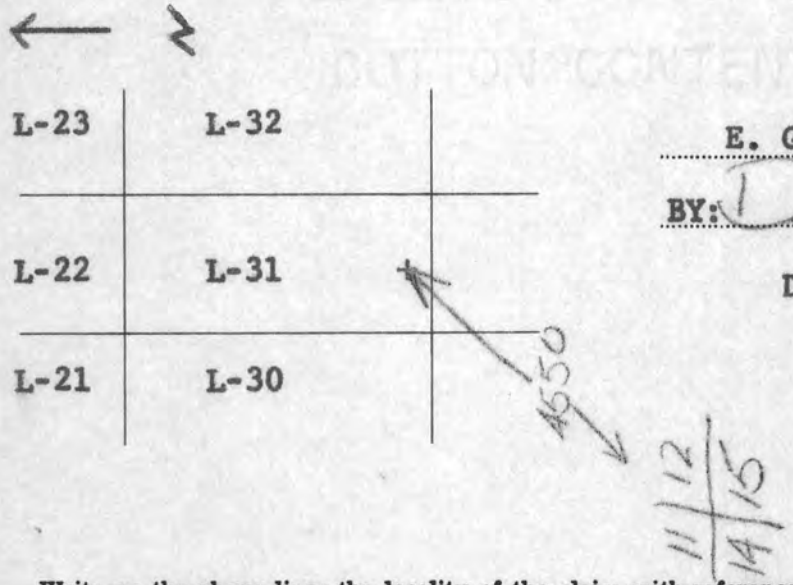
14243 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 153

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-31 lode mining claim was located by E. GROVER HEINRICHS on February 25, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-31 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4550' TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

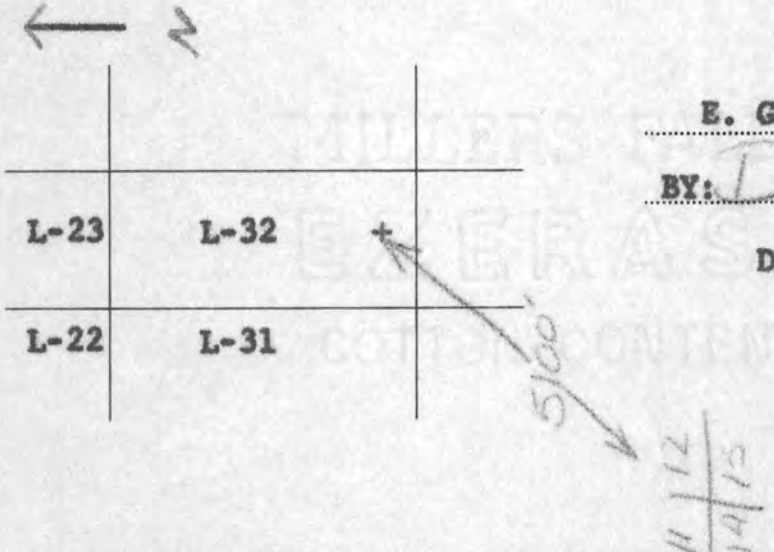
14244 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 154

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-32 lode mining claim was located by E. GROVER HEINRICHS on February 28, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-32 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 12, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5100 TO THE SW CORNER, SECTION 12.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

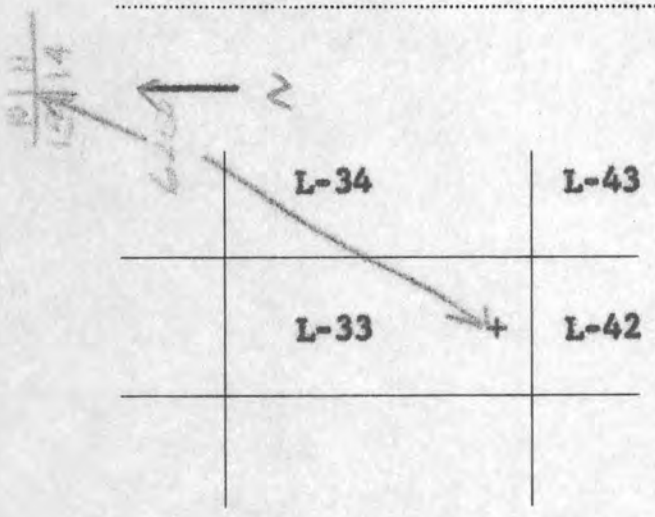
14245 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 155

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-33 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-33 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6,250 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

XXX 14246 3-2-66

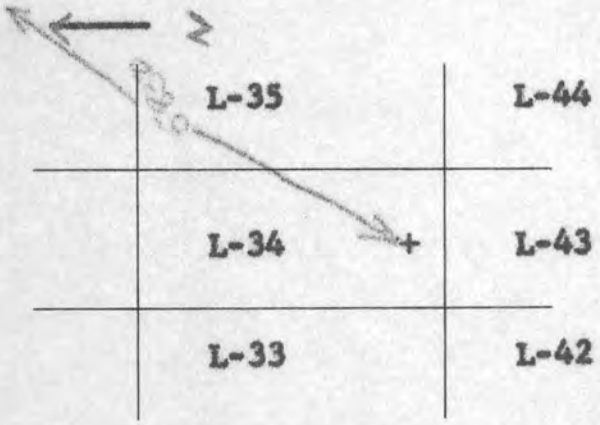
RECORDS OF MINES BOOK 2692 PAGE 156

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-34 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-34 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5850 TO THE NE CORNER, SECTION 15.

10/11/12/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14247 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 157

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-35 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-35 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5425 TO THE NE CORNER, SECTION 15.

	L-36	L-45
	L-35 +	L-44
	L-34	L-43

E. GROVER HEINRICHS

BY: _____
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

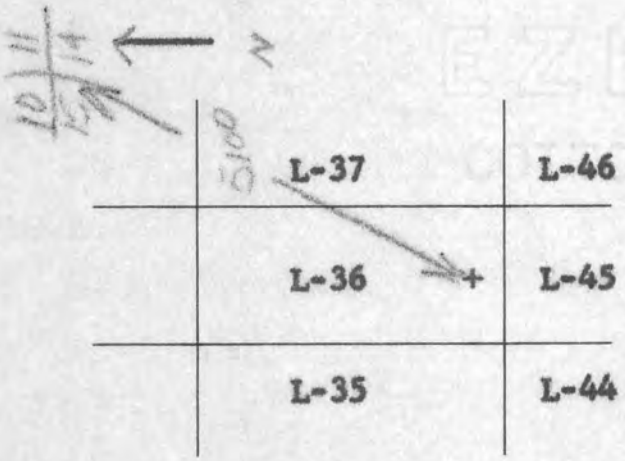
14248 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 158

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-36 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-36 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5100 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

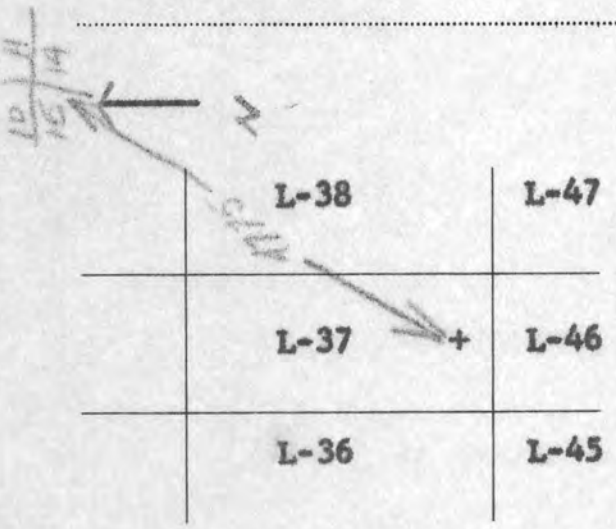
14249 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 159

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-37 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-37 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4775 TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

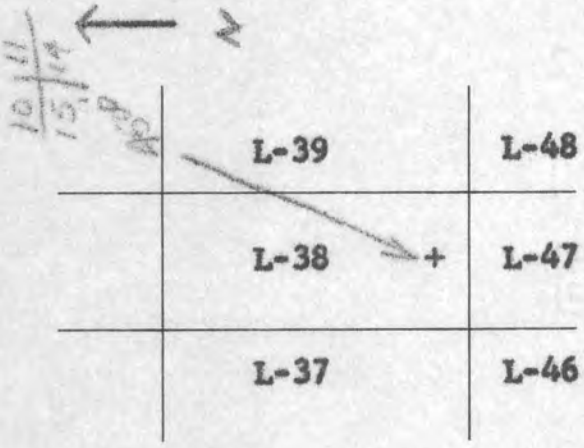
14250 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 160

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-38 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-38 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4500' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

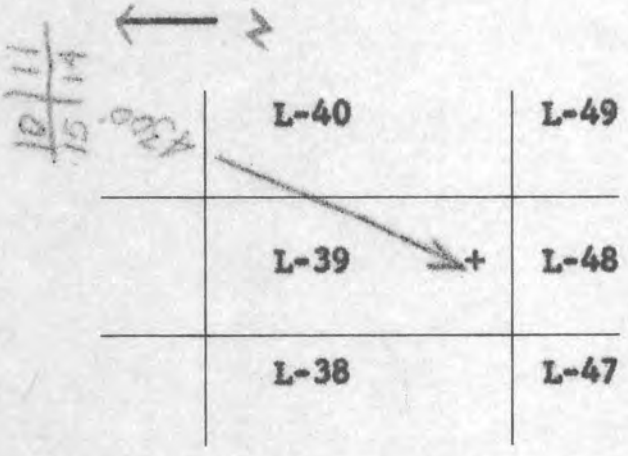
14251 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 161

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-39 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-39 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THIS LOCATION MONUMENT IS LOCATED APPROXIMATELY 4300' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14252 3-2-66

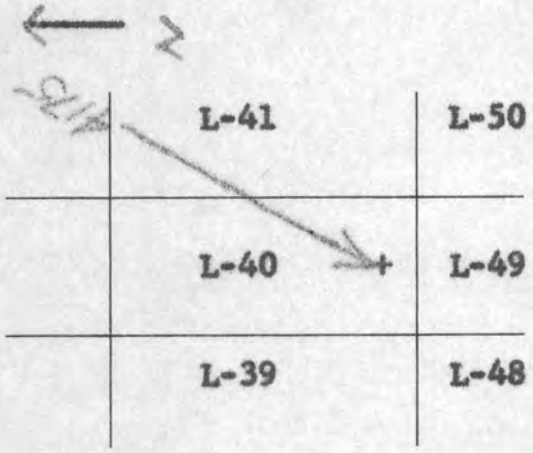
RECORDS OF MINES BOOK 2692 PAGE 162

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-40 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-40 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4175 TO THE NE CORNER, SECTION 15.

10/11
15/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14253 3-2-66

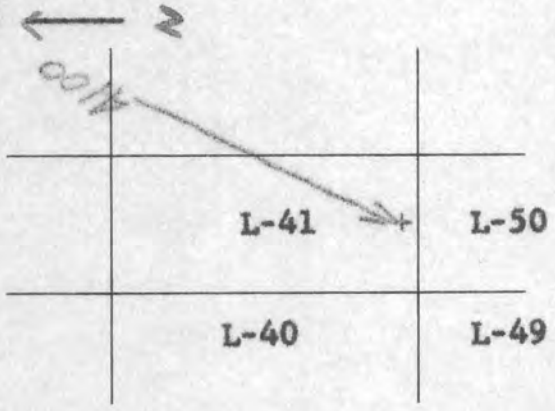
RECORDS OF MINES BOOK 2692 PAGE 163

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-41 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a SOUTHERLY direction to the SOUTH center end monument or stake and 1450 feet in a NORTHERLY direction from the location monument or stake to the NORTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-41 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4100' TO THE NE CORNER, SECTION 15.

10/11/15/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

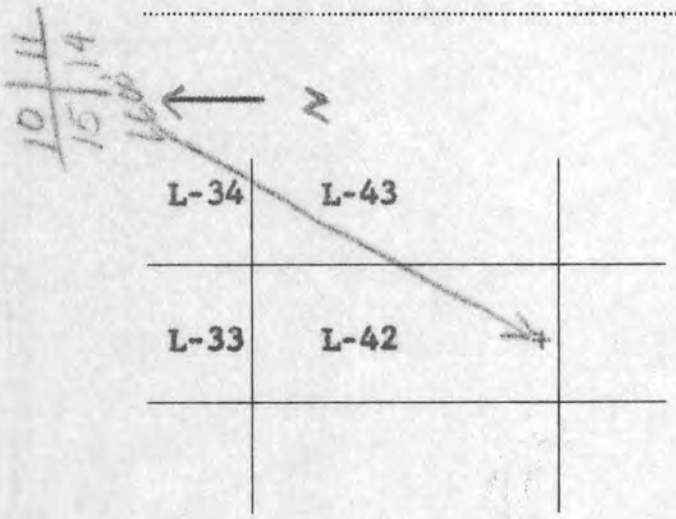
14254 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 164

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-42 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-42 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6,600' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14255 3-2-66

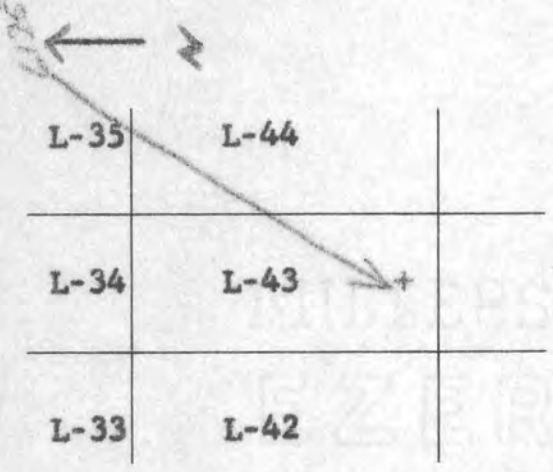
RECORDS OF MINES 2692 PAGE 165

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-43 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-43 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 6,125 TO THE NE CORNER, SECTION 15.

10/11/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14256 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 166

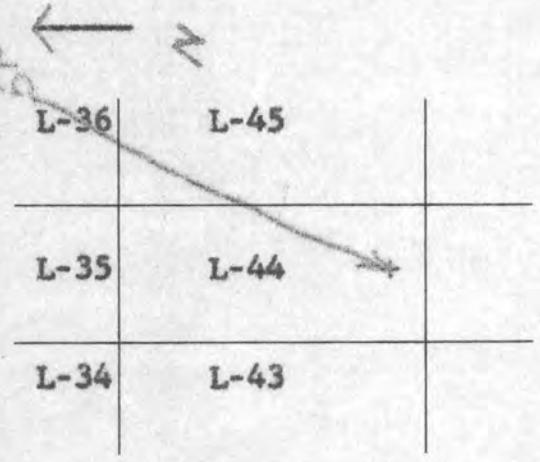
Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-44 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-44 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5,700' TO THE NE CORNER, SECTION 15.

10 | 11
15 | 14
5700

L-36	L-45	
L-35	L-44	
L-34	L-43	



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14257 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 167

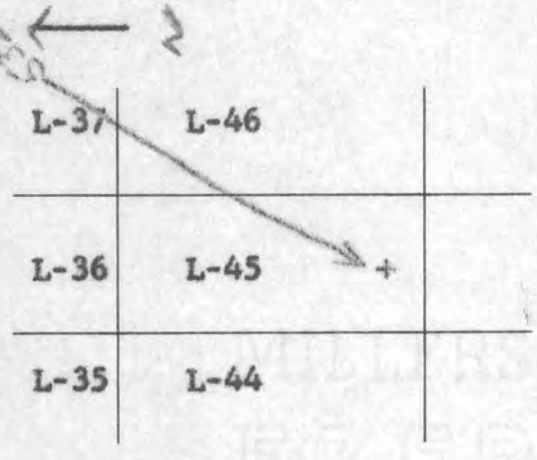
Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-45 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-45 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 5325' TO THE NE CORNER, SECTION 15.

10 | 11
15 | 14

5325'



E. GROVER HEINRICHS

BY: [signature]
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

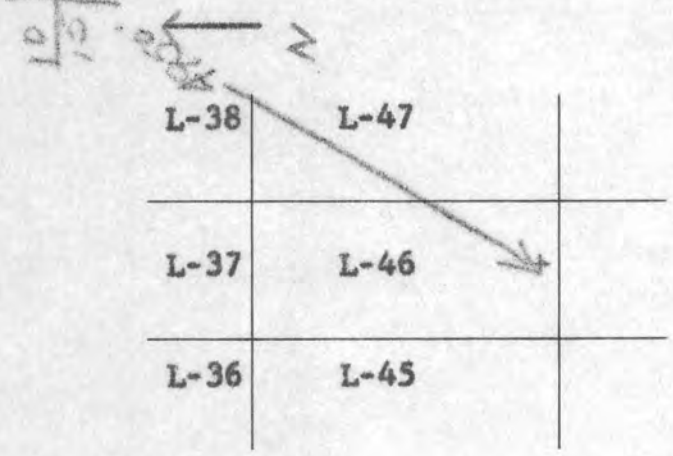
14258 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 168

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-46 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-46 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4950' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14259 3-2-66

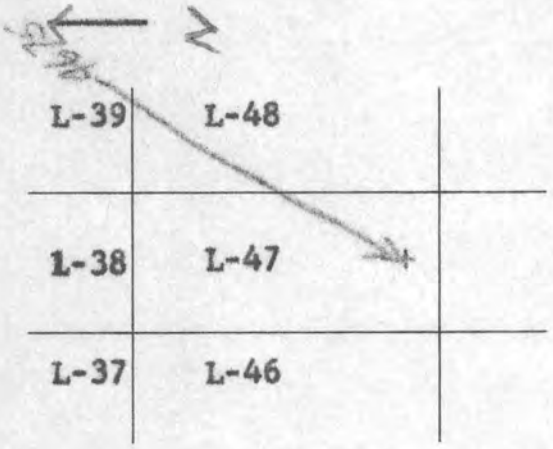
RECORDS OF MINES BOOK 2692 PAGE 169

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-47 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-47 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4675' TO THE NE CORNER, SECTION 15.

10/11
15/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14260 3-2-66

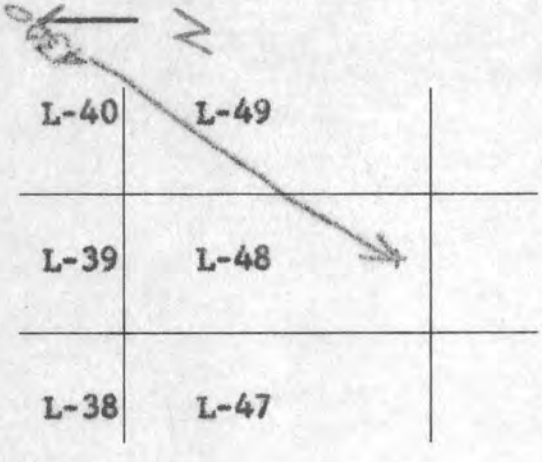
RECORDS OF MINES BOOK 2692 PAGE 170

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-48 lode mining claim was located by E. GROVER HEINRICHS on March 1, 19 66. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-48 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4300' TO THE NE CORNER, SECTION 15.

10 11 14 15



E. GROVER HEINRICHS

BY: Dan Anderson
Locator

DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

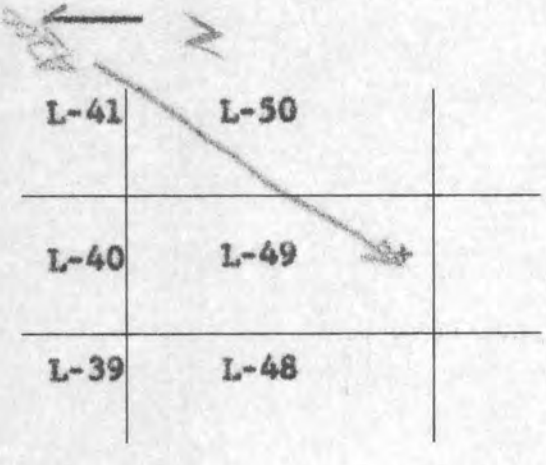
14261 3-2-66

RECORDS OF MINES BOOK 2692 PAGE 171

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-49 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 SOUTH feet in a SOUTHERLY direction from the location monument or stake to the center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-49 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S, R 10 E, G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4200' TO THE NE CORNER, SECTION 15.



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

14262 3-2-66

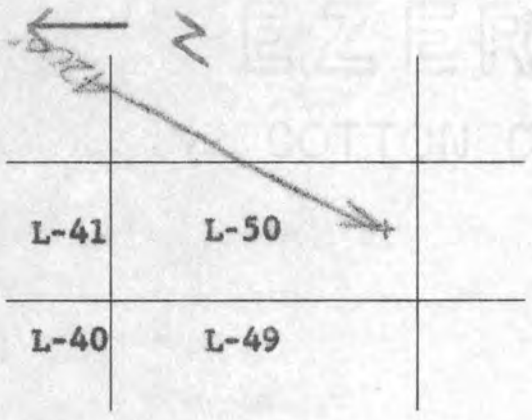
RECORDS OF MINES BOOK 2692 PAGE 172

Notice of Location
(LODE)

NOTICE IS HEREBY GIVEN that the L-50 lode mining claim was located by E. GROVER HEINRICHS on March 1, 1966. This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 300 feet in width on each side of the middle of said vein or deposit at which this notice is posted. The general course of this claim is NORTH-SOUTH and is situated in the ROSKRUGE Mining District, PIMA County, Arizona. This claim runs from the location monument or stake on which the notice is posted 50 feet in a NORTHERLY direction to the NORTH center end monument or stake and 1450 feet in a SOUTHERLY direction from the location monument or stake to the SOUTH center end monument or stake, and is also marked by two corner monuments or stakes at each end of the claim, one on each side of and 300 feet from the center end monuments or stakes, making the claim in the form of a parallelogram.

L-50 IS PART OF A CONTIGUOUS GROUP OF CLAIMS LOCATED IN SECTION 15, T 15 S. R 10 E. G.S.R.B. & M. THE LOCATION MONUMENT IS LOCATED APPROXIMATELY 4200' TO THE NE CORNER, SECTION 15.

10/11
15/14



E. GROVER HEINRICHS

BY: Dan Anderson
Locator
DAN ANDERSON, AGENT

Write on the above lines the locality of the claim with reference to some natural object or permanent monument whereby the claim can be identified. Give the section, township and range if known and, if possible, the direction and distance from the nearest public survey marker. It is advisable to make a sketch in the space above, showing the adjoining and overlapping claims. If this is an amendment of a location notice, give the name and book and page of recording of the claim being amended.

CW&G File

TECHNESONICS MAG NOTES

Chapman, Wood & Griswold

1966

3 - 2 THROUGH 3-9 66

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DAN ANDERSON (MAG.)
MIKE FRAKER (NOTES)

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X-1751

HAND MAG Field Notes

3-2-66

(1)

for

CHAPMAN, Wood & Griswold

TR.MK. REG. U.S. PAT. OFF.

LINE #9 EAST FROM BASE

LINE	STA. BASE	RANGE STATION	READING	Q	COR	TIME	
9	0+00	+1	1240			9:45	14
	1-E		1240				
	2-E		1260				
	3-E		1310				
	4-E		1300				
	5-E		1290				
	6-E		1310				
	7-E		1330				
	8-E		1330				
	9-E		1310				
	10-E		1320				
	11		1320				
	12		1310			10:00	
	13		1310				
	14		1300				
	15		1300				
	16		1310				
	17		1340				
	18		1340				
	19		1310				
	20		1300				
	21		1320				
	22		1290				
	23		1300				
	24		1290				
	25		1290				
	26		1290		Sea Cor		11/14 12/15
	27		1310				

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STA LINE	RANGE 9 EAST	READING CONT.		3-2-66 (2) Corr Reading
28 E	1280 +1			
29	1240 +1			
30	1310 +1			
31	1280 +1			
32	1260 +1			
33	1240			
34	1240			
35	1240			
36	1260			
37	1250			
38	1220			
39	1240			
40	1240			
41	1250			
42	1240			
43	1240			
44	1240			
45	1240	→		1230
46	1210			1200
47	1180			1170
48	1190			1180
49	1190			1180
50	1180	11:00		1170
51	1190			1180
52	120			1190
53	121			1200
54	119			1180
55	120			1190
56	122			1210
57	117			1160
58	116			1150
59	118			1170

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3-2-66
(3)

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STA Line	Range 9	Reading EAST Cont.	
60E	+	121 →	1120
61		119	1180
62		120	1190
63		120	1190
64		116	1150
65		118	1170
66		116	1150
67		118	1170
68		118	1180
69		116	1150
70		116	1150
71		118	1170
72		115	1140
73		117	1160
74		117	1160
75		116	1150
76		117	1160
77		115	1140
78		114	1130
79			

North, South FENCE LINE
END LINE #9 EAST

CAME OUT 150 FT. SOUTH OF THE SECTION CORNER

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LINE # 7 EAST

3-2-66
(4)

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STA	RANGE	READING		
79+00	+1	114		1120
78+00	+1	112		1100
77+00	+1	112		1100
76+00	+1	110		1080
75+00	+1	111		1090
74+00	+1	113		1110
73+00		115		1130
72+00		112	12:00	1100
71+00		114		1120
70+00		113		1110
69+00		114		1120
68+00		116		1140
67		117		1150
66		114		1120
65		116		1140
64		115		1130
63		116		1140
62		117		1150
61		118		1160
60		116		1140
59		116		1140
58		116		1140
57		118		1160
56		118		1160
55		119		1170
54		121		1190
53		118		1160
52		121		1190
51		121		1190
50		121		1190

LINE No 7 EAST

3-2-66

5

STA	RANGE	Reading			
49	+1	122			1200
48	+1	123			1210
47	+1	123			1210
46	+1	121			1190
45	+1	120			1180
44	+1	121			1190
43	+1	123			1210
42	+1	125			1230
41	+1	125			1230
40	+1	125			1230
39	+1	124			1220
38	+1	122			1200
37	+1	119			1170
36		122			1200
35		123			1210
34		124			1220
33		124			1220
32		126			1240
31		125			1230
30		124			1220
29		126			1240
28		125			1230
27		125			1230
26		126			1240
25		127			1240
24		128			1250
23	126	125	-1220	BASE CHECK 120	
22		132	-2		1300
21		130			1280
20		131			1290
19		129			1270

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42

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LINE #7 EAST

3-2-66

(6)

TR.MK. REG. U.S. PAT. OFF.

STH.	RANGE	Reading		
18	+1	129		1270
17	+1	132		1300
16	+1	131		1290
15	+1	131		1290
14	+1	129		1270
13	+1	132		1300
12	+1	130		1280
11	+1	134		1320
10	+1	134		1320
9	+1	133		1310
8	+1	136		1340
7	+1	136		1340
6	+1	137		1350
5	+1	138		1360
4	+1	135		1330
3	+1	141		1390
2	+1	143		1410
1	+1	144		1420
0	+1	143		1410
1W	+1	143	WEST	1410
2	+1	144		1420
3		141		1390
4		143		1410
5		145		1430
6		147		1450
7		149		1470
8		152		1500
9		153		1510
10		157		1550
11		157		1550
12	↓	160		1580

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LINE # 9 WEST
STA. RANGE READING

3-366
(7)

TR.MK. REG. U.S. PAT. OFF.

BASE	+/	121	
1	+1	121	1240
2	+1	120	1230
3	+1	114	1170
4	+1	114	1170
5	+1	116	1190
6	+1	112	1150
7	+1	112	1150
8	+1	111	1140
9	+1	111	1140
10	+1	107	1100
11	+1	106	1090
12		104	1070
13		104	1070
14		101	1040
15		101	1040
16		94	970
17		80	830
18		80	830
19		76	790
20		86	890
21		94	970
22		101	1040
23		101	1040
24		105	1080
25		105	1080
26		108	1110
27		107	1100
28		109	1120
29		114	1170
30		115	1180
31		115	1180

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LINE #9 WEST
STA. RANGE READING

3-3-66
8

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32	+1	116	1190
33	+1	121	1240
34	+1	119	1230
35	+1	121	1250
36	+1	120	1240
37	+1	121	1250
38	+1	121	1250
39	+1	124	1270
40	+1	126	1290
41	+1	124	1270
42	+1	130	1330
43	+1	132	1350
44	+1	136	1390
45	+1	135	1380
46		139	1420
47		141	1440
48		144	1470
49		143	1460
50		144	1470
51		146	1490
52		147	1500
53		146	1490
54		146	1490
55		146	1490
56		149	1520
57		148	1510
58		148	1510
59		149	1520
60		149	1520
61		146	1490
62		151	1540

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Line #9 West

3-3-66

9

STH.	Range	Reading		
63	+1	147		1500
64	+1	146		1490
65	+1	144		1470
66	+1	146	+3	1490
67	+1	146		1490
68	+1	140		1430
69	+1	150		1530
70	+1	151		1540
71	+1	124		1270
72	+1	120		1230
73	+1	139		1420
74	+1	125		1280
75	+1	127		1300
76	+1	118		1210
77	+1	112		1150
78	+1	125		1280
79	+1	124		1270

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LINE 10 WEST

3-3-66

10

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STA.	RANGE	READING		
79	+1	84	+4	880
78	+1	79		830
77	+1	71		750
76	+1	84		880
75	+1	90		940
74	+1	94		980
73	+1	110		1140
72	+1	114		1180
71	+1	125		1290
70	+1	126		1300
69	+1	107		1110
68		104		1080
67		107		1110
66		111		1150
65		112		1160
64		112		1160
63		113		1170
62		113		1170
61		114		1180
60		122		1260
59		120		1240
58		117		1210
57		117		1210
56		114		1180
55		116		1200
54		110		1140
53		108		1120
52		105		1090
51		102		1060
50		98		1020
49		96		1000
48		92		960
47		94		980

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LINE # 10 WEST
STN. RANGE Reading

3-3-66
(11)

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STN.	RANGE	Reading		
46	+1	92	+4	960
45	+1	88		920
44	+1	86		900
43	+1	85		890
42	+1	84		880
41	+1	83		870
40	+1	85		890
39	+1	80		840
38	+1	118		1220
37	+1	87		910
36	+1	86		900
35		90		940
34		88		920
33		86		900
32		87		910
31		89		930
30		90		940
29		91		950
28		88		920
27		87		910
26		84		880
25		80		840
24		84		880
23		82		860
22		85		890
21		86		900
20		89		930
19		89		930
18		88		920
17		92		960
16		87		910

LEFAX, PHILADELPHIA, 7 PA. MADE IN U.S.A.

LINE #10 WEST

3-3-66

(12)

STA.	RANGE	READING		
15	+1	90	+4	940
14	+1	89		930
13	+1	91		950
12	+1	93		970
11	+1	94		980
10	+1	90		940
9	+1	96		1000
8	+1	95		990
7	+1	100		1040
6	+1	107		1110
5	+1	107		1110
4	+1	106		1100
3	+1	110		1140
2	+1	106		1100
1	+1	108		1120
0	+1	105	+4	1090
		BASE 120		
1 E.	+1	109		1130
2	+1	111		1150
3	+1	110		1140
4	+1	115		1190
5	+1	117		1210
6	+1	119		1230
7	+1	119		1230
8	+1	120		1240
9	+1	118		1220
10	+1	117		1210
11	+1	125		1290
12	+1	122		1260
13	+1	121		1250

EAST

TR.MK. REG. U.S. PAT. OFF.

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LEFAX, PHILADELPHIA, 7 PA.

LINE #10 EAST
SIH. Range Reading

3-3-66
(13)

TR.MK. REG. U.S. PAT. OFF.

14E	+1	124	1280
15	+1	125	1290
16	+1	125	1290
17	+1	125	1290
18	+1	124	1280
19	+1	126	1300
20	+1	124	1280
21	+1	126	1300
22	+1	126	1300
23	+1	124	1280
24	+1	124	1280
25	+1	124	1280
26	+1	125	1290

ORIGINAL CORP. 1960 BY S. D. PARKER

LEFAX, PHILADELPHIA, PA. MADE IN U.S.A.

LINE #7 WEST
STA. RANGE READING

3-3-66
(14)

TR.MK. REG. U.S. PAT. OFF.

13	+1	161	1590
14	+1	165	1630
15	+1	167	1650
16	+1	168	1660
17	+1	174	1720
18		171	1690
19		174	1720
20		171	1690
21		172	1700
22		171	1690
23		170	1680
24		172	1700
25		175	1730
26		175	1730
27		176	1740

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ORIGINAL COPR. 1960 BY W. C. PARKER

Line 8 WEST

3-3-66

(15)

TR.MK. REG. U.S. PAT. OFF.

STA.	RANGE	Reading		
27W	+1	164	44	1680
26W	+1	163		1670
25W	+1	166		1700
24	+1	166		1700
23	+1	167		1710
22W	+1	168		1720
21W	+1	172		1760
20W	+1	173		1770
19W	+1	170		1740
18	+1	168		1720
17		166		1700
16		160		1640
15		158		1620
14		156		1600
13		151		1550
12		145		1490
11		140		1440
10		139		1430
9		140		1440
8		136		1400
7		134		1380
6		134		1380
5		133		1370
4		135		1390
3		134		1380
2		135		1390
1		136		1400
0+00		132		1360
1E		134		1380
2E		133		1370
3E		131		1350

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LINE 8 EAST

3-3-66

16

STA	RNG	READING		
AE	+1	130	+4	1340
5E	+1	131		1350
6E	+1	130		1340
7	+1	131		1350
8	+1	131		1350
9	+1	129		1330
10	+1	132		1360
11	+1	129		1330
12	+1	130		1340
13	+1	131		1350
14		130		1340
15		130		1340
16		129		1330
17		131		1350
18		129		1340
19		129		1340
20		124		1280
21		123		1270
22		124		1280
23		122		1260
24		126		1300
25		124		1280
26		124		1280
27		124		1280
28		124		1280
29		125		1290
30		123		1270
31		124		1280
32		124		1280
33		122		1260
34		124		1280

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LEFAX, PHILADELPHIA, 7 PA.

Line #8 EAST

3-3-66
(17)

STA	RANGE	READING	
35	+1	120	1240
36	+1	119	1230
37	+1	121	1250
38	+1	120	1240
39	+1	119	1230
40	+1	118	1220
41		117	1210
42		118	1220
43		118	1220
44		119	1230
45		119	1230
46		121	1240
47		119	1230
48		119	1230
49		117	1210
50		119	1230
51		121	1250
52		121	1250
53		119	1240
54		109	1140
55		116	1200
56		118	1220
57		119	1230
58		117	1210
59		119	1230
60		115	1190
61		114	1180
62		112	1160
63		112	1160
64		112	1160
65		113	1170
66	↓	115	1190

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LINE #8 EAST

3-3-66

(18)

STA. RANGE READING

STA.	RANGE	READING	
67E	+1	112	1160
68E	+1	113	1170
69	+1	116	1200
70	+1	113	1170
71	+1	111	1150
72	+1	116	1200
73	+1	114	1180
74	+1	112	1160
75	+1	114	1180
76	+1	115	1190
77	+1	111	1150
78		112	1160
79		113	1170

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LINE #6 WEST

3-4-66

(22)

STA.	RANGE	READING	
16	+1	163	1670
17	+1	163	1670
18	+1	164	1680
19	+1	167	1710
20	+1	168	1720
21	+1	168	1720
22	+1	167	1710
23	+1	168	1720
24	+1	168	1720
25	+1	169	1730
26		168	1720

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LINE #6 EAST

3-3-66

(19)

STA	RANGE	READING		
78	+1	113	+4	1170
77	+1	116		1200
76	+1	116		1200
75	+1	115		1190
74	+1	117		1210
73	+1	118		1220
72	|	119		1230
71	|	118		1220
70	|	119		1230
69	|	117		1210
68	|	116		1200
67	|	115		1190
66	|	114		1180
65	|	114		1180
64	|	125		1290
63	|	119		1230
62	|	126		1300
61	|	123		1270
60	|	125		1290
59	|	126		1300
58	|	124		1280
57	|	126		1300
56	|	127		1310
55	|	124		1280
54	|	131		1350
53	|	128		1320
52	|	125		1290
51	|	129		1340
50	|	128		1320
49	|	125		1290
48	|	125		1290
47	V	124		1280

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Line # 6 EAST

J-3-66
(20)

STA. RANGE READING

STA.	RANGE	READING	
46	+1	124	1280
45	+1	127	1310
44	+1	125	1290
43	+1	127	1310
42	+1	128	1320
41	+1	129	1330
40	+1	132	1360
39	+1	130	1340
38	+1	133	1370
37	+1	134	1380
36	+1	136	1400
35	+1	134	1380
34	+1	132	1360
33	+1	131	1350
32	+1	132	1360
31		133	1370
30		134	1380
29		134	1380
28		132	1360
27		135	1390 1320
26		137 138	BASE 120 3J-66
25		139	BASE 120 3-4-66
24		139	1430 1430
23		140	1440
22		139	1430
21		142	1460
20		142	1460
19		139	1430
18		139	1430
17		141	1450
16		143	1470

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Line # 6 East

3-4-66
(21)

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Sta.	Range	Reading		
15	+1	138		1420
14	+1	136	·	1400
13	+1	139		1430
12	+1	144		1480
11	+1	142		1460
10	+1	144		1480
9		143		1470
8		146	·	1500
7		144		1480
6		148		1520
5		147		1510
4		149		1530
3		150		1540
2		151	·	1550
1		150		1540
0		150	·	1540 — 1550
1W		151		WEST
1.		152		1560
3.		155		1590
4.		155		1590
5.		160	·	1640
6.		160		1640
7.		162		1660
8.		160		1640
9.		160		1640
10.		161		1650
11.		164		1680
12.		164	·	1680
13.		161		1650
14.		164		1680
15.		164		1680

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LINE #5 WEST

3-4-66

(23)

STA.	RANGE	READING		
26	+1	151	+4	1550
25	+1	150		1540
24	+1	150		1540
23	+1	151		1550
22	+1	152		1560
21	+1	151		1550
20	+1	150		1540
19		149		1530
18		149		1530
17		148		1520
16		145		1490
15		142		1460
14		146		1500
13		147		1510
12		149		1530
11		144		1480
10		146		1500
9		144		1480
8		144		1480
7		146		1500
6		143		1470
5		145		1490
4		146		1500
3		144		1480
2		139		1430
1		142		1460
0		140		1440
1		140	EAST	1440
2		139		1430
3		139		1430
4	↓	140		1440

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Line # 5 East

3-4-66
(24)

STA	Range	Reading	
5	+1	142	1460
6	+1	140	1440
7	+1	140	1440
8	+1	139	1430
9	+1	139	1430
10	+1	138	1420
11	+1	140	1440
12	+1	139	1430
13	+1	141	1450
14	+1	140	1440
15	+1	141	1450
16		140	1440
17		139	1430
18		139	1430
19		141	1450
20		138	1420
21		135	1390
22		136	1400
23		135	1390
24		132	1360
25		134	1380
26		133	1370
27		132	1360
28		133	1370
29		136	1400
30		134	1380
31		136	1400
32		134	1380
33		132	1360
34		134	1380
35		131	1350

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LINE #5 EAST

3-4-66
(25)

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STA.	RANGE	READING	
36	+1	131	1350
37	+1	128	1320
38	+1	124	1280
39	+1	124	1280
40	+1	129	1330
41	+1	127	1310
42	+1	125	1290
43		124	1280
44		126	1300
45		125	1290
46		124	1280
47		127	1310
48		123	1270
49		123	1270
50		124	1280
51		122	1260
52		117	1210
53		117	1210
54		119	1230
55		119	1230
56		119	1230
57		117	1210
58		118	1220
59		117	1210
60		118	1220
61		116	1200
62		119	1230
63		121	1250
64		122	1260
65		119	1230
66	V	119	1230

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LINE # 5 EAST

3-4-66
(28)

STA.	RANGE	Reading	
67	+1	120	1240
68	+1	121	1250
69	+1	119	1230
70	+1	118	1220
71	+1	117	1210
72	+1	119	1230
73	+1	118	1220
74	+1	117	1210
75	+1	117	1210
76	+1	119	1230
77	+1	117	1210
78	+1	117	1210
79	+1	117	1210

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LINE # 4 WEST

3-4-66
(30)

STA.	Range	Reading	
15	+1	142	1460
16	+1	137	1410
17	+1	136	1400
18	+1	136	1400
19	+1	135	1390
20	+1	136	1400
21	+1	134	1380
22	+1	133	1370
23	+1	133	1370
24	+1	136	1400
25	+1	137	1410
26	+1	136	1400

Base 120

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Check location of
Line 5
with 1/4 Corner 10/11

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LINE #4 EAST

3-4-66

(27)

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STA.	Range	Reading	
78	+1	118	1220
77	+1	119	1230
76	+1	120	1240
75	+1	120	1240
74	+1	119	1230
73	+1	119	1230
72	+1	121	1250
71	+1	120	1240
70		120	1240
69		122	1260
68		122	1260
67		119	1230
66		122	1260
65		121	1250
64		123	1270
63		120	1240
62		120	1240
61		119	1230
60		119	1230
59		122	1260
58		120	1240
57		119	1230
56		118	1220
55		118	1220
54		118	1220
53		119	1230
52		119	1230
51		118	1220
50		119	1230
49		120	1240
48		121	1250

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Line #4 EAST

3-466
(28)

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STA	Range	Reading	
47	+1	121	1250
46	+1	123	1270
45	+1	120	1240
44	+1	124	1280
43	+1	124	1280
42		121	1250
41		124	1280
40		124	1280
39		125	1290
38		125	1290
37		125	1290
36		125	1290
35		126	1300
34		124	1280
33		125	1290
32		124	1280
31		126	1300
30		126	1300
29		124	1280
28		125	1290
27		127	1310
26		125	1290
25		129	1330
24		129	1330
23		126	1300
22		130	1340
21		129	1330
20		131	1350
19		131	1350
18		132	1360
17		137	1410

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Line # 4 East

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(29)

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Sta.	Range	Reading	
16	+1	145	1490
15	+1	134	1380
14	+1	136	1400
13	+1	135	1390
12	+1	141	1450
11	+1	133	1370
10	+1	136	1400
9		135	1390
8		134	1380
7		134	1380
6		136	1400
5		135	1390
4		133	1370
3		135	1390
2		136	1400
1		136	1400
0		136	1400
1 W		137	1410
2 W		135	1390
3		134	1380
4		138	1420
5		142	1460
6		125	1290
7		134	1380
8		136	1400
9		136	1400
10		137	1410
11		136	1400
12		140	1440
13		140	1440
14		136	1400

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31

LINE #3 WEST

STA	RNG	READING	
		124	BASE
26W	+1	137	±0
25W	+1	141	
24	+1	139	
23	+1	136	
22	+1	138	
21	+1	139	
20	+1	137	
19	+1	138	
18	+1	138	
17		138	
16		138	
15		136	
14		137	
13		137	
12		139	
11		136	
10		136	
9		138	
8		137	
7		138	
6		134	
5		144	
4		135	
3		175	
2		136	
1		84	
0		133	
1		142	E
2	↓	140	E

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LINE #3 EAST

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(32)

STA. RANGE READING

STA.	RANGE	READING
3	+1	138
4	+1	140
5	+1	141
6	+1	153
7	+1	151
8	+1	154
9	+1	134
10		151
11		143
12		144
13		135
14		132
15		134
16		131
17		133
18		126
19		127
20		130
21		130
22		128
23		126
24		128
25		127
26		122
27		125
28		127
29		123

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LINE # 3 EAST

3-7-66

(33)

STA.	RANGE	READING
30	+1	124
31	+1	125
32	+1	125
33	+1	124
34	+1	125
35	+1	123
36	+1	124
37	+1	124
38	+1	125
39	+1	123
40		121
41		122
42		119
43		118
44		117
45		117
46		117
47		118
48		116
49		117
50		116
51		116
52		116
53		117
54		115
55		117
56		118
57		119
58		117
59		118
60		121

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LINE # 3 EAST

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(34)

STA.	RANGE	Reading
61	+1	120
62	+1	119
63	+1	118
64	+1	116
65	+1	116
66	+1	115
67	+1	116
68	+1	116
69	+1	115
70		117
71		119
72		121
73		119
74		119
75		119
76		119
77		117
78		118
79		117

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LINE #2 EAST

3-7-66

(34)

STA.	RANGE	READING
79E	+1	119
78E	+1	119
77	+1	120
76	+1	122
75	+1	124
74	+1	123
73		123
72		124
71		122
70		123
69		119
68		119
67		118
66		121
65		121
64		124
63		131
62		131
61		131
60		132
59		129
58		130
57		128
56		129
55		131
54		125
53		131
52		126
51		124
50		121

15 ft. S of Sec. Co

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Line #2 EAST

3-7-66

(35)

STA.	RANGE	READING
49	+1	121
48	+1	121
47	+1	119
46	+1	119
45		118
44		120
43		122
42		118
41		119
40		120
39		120
38		121
37		123
36		122
35		121
34		122
33		124
32		124
31		125
30		126
29		128
28		123
27		111
26		123
25		124
24		129
23		131
22		130
21		129
20	V	127

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Line # 2 East

3-7-66

(36)

STA.	Range	Reading
19	+1	124
18	+1	124
17	+1	131
16	+1	125
15	+1	134
14		140
13		133
12		146
11		133
10		136
9		176
8		148
7		142
6		118
5		141
4		153
3		150
2		144
1		138
0		140
1W		141
2W		143
3W		125
4		130
5		130
6		131
7		131
8		134
9		137
10		135

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Line #2 WEST

3-7-66

(37)

STA.	RANGE	Reading
11	+1	126
12	+1	124
13	+1	137
14	+1	134
15	+1	131
16	+1	123
17		129
18		126
19		131
20		130
21		127
22		125
23		129
24		125
25		131
26		124
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		

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LINE #1 West+

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(38)

STA	Range	Read
27W	+1	126
26W		125
25		125
24		126
23		125
22		129
21		127
20		124
19		131
18		176
17		143
16		122
15		124
14		125
13		134
12		131
11		125
10		136
9		131
8		147
7		129
6		136
5		134
4		141
3		135
2		154
1		141
0+00		125

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LINE #1 EAST

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STA	RNG	READ	
1 E	+1	134	-1
2 E		136	
3 E		150	
4		129	
5		138	
6		137	
7		127	
8		149	
9		138	
10		118	
11		137	
12		126	
13		130	
14		131	
15		131	
16		132	
17		125	
18		130	
19		126	
20		124	
21		126	
22		132	
23		134	
24		133	
25		133	
26		124	
27		124	
28		122	
29		118	

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE #1 East

3-7-66

40

Sta	Rng	Read	
30	+1	121	-1
31	+1	120	
32	+1	121	
33	+1	111	
34	+1	111	
35	+1	114	
36	+1	113	
37	+1	116	
38		114	
39		117	
40		116	
41		113	
42		116	
43		116	
44		116	
45		116	
46		115	
47		113	
48		111	
49		111	
50		108	
51		106	
52		105	
53		109	
54		112	
55		111	
56		108	
57		107	
58		107	

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Line # 1 EAST

(41)

STA.	Range	Reading	
59	+1	111	-1
60	+1	109	
61	+1	108	
62	+1	108	
63	+1	109	
64	+1	111	
65	+1	110	
66	+1	111	
67		110	
68		112	
69		111	
70		111	
71		109	
72		106	
73		125	Base
74			
75			
76			
77			
78			

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LINE #11 EAST

3-8-66

(42)

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STA.	Range	Reading	
Base	+1	125	
26	+1	124	-1
25	+1	122	
24	+1	120	
23	+1	119	
22	+1	118	
21	+1	119	
20	+1	119	
19	+1	119	
18		120	
17		118	
16		118	
15		118	
14		117	
13		117	
12		115	
11		113	
10		113	
9		113	
8		111	
7		108	
6		110	
5		104	
4		106	
3		103	
2		102	
1		101	
0		94	
1 W		96	
2 W		93	

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Line #11 WEST

3-8-66

43

TR.MK. REG. U.S. PAT. OFF.

STA.	Range	Reading	±D	
3	+1	94		940
4	+1	89		890
5	+1	89		890
6	+1	86		860
7	+1	84		840
8	+1	83		830
9		83		830
10		79		790
11		76		760
12		74		740
13		76		760
14		76		760
15		76		760
16		72	+1	730
17		71		720
18		72		730
19		73		740
20		77		780
21		83		840
22		84		850
23		81		820
24		80		810
25		81		820
26		79		800
27		78		790
28		79		800
29		77		780
30		76		770
31		79		800
32		79		800

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Line #11 West

3-8-66

44

STA.	Range	Reading		
33	+1	79	+2	810
34	+1	79		810
35	+1	78		800
36	+1	77		790
37	+1	78		800
38	+1	74		760
39		72		740
40		71		730
41		74		760
42		74		760
43		71		730
44		73		750
45		73		750
46		78		800
47		78		800
48		79		810
49		77		790
50		78		800
51		74		760
52		79		810
53		77		790
54		79		810
55		79		810
56		79		810
57		83		850
58		85		870
59		76		790
60		63		750
61		68		710
62		67		700
63	↓	66		690

LINE # 11 WEST

3-8-66

45

STA.	RANGE	Reading	A	
64	+1	71		750
65	+1	63		670
66	+1	46		500
67	+1	46		500
68	+1	46		500
69	+1	48		520
70	+1	44		480
71		38		420
72		37		410
73		38		420
74		36		400
75		31		350
76		64		680
77		54		580
78		67		710
79		56		600

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LINE #12 WEST

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46

STA	Range	Reading		
79	+1	74	+4	780
78	+1	70		740
77	+1	76		800
76	+1	75		790
75	+1	74		780
74	+1	79		830
73		89		930
72		72		760
71		68		720
70		71		750
69		74		780
68		74		780
67		68		720
66		66		700
65		56		600
64		77		810
63		58		620
62		52		560
61		54		580
60		51		550
59		55		590
58		55		590
57		56		600
56		54		580
55		48		520
54		45		500
53		47		510
52		51		550
51		59		630
50		56		600

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Line #12 West

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47

STA.	Range	Read.			
49	+1	53	+5	580	
48	+1	53		580	
47	+1	55		600	
46	+1	55		600	
45	+1	56		610	
44	+1	50		550	
43	+1	47		520	
42		49		540	
41		48		530	
40		49		540	
39		49		540	
38		49		540	
37		50		550	
36		52		570	
35		57		620	
34		54		590	
33		56		610	
32		58		630	
31		57		620	
30		59		640	
29		58		630	Base 119
28		63		680	
27		61		660	
26		62		670	
25		64		690	
24		64		690	
23		65		700	
22		66		710	
21		71		760	
20		71		760	
19		72		770	

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LINE F12 WEST

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48

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STA.	RGE.	Rem d.		
18	+1	71	+6	770
17	+1	70		760
16	+1	70		760
15	+1	71		770
14	+1	75		810
13	+1	74		800
12	+1	72		780
11		69		750
10		76		820
9		77		830
8		75		810
7		76		820
6		78		840
5		81		870
4		81		870
3		82		880
2		81		870
1		83		890
0		86		920
1 E		76		820
2 E		87		930
3 E		87		930
4		88		940
5		89		950
6		89		950
7		95		1010
8		95		1010
9		97		1030
10		99		1050
11		101		1070
12		101		1070

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LINE #12 EAST 3-8-66

49

STA.	RGE.	Read.		
13	+1	101	+6	1070
14	+1	103		1090
15	+1	102		1080
16	+1	104		1100
17	+1	104		1100
18		104		1100
19		104		1100
20		107		1130
21		107		1130
22		105		1110
23		108		1140
24		110		1160
25		109	+6	1150
26		109		1150

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LINE #13 EAST

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(50)

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STA.	RANGE	READING		
26	+1	107	+7	1140
25	+1	104		1110
24	+1	106		1130
23	+1	106		1130
22	+1	105		1120
21	+1	104		1110
20	+1	104		1110
19		103		1100
18		104		1110
17		101		1080
16		99		1060
15		101		1080
14		99		1060
13		98		1050
12		95		1020
11		94		1010
10		96		1030
9		94		1010
8		94		1010
7		91		980
6		92		990
5		91		980
4		89		960
3		89		960
2		86		930
1		87		940
0		85		920
1		82		890
2		84		910
3		81		880

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE # 13 WEST

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(51)

(+8)

STA	RANGE	READING		
4	+1	81	890	
5	+1	83	910	
6	+1	80	880	
7	+1	79	870	Big WASH
8	+1	75	830	"
9	+1	78	860	"
10		74		820
11		75		830
12		73		810
13		74		820
14		76		840
15		76		840
16		76		840
17		76		840
18		77		850
19		75		830
20		74		820
21		73		810
22		74		820
23		69		770
24		69		770
25		74		820
26		71		790
27		70		780
28		68		760
29		69		770
30		68		760
31		64		720
32		106		1140
33		64		720

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LINE # 13 WEST

(52)

TRADE MK. REG. U.S. PAT. OFF.

STA.	RANGE	READING		
34	+1	66	+9	750
35	+1	64		730
36	+1	64		730
37	+1	63		720
38	+1	64		730
39	+1	64		730
40		63		720
41		59		680
42		63		720
43		66		750
44		64		730
45		61		700
46		63		720
47		61		700
48		62		710
49		66		750
50		61		700
51		66		750
52		60		690
53		64		730
54		64		730
55		64		730
56		61		700
57		61		700
58		62		710
59		64		730
60		67		760
61		67		760
62		68		770
63		68		770
64		68		770

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LINE # 13 WEST

38-66

(53)

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STA	RANGE	Reading		
65	+1	69	+10	790
66	+1	68		780
67	+1	74		840
68	+1	84		940
69	+1	79		890
70	+1	81		910
71		80		900
72		81		910
73		79		890
74		81		910
75		81		910
76		80		900
77		81		910
78		87		970
79		90		1000

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LINE #14 WEST

3-8-66

(54)

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STA.	RANGE	Reading		
79	+1	90	+ 11	1010
78	+1	91		1020
77	+1	89		1000
76	+1	89		1000
75	+1	91		1020
74	+1	89		1000
73		85		960
72		86		970
71		85		960
70		86		970
69		80		910
68		82		930
67		78		890
66		77		880
65		76		870
64		74		850
63		72		830
62		74		850
61		71		820
60		70		810
59		71		820
58		69		800
57		69		800
56		69		800
55		71		820
54		72		830
53		74		850
52		72		830
51		71		820
50		71		820

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LINE #14 WEST

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(55)

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STA.	RANGE	Reading		
49	+1	71		830
48	+1	73		850
47	+1	69		810
46	+1	68		800
45	+1	71		830
44	+1	69		810
43	+1	69		810
42	+1	69		810
41	+1	70		820
40		69		810
39		73		850
38		68		800
37		72		840
36		70	820	
35		71	830	
34		72	840	
33		70	820	
32		71	830	
31		71	830	
30		69	810	
29		70	820	
28		70	820	
27		72	840	
26		68	BASE 112	3-8-66
25		86	← BASE 124	3-9-66
24		84	±0	
23		82		
22		84		
21		81		
20		84		

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Line #14 West

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(56)

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STA.	Range	Read.	±0
19	+1	85	
18	+1	83	
17	+1	83	
16	+1	87	
15	+1	86	
14	+1	88	
13	+1	88	
12	+1	87	
11	+1	86	
10		87	
9		89	
8		89	
7		88	
6		91	
5		89	
4		89	
3		94	
2		94	
1		94	
0		94	+1
1 E		95	
2 E		96	
3 E		98	
4		99	
5		99	
6		98	
7		99	
8		102	
9		103	
10		106	

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LINE #14 EAST

3-9-66

(57)

TR. MK. REG. U.S. PAT. OFF.

STA.	RANGE	READING	
11	+1	104	+1
12	+1	104	
13	+1	106	
14		106	
15		106	
16		108	
17		108	
18		111	
19		110	
20		111	
21		110	
22		111	
23		112	
24		113	
25		112	
26		110	

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LINE #15 EAST

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58

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STA.	Range	Reading	+2
26	+1	112	
25	+1	110	
24	+1	108	
23	+1	107	
22	+1	106	
21		105	
20		106	
19		104	
18		103	
17		103	
16		105	
15		103	
14		102	
13		102	
12		101	
11		101	
10		98	
9		98	
8		98	
7		97	
6		99	
5		96	
4		95	
3		94	
2		92	
1		91	
0		91	
1W		91	
2W		93	
3W		92	

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LINE # 15 WEST

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(59)

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STA.	RANGE	READ.	
4	+1	91	+3
5	+1	91	
6	+1	90	
7	+1	88	
8	+1	87	
9	+1	87	
10	+1	86	
11	+1	87	
12		84	
13		86	
14		87	
15		84	
16		83	
17		84	
18		83	
19		83	
20		83	
21		84	
22		83	
23		83	
24		81	
25		80	Big Wash
26		83	
27		81	
28		81	Big Wash
29		84	
30		80	
31		82	
32		80	
33		81	

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Line #15 WEST

3-9-66

(60)

TRMK. REG. U.S. PAT. OFF.

STA.	Range	Reading	
34	+1	83	+4
35	+1	83	
36	+1	84	
37	+1	83	
38	+1	83	
39	+1	82	
40		81	
41		82	
42		81	
43		79	
44		80	
45		81	
46		78	
47		79	
48		80	
49		78	
50		81	
51		80	
52		80	
53		81	
54		83	
55		86	
56		84	
57		84	
58		83	
59		82	
60		82	
61		83	
62		83	
63		84	

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LINE # 15 WEST

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(61)

STA.	Range	Reading	
64	+1	86	+5
65	+1	86	
66	+1	83	
67	+1	85	
68	+1	87	
69		86	
70		86	
71		86	
72		87	
73		86	
74		86	
75		88	
76		88	
77		92	
78		94	
79		93	

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LINE # 16 WEST

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(62)

STA	RANGE	READING	+6	
79	+1	89		95
78	+1	90		96
77	+1	89		95
76	+1	91		97
75	+1	88		94
74		89		95
73		89		95
72		89		95
71		87		93
70		87		93
69		89		95
68		89		95
67		88		94
66		88		94
65		88		94
64		87		93
63		87		93
62		86		92
61		86		92
60		87		93
59		91		97
58		90		96
57		90		96
56		87		93
55		88		94
54		86		92
53		88		94
52		88		94
51		88		94
50		89		95

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LINE # 16 WEST

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(63)

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STA	RANGE	READ		
49	+1	89	+7	96
48	+1	89		96
47	+1	89		96
46	+1	89		96
45	+1	88		95
44	+1	87		94
43		89		96
42		86		93
41		87		94
40		88		96-
39		84		91 Big Wash
38		87		94
37		86		93
36		87		94
35		84		91
34		86		93
33		86		93
32		85		92
31		84		91
30		83		90
29		84		91
28		83		90
27		83		90
26		83		90
25		84		91
24		83		90
23		81		88
22		83		90
21		84		91
20		86		93

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LINE #16 WEST

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STA.	RGE.	READ		
19	+1	86	+8	94
18	+1	84		92
17	+1	86		94
16	+1	86		94
15	+1	86		94
14	+1	84		92
13		84		92
12		86		94
11		89		97
10		89		97
9		89		97
8		89		97
7		89		97
6		87		95
5		84		92
4		86		94
3		87		95
2		86		94
1		88		96
0		90		98
1		89		97
2		88		96
3		89		97
4		90		98
5		90		98
6		89		97
7		92		100
8		94		102
9		91		99
10		94		102

Line # 16 EAST

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(65)

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ORIGINAL CORR. 1910 BY C. PARKER

STA.	RANGE	READ		
11	+1	95	+9	104
12	+1	94		103
13	+1	96		105
14	+1	94		103
15	+1	96		105
16	+1	95		104
17	+1	94		103
18		96		105
19		96		105
20		95		104
21		97		106
22		101		110
23		101		110
24		99		108
25		100		109
26		100		109

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE #17 EAST

3-9-66
(66)

TRADE MK. REG. U.S. PAT. OFF.

ORIGINAL DOCR. 1916 BY C. PARKER

STA.	RANGE	READ.		
26	+1	98	+10	108
25	+1	99		109
24	+1	96		106
23	+1	95		105
22	+1	96		106
21		96		106
20		96		106
19		96		106
18		94		104
17		93		103
16		93		103
15		94		104
14		93		103
13		91		101
12		92		102
11		90		100
10		91		101
9		89		99
8		89		99
7		88		98
6		89		99
5		90		100
4		89		99
3		89		99
2		88		98
1		88		98
0		90		100
1 W		88		98
2 W		90		100
3 W		88		98

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE # 17 WEST

3-9-66
67

STA	Range	Read	+11	
4	+1	87		98
5	+1	89		100
6	+1	89		100
7	+1	86		97
8	+1	84		95
9		86		97
10		85		96
11		86		97
12		84		95
13		84		95
14		84		95
15		86		97
16		81		92
17		84		95
18		81		92
19		83		94
20		84		95
21		81		92
22		83		94
23		84		95
24		83		94
25		85		96
26		84		95
27		86		97
28		81		92
29		85		96
30		85		96
31		86		97
32		86		97
33		84		95

TR. MK. REG. U.S. PAT. OFF.
ORIGINAL CORP. 1918 BY C. PARKER
LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE #17 WEST

3-9-66

(68)

TRADE MK. REG. U.S. PAT. OFF.

ORIGINAL DOPR. 1910 BY W. C. PARKER

STA.	RANGE	Reading	+12	
34	+1	84		96
35	+1	84		96
35	+1	83		95
37	+1	82		94
38	+1	84		96
39		85		97
40		84		96
41		84		96
42		85		97
43		85		97
44		81		93
45		82		94
46		84		96
47		86	98	Big Wash
48		86	98	Big Wash
49		85		97
50		83		95
51		84		96
52		82		94
53		84		96
54		84		96
55		85		97
56		84		96
57		83		95
58		83		95
59		82		94
60		82		94
61		80		92
62		79		91
63		79		91

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE #17 WEST

3-9-66
(69)

TR.MK. REG. U.S. PAT. OFF.

STA.	RANGE	READING		
64	+1	80	+13	93
65	+1	79		92
66		79		92
67		78		91
68		77		90
69		75		88
70		76		89
71		78		91
72		78		91
73		79		92
74		80		93
75		80		93
76		84		97
77		87		100
78		89		102
79		90		BASE 103

124
104

16 | 15
21 | 21

BRASS CAP
1953

ORIGINAL COPR. 1918 BY J. C. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

$n = 2$

$0.6189 \times 3 \sqrt{\frac{3}{2}} = 0.6189$

$n = 4$

$0.62 \times 5 \sqrt{\frac{1}{10}}$

-4

0.78

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WAR DEPARTMENT

ARIZONA
(PIMA COUNTY)

COCORAQUE BUTTE QUADRANGLE
15-MINUTE SERIES

Topography by P. C. Erickson and J. G. Collins
Surveyed in 1940–1941

ROAD CLASSIFICATION 1947

Dependable hard-surface heavy-duty road
Secondary hard-surface all weather road
Dry weather roads
Loose-surface graded
Unsurfaced, graded
Dirt road
U. S. Route 15
State Route 26
More than two lanes indicated along road with tick at point of change 2 LANE | 4 LANE

APPROXIMATE MEAN DECLINATION, 1941
14° TRUE NORTH MAGNETIC NORTH

SCALE 1:62500

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS

Contour interval 25 feet
Datum is mean sea level

Polyconic projection. 1927 North American datum
5000 yard grid based on U. S. zone system, F
10000 foot grid based on Arizona (Central) rectangular coordinate system

COCORAQUE BUTTE, ARIZ.
Edition of 1943
reprinted 1948
N3200—W11115/15

Chapman Wool & Gold
Rx Sample No.

indicates Rock Sample No. 4 location Cor 6 in place

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{24,000}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

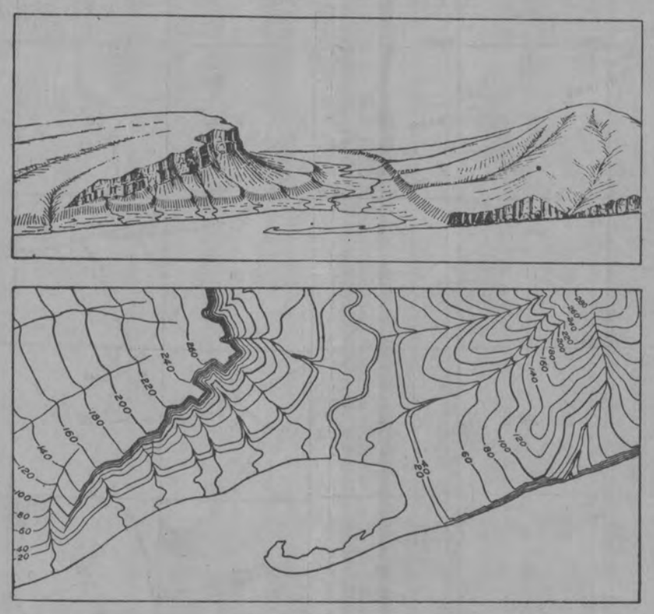
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{80,000}$.

The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

NOTE:—Effective on and after October 1, 1946, the price of standard topographic quadrangle maps will be 20 cents each, with a discount of 20 percent on orders amounting to $10 or more at the retail rate.

STANDARD SYMBOLS

CULTURE
(printed in black)

City or village
Roads and buildings
Ruins
Cliff dwelling
Good Public road
Poor Public or private road
Trail
Railroads
Electric railroad
Tunnel
Power-transmission line
Wharves
Breakwater and jetties
Bridge
Drawbridges
Ferry *(point upstream)*
Ford
Dam
Dam with lock
Canal lock *(point upstream)*
U.S. township and section lines and recovered corners
State line
County line
Civil Township or district line
Reservation line
Land grant line
City, village, or borough line
Small park or cemetery line
Triangulation point or transit traverse station
U.S. mineral monument
Boundary monument
Bench mark *(supplementary bench mark shown by cross and black figures without lettering)*
Cemeteries
Church, School *(distinguished on recent maps)*
Coke ovens
Tanks and oil reservoirs
Oil and gas wells
Mine or quarry
Prospect
Shaft
Mine tunnel
Mine tunnel *(showing direction)*
Lighthouse or beacon
Coast Guard station

RELIEF
(printed in brown)

Elevation above mean sea level *(in black on recent maps)*
Contours *(Contours showing depth of water printed in blue)*
Depression contours
Levee
Wash
Cliffs *(or shown by contours)*
Mine dumps
Tailings or mining debris
Sand and sand dunes

WATER
(printed in blue)

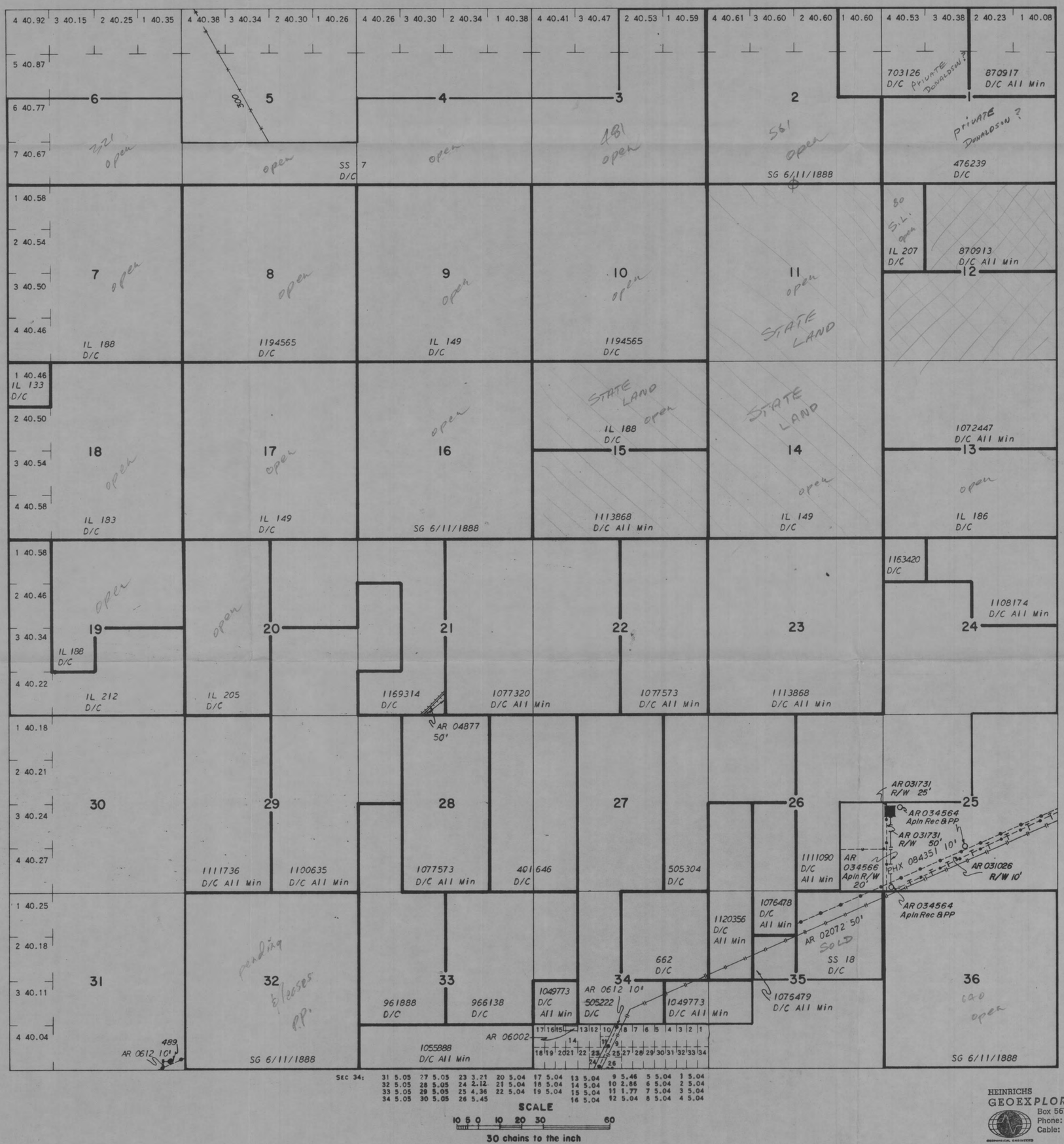
Streams
Falls and rapids
Intermittent streams and ditches
Canals or ditches
Aqueducts or waterpipes
Aqueduct tunnels
Lake or pond
Unsurveyed stream and abandoned canal
Intermittent lake
Glacier *(Or shown by contours printed in blue)*
Spring Well
Marsh
Submerged marsh

WOODS
(when shown, printed in green)

TOWNSHIP 15 SOUTH RANGE 10 EAST OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

STATUS OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

PIMA COUNTY



INDEX TO SEGREGATED TRACTS				
RESURVEY	ORIGINAL SURVEY			
TRACT NO	T	R	SEC	SUBDIVISION

FEB 1966 GEOEX

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS.

ALL TP UNDER CONSIDERATION FOR ST. CL. 9-24-1959

CURRENT TO	BY

1966 FEB 13 AM 8 25

BUREAU OF LAND MANAGEMENT
PHOENIX, ARIZONA
COPY ISSUED

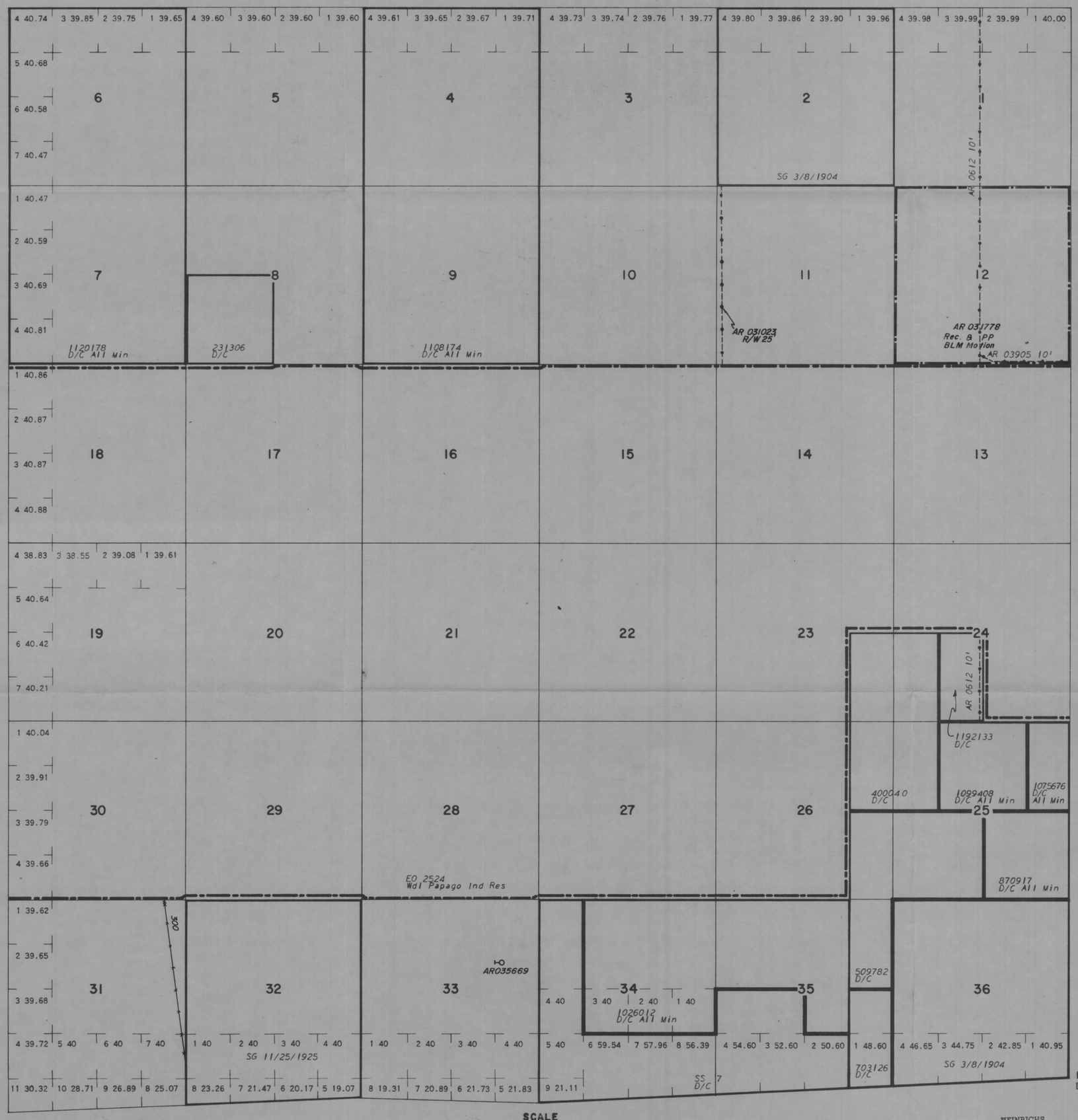
T. 15S
R. 10E

HEINRICHS
GEOEXPLORATION CO.
Box 5671 Tucson, Arizona 85703
Phone: (602) 623-0578
Cable: GEOEX

T15S R10E

TOWNSHIP 14 SOUTH RANGE 10 EAST OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

PIMA COUNTY



SCALE

10 5 0 10 20 30 60

30 chains to the inch

Lat. 32°10'25" N
Long. 111°16'15" W

HEINRICHS
GEOEXPLORATION CO.
Box 5671 Tucson, Arizona 85703
Phone: (602) 623-0573
Cable: GEOEX

STATUS OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

INDEX TO SEGREGATED TRACTS				
RESURVEY	ORIGINAL SURVEY			
TRACT NO	T	R	SEC	SUBDIVISION

FEB 1966 GEOEX

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS.

CURRENT TO	BY

1966 FEB 18 AM 8 25

BUREAU OF LAND MANAGEMENT
PHOENIX, ARIZONA
COPY ISSUED BY

T. 14S.
R. 10E.

CHAPMAN, WOOD AND GRISWOLD
MINING ENGINEERS AND GEOLOGISTS
110 YALE BLVD. S.E.
ALBUQUERQUE, NEW MEXICO 87106

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE:
OFFICE 242-3095
RESIDENCE 255-2267

April 20, 1966

negotiate ... renewal ... April

APR 1966
GEOEX

Mr. Grover Heinrichs
Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Dear Grover:

In accordance with your request concerning the reinstatement of the San Pedro-Lazarus Gulch properties, the following estimate is submitted:

CW&G services in negotiating	$ 2,500.
Legal services	1,000.
Property payments	2,500.
Assessment work, unpatented mining claims	2,800.
	$ 8,800.
Contingency	3,200.
	$12,000.

The San Pedro property is now under lease to another party, but I believe it will become available to us within six months.

It is proposed that the options to purchase be taken in the name of Technesonics, Inc., hopefully for a period of one year at a payment of $500 to each property owner plus agreeing to do the assessment work. The purchase price will have to be negotiated with each individual owner, somewhat along the lines of the previous agreements held by Helicon Explorations Limited.

A 50% interest would be earned by you and your client when the sum of $200,000 had been spent. This sum would match the money spent to date by Earlcrest Resources Ltd. and Helicon Explorations Ltd. Earlcrest Resources has relinquished all rights to these properties.

Your comments on this proposal would be appreciated.

Very truly yours,

CHAPMAN, WOOD AND GRISWOLD

G. R. Griswold

cc: Helicon Explorations Ltd., Vancouver

CHAPMAN, WOOD AND GRISWOLD
MINING ENGINEERS AND GEOLOGISTS
110 YALE BLVD. S.E.
ALBUQUERQUE, NEW MEXICO 87106

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE:
OFFICE 242-3095
RESIDENCE 255-2267

April 27, 1966

Heinrichs Geoexploration Company
P.O. Box 5671
Tucson, Arizona 85703

Gentlemen:

Re: Billing #3, Technesonics Project, Pima Co.

Our client has questioned the $200.00 charge under Office: Drafting, compilation - 2 days @$10.00/d. Should this be at rate of $100.00 per day or is the extension incorrect? It is pointed out that on Billing #2 drafting is charged at the rate of $5.00 per hour.

Would you kindly clarify this matter for us?

Thank you.

Very truly yours,

CHAPMAN, WOOD AND GRISWOLD

Dorotha L. Robertson

Dorotha L. Robertson

CHAPMAN, WOOD AND GRISWOLD
MINING ENGINEERS AND GEOLOGISTS
110 YALE BLVD. S.E.
ALBUQUERQUE, NEW MEXICO

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE:
OFFICE 242-3095
RES. PHONE 255-2267

3-25-66

Dear Grover:

Please file application for prospecting permits on the following State Lands in T. 15 S., R. 10 E.

Section 2	All except E½, NE¼	Total	561.81 Acres
Section 3	All except NW¼	Total	481.12 Acres
Section 10	All	Total	640 Acres.

If at all possible please file immediately by telephone or by written application so it will be there Monday. $45.00

Sincerely,

Gil

P.M.
Individual
41
4 NO
5 NO
6 YES
7 NO
9 Co

[illegible]

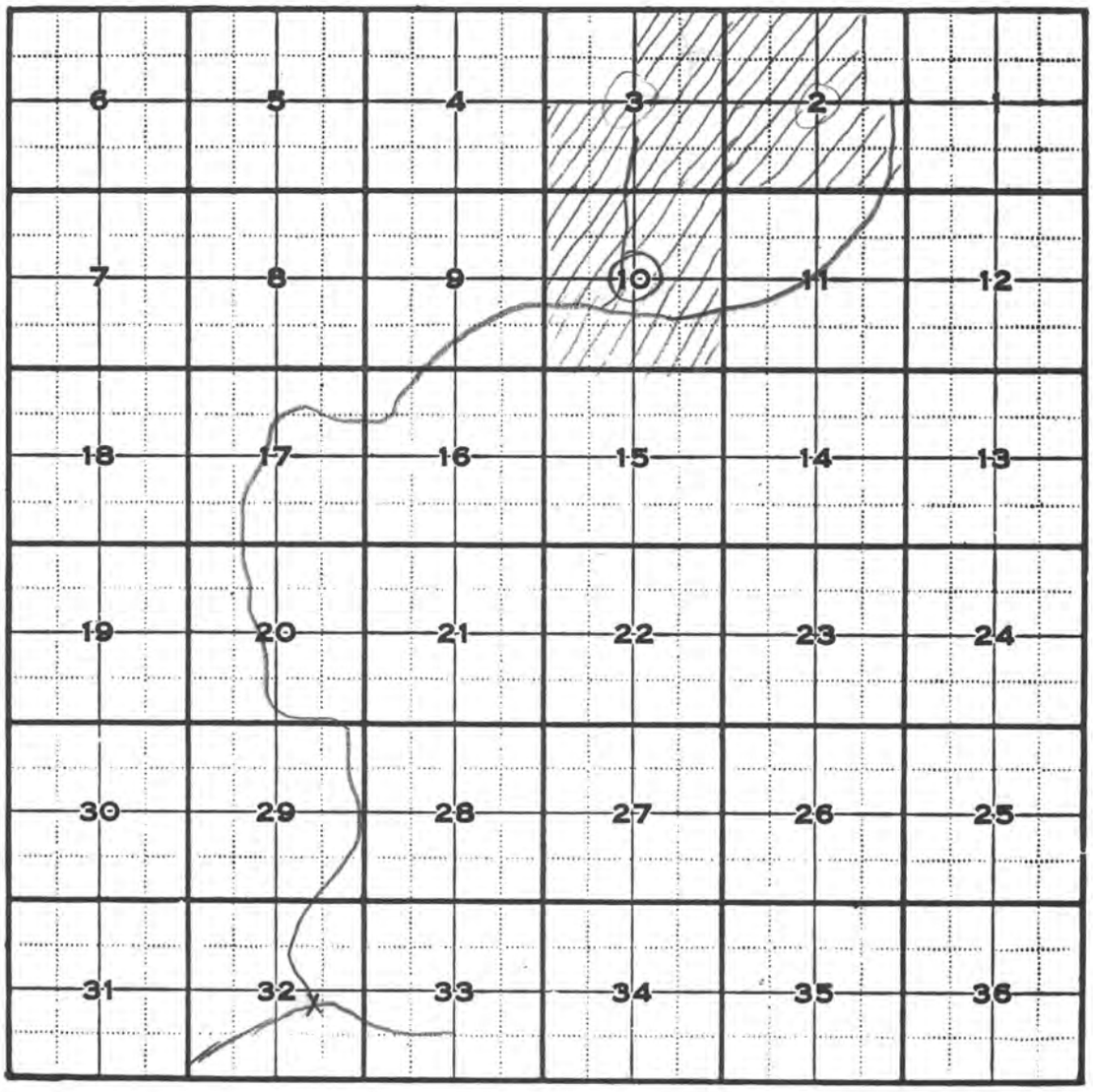
STATE LAND DEPARTMENT
STATE OF ARIZONA

Sec. 2 all except E 1/2 NE 1/4
Sec. 3 all except NW 1/4
Sec 10 all

▨ – indicates area of lease application & or permit

~~~ indicates ROAD ingress & egress

Township No. 15 S. **Range No.** 10 E.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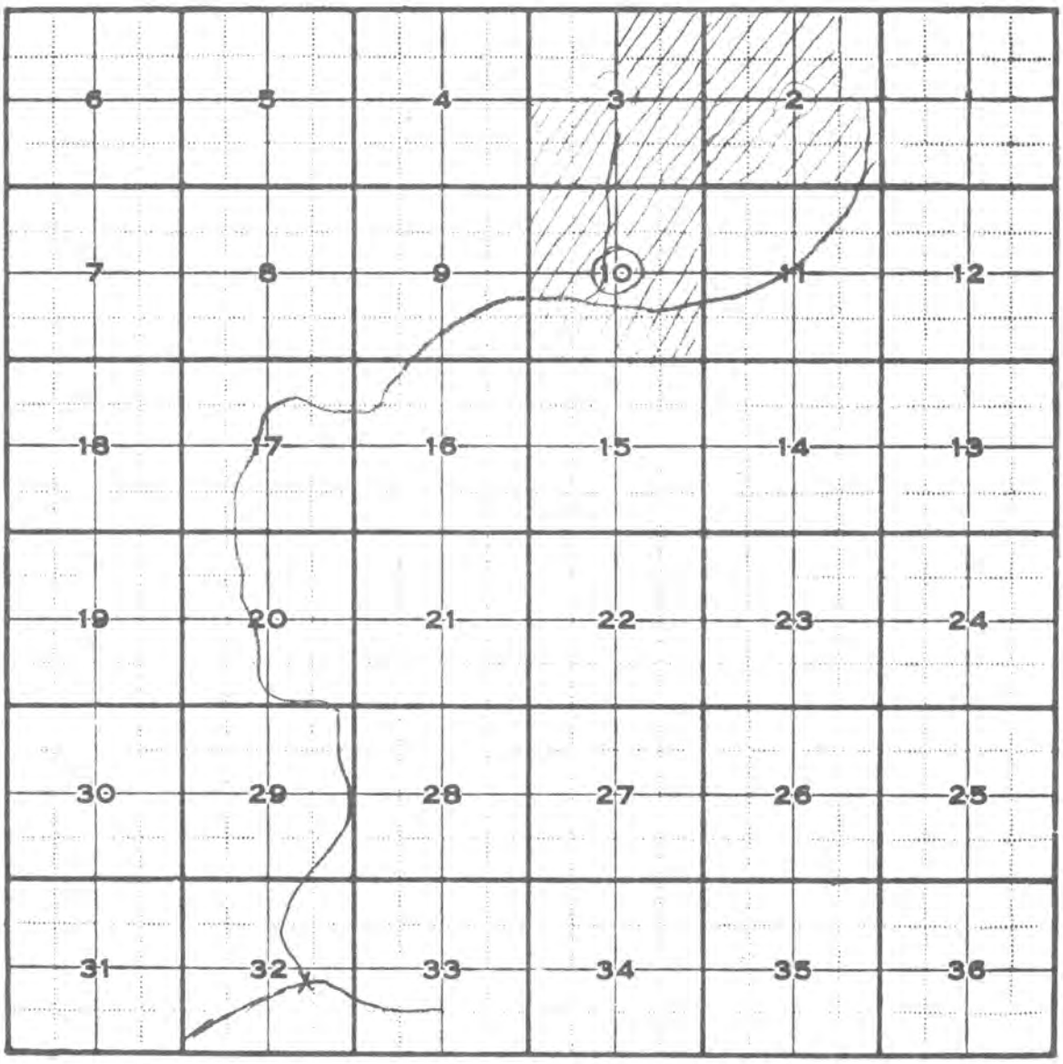
STATE LAND DEPARTMENT
STATE OF ARIZONA

Sec. 2 all except E 1/2 NE 1/4
Sec. 3 all except NW 1/4
Sec 10 all

▨ – indicates area of lease application & or permit

~~~ indicates ROAD ingress & egress

Township No. 15 S. Range No. 10 E.



FORM 990
~~~

P. P. No. _____

INSTRUCTIONS

1. This application must be accompanied by $15.00 filing fee.
2. Application must not cover more than one section.
3. All questions must be answered.
4. Attach scale drawing or plat to show detail for questions 4, 5, 7, 8 and 9.

STATE LAND DEPARTMENT
422 Arizona State Office Building
Phoenix 7, Arizona

APPLICATION FOR MINERAL PROSPECTING PERMIT

The State Land Commissioner:

I/We E. Grover Heinrichs
(Name)
of P. O. Box 5671 Tucson, Arizona 85703
(Address)

do hereby make application for a mineral exploration or prospecting permit on the State lands hereinafter described, in accordance with the provisions of Title 27, Chapter 2, Article 4, Arizona Revised Statutes, such rules and regulations as the Commissioner may prescribe and the terms of the permit.

Subdivision	Section	Township	Range	Acres	County	Grant
	Section 2	15 S	10 E	561.81	Pima	
	except E ½ NE ¼					

1. State whether individual, partnership or corporation Individual
2. If an individual, are you a citizen of the United States? yes
3. Age 41 Married yes Single _____
4. Are there valid mineral locations, claims or leases on this section? no
(describe and locate on attached plat)
5. Are there any abandoned workings on this section? no
(describe and locate on attached plat)
6. Will it be necessary to cross other state lands to reach the land under application? Yes xx No ___
7. Are there improvements or crops on the land described in No. 6 above? no
(describe and locate on attached plat)
8. Are there improvements or crops on the land under application Yes ___ No x

9. Describe proposed routes of ingress and egress to and under application.

From hwy. 86 north through sec. 32, sec. 29, 20, 17 northeasterly through sec. 16, southeasterly through sec. 9 into sec. 10, easterly through sec. 11 entering sec. 2 from the south.

CERTIFICATION:

I/WE hereby certify under penalty of perjury that the information contained and statements herein made are to the best of (my or our) knowledge and belief true, correct and complete.

Dated this 25 day of March, A.D. 1966.

E. Grover Heinrichs
(Applicant)

By _____

Address _____

_____

THE FOLLOWING IS NOT TO BE FILLED IN BY APPLICANT

Fee Received _____ Amount _____ Receipt No. _____

Approved for the period of _____ Beginning _____ Expiring _____

Recorded by _____ Approved or Denied by _____ Date _____

If Denied, Cause: _____

Special provisions to be added to permit _____

_____

_____

5-12-61
2-16

P. P. No. _____

INSTRUCTIONS

1. This application must be accompanied by $15.00 filing fee.
2. Application must not cover more than one section.
3. All questions must be answered.
4. Attach scale drawing or plat to show detail for questions 4, 5, 7, 8 and 9.

STATE LAND DEPARTMENT
422 Arizona State Office Building
Phoenix 7, Arizona

APPLICATION FOR MINERAL PROSPECTING PERMIT

The State Land Commissioner:

I/We E. Grover Heinrichs
(Name)

of P. O. Box 5671 Tucson, Arizona 85703
(Address)

do hereby make application for a mineral exploration or prospecting permit on the State lands hereinafter described, in accordance with the provisions of Title 27, Chapter 2, Article 4, Arizona Revised Statutes, such rules and regulations as the Commissioner may prescribe and the terms of the permit.

Subdivision	Section	Township	Range	Acres	County	Grant
	Section 3	15 S	10 E	481.12	Pima	
	All except NW¼					

1. State whether individual, partnership or corporation a individual
2. If an individual, are you a citizen of the United States? yes
3. Age 41 Married yes Single _____
4. Are there valid mineral locations, claims or leases on this section? no

(describe and locate on attached plat)

5. Are there any abandoned workings on this section? no

(describe and locate on attached plat)

6. Will it be necessary to cross other state lands to reach the land under application? Yes X No ___
7. Are there improvements or crops on the land described in No. 6 above? no

(describe and locate on attached plat)

8. Are there improvements or crops on the land under application Yes ___ No no

9. Describe proposed routes of ingress and egress to land under application.

From hwy. 86 north through sect. 32, sec. 29, 20, 17 northeasterly through sec. 16, southeasterly through sec. 9 into sec. 10, northerly to sec. 3.

CERTIFICATION:

I/WE hereby certify under penalty of perjury that the information contained and statements herein made are to the best of (my or our) knowledge and belief true, correct and complete.

Dated this 25 day of March, A. D. 19 66.

E. Grover Heinrichs
(Applicant)

By _____

Address _____

_____

THE FOLLOWING IS NOT TO BE FILLED IN BY APPLICANT

Fee Received _____ Amount _____ Receipt No. _____

Approved for the period of _____ Beginning _____ Expiring _____

Recorded by _____ Approved or Denied by _____ Date _____

If Denied, Cause: _____

Special provisions to be added to permit _____

_____

_____

5-12-61
2-16

P. P. No. _____

INSTRUCTIONS

1. This application must be accompanied by $15.00 filing fee.
2. Application must not cover more than one section.
3. All questions must be answered.
4. Attach scale drawing or plat to show detail for questions 4, 5, 7, 8 and 9.

STATE LAND DEPARTMENT
422 Arizona State Office Building
Phoenix 7, Arizona

APPLICATION FOR MINERAL PROSPECTING PERMIT

The State Land Commissioner:

I/We E. Grover Heinrichs
(Name)

of P. O. Box 5671 Tucson, Arizona 85703
(Address)

do hereby make application for a mineral exploration or prospecting permit on the State lands hereinafter described, in accordance with the provisions of Title 27, Chapter 2, Article 4, Arizona Revised Statutes, such rules and regulations as the Commissioner may prescribe and the terms of the permit.

Subdivision	Section	Township	Range	Acres	County	Grant
all	Section 10	15 S	10 E	640	Pima	

1. State whether individual, partnership or corporation individual
2. If an individual, are you a citizen of the United States? yes
3. Age 41 Married yes Single _____
4. Are there valid mineral locations, claims or leases on this section? no

(describe and locate on attached plat)

5. Are there any abandoned workings on this section? no

(describe and locate on attached plat)

6. Will it be necessary to cross other state lands to reach the land under application? Yes X No ___
7. Are there improvements or crops on the land described in No. 6 above? No

(describe and locate on attached plat)

8. Are there improvements or crops on the land under application Yes ___ No X

9. Describe proposed r[illegible]es of ingress and egress to [illegible]nd under application.

From hwy. 86 north through section 32 sec. 29, 20, 17, northeastely through sec. 16, southeastelry through sec. 9 into sec. 10.

CERTIFICATION:

I/WE hereby certify under penalty of perjury that the information contained and statements herein made are to the best of (my or our) knowledge and belief true, correct and complete.

Dated this 25 day of March, A. D. 19 66.

E. Grover Heinrichs
(Applicant)

By _____

Address P.O. Box 5671

Tucson, Arizona, 85703

THE FOLLOWING IS NOT TO BE FILLED IN BY APPLICANT

Fee Received _____ Amount _____ Receipt No. _____

Approved for the period of _____ Beginning _____ Expiring _____

Recorded by _____ Approved or Denied by _____ Date _____

If Denied, Cause: _____

Special provisions to be added to permit _____

_____

_____

5-12-61
2-16

CHAPMAN, WOOD AND GRISWOLD
MINING ENGINEERS AND GEOLOGISTS
110 YALE BLVD. S.E.
ALBUQUERQUE, NEW MEXICO 87106

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE:
OFFICE 242-3095
RESIDENCE 255-2267

Technesonics file

March 16, 1966

MAR 1966
GEOEX

Mr. Grover Heinrichs
Heinrichs Geoexploration Company
P.O. Box 5671
Tucson, Arizona

Dear Grover:

Under separate cover we are mailing you a print of the enlargement of the topography in our area of interest in T. 15S., R. 10W., Pima County.

I thought this might be helpful to you even in this form as it will be several days before a tracing is made.

Kindest regards.

Sincerely,

CHAPMAN, WOOD AND GRISWOLD

G.R. Griswold

/dlr

CHAPMAN, WOOD AND GRISWOLD
MINING ENGINEERS AND GEOLOGISTS
110 YALE BLVD. S.E.
ALBUQUERQUE, NEW MEXICO 87106

E. P. CHAPMAN, JR.
JOHN A. WOOD
G. R. GRISWOLD

TELEPHONE:
OFFICE 242-3095
RESIDENCE 255-2267

February 21, 1966

Mr. Grover Heinrichs
Heinrichs Geoexploration Company
P.O. Box 5671
Tucson, Arizona

Dear Grover:

Enclosed find our check for $1,000 for advance expense account re Technesonics project.

The section lines were laid out based on protractor readings obtained from the U.S.G.S. quadrangle sheet. These do not conform with the General Land Office plat and our method of reading angles based on a 1" ray leaves much to be desired.

It is my understanding that you will obtain prospecting permits on the State land which is open and will prepare the necessary claim notices and stake claims on the public domain. All of this is to be done in the name of Heinrichs Geoexploration at our expense and will be assigned at a later date to Mr. Louis H. Goldsmith who in turn will enter into a lease and option to purchase agreement with Technesonics, Inc.

It is my understanding that you are acting as agent for Chapman, Wood and Griswold.

If the foregoing paragraphs meet with your approval, please sign one copy and return it to us.

Very truly yours,

CHAPMAN, WOOD AND GRISWOLD

G. R. Griswold
G. R. Griswold

Approved: _____ for
Heinrichs Geoexploration Company

GRG:dlr

VERTICAL INTENSITY
AND
INDUCED POLARIZATION SURVEY

ROSKRUGE MINING DISTRICT

PIMA COUNTY, ARIZONA

for

CHAPMAN, WOOD, AND GRISWOLD

TECHNESONICS PROJECT

February - April, 1966

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

TABLE OF CONTENTS

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CONCLUSIONS AND RECOMMENDATIONS	2
INTERPRETATION	2
SUSCEPTIBILITY MEASUREMENTS	4

MAP POCKET ((total 5 maps)

- COMPOSITE GEOPHYSICAL PLAN
- SECTIONAL DATA SHEETS
  - Line 1
  - Line 2
- MAGNETIC PROFILES
  - Lines 1 - 9
  - Lines 9 - 17

INTRODUCTION

At the request of Chapman, Wood, and Griswold of Albuquerque, New Mexico, Heinrichs Geoexploration Company conducted and completed a vertical intensity magnetic and induced polarization survey of a part of the Roskruge Mining District, Pima County, Arizona, through the interim of February 16 - April 7, 1966.

The magnetic survey was done with a Jalander vertical intensity magnetometer over Sections 11, 12, 14, and 15 of R10E, T15S, using 100 foot stations on lines spaced 750 feet apart. Five spreads of 1000 foot dipoles were used on two lines in this area to test certain aspects of the magnetic and geologic data obtained.

Twelve rock samples were collected for susceptibility tests to aid in interpretation of the magnetic data.

Prior to beginning any geophysical work, certain land control procedures were followed involving the acquisition of prospecting permits from the State of Arizona and locating 50 claims on Federal land.

A conference was held on April 12, 1966, between Paul Head and John Faick, Geological Consultant for Chapman, Wood, and Griswold, in an attempt to correlate geophysics and known geology.

The claim staking and the magnetic survey were carried out by Dan Anderson. Induced polarization party chief for phase 1 was Fred Johnson, followed by John McLean for phase 2, and assisted by Michael Keohane and Michael Fraker. Susceptibility measurements were done by Phil Mathews. Report, compilation and drafting was by the Geoex staff in Tucson, Arizona, under the supervision of Paul Head, Geophysicist, and Chris S. Ludwig, Senior Geophysicist.

CONCLUSIONS AND RECOMMENDATIONS

Induced polarization has revealed percentage frequency effects in a magnetically interesting area. Although the strength of the anomalism is not great, more work should be done to determine if Line #1 crossed the best part of the anomaly. It is recommended that an additional line be done centered at the southwest corner of Section 11 and bearing North 32° West. This line should be continued as necessary to close off any anomalism found.

It is felt that the structural control of magneticZones I and II would have something to do with possible mineralization in this area. The magnetic lineation BB' seems to be an unimportant control as it crosses outcrop areas with no visible mineralization.

Further work along induced polarization Line #2 is not indicated. It was initially felt that Line #2 had the best chance for good mineralization because it runs from an induced polarization and magnetic anomaly to an iron stained outcrop, but the lack of polarization anomalism indicates very limited quantities of sulfides.

With the possible exception of the weak anomaly near the SW corner of Section 11, it is believed that no large disseminated sulfide zones occur within about 1500 feet of the surface in the vicinity of the I.P. lines.

INTERPRETATION

MAGNETICS

The magnetics have been contoured on 100 gamma intervals, showing several rather strong features. Two very strong East-West lineations, AA' and BB', divide the area into three well defined bands. A weak lineation, CC', trends Northeast-Southwest cutting through the East-West lineation. An alternative to the placement of CC' might be DD', which would tend to support the induced polarization data more satisfactorily.

The high anomaly in Zone II may well be geologically related to the low in Zone I. If they are related, their cause could be a steeply slipping, tabular, polarized body about 400 feet deep. It is quite apparent that whatever causes these anomalies, they have no magnetic relation to the North-South striking lineations of Zone IV. The Zone IV lineations are most likely caused by near surface and outcropping rock. Lineation AA' is classed as very strong because of the length and steepness of the magnetic anomaly and may in fact represent

a structural discontinuity rather than a dike like body. Considerably more data is needed to completely define the origin of the anomalisms of Zones I and II.

Lineation BB' seems to be a structural feature because it cuts off the North-South trends of Zone IV and seems to delineate gradient changes at Zones II and III.

Lineation CC' also seems to be a structural feature, possibly a fault that has dropped the East side and moved it northerly. If this is accepted, then the high on Zone III could be part of the high in Zone II. This northerly movement is not considered likely due to the lack of an analogous low on its southern flank. Zone III seems to be unrelated to any other magnetic feature mapped. The high in Zone III can be accounted for by a moderately susceptible body at about 200 feet.

INDUCED POLARIZATION

The steep gradient between Zones I and II and the anomalous high in Zone III were deemed to be worthy of further geophysical investigation. To determine the possible presence of sulfide mineralization in these places, 1000 foot dipole induced polarization Line 1 was recommended.

A conspicuous iron staining in the area north of the magnetic coverage was reported by the client. Induced polarization Line 2 was recommended to tie the Zone III magnetics to this outcrop showing.

On a line bearing North 58° East through the Southwest corner of Section 11, three spreads of 1000 foot dipole induced polarization were measured. Weak percent Frequency effects were noted in a zone 1000 feet on both sides of the section corner. A fairly well defined resistivity contact at Electrode #1 of Spread B (Station 5 NE) correlates with magnetic gradient change and seems to originate at about the same depth. Also on Line 1, Spread C shows weak polarization effects at Electrode #1 through Electrode #2. Low resistivities cause coupling problems as the anomaly continues northeasterly and polarization effects are poorly defined.

Electrode #5, Spread A of Line 2, was set midway between Electrodes #1 and #2, Spread C of Line 1. Two dipole spreads were set out from this point bearing North 61° West to the iron stains indicated by the client, 8500 feet away. A very weak one station metal factor that appears to originate at surface did occur at the iron stain. No anomalism developed on Spread A of Line 2 to enlarge on the anomaly on Line #1, Spread C, and it is therefore not considered as a significant sulfide indication.

SUSCEPTIBILITY MEASUREMENTS

Following are the results of magnetic susceptibility measurements of twelve rock samples from the Roskruge Area.

Location Number		Susceptibility
1	rhyolite	nil
2	"	nil
3	"	Medium-polarized
4	"	nil
5	"	nil
6	andesite	nil
7	rhyolite breccia	nil
8	" "	nil
9	" "	nil
10	arkose	nil
11	arkose & fine grained (?)	nil
12	basalt or andesite	Weak

Of the above samples only two showed measurable susceptibility and definite polarization indicating remnant magnetization. The area where this sample was obtained is on a magnetic high and adjacent to a strong magnetic gradient. This may indicate a steeply dipping feature. Sample #12 showed weak magnetic susceptibility as would be expected from the rock type.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

Chris S. Ludwig

Chris S. Ludwig
Senior Geophysicist

April 18, 1966

T 14 S

SECTION 34

P.P. ALL EXCEPT NW 1/4
SECTION 3

P.P. ALL EXCEPT E 1/2 OF NE 1/4
SECTION 2

SECTION 1

SECTION 6

R10E

R11E

T 15 S

LINE 1
LINE 2
LINE 3
LINE 4
LINE 5
LINE 6
LINE 7
LINE 8
LINE 9
LINE 10
LINE 11
LINE 12
LINE 13
LINE 14
LINE 15
LINE 16
LINE 17

I.P. LINE 1

I.P. LINE 2

POWER TRANSMISSION LINE

NOT SURVEYED CORNER FOUND IN FIELD

MAGNETIC BASE

P.P. ALL
SECTION 10

P.P. ALL
SECTION 11
STATE LAND

P.P. W 1/2 NW 1/4
SECTION 12

SECTION 15
STATE LAND
P.P. N 1/2

SECTION 14
STATE LAND
P.P. ALL

L-1 L-2 L-3 L-4 L-5 L-6 L-7 L-8 L-9 L-10 L-11 L-12 L-13 L-14 L-15 L-16 L-17 L-18 L-19 L-20 L-21 L-22 L-23 L-24 L-25 L-26 L-27 L-28 L-29 L-30 L-31 L-32 L-33 L-34 L-35 L-36 L-37 L-38 L-39 L-40 L-41 L-42 L-43 L-44 L-45 L-46 L-47 L-48 L-49 L-50

I II III IV

PLAT OF L CLAIMS
SECS. 11, 12, 14, & 15, T. 15 S., R. 10 E.
PIMA COUNTY, ARIZ.

0 250 500 1,500 2,000 FEET
SCALE

CHAPMAN, WOOD & GRISWOLD DRW. NO. 704
ALBUQUERQUE, N. MEX.
FEBRUARY, 1966

INFORMATION

STATIONS 100' APART (MAGNETICS)
LINES 750' APART
CLAIMS 590' X 1490'
---------- INDICATES POWER TRANSMISSION LINE
× INDICATES LOCATION MONUMENT
• • • INDICATES MAGNETOMETER STATION
INDICATES I.P. STATION

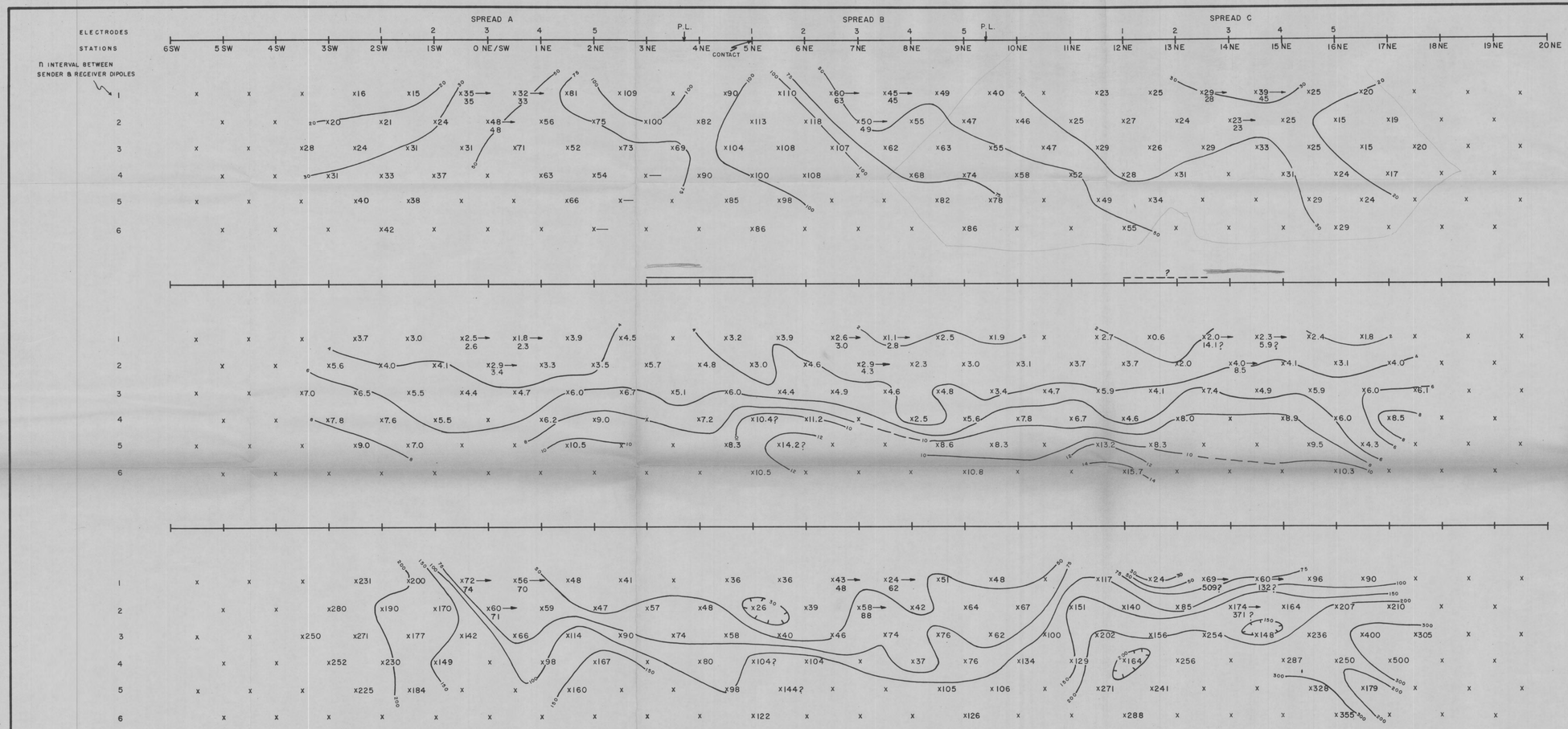
MAGNETICS: VERTICAL INTENSITY
CONTOUR INTERVAL 100γ
P.P. INDICATES STATE LAND PROSPECTING PERMIT APPLIED FOR.

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

COMPOSITE GEOPHYSICAL PLAN
FOR
CHAPMAN, WOOD & GRISWOLD

TECHNESONICS PROJECT
ROSKRUGE MINING DIST.
PIMA COUNTY, ARIZONA.

SCALE: 1" = 500'	CONTOUR INTERVAL:	REVISIONS
	DATA BY:	3-30-66 4-18-66
DATE: 3-1-66	SHEET OF	
DRAWN BY: M. S. & W.D.S	DRAWING NO.:	FILE:



EXPLANATION

ELECTRODE ARRAY: 1000' — n x 1000' — 1000'
SENDER DIPOLE — RECEIVER DIPOLE

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

LOOKING N 32 W

TECHNESONICS PROJECT

SECTIONAL DATA SHEET

LINE NO. I

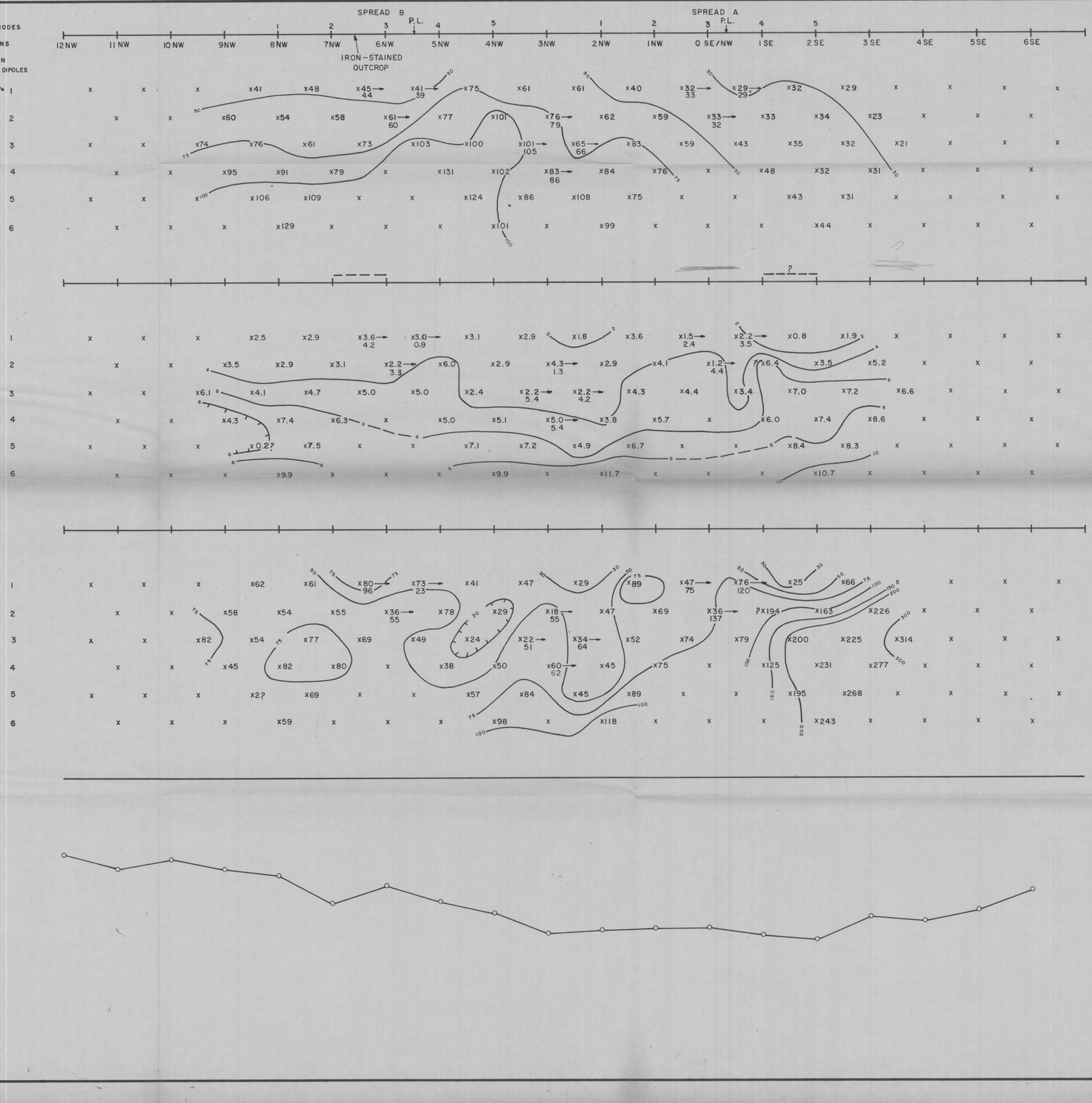
INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 1000' DATE: MARCH 1966

FOR
CHAPMAN, WOOD & GRISWOLD

SELF POTENTIAL



EXPLANATION

ELECTRODE ARRAY: 1000' — n x 1000' — 1000'
SENDER DIPOLE — RECEIVER DIPOLE

APPARENT RESISTIVITY (ρ_{DC}) IN UNITS OF OHM FEET 2π
CONTOUR INTERVAL: LOGARITHMIC
SENDER FREQUENCY: 0.05 c.p.s.

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

LOOKING N 29 E

PERCENT FREQUENCY EFFECT (PFE)
CONTOUR INTERVAL CONSTANT
SENDER FREQUENCIES: 0.05 & 3.0 c.p.s.

APPARENT "METALLIC CONDUCTION" FACTOR (MCF)
$\left(MCF = \frac{PFE \times 1000}{\rho_{DC}/2\pi}\right)$
CONTOUR INTERVAL LOGARITHMIC

TECHNESONICS PROJECT
SECTIONAL DATA SHEET
LINE NO. 2
INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

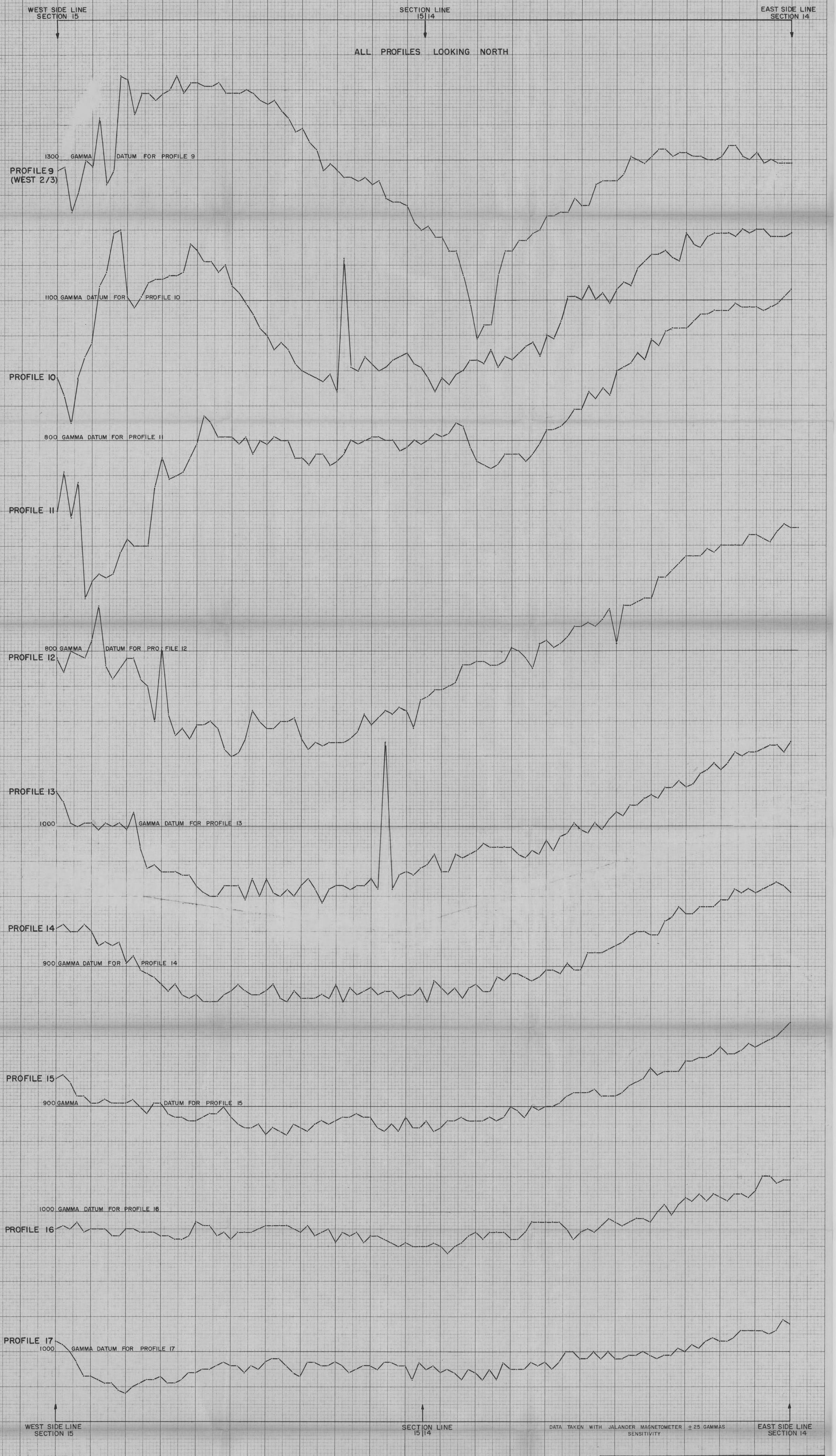
SCALE: 1" = 1000' DATE: APRIL 1966

FOR
CHAPMAN, WOOD & GRISWOLD

SELF POTENTIAL

+50 — 0 — -50 MILLIVOLTS

HEINRICHS GEOEX
UNIVERSAL ENGINEERS TUCSON ARIZONA



ALL PROFILES LOOKING NORTH

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

MAGNETIC PROFILES VERTICAL INTENSITY

TECHNESONICS PROJECT

FOR

CHAPMAN, WOOD & GRISWOLD

ROSKRUGE MINING DISTRICT

PIMA COUNTY, ARIZONA

SCALE: 1"=500' HORIZ	CONTOUR INTERVAL:	REVISIONS
1"=100 GAMMAS VERT.	DATA BY:	
DATE: APRIL, 1966	SHEET 2 OF 2	
DRAWN BY: TRC	DRAWING NO.:	FILE:

WEST SIDE LINE
SECTION 11

SECTION LINE
11 | 12

EAST SIDE LINE
SECTION 12

ALL PROFILES LOOKING NORTH

1300 GAMMA DATUM FOR PROFILE 1

PROFILE 1

1300 GAMMA DATUM FOR PROFILE 2

PROFILE 2

PROFILE 3

1300 GAMMA DATUM FOR PROFILE 3

1300 GAMMA DATUM FOR PROFILE 4

PROFILE 4

PROFILE 5

1300 GAMMA DATUM FOR PROFILE 5

PROFILE 6

1300 GAMMA DATUM FOR PROFILE 6

PROFILE 7

1300 GAMMA DATUM FOR PROFILE 7

PROFILE 8

1300 GAMMA DATUM FOR PROFILE 8

1300 GAMMA DATUM FOR PROFILE 9

PROFILE 9
(EAST 2/3)

WEST SIDE LINE
SECTION 11

SECTION LINE
11 | 12

DATA TAKEN WITH JALANDER MAGNETOMER ± 25 GAMMAS SENSITIVITY

EAST SIDE LINE
SECTION 12

ALL PROFILES LOOKING NORTH

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

MAGNETIC PROFILES VERTICAL INTENSITY
TECHNESONICS PROJECT
FOR
CHAPMAN, WOOD & GRISWOLD
ROSKRUGE MINING DISTRICT
PIMA COUNTY, ARIZONA

SCALE: 1" = 500' HORIZ.	CONTOUR INTERVAL:	REVISIONS
1" = 100 GAMMAS VERT.	DATA BY:	
DATE: APRIL, 1966	SHEET 1 OF 2	
DRAWN BY: TRC	DRAWING NO.:	FILE:

a=1000

INDUCED POLARIZATION SENDER NOTES

Project: CHAPMAN WOODS & GRISWOLD Line: 2-ASE Date: 3/31/66

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
Receive	0-10	10-20	10-20	20-30	20-30	20-30	30-40	30-40	30-40	30-40		
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Receive	40-50	40-50	40-50	40-50	50-60	50-60	50-60	50-60				
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A				

INDUCED POLARIZATION - RECEIVER NOTES

PAGE 1

Project: CHAPMAN, WOODS & GRISWOLD Line: 2-A SE Int.Cal .95 Date: 3/[illegible]/66

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		0 x 1
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	.1	.03	.01	.1	.01	.01	.03	.01	.01	.003		
DC-1	21 23	18 22	19.0 16.8	21.5 23	5.8 5.7	3.4 2.5	18.6 21.0	5.9 5.7	2.15 2.14	1.60 1.75		104
DC-2	22.5 22	20 20	18.1 17.6	22.5 22.0	5.7 5.8	2.2 3.1	20.5 20.0	6.0 5.65	2.3 2.14	1.60 1.70		104
Σ	8 8.5	40 40	35.8 35.7	44.5 45.5	11.5	5.4 5.0	40.6 40.5	11.6 11.65		3.15 3.30		
DC-3	22.5 22	20 20	18.2 17.5	22.3 22.0	5.7 6.8	3.0 2.9	20.0 20.4	5.9 6.0	2.5 2.3	1.75 1.65		
Dc-4		40	35.7	40.5			20.6 19.9	5.7 5.7	2.4 2.14	1.70 1.65		
Σ	14.5		5.66				40.4 40.5	11.0 11.4		1.70		
DC-AV	44.5	20.40	17.9	22.2	5.75	2.95	20.5	5.84	2.40	1.65		208
AC-1	21.5	19.2	17.3	21.5	5.3	2.8	19.5	5.5	2.2	1.55		102
AC-2	21.5	19.2	17.3	21.8	5.3	2.8	19.5	5.5	2.2	1.55		102
Σ	43.0	38.4	34.6	43.3	10.6	5.6	39.0	11.0	4.40	3.10		204
S. P.	-7.1	-4.2	[illegible]	+22.0			-4.0					
AC-N	.04	.04	[illegible]	.03			.01					
E.Res.												

TRIALS: 4 1/2 SEC 1 / 1 SEC 3 / FIRST 0

INDUCED POLARIZATION - RECEIVER NOTES

PAGE 2

Project: CHAPMAN, HOOPS Line: 2-ASE Int.Cal Date:

Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Rec.	40-50	→	→	→	50-60	→	→	→				
Time	.01	.01	.003	.003	.003	.003	.001	.001				
DC-1	4.1 3.8	2.0 2.5	1.20 1.00	.85 .80 1.65	1.40 1.50	1.00 1.13	.64 .60	.52 .56				
DC-2	4.0 3.9	2.1 2.3	1.09 1.10	.85 .85 1.70	1.49 1.41	1.15 1.05	.68 .64	.60 .55				
Σ	7.9 7.9	4.9 4.8	2.20 2.23 2.19 2.18	.85 .82 1.67	2.90 2.90	2.17 2.20	1.24 1.27 1.22 1.24	1.08 1.05 1.05 1.03				
DC-3	3.9 3.9	2.0 2.4	1.10 2.16 1.13	.79 .90 1.69	1.38 1.51	1.10 2.19 1.09 2.17	.63 1.25 .60	.58 1.09 .50				
Dc-4	4.0 3.9	2.2 2.2	1.10 1.08	.80 .90 1.70	1.50 1.38	1.07 2.15 1.10	.61 .63	.56 .51				
Σ	7.9 7.9	4.4 4.4	2.18 2.16	.82 1.64	2.89 2.88	2.17 2.20	1.24 1.26	1.07 1.07				
DC-AV	7.88	4.48	2.19 1.08	.87 1.68	2.89	1.18 2.17	.62 1.26	.59 1.07				
AC-1	3.65	2.05	1.00	.75	1.33	.98	.56	.47				
AC-2	3.70	2.05	1.00	.77	1.33	.98	.56	.48				
Σ	7.35	4.10	2.00	1.52	2.66	1.96	1.12	.95				
S. P.	+9.7				+17.4							
AC-N	.03				.02							
.Res.												

(.48, .60)
(.52, .57)

(.52, .74)
(.39, .66)
(.60, .66)

(.75, .92)
(.75, .97)
(.95, .80)
(.80, .87)

a=1000

INDUCED POLARIZATION - RECEIVER NOTES

PAGE 2

Project: CAMPMAN, WOODS + GRAVEL Line: 2-ASE Int.Cal _____ Date: _____

Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Rec.	40-50	→	→	→	50-60	→	→	→				
Time	.01	.01	.003	.003	.003	.003	.001	.001				
DC-1	4.1 3.8	2.0 2.5	1.20 1.00	.85 .80 1.65	1.40 1.50	1.00 1.13	.64 .60	.52 .56				
DC-2	4.0 3.9	2.1 2.3	1.09 1.10	.85 .85 1.70	1.49 1.41	1.15 1.05	.68 .64	.50 .55				
Σ	7.9 7.9	4.0 4.3	2.20 2.23 2.19 2.18	.85 .82 1.67	2.90 2.90	2.17 2.20	1.24 1.23 1.22 1.24	1.08 1.08 1.05 1.08				
DC-3	3.9 3.9	2.0 2.4	1.10 2.16 1.13	.79 .90 1.69	1.38 1.51	1.10 2.19 1.09 2.17	.63 1.25 .60	.58 1.09 .50				
Dc-4	4.0 3.9	2.2 2.2	1.10 1.08	.80 .90 1.70	1.50 1.38	1.07 2.15 1.10	.61 .63	.56 .51				
Σ	7.8 7.9	4.3 4.4	1.08	.82 1.69	2.89 2.86	.97	.57	.50				
DC-AV	7.88	4.48	2.19 1.08	.87 1.68	2.89	1.18 2.17	.68 1.236	.59 1.072				
AC-1	3.65	2.05	1.00	.75	1.33	.98	.56	.47				
AC-2	3.70	2.05	1.00	.77	1.33	.98	.56	.48				
Σ	7.35	4.10	2.00	1.52	2.66	1.96	1.12	.95				
S. P.	+9.7				+17.4							
AC-N	.03				.02							
.Res.												

• DC cal = $\frac{I}{10 V_{DC(cal)}}$ AC-DC Cal = $\frac{V_{AC\ Cal}}{V_{DC\ Cal}}$

C.W.G.

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INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project Rockridge Line 2-SA SE½ Field date 7/31/66 Data page_____ Comp. date 4/.66. Comp by P.A.H. C.S.L.

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A		
(E) Vdc (avg)	44.5	40.0	~~35.7~~ 11.32?	44.5	11.50	5.90	40.5	11.64	4.80	3.35		
(F) DCcal USED	0.481	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	32	29	~~103~~ 33?	32	33	43	29	34	35	48		
(I) Vac Σ	43.0	38.4	34.6	43.7	10.6	5.60	39.0	11.0	4.40	3.10		
(J) AC noise x 2 O.K.												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$	→	→	→	→	→	→	→	→	→	→		
(L) AC-DC cal.	.981	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K	1.015	1.022	1.012	1.								
(N) PFE=(M-1)(10^2)	1.5	2.2	1.2	0.8	6.4	3.4	1.9	3.5	7.0	6.0		
(O) MCF=(M-1)(10^5)/H	47	76	36?	25	194	79	66	103	200	125		

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL		
(B) Receive	40-50	→	→	→	50-60	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	2A	2A	2A	2A	2A	2A	2A	2A		1A 1000		
(E) Vdc (avg)	7.88	4.98	2.19	1.68	2.89	2.17	1.236	1.072		208x10		
(F) DCcal	→	→	→	→	→	→	→	→		.481		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	23	32	32	43	21	31	31	(44)				
(I) Vac Σ	7.75	4.10	2.00	1.52	2.66	1.96	1.12	.95		204		
(J) AC noise x 2	.06											
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	→	→	→	→	→	→	→	→		.981		
(M) ρdc/ρac =ExL/K												
(N) PFE=(M-1)(10^2)	5.2	7.2	7.4	8.4	6.6	8.6	9.3	10.7				
(O) MCF=(M-1)(10^5)/H	226	225	231	195	314	277	268	243				

90
61
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INDUCED POLARIZATION SENDER NOTES

Project: CHAPMAN WOODS CALDWELL Line: 2A NW Date: 3/31/66

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
Receive	0-10	10-20	10-20	20-30	20-30	20-30	30-40	30-40	30-40	30-40		
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A		
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Receive	40-50	40-50	40-50	40-50	50-60	50-60	50-60	50-60				
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN WOODS & GRISWOLD Line: 2A-NW Int.Cal .94 Date: 4/1/66

Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				CAL
Rec.	40-30				50-60							
Time	.03	.01	.01	.003	.03	.01	.01	.003				
DC-1	13.0 13.4	4.0 5.0	2.9 3.7	1.50 1.60	7.0 7.0	2.9 2.6	2.2 2.0	1.25 1.30				104
DC-2	13.2 13.3	4.5 4.4	3.3 3.3	1.40 1.65	7.3 6.6	2.9 3.2	2.3 2.0	1.55 .90				
Σ												
DC-3	13.1 13.4	4.4 4.6	3.3 3.1	1.75 1.30	7.0 6.9	2.8 3.0	2.2 2.0	1.10 1.25				
Dc-4		4.5 4.4	3.1 2.8	1.52 1.40	6.9 7.1	3.5 2.3	2.3 2.1	1.30 1.20				
Σ			3.2	1.55		2.5	2.3	1.60				
DC-AV			2.7	1.38		3.2	2.0	.90				
AC-1	12.8	4.3	2.75	1.37	6.7	2.7	2.0	1.08				102
AC-2	12.8	4.3	2.75	1.37	6.7	2.7	2.0	1.08				
Σ												
S. P.	+15.5				+7.3							
AC-N	.04				.06							
.Res.												

1.10	3.0	1.30	3.1
1.40	2.7	1.60	2.6
1.60	2.9	1.65	3.3
.80	2.9	1.30	2.5
		1.40	
		1.55	

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN, WOODS & GRISWOLD Line: 2-ANW Int.Cal .95 Date: 3/21/66

Send	4-5	3-4	4-5	2-5	3-4	4-5	1-2	2-3	3-4	4-5		
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	.03	.1	.01	.1	.03	.01	.1	.03	.01	.01		
DC-1	20.0 20.2	24.0 21.5	5.6 5.65	27.5 28.5	10.0 10.7	4.0 4.2	42 43	10.2 11.1	5.6 5.9	2.5 2.9		104
DC-2	19.9 20.5	23.0 22.0	5.5 5.7	27.5 28.5	10.0 10.6	4.1 4.1	43 42	10.7 10.8	5.7 5.7	2.7 2.5		
Σ						4.1/4.2						
DC-3	19.8 20.5	23.5 22.0	5.6 5.55	28.0 28.0	10.7 9.8	4.1/4.2	42.5 43	10.9 10.5	5.8 5.7	2.6 2.6		
Dc-4	20.0 20.5	23.0 22.0	5.5 5.65		10.6 10.1	4.3/3.9	42.5 42.5	11.1 10.4	5.8 5.7	2.7 2.6		
Σ					(10.3)					2.7		
DC-AV					(10.3)					2.6		
AC-1	19.1	21.8	5.25	26.5	9.7	3.9	41	10.2	5.4	2.45		102
AC-2	19.2	21.5	5.25	26.5	9.7	3.86	41	10.2	5.4	2.45		
Σ												
S. P.	-3.2	-3.2	-	-8.0			+25.8					
AC-N	.04	.06		.04			.02					
t.Res.												

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project CHAPMAN WOODS & GRISWOLD Line 2-A NW Field date 3/31/66 Data page 1 Comp. date 4/3/66. Comp by [illegible]

(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	2A	→	→	→	→	→	→	→	→	→		
(E) Vdc (avg)	20.2	22.6	5.59	28.0	10.3	4.12	42.56	10.7	5.74	2.64		
(F) DCcal	.962	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	29.1	32.6	32.2	40.4	59.4	59.4	61.4	61.7	82.8	76.2		
(I) Vac Σ	19.15	21.65	5.25	26.5	9.7	3.87	41	10.2	5.4	2.45		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.981	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K	1.035	1.024	1.044	1.036	1.041	1.044	1.018	1.029	1.043	1.057		
(N) PFE=(M-1)(10^2)	3.5	2.4	4.4	3.6	4.1	4.4	1.8	2.9	4.3	5.7		
(O) MCF=(M-1)(10^5)/H	120	75	137	89	69	74	29	47	52	75		

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
(B) Receive	40-50	→	→	→	50-60	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	2A	→	→	→	→	→	→	→				
(E) Vdc (avg)	13.23	4.48	2.91	1.49	6.98	2.89	2.14	1.23				
(F) DCcal	.962	→	→	→	→	→	→	→				
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	76.3	64.6	83.9	75.2	100.7	83.4	108	99.3				
(I) Vac Σ	12.8	4.3	2.75	1.37	6.7	2.7	2.0	1.08				
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.981	→	→	→	→	→	→	→				
(M) ρdc/ρac =ExL/K	1.014	1.022	1.038	1.067	1.022	1.050	1.049	1.117				
(N) PFE=(M-1)(10^2)	1.4	2.2	3.8	6.7	2.2	5.0	4.9	11.7				
(O) MCF=(M-1)(10^5)/H	18	34	45	89	22	60	45	118				

INDUCED POLARIZATION SENDER NOTES

Project: Chapman Woods Griswold Line: 2B NW Date: April 6, 1966

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
Receive	0-10	10-20	10-20	20-30	20-30	30-30	30-40	50-40	50-40	30-40		
Time												
METER READ Range	1.3	1.2	1	2	2							
Current	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A		
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Receive	40-50	40-50	40-50	40-50	50-60	50-60	50-60	50-60				
Time												
METER READ Range					1.2	1.2	1.2	1.2				
Current	2A	2A	2A	2A	2A	2A	2A	2A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN, WOODS & GRISWOLD Line: 2-BNW Int.Cal .94 Date: 4/6/66

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
Rec.	60-70	70-80	→	80-90	→	→	90-100	→	→	→		3 BA
Time	.03	.03	.01	.03	.03	.01	.1	.03	.01	.01		~~4~~ 5 SEAT
DC-1	17.7 17.5	17.8 19.0	5.62 4.83	15.7 16.5	10.6 9.7	5.30 4.97	27.5 29.8	10.2 8.7	4.42 4.15	3.00 2.53		142
DC-2	17.3 17.8	18.3 18.3	5.0 5.7	16.2 15.7	10.1 10.2	5.08 5.12	27.8 28.6	9.4 9.7	4.20 4.35	2.90 2.62		
Σ												
DC-3	17.4 17.7	18.0 18.7	5.03 5.45	16.5 15.5	10.3 10.0	5.38 4.85	28.7 28.5	9.0 10.0	4.10 4.35	2.90 2.67		
Dc-4	17.4 17.7	17.5 19.0	5.50 5.07	16.5 15.3		5.10 5.07	28.7 28.7	9.3 9.7	4.05 4.60	2.68 2.95		
Σ			4.85	16.7				9.7		2.78		
DC-AV			5.70	15.0				9.3		2.62		
AC-1	17.2	17.3	5.03	15.2	9.7	4.82	27.3	9.1	4.05	2.58		140
AC-2	17.1	17.4	5.05	15.2	9.7	4.78	27.5	9.1	~~3.95~~	2.55		140
Σ									4.00			
S. P.	-16.3	+25.6		+7.1			+8.4					
AC-N	.06	.02		.08			.08					
Res.				over								

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN/WOODS HERISWARD Line: 2-BNW Int.Cal Date: 4/6/66

Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Rec.	100-110	→	→	→	110-120	→	→	→				
Time	.03	.01	.01	.01	.01	.003	.003	.003				
DC-1	10.3 10.7	[illegible]	3.10 3.15	2.23 2.18	3.08 3.10	1.97 1.99	1.70 1.55	1.03 .92				
DC-2	10.4 10.7	5.40 5.15	3.20 2.98	2.18 2.17	3.20 2.80	2.01 1.95	1.45 1.27	1.07 .82				
Σ												
DC-3	10.2 10.8	5.38 5.22	3.00 3.30	2.33 2.07	3.18 3.02	1.93 2.10	1.37 1.32	.97 .99				
Dc-4	10.3 10.7	5.30 5.30	3.25 3.93	2.23 2.13	3.05 3.50	1.90 2.10	1.29 1.36	.86 1.07				
Σ		5.40	3.18	2.02	3.10	1.90	1.37	.95				
DC-AV		5.25	2.98	2.26	3.22	2.12	1.40	.98				
AC-1	10.0	5.03	2.93	2.00	2.83	1.88	1.23	.87				
AC-2	10.0	5.03	2.90	2.00	2.98	1.90	1.28	.87				
Σ												
S. P.	-8.0				+13.0							
AC-N	.12			CHECKED	.04							
Res.												

1.35	2.00	5.00	2.02	3.03	5.38
1.30	2.05	3.35	2.30	3.23	5.30
1.32			2.10	3.20	5.38
1.42			2.25	3.05	5.28
1.37					
1.40					

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INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project CHAPARRAL WOODS + GRISWOLD Line 2-15 NW Field date 4/6/66 Data page 1 Comp. date 4/7/66. Comp by JM

(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	60-70	70-80	80 →	80-90	→	→	90-100	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	1.3	1.2	1	2	2	2	2	2	2	2		
(E) Vdc (avg)	17.56	18.33	5.28	33.6	10.15	5.11	28.6	9.50	4.28	2.77		
(F) DCcal	.950	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	38.5	43.6	60.2	47.9	57.9	72.9	40.6	54.2	61.0	79.0		
(I) Vac Σ	17.15	17.35	5.04	32.2	9.7	4.80	27.4	9.1	4.03	2.57		
(J) AC noise x 2												
(K) Vac(corr) =$\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.986	→	→	→	→	→	→	→	→	→		
(M) ρdc/ρac=ExL/K	1.009	1.042	1.033	1.029	1.032	1.050	1.025	1.029	1.047	1.063		
(N) PFE=(M-1)(10^2)	.9	4.2	3.3	2.9	3.2	5.0	2.5	2.9	4.7	6.3		
(O) MCF=(M-1)(10^5)/H	23	96	55	61	55	69	62	54	77	80		

Project_____ Line_____ Field date_____ Data page 2 Comp. date_____ Comp by_____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
(B) Receive	100-110	→	→	→	110-120	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	2	2	2	2	1.2	1.2	1.2	1.2				
(E) Vdc (avg)	10.5	5.31	3.18	2.18	3.12	2.00	1.28	.97				
(F) DCcal	.950	→	→	→	→	→	→	→				
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρdc=ExFxGx10^3/D	80.6	75.7	90.7	109	74.0	95	106	129				
(I) Vac Σ	10.0	5.03	2.92	2.00	2.90	1.89	1.26	.87				
(J) AC noise x 2												
(K) Vac (corr) =$\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.986	→	→	→	→	→	→	→				
(M) ρdc/ρac =ExL/K	1.035	1.041	1.074	1.075	1.061	1.043	1.002	1.099				
(N) PFE=(M-1)(10^2)	3.5	4.1	7.4	7.5	6.1	4.3	.2	9.9				
(O) MCF=(M-1)(10^5)/H	58	54	82	69	82	45	2	59				

INDUCED POLARIZATION SENDER NOTES

project: CHAPMAN WOODS & GATEWOOD Line: 2B SE Date: APRIL 5, 1966

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
Receive	0-10	10-20	10-20	20-30	20-30	20-30	30-40	30-40	30-40	30-40		
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Receive	40-50	40-50	40-50	40-50	50-60	50-60	50-60	50-60				
Time												
Range												
Current	2A	2A	2A	2A	2A	2A	2A	2A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN WOODS + GRISWOLD Line: 2-B SE Int.Cal _____ Date: _____

Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Rec.	20-10	→	→	→	10-0	→	→	→				
Time	.03	.03	.01	.01	.01	.01	.003	.003				
DC-1	13.4 12.7	7.4 6.7	3.60 3.22	2.38 2.28	4.50 4.25	3.10 2.65	1.54 1.68	1.14 1.26	1.17			
DC-2	13.1 13.1	~~7.1~~ ~~7.6~~	3.43 3.38	2.45 2.23	4.50 4.35	2.92 2.78	1.57 1.70	1.20 1.24	1.24			
Σ									1.25			
DC-3	13.0 13.2	7.2 6.8	3.60 3.24	2.40 2.30	4.40 4.43	2.82 2.90	1.70 1.54	1.25 1.18	1.14			
Dc-4	13.1 13.1	7.1 6.8	3.55 3.23	2.27 2.50	4.30 4.57	2.78 2.91	1.63 1.64	1.14 1.26				
Σ		7.2	3.43	2.28	4.40	2.82	1.67	1.22				
DC-AV		6.7	3.39	2.47	4.30	2.82	1.58	1.14				
AC-1	12.2	6.5	3.19	2.15	4.15	2.65	1.50	1.06				
AC-2	12.4	6.5	3.18	2.17	4.13	2.65	1.48	1.08				
Σ												
S. P.	+2.5				-.02							
AC-N	.06				.04							
Res.												

NOTE IN OVERLAP BETWEEN 2-A AND 2-B

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN WOODS EXTENDED Line: 2-B SE Int.Cal .95 Date: 4/5/66

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL.
Rec.	60-50	50-40	→	40-30	→	→	30-20	→	→	→		
Time	.1	.1	.03	.1	.03	.03	.1	.03	.03	.01		
DC-1	29.8 30.0	27.0 28.1	9.8 10.6	50.2 50.0	12.2 13.4	7.2 6.6	41.3 40.2	17.0 16.5	6.5 7.1	4.30 4.40	THIS LINE	100
DC-2	29.8 29.8	27.2 27.9	10.0 10.3	50.4 50.0	12.9 12.6	7.1 6.6	40.1 41.9	17.0 16.7	6.7 6.6	4.28 4.40		
Σ	59.8 59.8			50.2/50.2								
DC-3	29.9 29.8	27.4 27.4	9.9 10.3	50.2 49.9	12.9 12.6	6.7 7.0	40.2 41.9	16.8 16.8	6.8 6.4	4.35 4.42		
Dc-4	29.8 29.9	27.8 27.2	9.8 10.3	51.0 49.7	13.2 12.3	6.7 7.0	41.2 40.0	16.9 16.7	6.9 6.6	4.50 4.22		
Σ	59.7 59.7		9.7	49.5					6.8	4.30		
DC-AV			(10.5)	51.3					6.5	4.40		
AC-1	28.3	26.2	9.7	47.7	11.8	6.4	39.0	16.0	6.4	4.08		
AC-2	28.2	26.2	9.7	47.8	11.8	6.4	38.8	16.0	6.4	4.06		
Σ												
S. P.	-25.9	-1.9		-12.9			-2.5					
AC-N	.14	.12		.16			.14					
Res.												

a=1000'

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project CHAPMAN, WOODS & GASKOLD Line 2-B SE Field date 4/5/66 Data page_____ Comp. date 4/7/66 . Comp by [illegible]

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	60-50	50-40	→	40-30	—	→	30-20	—	—	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	2A	"	"	"	"	"	"	"	"	→		←
(E) Vdc (avg)	29.85	27.55	10.12	30.22	12.76	6.86	40.85	16.80	6.69	4.36		←
(F) DCcal	1.00	—	—	—	—	—	—	—	—	→		←
(G) Kn x 10^{-3}	3	3	12	3	12	30	5	12	30	60		←
(H) ρ dc=ExFxGx10^3/D	44.8	41.3	60.7	75.3	76.6	103	61.3	101	100	131		←
(I) Vac Σ	28.25	26.2	9.7	47.75	11.8	6.4	38.9	16.0	6.4	4.07		←
(J) AC noise x 2	—											
(K) Vac(corr) = $\sqrt{I^2 - J^2}$	—											
(L) AC-DC cal.	.980	—	—	—	—	—	—	—	—	→		←
(M) ρ dc/ρac=ExL/K	1.036	1.030	1.022	1.031	1.060	1.050	1.029	1.029	1.024	1.050		
(N) PFE=(M-1)(10^2)	3.6	3.0	2.2	3.1	6.0	5.0	2.9	2.9	2.4	5.0		
(O) MCF=(M-1)(10^5)/H	80	73	36	41	78	49	47	29	24	38		

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
(B) Receive	20-10	—	—	→	10-0	—	—	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	2A	"	"	"	"	"	"	→				←
(E) Vdc (avg)	13.09	6.99	3.41	2.36	4.40	2.85	1.63	1.20				←
(F) DCcal	1.00	—	—	—	—	—	—	→				←
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				←
(H) ρ dc=ExFxGx10^3/D	78.5	105	102	124	66	86	86	101				←
(I) Vac Σ	12.3	6.5	3.18	2.16	4.14	2.65	1.49	1.07				←
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.980	—	—	—	—	—	—	→				←
(M) ρdc/ρac =ExL/K	1.043	1.054	1.051	1.071	1.042	1.054	1.072	1.099				
(N) PFE=(M-1)(10^2)	4.3	5.4	5.1	7.1	4.2	5.4	7.2	9.9				
(O) MCF=(M-1)(10^5)/H	55	51	50	57	64	62	84	98				

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page 2

Project ROSKRUGE Line 1-B NE Field date 3-23 Data page 1 Comp. date 3-24 . Comp by J.R.B.

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	0-1	1-2	→	2-3	→	→	3-4	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	5	→	→	→	→	→	→	→	→	→		
(E) Vdc (avg)	221.5	164.8	46.1	179.5	50	22.58	147.3	43.0	23.05	12.53		
(F) DCcal	.455	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	60	45	50	49	55	62	40	47	63	68		
(I) Vac Σ	212	160	44	172	48	21.2	142	41.0	21.6	12.0		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$ OK												
(L) AC-DC cal.	.982	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K	1.026	1.011	1.029	1.025	1.023	1.046	1.019	1.030	1.048	1.025		
(N) PFE=(M-1)(10^2)	2.6	1.1	2.9	2.5	2.3	4.6	1.9	3.0	4.8	2.5		
(O) MCF=(M-1)(10^5)/H	43	24	58	51	42	74	48	64	76	37		

Project _____ Line _____ Field date _____ Data page 2 Comp. date _____ Comp by _____

(A) Send	4-5	3-4	2-3	1-2	45	3-4	2-3	1-2		Cal		
(B) Receive	4-5	→	→	→	5-6	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	5	→	→	→	→	→	→	→		1000		
(E) Vdc (avg)	42.53	20.0	13.55	8.63	17.05	10.54	8.16	5.64		220		
(F) DCcal	.455	→	→	→	→	→	→	→		.455		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	46	55	74	82	47	58	78	86				
(I) Vac Σ	40.5	19.0	12.6	7.8	16.0	9.6	7.4	5.0		216		
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$ OK												
(L) AC-DC cal.	.982	→	→	→	→	→	→	→		.982		
(M) ρdc/ρac =ExL/K	1.031	1.034	1.056	1.086	1.047	1.078	1.083	1.108				
(N) PFE=(M-1)(10^2)	3.1	3.4	5.6	8.6	4.7	7.8	8.3	10.8				
(O) MCF=(M-1)(10^5)/H	67	62	76	105	100	134	106	126				

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INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Project ROSKRUGE Line 1-BSW Field date 3-21-66 Data page 1 Comp. date 3/24/66. Comp by JPB. Page 1

(A) Send →	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	0-10	10-20	→	20-30		→	30-40			→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	5	→	→	→	→	→	→	→	→	→		
(E) Vdc (avg)	167	232.8	45	402.6	108.6	39.26	331	103.8	39.6	19.85		
(F) DCcal	~~.909~~	~~.455~~	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	91 45	127 63	98 49	220 110	237 118	214 107	181 90	221 113	216 108	217 108		
(I) Vac Σ	158	220	42	377	101	36.4	312	98	36.9	17.4		
(J) AC noise x 2 OK	→	→	→	→	→	→	→	→	→	→		
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.973	→	→	→	→	→	→	→	→	→		
(M) ρ dc/ρac=ExL/K	1.028	1.030	1.043	1.039	1.046	1.049	1.032	1.030	1.044	1.112		
(N) PFE=(M-1)(10^2)	2.8	3.0	4.3	3.9	4.6	4.9	3.2	3.0	4.4	11.2		
(O) MCF=(M-1)(10^5)/H	31 62	2448	44 88	1836	1939	2346	1836	1326	2040	52 104		

Project _____ Line _____ Field date _____ Data page _____ Comp. date _____ Comp by _____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL		
(B) Receive	40-50	→	→	→	50-60	→	→	→			110	
(C) n separation	2	3	4	5	3	4	5	6			110	
(D) I	5	→	→	→	→	→	→	→		1000		
(E) Vdc (avg)	75.4	38.34	18.33	10.28	25.28	16.63	8.9	5.68		110	220	
(F) DCcal	.909	→	→	→	→	→	→	→		~~.909~~		
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168		.455		
(H) ρ dc=ExFxGx10^3/D	164 82	209 104	200 100	196 98	138 69	181 90	170 85	173 86				
(I) Vac Σ	70	35.2	16.4	9.2	23.4	15.1	8.0	5.0		107		
(J) AC noise x 2	OK	OK	2.8	2.8	OK	→	→	→				
(K) Vac (corr) = $\sqrt{I^2 - J^2}$			16.16	8.76								
(L) AC-DC cal.	.973	→	→	→	→	→	→	→		.973		
(M) ρdc/ρac =ExL/K	1.048	1.060	1.104	1.142	1.051	1.072	1.083	1.105				
(N) PFE=(M-1)(10^2)	4.8	6.0	10.4	14.2	5.1	7.2	8.3	10.5				
(O) MCF=(M-1)(10^5)/H	2958	2958	52104	72144	3774	4080	4998	61 122				

INDUCED POLARIZATION SENDER NOTES

project: CW & ROSKRUGE Line: 7C NE Date:

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
Receive	1-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time												
Range												
Current	9A	3A	9A	3A	3A	9A	3A	3A	3A	9A		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Receive	40-50	→	→	→	50-60	→	→	→				
Time												
Range												
Current	3A	3A	3A	9A	3A	3A	3A	9A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN, WOOD & GRISWOLD Line: 1-C N E Int.Cal Date: 3/24/66

Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Rec.	40-50			>	50-60			>				
Time	.01	.003	.003	.01	.01	.003	.003	.003				
DC-1	5.1/5.1	1.7/1.65	1.3/1.4	2.6 2.7	2.2 2.1	1.1 .70	.78 .85	2.0 1.5				
DC-2	5.2/5.0	2.1/1.4	1.25/1.4	2.5 2.9	2.2 2.2	1.0 .8	.90 .80	1.6 2.2				
Σ						1.0/.75	.70 .78	1.7/2.0				
DC-3	4.9/5.4	1.8/1.6	1.2/1.45	3.0 2.5	2.2 2.2	1.05/1.80	.78 .80	1.75 1.9				
Dc-4	4.6/5.7	1.68/1.70	1.4/1.35	2.9 2.5	2.3 2.1	1.20/1.70	.80 .80	1.6 1.9				
Σ	5.2/5.1	1.60/1.80	1.45	2.7	2.3/2.0	1.98	1.90	1.7				
DC-AV			1.20	2.7		.95	.72	1.9				
AC-1	4.8	1.57	1.20	2.4	2.0	.82	.70	1.50				
AC-2	4.8	1.55	1.25	2.4	2.0	.83	.70	1.50				
Σ												
S. P.	+7.5				+17.7							
AC-N	.01				.08							
Pot.Res.												

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN, WOODS & GRISWOLD Line: 1-C NE Int.Cal Date:

Send	1-2	2-5	1-2	3-4	2-3	1-2	4-5	3-1	2-3	1-2		
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	.3	.1	.03	.1	.03	.03	.1	.01	.01	.01		
DC-1	96/94	43/44	19.7/18.0	31/25	6.7/7.0	11.0/11.0	22/23	4.4/4.1	2.7/2.7	4.8/5.5		
DC-2	98/95	43/44	19.0/18.7	27/29	6.8/6.8	10.9/11.2	22/23	4.5/4.0	2.8/2.7	5.2/5.1		
Σ										5.2/5.1		
DC-3	95/96	44/42	19.0/18.8	27/29	6.8/6.8	11.2/10.9	22.5/22.5	4.1/4.3	2.8/2.6	5.3/5.0		
Dc-4	95/96	43/43	19.0/18.7	28/27	7.0/6.8	10.7/11.3	20.5/24.5	4.2/4.3	2.9/2.6			
Σ					6.5/7.3	10.8/11.3		4.6/3.9	2.8/2.6			
DC-AV												
AC-1	91	41	17.7	26	6.4	10.2	21.5	4.0	2.5	4.6		
AC-2	91	41	17.7	27	6.4	10.2	21.5	4.0	2.5	4.6		
Σ												
S. P.	+1.2	+.8		+2.5			+0.8					
AC-N	.04	.02		.06			.02					
Pot.Res.												

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project CHAPMAN WOODS & GRISWOLD Line 1-C NE Field date 3/25/66 Data page_____ Comp. date 3/28/66. Comp by Jm

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	9A	3A	9A	3A	3A	9A	3A	3A	3A	9A		
(E) Vdc (avg)	95.4	43.1	18.9	27.9	6.85	11.0	22.5	4.24	2.72	5.15		
(F) DCcal	.909											
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρ dc=ExFxGx10^3/D	29	39	23	25	25	33	20	15	25	31		
(I) Vac Σ	91	41	17.7	26.5	6.4	10.2	21.5	4.0	2.5	4.6		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.973											
(M) ρ dc/ρac=ExL/K	1.020	1.022	1.040	1.024	1.041	1.049	1.018	1.031	1.059	1.089		
(N) PFE=(M-1)(10^2)	2.0	2.3	4.0	2.4	4.1	4.9	1.8	3.1	5.9	8.9		
(O) MCF=(M-1)(10^5)/H	69	60	174	96	164	148	90	207	236	287		

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
(B) Receive	40-50	→	→	→	50-60	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	3A	3A	3A	9A	3A	3A	3A	9A				
(E) Vdc (avg)	5.13	1.70	1.34	2.7	2.18	.92	.75	1.70				
(F) DCcal	.909											
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρ dc=ExFxGx10^3/D	19	15	24	29	20	17	24	29				
(I) Vac Σ	4.8	1.56	1.23	2.4	2.0	.825	.70	1.50				
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.973											
(M) ρdc/ρac =ExL/K	1.040	1.060	1.060	1.095	1.061	1.085	1.043	1.103				
(N) PFE=(M-1)(10^2)	4.0	6.0	6.0	9.5	6.1	8.5	4.3	10.3				
(O) MCF=(M-1)(10^5)/H	210	400	250	328	305	500	179	355				

INDUCED POLARIZATION SENDER NOTES

project: ROSKRUGE Line: 1-C SW Date:

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time												
Range												
Current	3A	3A	3A	3A	3A	3A	9A	3A	3A	3A		
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Receive	40-50	→	→	→	50-60	→	→	→				
Time												
Range												
Current	9A	3A	3A	3A	9A	3A	3A	3A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN, WOOD & HEDRICK Line: 1-C SW Int.Cal .94 Date: 3/9/84

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	.1	.1	.03	.1	.01	.01	.3	.03	.01	.003		
DC-1	49/49	31/30	7.3/5.3	26/28	6.8/6.2	2.9/3.5	75/77	6.3/8.6	2.8/2.9	1.5/1.9		110
DC-2	49/49	30/31	6.9/5.6	29/26	6.2/6.8	2.9/3.4	75/77	7.2/7.4	2.9/2.9	1.7/1.8		
Σ				28/30						1.75/1.6		
DC-3	49/49	29/32	6.2/6.5	27/28	6.7/6.3	3.3/3.2	76/76	7.8/6.6	3.3/2.6	1.5/1.8		
Dc-4			6.1/6.6	28/27		3.1/3.4	75/77	7.7/6.7	2.7/3.1	1.4/2.1		
Σ			6.4					7.1/7.6	2.8/3.0	1.7/1.85		
DC-AV			6.2					7.8/6.9		1.65/1.8		
AC-1	45	26	5.6	26	6.2	2.9	72	6.8	2.7	1.55		107
AC-2	45	26	5.7	27	6.2	2.9	72	6.9	2.7	1.55		
Σ												
S. P.	-28.0	+3.8		-2.4			-1.5					
AC-N	.04	.06		.09			.04					
Pot.Res.												

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN, WOOD & GRISWOLD Line: 1-C SW Int.Cal Date: 8/7

Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Rec.	40-60	→	→	→	40-60	→	→	→				
Time	.03	.01	.003	.003	.03	.01	.003	.003				
DC-1	20.7 / 19.9	3.5 / 4.0	1.5 / 1.75	1.2 / 1.05	15.0 / 15.2	3.0 / 2.6	1.45 / 1.60	1.70 / 1.04				
DC-2	20.7 / 19.7	3.4 / 3.0	1.4 / 1.8	1.35 / 1.75	15.1 / 15.6	2.7 / 3.0	1.66 / 1.30	1.2 / .85				
Σ	20.6 / 19.7	3.9 / 3.4			15.2 / 14.7	2.4 / 3.4	1.7 / 1.4	1.05 / 1.15				
DC-3	20.9 / 19.6	2.8 / 3.5	1.3 / 1.8	1.25 / 1.90	14.4 / 16.0	3.3 / 2.4	1.6 / 1.5	.95 / 1.05				
Dc-4	21.4 / 19.1	3.0 / 5.5	1.6 / 1.7	1.2 / 1.90	14.6 / 16.2	3.1 / 2.7	1.3 / 1.7	1.05 / 1.20				
Σ				1.3 / 1.85	16.7	3.1 / 2.6	1.5 / 1.6	.80 / 1.4				
DC-AV					14.5	2.7 / 2.9						
AC-1	19.0	2.9	1.45	.97	14.4	2.6	1.32	.90				
AC-2	18.9	3.0	1.45	.97	14.4	2.6	1.31	.90				
Σ												
S. P.	-5.0				-10.7							
AC-N	.08				.04							
Pot.Res.												

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

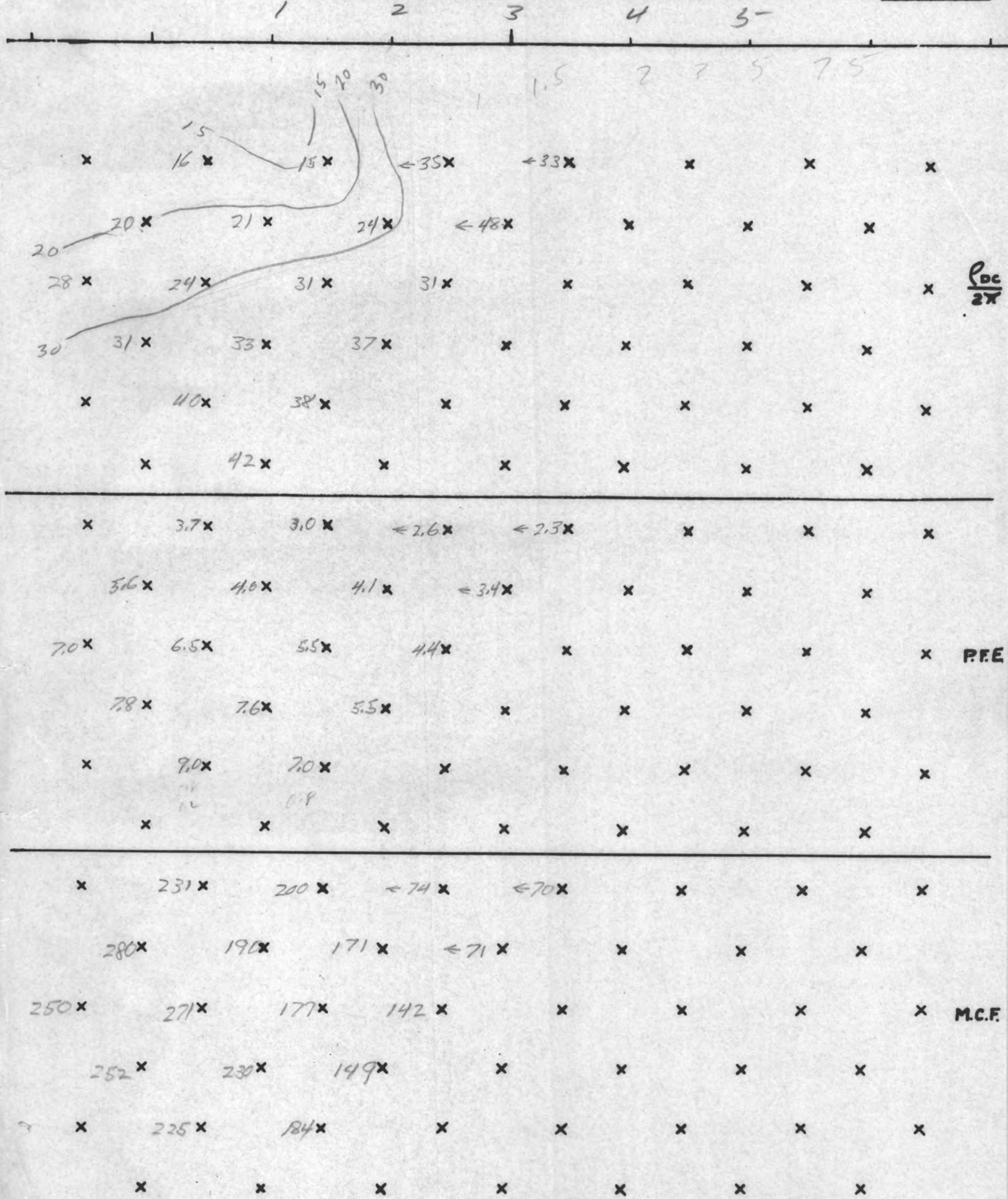
Project CHAPMAN, WOODS & FERISWOLD Line 1-C SW Field date 3/25/66 Data page_____ Comp. date 3/29/66. Comp by GM

(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
(C) n separation	1	1	2	1	2	3	1	2	3	4		
(D) I	3A	3A	3A	3A	3A	3A	9A	3A	3A	3A		
(E) Vdc (avg)	49	30.5	6.3	27.4	6.5	3.2	76	7.3	2.89	1.72		
(F) DCcal	.909											
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	44.5	27.7	22.9	24.9	23.6	29.1	23.0	26.5	26.3	31.3		
(I) Vac Σ	45	26	5.65	26.5	6.2	2.9	72	6.85	2.7	1.55		
(J) AC noise x 2												
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.973											
(M) ρ dc/ρac=ExL/K	1.059	1.141	1.085	1.006	1.020	1.074	1.027	1.037	1.041	1.080		
(N) PFE=(M-1)(10^2)	5.9	14.1	8.5	0.6	2.0	7.4	2.7	3.7	4.1	8.0		
(O) MCF=(M-1)(10^5)/H	132	509	371	24	85	254	117	140	156	256		

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
(B) Receive	40-50	→	→	→	50-60	→	→	→				
(C) n separation	2	3	4	5	3	4	5	6				
(D) I	9A	3A	3A	3A	9A	3A	3A	3A				
(E) Vdc (avg)	20.2	3.21	1.52 (1.555)	1.08	15.5	2.85	1.53	1.07				
(F) DCcal	.909											
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρdc=ExFxGx10^3/D	24.5	29.2	27.6	34.4	47.0	51.8	48.7	54.5				
(I) Vac Σ	18.95	2.95	1.45	.97	14.4	2.6	1.315	.90				
(J) AC noise x 2												
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.973		.889									
(M) ρdc/ρac =ExL/K	1.037	1.059	1.020	1.083	1.047	1.067	1.132	1.157				
(N) PFE=(M-1)(10^2)	3.7	5.9	414? ~~2.0~~ 89	8.3	4.7	6.7	13.2	15.7				
(O) MCF=(M-1)(10^5)/H	151	202	166?	241	100	129	271	288				

HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING N 32° W



CHAPMAN WOOD & GRISWOLD

AREA ROSKRUGE LINE 1A a = 1000' SCALE: 1" = 1000' DATE: 3/17

CHAPMAN WOOD & GRISWOLD ROSKRUGE

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page 1

Project _____ Line 1A S/N Field date MAR 17 66 Data page 1 Comp. date MARCH . Comp by F.M.J.

LOOKING N 32°W

(A) Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
(C) n separation RANGE	100	300	30	100	30	10	100	30	30	10		
(D) I	3.	6	3	9	6	3	9	9	9	6		1.
(E) Vdc (avg) ✓	37.28	27.63	13.46	51.32	13.60	3.63	53.47	17.42	10.27	4.12		
(F) DCcal	.892	→	→	→	→	→	→	→	→	→		1.12
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	33	35	48	15	24	31	16	21	31	37		
(I) Vac Σ ✓	36.1	75.0	12.9	49.4	12.95	3.35	51.1	16.6	9.65	3.87		1.11
(J) AC noise x 2	.02	.03		.01			.01					
(K) Vac(corr) =$\sqrt{I^2 - J^2}$	—	—	—	—	—	—	—	—	—	—		
(L) AC-DC cal.	.991	→	→	→	→	→	→	→	→	→		
(M) ρdc/ρac=ExL/K	1.023	1.026	1.034	1.030	1.041	1.044	1.037	1.040	1.055	1.055		
(N) PFE=(M-1)(10^2)	2.3	2.6	3.4	3.0	4.1	4.4	3.7	4.0	5.5	5.5		
(O) MCF=(M-1)(10^5)/H	70	74	71	200	171	142	231	190	177	149		

Project _____ Line _____ Field date _____ Data page 2 Comp. date _____ Comp by _____

(A) Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
(B) Receive	40-50	→	→	→	50-60	→	→	→				
(C) n separation	30	30	10	10	30	10	10	3				
(D) I	9	9	9	6	9	9	9	6				
(E) Vdc (avg)	17.15	8.02	5.59	2.45	9.5	5.22	3.89					
(F) DCcal	.892	→	→	→	→	→	→	→				
(G) Kn x 10^{-3}	12	30	60	105	30	60	105	168				
(H) ρdc=ExFxGx10^3/D	20	24	33	38	28	31	40	42				
(I) Vac Σ	16.1	7.46	5.15	2.27	8.8	4.80	3.54	1.67				
(J) AC noise x 2	.01				.01							
(K) Vac (corr) =$\sqrt{I^2 - J^2}$	—	—	—	—	—	—	—	—				
(L) AC-DC cal.	.991	→	→	→	→	→	→	→				
(M) ρdc/ρac =ExL/K	1.056	1.065	1.076	1.070	1.070	1.078	1.090					
(N) PFE=(M-1)(10^2)	5.6	6.5	7.6	7.0	7.0	7.8	9.0					
(O) MCF=(M-1)(10^5)/H	280	271	230	184	250	252	225					

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: CHAPMAN W E 6 Line: 1-4 SW Int.Cal Date:

Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Rec.	40-50	→	→	→	50-60	→	→	→				
~~Time~~	30	30	10	10	30	10	10	3				
DC-1	16.4 17.9	8.1 7.9	5.39 5.84	2.58 2.30	9.9 9.1	5.65 4.72	3.90 3.87					
DC-2	16.3 18.0	8.1 7.9	5.79 5.40	2.31 2.59	10.0 9.1	4.79 5.72	3.91 3.87					
Σ												
DC-3	16.4 17.9	8.2 7.9	5.38 5.50	2.58 2.31	9.9 9.0	4.79 5.62	3.91 3.86					
Dc-4					9.9 9.1		3.90 3.81					
Σ												
DC-AV												
AC-1	16.1	7.5	5.15	2.27	8.8	4.79	3.53	1.67				
AC-2	16.1	7.45	5.15	2.27	8.8	4.80	3.55	1.67				
Σ												
S. P.	+3.4				+1.4							
AC-N	.01				.01							
Pot.Res.												

INDUCED POLARIZATION - RECEIVER NOTES

PAGE 1

Project: CHAPMAN-WOOD E GRISWOLD Line: 1-A SW Int.Cal 99.5 Date: MAR 7

Force 1

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	700	300	30	400	30	10	100	30	30	10		
DC-1	36.7 37.9	77 78	12.4 14.6	51.9 50.8	13.5 13.7	3.84 3.22	53.8 53.2	17.7 17.2	10.0 10.5	3.95 4.39		112
DC-2	37.0 37.5	76 79	12.3 14.6	51.8 50.8	13.5 13.7	3.84 3.20	53.8 53.1	17.6 17.2	10.1 10.5	3.96 4.30		112
Σ												
DC-3	36.7 37.4	77 79	12.4 14.5	51.9 50.7	13.4 13.8	3.85 3.20	53.9 53.0	17.7 17.1	10.1 10.4	3.92 4.31		
Dc-4		76 79				3.83 3.25						
Σ												
DC-AV												
AC-1	36.1	75.0	12.9	49.4	13.0	3.35	57.0	16.6	9.7	3.87		111
AC-2	36.1	75.0	12.9	49.4	12.9	3.35	51.2	16.6	9.6	3.87		111
Σ												
S. P.	+156	-12.6		-.4			99					
AC-N	.02	.03		.01			.01					
Pot.Res.												

INDUCED POLARIZATION SENDER NOTES

project: C,W & G Line: 1-A NE Date: 3/17/66

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL
Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time												
Range												
Current	9A	9A	9A	6A	9A	9A	6A	6A	9A	9A		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Receive	40-50	→	→	→	50-60	→	→	→				
Time												
Range												
Current	6A	6A	9A	9A	6A	6A	9A	9A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 3

Project: CHAPMAN WOODS & CRISWELL Line: 1-A NE Int.Cal .95 Date: 17MR

Send	1-2	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5		CAL
Rec.	0-10	10-20	→	20-30	→	→	31-40	→	→	→		
Time RANGE .3												
DC-1	116 116					12.4 12.6						112
DC-2	116 116					12.2 12.3						(8) 1
Σ						25.0						
DC-3	115 115					12.3 12.0						
Dc-4						12.3 12.3						
Σ						25.0						110 224
DC-AV						25.0						(8) 1.0
AC-1	110					12.3						110
AC-2	110					12.0						110
Σ						24.3						220
S. P.	+99	-298										
AC-N	.04											
Pot.Res.												

INDUCED POLARIZATION - RECEIVER NOTES PAGE 4

Project: CARPARK WOODS & GROSWOLD Line: 1-A NE Int.Cal .94 Date: 18 MAR 66

Send	1-2	1-2	2-3	1-2	2-3	3-4	1-2	2-3	3-4	4-5		CAL
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time		.1	.3	.1	.1	.3	.03	.03	.1	1		
DC-1		59.6 [illegible]	106 106	~~24.0~~ ~~24.0~~	47 46	177 175	10.5 10.2	17.0 17.5	41 41	240 240	TRANSMISSION LINES at 3500'	110
DC-2		39.9 [illegible]	106 107	23.0 23.8	46.5 46	178 176	9.9 10.7	18.0 16.6	41 42	240 240		
Σ		59.9 [illegible]	106 106	23.0 24.0	46.5 46	177 176	10.2 10.6	~~16.8~~ 17.7		240 240		
DC-3				22.8 24.0	47 46	177 176	10.5 10.7	16.8 17.7	41 41			
Dc-4				22.8 24.0			10.0 10.6	17.8 16.7				
Σ								17.8				
DC-AV								16.6				
AC-1		.38.1	102	21.9	44	167	9.6	16.1	38.5	225		108
AC-2		38.1	102	21.9	43.9	167	9.6	16.0	39	225		
Σ												
S. P.		+28.3		+74			+294					
AC-N		.07MV		.08MV			.08MV					
Pot.Res.							3MV drift					

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page 2

Project _____ Line 1+45 Field date 3/17/86 Data page 3+4 Comp. date 5/18/86. Comp by _____

(A) Send	1-2	2-3	1-2	3-4	2-3	1-2	4-2	3-4	2-3	1-2		
(B) Receive	0-10	10-20	→	20-30	→	→	30-40			→		
(C) n separation	1	1	2	1	2	3	1	2	2	4		
(D) I	92	92	92	61	23	23	68	54	73	92		
(E) Vdc (avg)	11.5	10.6	39.9	17.7	46.2	23.4	24.0	41.7	17.3	10.4		
(F) DCcal	.91	→	→	→	→	→	→	→	→	→		
(G) Kn x 10^{-3}	3	3	12	3	12	30	3	12	30	60		
(H) ρdc=ExFxGx10^3/D	34.9	32.2	48.4	80.5	56.3	71.0	109.2	75.0	52.5	63.1		
(I) Vac Σ	1.0	1.02	3.8	1.67	2.4	2.49	2.5	3.2	1.80	9.6		
(J) AC noise x 2	.08	.16	→	.46	→	→	.16	→	→	→		
(K) Vac(corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.26	→	→	→	→	→	→	→	→	→		
(M) ρdc/ρac=ExL/K	1.025	1.018	1.029	1.039	1.033	1.047	1.045	1.035	1.060	1.062		
(N) PFE=(M-1)(10²)	2.5	1.8	2.9	3.9	3.3	4.7	4.5	3.5	6.0	6.2		
(O) MCF=(M-1)(10^5)/H	71.6	55.7	59.9	98.4	58.6	66.2	41.2	46.2	44.3	38.3		

Project _____ Line _____ Field date _____ Data page 5 Comp. date _____ Comp by _____

(A) Send	4-5	3-4	2-3	1-2								
(B) Receive	40-50	→	→	→								
(C) n separation	1	1	4	5								
(D) I	92	92	92	92								
(E) Vdc (avg)	55	40.2	29.7	8.2								
(F) DCcal	→	→	→	→								
(G) Kn x 10^{-3}	12	30	60	120								
(H) ρdc=ExFxGx10^3/D	100	72.8	54.0	65.6								
(I) Vac Σ	5.1	4.13	3.0	2.2								
(J) AC noise x 2	.24	→	→	→								
(K) Vac (corr) = $\sqrt{I^2 - J^2}$												
(L) AC-DC cal.	.08	→	→	→								
(M) ρdc/ρac =ExL/K	1.057	1.067	1.090	1.105								
(N) PFE=(M-1)(10²)	6.7	6.7	9.0	10.5								
(O) MCF=(M-1)(10^5)/H	570	72.0	167	160								

INDUCED POLARIZATION - RECEIVER NOTES PAGE 5

Project: Line: Int.Cal Date:

Send												
Rec.												
Time												
DC-1												
DC-2												
Σ												
DC-3												
Dc-4												
Σ												
DC-AV												
AC-1												
AC-2												
Σ												
S. P.												
AC-N												
Pot.Res.												

1000
1100

INDUCED POLARIZATION SENDER NOTES

project: ROSARUGE Line: 1-B NE Date: _____

Send	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2		
Receive	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time												
Range												
Current	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A		
Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Receive	40-50	→	→	→	50-60	→	→	→				
Time												
Range												
Current	5A	5A	5A	5A	5A	5A	5A	5A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE

Project: [illegible] Line: 1-3NE Int.Cal .94 Date: [illegible]

Send	1-2	2-3	1-2	3-4	2-3	1-2	#1-5	3-4	2-3	1-2			
Rec.	0-10	10-20		20-30			30-40						
Time	.3	.3	.1	.5	.1	.03	.3	.1	.03	.03			
DC-1	110 110	80 45	25	90 87	25 26	12.2 10.2	74 73	21 22	11.9 11.0	6.8 5.9			110
DC-2	110 110	75	25	91 87	25 25	11.0 11.6	73 75	21 22	12.4 10.8	5.7 7.0			110
Σ	221 222	165	46	179 180	50 50	22.8 22.6	147 148	43 43	23.9 23.2	12.7 12.7			
DC-3	112 110	77	25	88 90	24.8 25.2	11.5 11.0	73 74	21 22.2	12.5 10.7	6.8 6.1			
Dc-4	111 110	85	26.5 26.5	90 90	24 26	11.3 11.5	11.5 11.9	75 74	20.8 22	11.2 11.7	6.8 6.0		
Σ	222 221	164 165	46.1 46.0	179 180	50 50	22.5 22.5	22.3	147 147	43.2 42.9	23.2 22.9	11.9 12.8		
DC-AV	221.5	164.8	46.1	179.5	50	22.58	147.3	43.0	23.05	12.53			220
AC-1	106	80	22	86	24	10.6	71	20.5	10.8	6.0			108
AC-2	106	80	22	86	24	10.6	71	20.5	10.8	6.0			
Σ	212	160	44	172	48	21.2	142	41.0	21.6	12.0			216
S. P.	+.6	-22.9		-.6			+.5						
AC-N	.10	.12		.08			.06						
Pot.Res.													

4.4 3.3 48

INDUCED POLARIZATION - RECEIVER NOTES

PAGE 3

Project: [illegible] Line: 1-GNS Int.Cal _____ Date: 3/[illegible]

Send	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2				
Rec.	40-50	→	→	→	50-60	→	→	→				
Time	.03	.03	.01	.01	.03	.01	.01	.01				
DC-1	21.0 21.4	10.0 9.9	6.6 7.0	4.3 4.4	8.3 8.7	5.8 4.8	4.6 3.5	3.0 2.6				
DC-2	21.1 21.4	10.4 9.6	6.7 6.9	4.2 4.3	8.3 8.8	5.2 5.4	4.2 4.0	3.1 2.5				
Σ	42.4 42.5	19.9 20.0	13.6 13.6	8.7 8.5	17.0 17.1	10.6 10.6	8.1 8.2	5.6 5.6				
DC-3	21.3 21.3	10.1 9.9	6.1 7.4	4.2 4.5	9.1 8.0	4.8 5.6	3.9 4.3	2.9 2.6				
Dc-4	21.1 21.5	10.3 9.8	6.2 7.3	4.2 4.4	9.0 8.0	5.1 5.1 5.5 5.4	4.4 4.3 3.8 3.8	2.6 2.7 3.1 3.1				
Σ	42.6 42.6	20.0 20.1	13.5 13.5	8.7 8.6	17.1 17.0	10.4 10.5 10.6	8.2 8.1 8.2	5.5 5.8 5.7				
DC-AV	42.53	20.0	13.55	8.63	17.05	10.54	8.16	5.64				
AC-1	20.3	9.5	6.3	3.9	8.0	4.8	3.7	2.5				
AC-2	20.2	9.5	6.3	3.9	8.0	4.8	3.7	2.5				
Σ	40.5	19.0	12.6	7.8	16.00	9.6	7.4	5.0				
S. P.	+7.9				+2.7							
AC-N	.04				.02							
Pot.Res.												

INDUCED POLARIZATION SENDER NOTES

Project: ROSKRUGE Line: 1-B SW Date: 22 MAY

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		
Receive	0-10	10-20	→	20-30	→		30-40	→				
Time												
Range												
Current	5A	5A	5A	5A	5A	5A	5A	5A	5A	5A		
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Receive	40-50	→		→	50-60	→		→				
Time												
Range												
Current	5A	5A	5A	5A	5A	5A	5A	5A				

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: CHAPMAN WOODS & GRISWOLD Line: 1-B SW Int.Cal .94 Date: 5/21

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
Rec.	0-10	10-20	→	20-30	→	→	30-40	→	→	→		
Time	.3	.3	.1	.3	.1	.03	.3	.1	.05	.03		
DC-1	85 82	117 116	22 23	200 205	54 54	18.9 20.5	166 165	52 51	19.5 20.5	9.0 11.0		110
DC-2	85 82	116 116	22 23	200 202	54 55	20.2 19.1	165 166	51 54	19.0 19.5	11.5 8.0		
Σ	84 83	116 117	45	403 402		39.4 39.3	331 331	103 105	40.0 38.5	20.0 19.5		
DC-3	84 83	232 232		200 205	55 54	20.1 19.0	166 165	51 54	20.5 20.0	10.5 9.0		
Dc-4	167 167 167	233						53 52 51 50	19.5 20.0	11.0 9.5		
Σ	167			403		39.1	331	105 102 104	40.5 39.5	19.5 20.5		
DC-AV	167	232.8	45	402.6	108.6	39.26	331	103.8	39.6	19.89		
AC-1	79	110	21	188	51	18.2	156	49	18.5	8.6		107
AC-2	79	110	21	189	50	18.2	156	49	18.4	8.8		
Σ	158	220	42	377	101	36.4	312	98	36.9	17.4		
S. P.	-27.8	-2.6	-3.7	-3.9			-17.5					
AC-N	.05	.01	.08	.08			.1					
Pot.Res.												

5.7 5.9 7.1

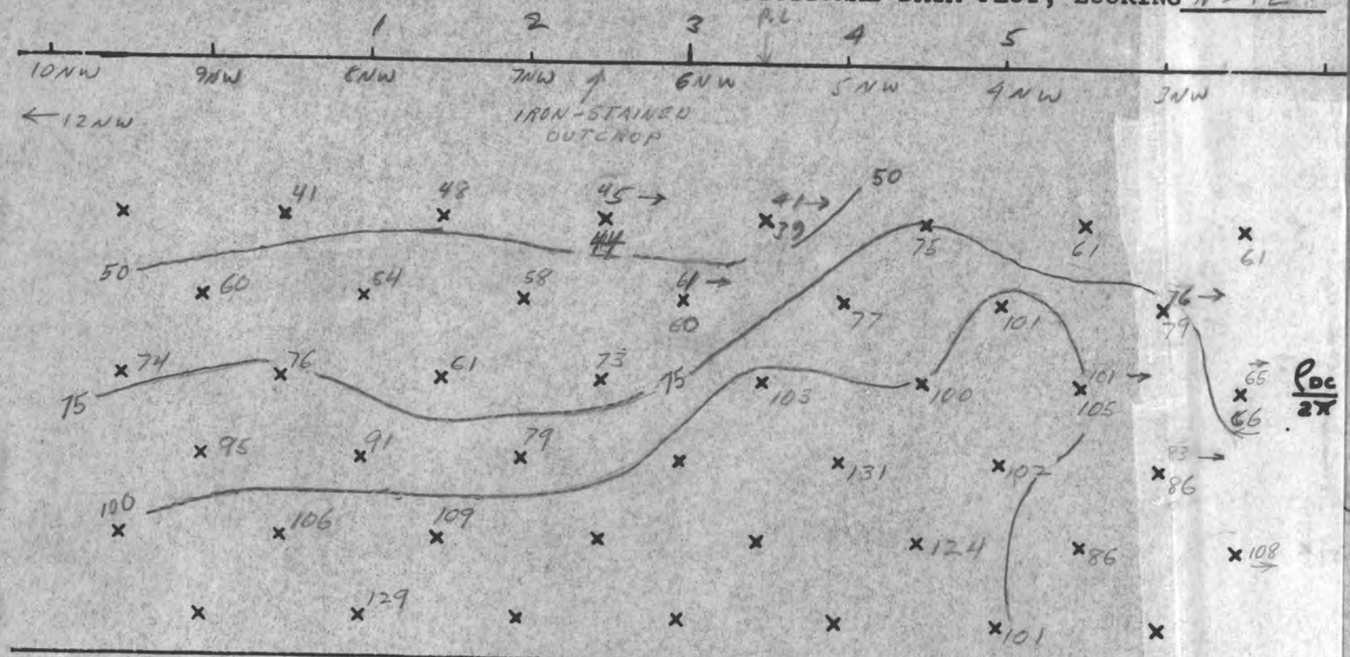
INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

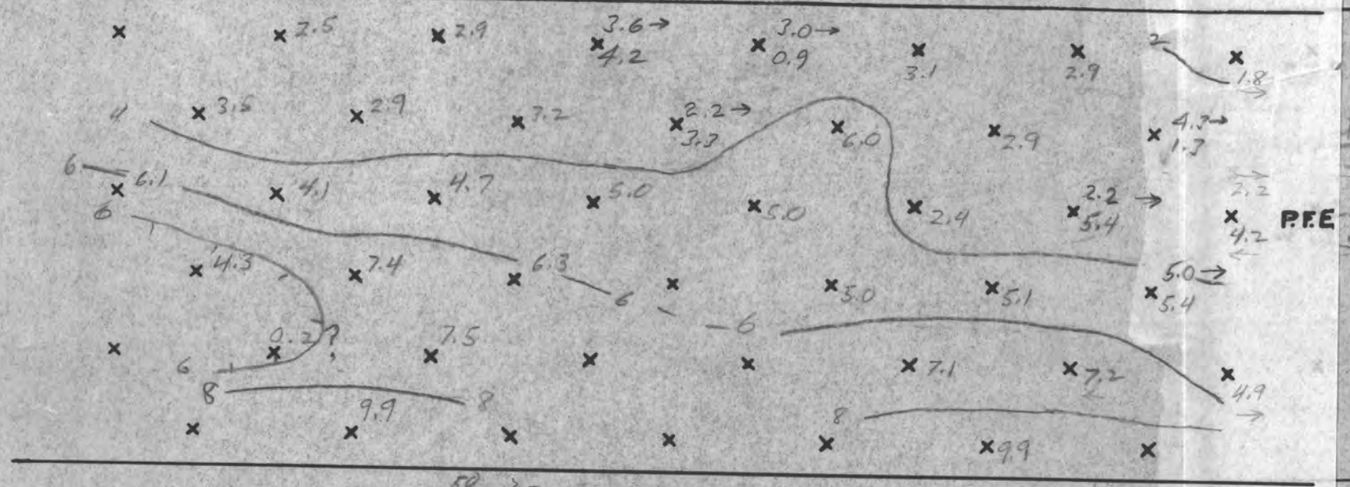
Project: CHAPMAN WOODS & GARSWOLD Line: 1-B SW Int.Cal Date: 8/21

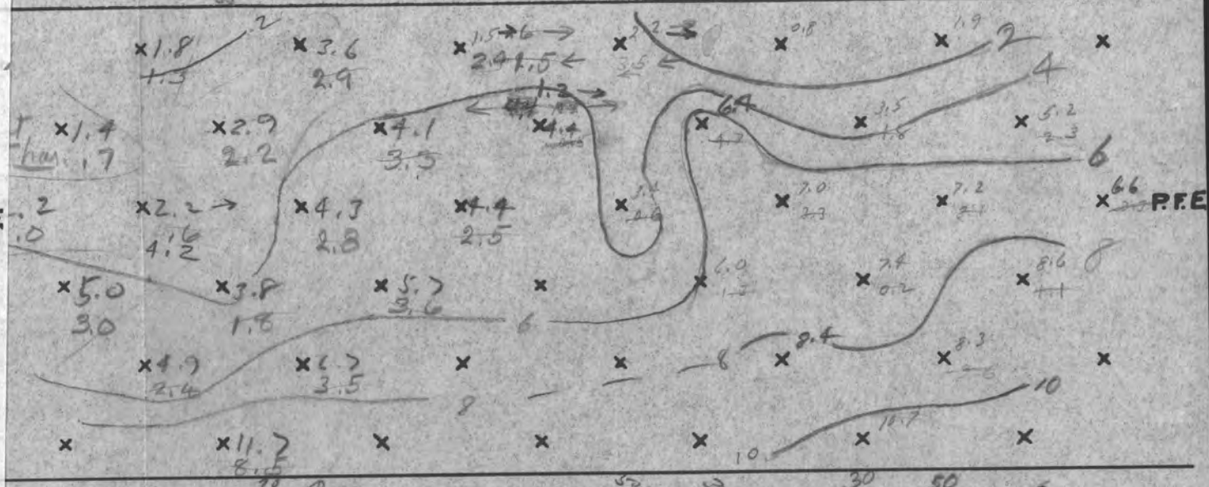
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5				
Rec.	40-50	→	→	→	50-60	→	→	→				
Time	.1	.05	.03	.01	.03	.03	.01	.01				
DC-1	39 36	17.7 20.5	8.2 10.2	5.1 5.4	13.4 12.0	8.3 8.4	4.6 4.3	2.8 2.8				
DC-2	39.5 36	17.5 20.7	9.6 8.6	5.5 4.8	13.3 11.9	8.5 8.4	4.6 4.3	2.8 2.9				
Σ	75 75.5	38.2 38.2	18.4 18.2	10.5 10.3	25.4 25.2	16.7 16.7	8.9 8.9	5.6 5.7				
DC-3	35.5 39.0	17.7 20.7	9.4 9.0	5.2 5.0	12.8 12.4	8.5 8.2	4.4 4.5	2.9 2.8				
Dc-4	40 | 40 36 | 36	20.0 18.5	9.3 9.0	5.5 4.6	12.5 12.8	8.4 8.2	4.4 4.5	3.0 2.7				
Σ	74.5 76.0 | 76.0	18.8 19.6	18.4 18.3	10.2 10.1	25.2 25.3	16.5 16.6	8.9 8.9	5.7 5.7				
DC-AV	75.4	38.34	18.33	10.28	25.28	16.63	8.9	5.68				
AC-1	35	17.6	8.2	4.6	11.7	7.6	4.0	2.5				
AC-2	35	17.6	8.2	4.6	11.7	7.5	4.0	2.5				
Σ	70	35.2	16.4	9.2	23.4	15.1	8.0	5.0				
S. P.	+3.2		-2.4		+33.4							
AC-N	1.4				.02							
Pot.Res.												

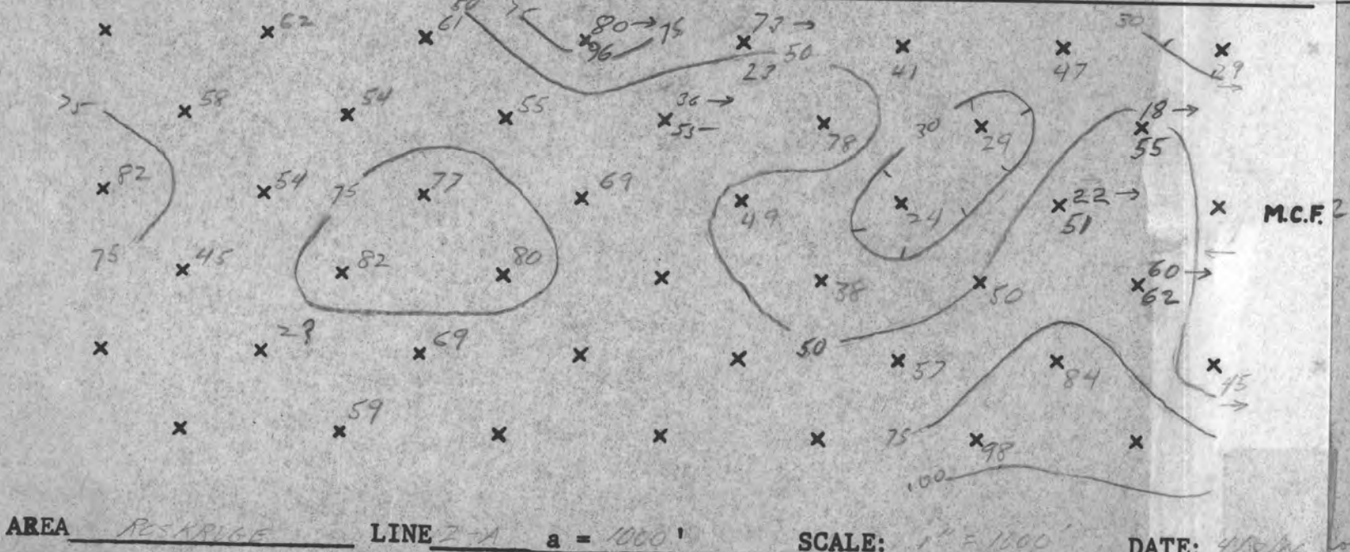
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING N29E

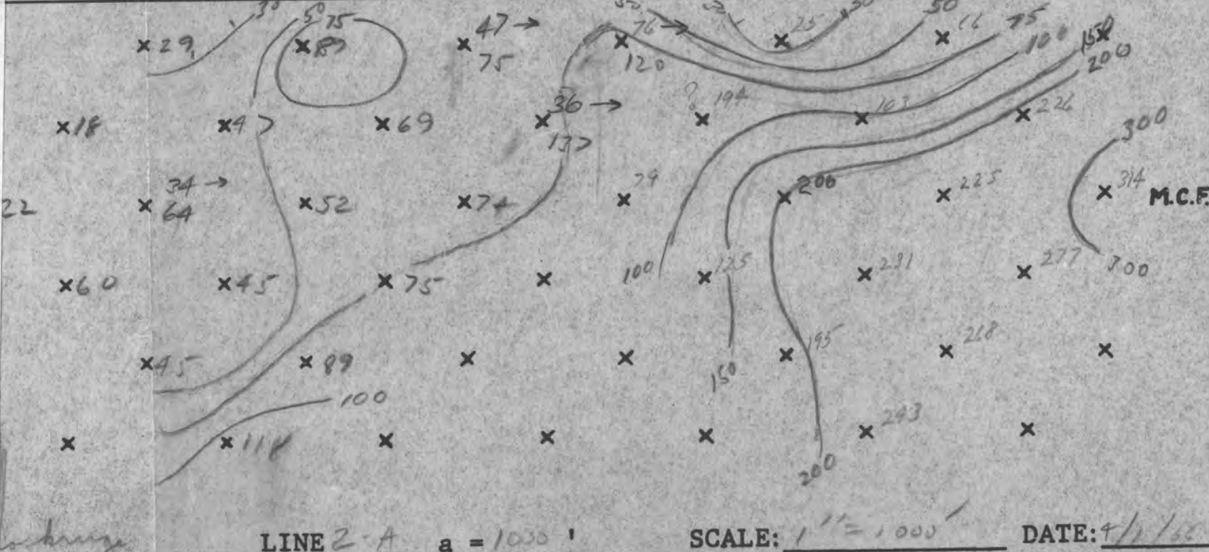
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING N29°E







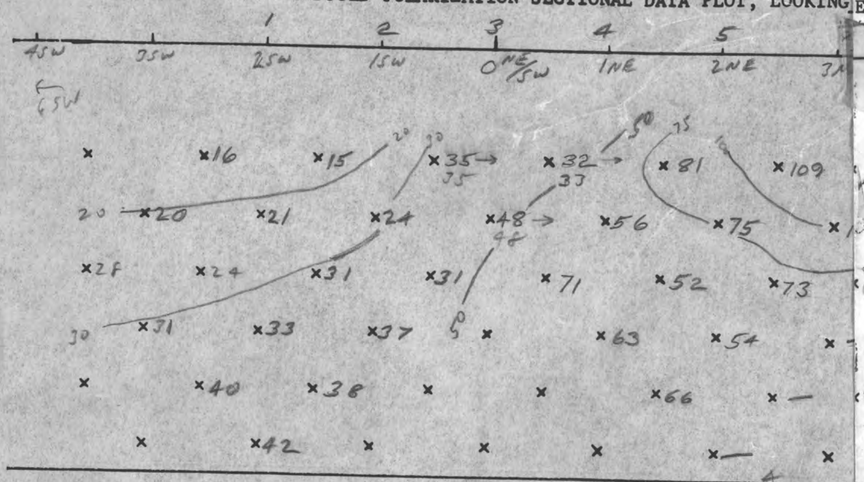




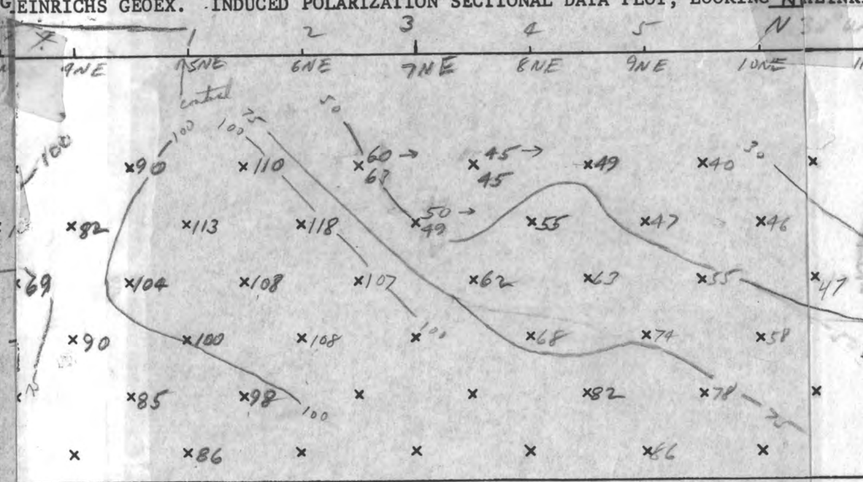
AREA RESRIDGE LINE 2-A a = 1000' SCALE: 1" = 1000' DATE: 4/8/82

LINE 2-A a = 1000' SCALE: 1" = 1000' DATE: 4/1/82

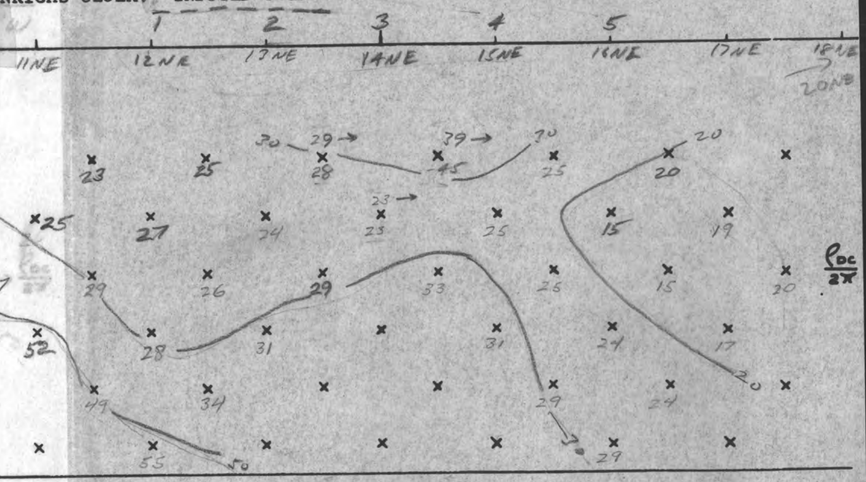
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING

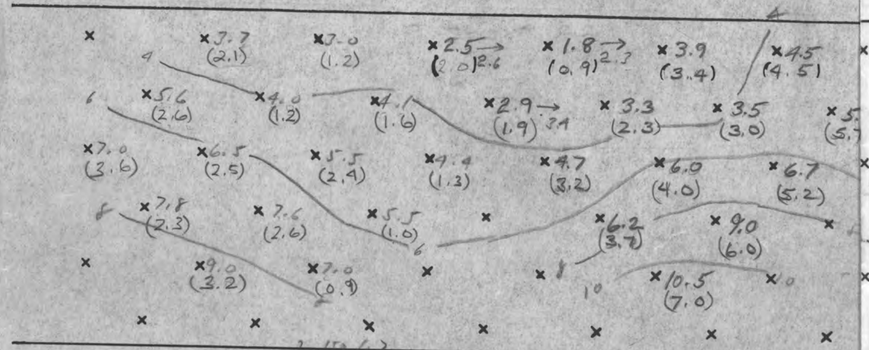


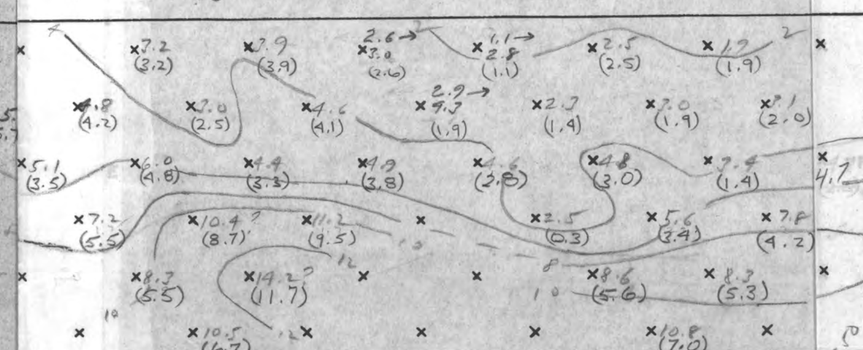
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING N

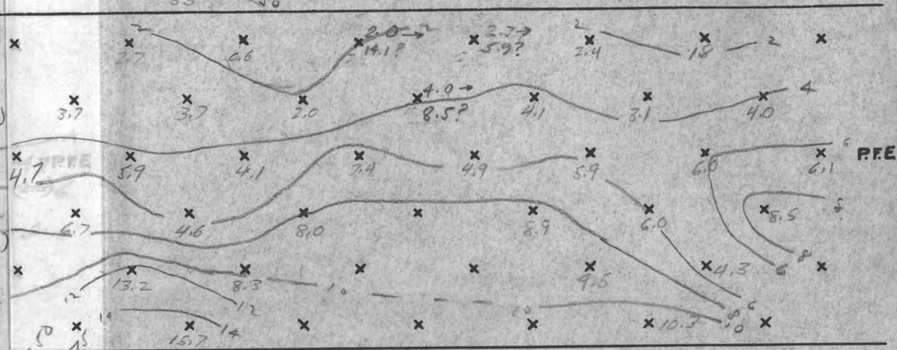


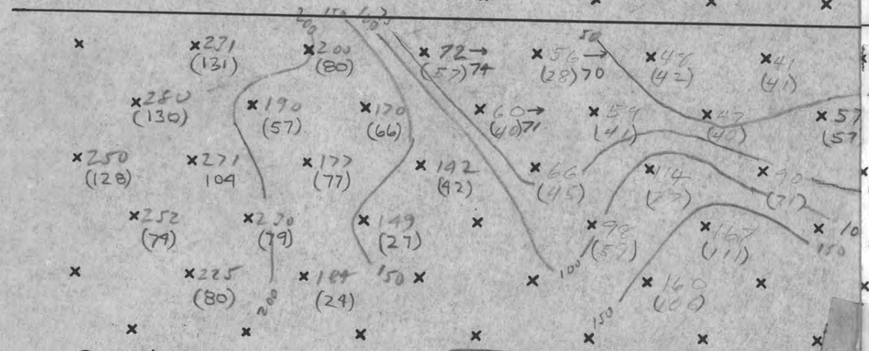
HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING N 32° W

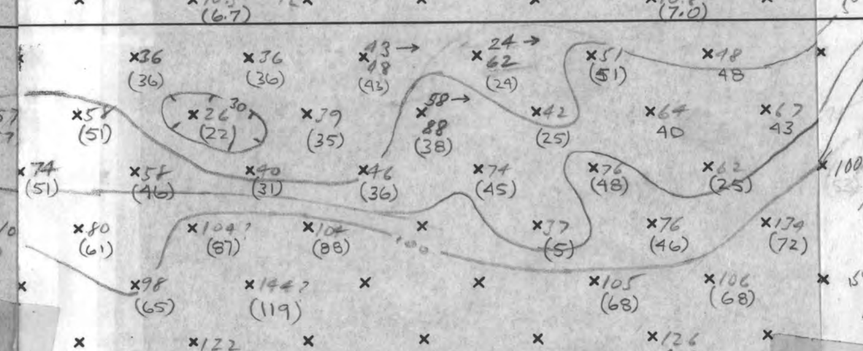


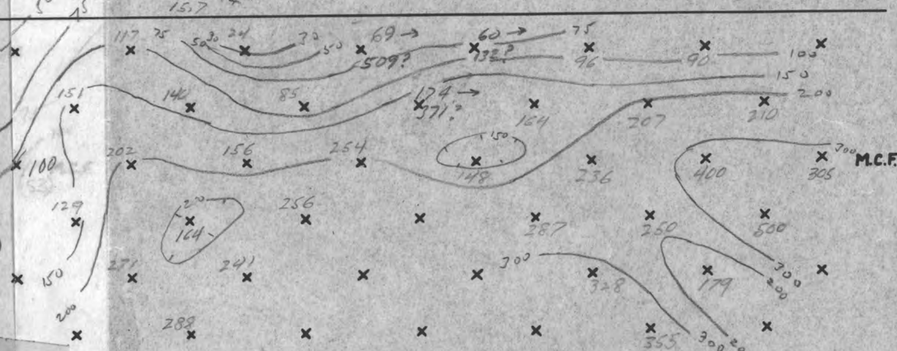












C.W. & G
TECHNESONICS

PRELIMINARY

AREA ROSKRUGE LINE 1-A NE a = 1000' SCALE: 1" = 1000' DATE:

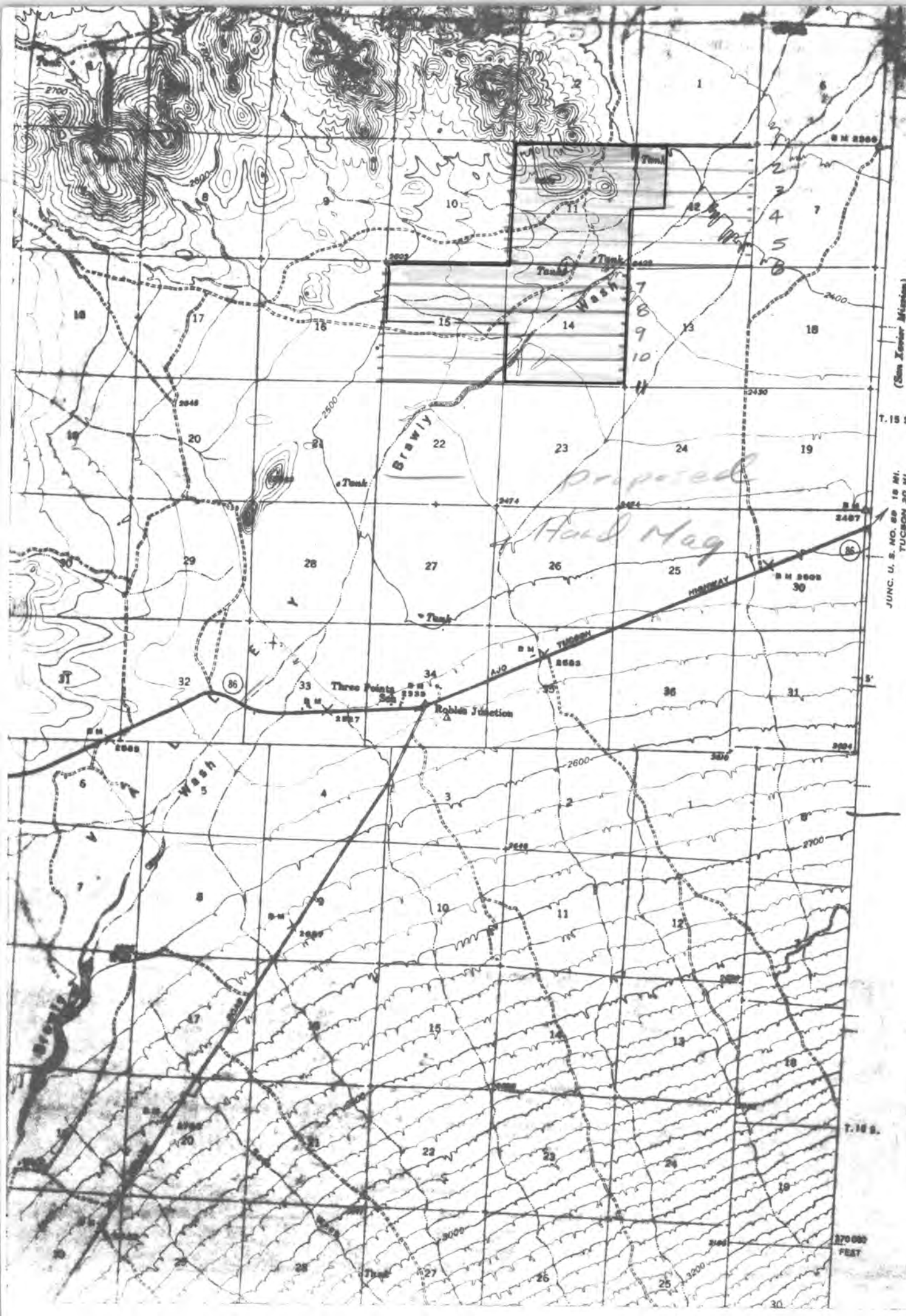
ROSKRUGE LINE 1 B a = 1000' SCALE: 1" = 1000' DATE:

ROSKRUGE LINE 1-C a = 1000' SCALE: 1" = 1000' DATE:

INDUCED POLARIZATION SENDER NOTES

project: CHAPMAN WOOD & GRISWOLD Line: 1-A SW Date: 16 MARCH '66

Send	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
Receive	0-10	10-20	—	20-30			30-40					
Time												
Range				~~3mA~~								
Current	3A	6A	3A	9A	6A	3A	9A	9A	6A	3A		1000
Send	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5
Receive	~~30-40~~	—	—	→	~~40-50~~	—	—	→	~~50-60~~			
Time												
Range												
Current	9A	9A	9A	6A	9A	9A	9A	6A	9A	9A	9A	6A



Chapman, Wood & Griswold File

CHAPMAN, WOOD & GRISWOLD
ALBUQUERQUE, N. M.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DATE	DESCRIPTION	AMOUNT
3/28/66	Billing #3 - Technesonics Project - Pima Co., Arizona March 6-19, 1966	$1,522.40

V-2

CHAPMAN, WOOD & GRISWOLD
ALBUQUERQUE, N. M.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DATE	DESCRIPTION	AMOUNT
3/18/66	Billing #2 - Technesonics Project - Pima County, Arizona	$906.78

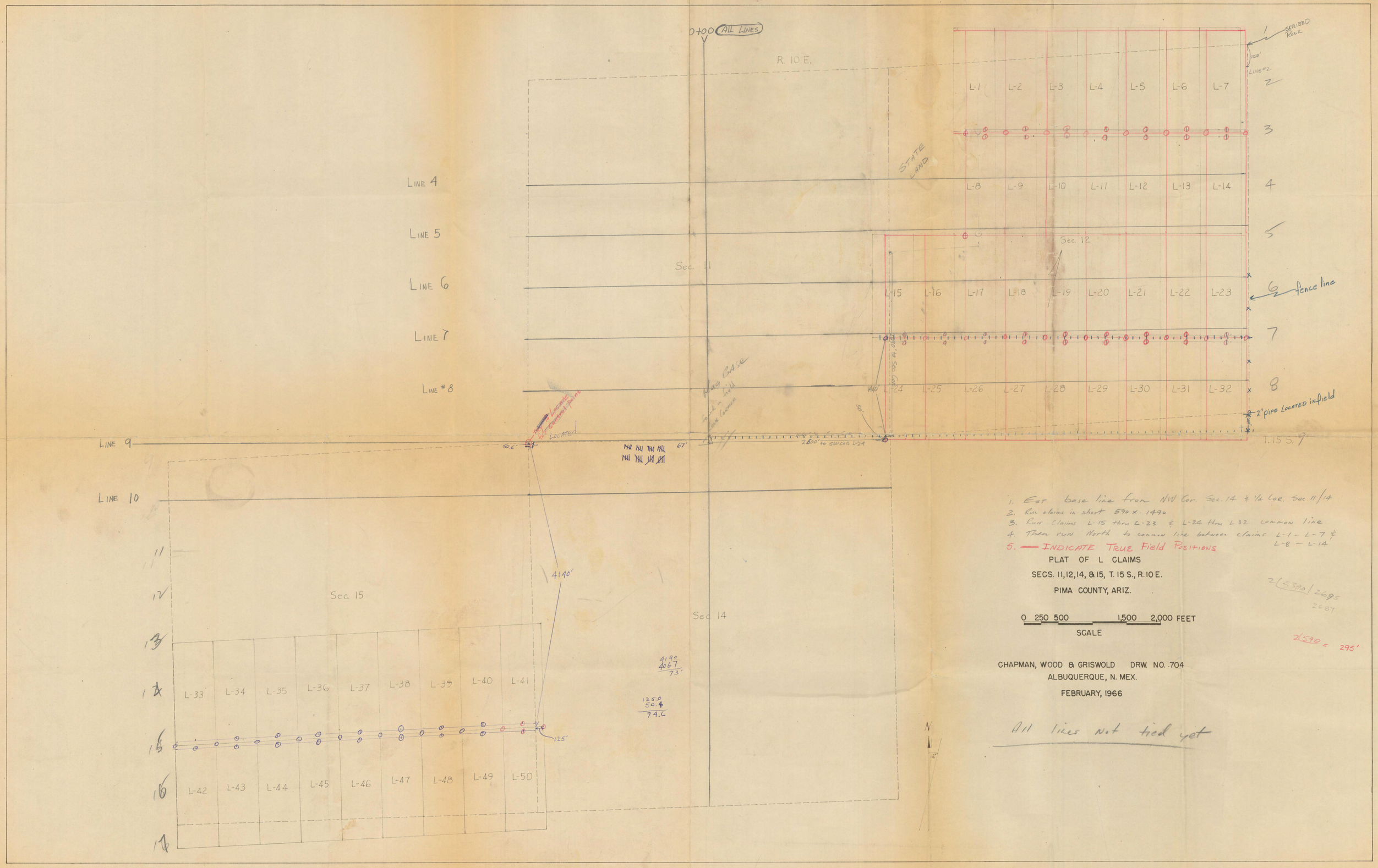
V-2

CHAPMAN, WOOD & GRISWOLD
ALBUQUERQUE, N. M.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DATE	DESCRIPTION	AMOUNT
2/21/66	Advance on Technesonics project	$1,000.00

V-2



1. Est base line from NW Cor. Sec. 14 & 1/4 Cor. Sec. 11/14
2. Run claims in short 590 x 1490
3. Run Claims L-15 thru L-23 & L-24 thru L 32 common line
4. Then run North to common line between claims L-1 - L-7 & L-8 - L-14
5. — INDICATE True Field Positions

PLAT OF L CLAIMS

SECS. 11, 12, 14, & 15, T. 15 S., R. 10 E.

PIMA COUNTY, ARIZ.

0 250 500 1,500 2,000 FEET

SCALE

CHAPMAN, WOOD & GRISWOLD DRW. NO. 704

ALBUQUERQUE, N. MEX.

FEBRUARY, 1966

All lines not tied yet

2(5390) 2695

2687

2(590 = 295'

PROSPECTING PERMIT BOND

P.P. 9124

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND **P.P. 9124**

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

P.P. 9125

PROSPECTING PERMIT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____,

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9125

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND P.P. 9126

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND P.P. 9126

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

TO: Arizona State Land Department
State Office Building
Phoenix 7, Arizona

HEINRICHS GEOEX
GEOPHYSICAL ENGINEERS TUCSON, ARIZONA

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671
TUCSON, ARIZONA 85703
Area Code 602 Phone 623-0578
Geophysical Exploration Research Engineering

SUBJECT: _____ DATE: May 18, 1966

2ND FOLD

Gentlemen:

Please be advised that we wish to cancel the following prospect permit applications:

No. 9176 Sec. 11 T15S, R10E, 640 acres
No. 9177 Sec. 12 T15S, R10E, 80 acres
No. 9178 Sec. 14 T15S, R10E, 640 acres
No. 9179 Sec. 15 T15S, R10E, 320 acres

Thank you very much.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs
Vice President

EGH:jc

1ST FOLD

PLEASE REPLY TO ⟶ SIGNED

Mr. Gil Griswold:

The above information was sent to the Arizona State Land Department this date.

If you have any questions please let us know.

Very truly yours,

Patricia M. Routt
Bookkeeper

PMR:jc

DATE SIGNED

SEND WHITE AND PINK COPIES WITH CARBON INTACT PINK COPY IS RETURNED WITH REPLY.

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

May 17, 1966

MAY 1966
GEOEX

P. P. Application No. 9176

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

All Sec. 11 Twp. 15S Rge. 10E Acres 640.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

May 17, 1966

MAY 1966
GEOEX

P. P. Application No. 9177

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

W½NW¼ Sec. 12 Twp. 15S Rge. 10E Acres 80.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

May 17, 1966

P. P. Application No. 9178

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

All Sec. 14 Twp. 15S Rge. 10E Acres 640.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

STATE LAND DEPARTMENT

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

May 17, 1966

MAY 1966
GEOEX

P. P. Application No. 9179

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

N½ Sec. 15 Twp. 15S Rge. 10E Acres 320.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85700

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9176

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				P.P. Rental		640 00	1 280 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
06	01	66	05	31	67

DATE BILLED MO.	DAY	YR.
05	17	66

DATE DUE MO.	DAY	YR.
06	01	66

TOTAL ACRES
640 00

TOTAL AMOUNT $
1 280 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

TOTAL PENALTY AND INTEREST $

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9177

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				P.P. Rental		80 00	160 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE	BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
	06	01	66	05	31	67	05	17	66	06	01	66	80 00	160 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

TOTAL PENALTY AND INTEREST $

PENALTY AND INTEREST			DISTRIBUTION	
		$		

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9178

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031 04					P.P. Rental		640 00	1 280 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE	BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
	06	01	66	05	31	67	05	17	66	06	01	66	640 00	1 280 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → **PAY THIS AMOUNT**

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9179

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031 04					P.P. Rental		320 00	640 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE	BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
	06	01	66	05	31	67	05	17	66	06	01	66	320 00	640 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

TOTAL PENALTY AND INTEREST $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

PROSPECTING PERMIT BOND

P.P. 9176

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9176

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9177

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $1000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND

P.P. 9177

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$1000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

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_____

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_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9178

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

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together with right of ingress and egress over state land described as follows:

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WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

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By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9178

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as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

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together with right of ingress and egress over state land described as follows:

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WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

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PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9179

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

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together with right of ingress and egress over state land described as follows:

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WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

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_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9179

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That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

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_____

_____

_____

7-31-61
3-43

By _____
Surety

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9126

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				P.P. Rental		640 00	1 280 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
05	13	66	05	12	67

DATE BILLED MO.	DAY	YR.
04	28	66

DATE DUE MO.	DAY	YR.
05	13	66

TOTAL ACRES
640 00

TOTAL AMOUNT $
1 280 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9125

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				P.P. Rental		481 12	962 24

APR 1966 GEOEX

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
05	13	66	05	12	67

DATE BILLED MO.	DAY	YR.
04	28	66

DATE DUE MO.	DAY	YR.
05	13	66

TOTAL ACRES
481 12

TOTAL AMOUNT $
962 24

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs, E. Grover
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9124

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	030	04				P.P. Rental		561 81	1 123 62

CERTIFICATE OF PURCHASE $ UNPAID BALANCE	BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
	05	13	66	05	12	67	04	28	66	05	13	66	561 81	1 123 62

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

TOTAL PENALTY AND INTEREST $

PENALTY AND INTEREST DISTRIBUTION	$

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO Arizona State Land Department
State Office Building
Phoenix, Arizona

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671
TUCSON, ARIZONA 85703
Area Code 602 Phone 623-0578
Geophysical Exploration Research Engineering

SUBJECT: DATE: May 3, 1966

2ND FOLD

Gentlemen:

Please be advised that we wish to cancel the following propsect permit applications:

No. 9023 Sec. 11, T15S, R10E, 640 acres
No. 9024 Sec. 12, T15S, R10E, 80 acres
No. 9025 Sec. 14, T15S, R10E, 640 acres
No. 9026 Sec. 15, T15S, R10E, 320.acres
No. 9124 Sec. 2, T15S, R10E, 561.81 acres
No. 9125 Sec. 3, T15S, R10E, 481.12 acres
No. 9126 Sec. 10, T15S, R10E, 640 acres

We very much appreciate your assistance in thismmatter, and we look forward to future good relations with your

Very truly yours,
HEINRICHS GEOEXPLORATION COMPANY

EGH:jc

1ST FOLD

PLEASE REPLY TO ——→ SIGNED

E. Grover Heinrichs
Vice President

In reply to the above message, this is to advise you that Prospecting Permits 9023, 9024, 9025 and 9026 were cancelled on April 14, 1966.

Prospecting Permits 9124, 9125 and 9126 will be cancelled on May 14, 1966.

RECEIVED MAY 2 1966 STATE LAND DEPT. PHOENIX, ARIZONA

MAY 1966 GEOEX

DATE May 5, 1966 SIGNED Walter V. Murphy, Supervisor, Leasing Division

SEND WHITE AND PINK COPIES WITH CARBON INTACT PINK COPY IS RETURNED WITH REPLY.

TO Arizona State Land Department

State Office Building

Phoenix, Arizona

HEINRICHS GEOEX
GEOPHYSICAL ENGINEERS TUCSON, ARIZONA

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671
TUCSON, ARIZONA 85703
Area Code 602 Phone 623-0578
Geophysical Exploration Research Engineering

SUBJECT: DATE: May 3, 1966

2ND FOLD

Gentlemen:

Please be advised that we wish to cancel the following propsect permit applications:

No. 9023 Sec. 11, T15S, R10E, 640 acres
No. 9024 Sec. 12, T15S, R10E, 80 acres
No. 9025 Sec. 14, T15S, R10E, 640 acres
No. 9026 Sec. 15, T15S, R10E, 320.acres
No. 9124 Sec. 2, T15S, R10E, 561.81 acres
No. 9125 Sec. 3, T15S, R10E, 481.12 acres
No. 9126 Sec. 10, T15S, R10E, 640 acres

We very much appreciate your assistance in this matter, and we look forward to future good relations with your

Very truly yours,
HEINRICHS GEOEXPLORATION COMPANY

EGH:jc

1ST FOLD

PLEASE REPLY TO ——→ SIGNED

E. Grover Heinrichs
Vice President

DATE SIGNED

SEND WHITE AND PINK COPIES WITH CARBON INTACT. PINK COPY IS RETURNED WITH REPLY.

DETACH THIS COPY–RETAIN FOR ANSWER

STATE LAND DEPARTMENT

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

April 28, 1966

APR 1966
GEOEX

P. P. Application No. 9124

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

$S\frac{1}{2}$; $SW\frac{1}{4}NE\frac{1}{4}$; $S\frac{1}{2}NW\frac{1}{4}$, Lot 2, Sec. 2 Twp. 15S Rge. 10E Acres 561.81
3 & 4

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

April 28, 1966

APR 1966
GEOEX

P. P. Application No. 9125

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

Lot 1-2; $S\frac{1}{2}NE\frac{1}{4}$; $S\frac{1}{2}$ Sec. 3 Twp. 15S Rge. 10E Acres 481.12

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

STATE LAND DEPARTMENT

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

April 28, 1966

P. P. Application No. 9126

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

All Sec. 10 Twp. 15S Rge. 10E Acres 640.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

March 30, 1966

Chapman, Wood & Griswold
110 Yale Blvd., S.E.
Albuquerque, New Mexico 87106

Attn: Mr. Gil Griswold

Re: Lease applications

Gentlemen:

Enclosed please find the following copies of information received this date from the State Land Department:

Lease Nos. 9023, 9024, 9025, 9026: 1 each
Rental Payment Statement
Prospecting Permit Bond
Letter re: P.P. Application

Do you want us to activate these leases by payment of the required rental, or shall we reapply for permits as previously discussed. We have had no experience in regard to double permits. My information from the Arizona Dept. of Mineral Resources is that this has been done and is acceptable by the state for one or two go arounds provided no other group is competing for the same ground. If someone else applies, my understanding is that you are notified by the State immediately and rental fee is then due or the ground is lost.

Please advise as soon as possible as the due date per the enclosed is April 13, 1966.

Very truly yours,
HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs, Vice President

pr
Encs;

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

March 29, 1966

MAR 1966
GEOEX

P. P. Application No. 9023

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

All Sec. 11 Twp. 15S Rge. 10E Acres 640.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

March 29, 1966

MAR 1966
GEOEX

P. P. Application No. 9024

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

$W\frac{1}{2}NW\frac{1}{4}$ Sec. 12 Twp. 15S Rge. 10E Acres 80.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

March 29, 1966

MAR 1966
GEOEX

P. P. Application No. 9025

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

All Sec. 14 Twp. 15S Rge. 10E Acres 640.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

STATE LAND DEPARTMENT

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

March 29, 1966

MAR 1966
GEOEX

P. P. Application No. 9026

Dear Applicant:

The following described land was open and available at the time your application was filed with the department.

N½ Sec. 15 Twp. 15S Rge. 10E Acres 320.00

A rental statement and bond forms are enclosed for your use. One copy of the bond and the rental per billing must be submitted on or before the due date as indicated in the statement.

If rental and bond are not returned to this office your application will automatically be denied.

STATE LAND DEPARTMENT

3-1-62
2-72

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs Geoexploration Co.
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9023

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				Rental		640 00	1 280 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE	BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
	04	13	66	04	12	67	03	29	66	04	13	66	640 00	1 280 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

TOTAL PENALTY AND INTEREST $

PENALTY AND INTEREST DISTRIBUTION	$

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

Heinrichs Geoexploration Co.
P. O. Box 5671
Tucson, Arizona 85703

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9024

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				Rental		80 00	160 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
04	13	66	04	12	67

DATE BILLED MO.	DAY	YR.
03	29	66

DATE DUE MO.	DAY	YR.
04	13	66

TOTAL ACRES
80 00

TOTAL AMOUNT $
160 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

Heinrichs Geoexploration Co.
P.O. Box 5671
Tucson, Arizona 85703

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9025

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				Rental		640 00	1 280 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
04	13	66	04	12	67

DATE BILLED MO.	DAY	YR.
03	29	66

DATE DUE MO.	DAY	YR.
04	13	66

TOTAL ACRES
640 00

TOTAL AMOUNT $
1 280 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

TOTAL PENALTY AND INTEREST $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

TO AVOID PAYMENT OF PENALTY AND INTEREST THIS PAYMENT MUST BE IN THE OFFICE OF THE STATE LAND DEPARTMENT ON OR BEFORE THE DUE DATE. DATE OF POSTAL STAMP NOT ACCEPTED AS DATE OF PAYMENT.

STATE OF ARIZONA

STATE LAND DEPARTMENT

STATE OFFICE BUILDING — PHOENIX, ARIZONA

STATEMENT

Heinrichs Geoexploration Co.
P.O. Box 5671
Tucson, Arizona 85703

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
08	9026

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
10	031	04				Rental		320 00	640 00

CERTIFICATE OF PURCHASE $ UNPAID BALANCE

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.
04	13	66	04	12	67

DATE BILLED MO.	DAY	YR.
03	29	66

DATE DUE MO.	DAY	YR.
04	13	66

TOTAL ACRES
320 00

TOTAL AMOUNT $
640 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-288.

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)

5% PENALTY OF RENTAL AMOUNT - - - - - $

TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)

10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $

TOTAL PENALTY AND INTEREST $

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - $

CASH RECEIVED $

BALANCE DUE OR OVERPAYMENT $

PENALTY AND INTEREST	DISTRIBUTION
$	

CERTIFICATE OF PURCHASE

C. P. DELINQUENT PAYMENTS: If installment amount is not paid on or before the date due as indicated on statement, interest on the delinquent installment amount, at the rate of 5% per annum, will be added.

LESSEE PLEASE NOTE:

In accordance with the provisions of A. R. S. Sec. 37-132, the State Land Commissioner has established the rental for State Lands included within the Lease number and for the rental Period as recorded on the face of this statement.

A. R. S. Sec. 37-288 Forfeiture of Leases — Extension of Payment. (Penalty and Interest)

"A Lessee violating any condition of the lease, shall forfeit such Lease and his rights thereunder and the commissioner shall proceed by proper action to cancel the Lease and take possession of the Land, or take such other steps as the interest of the state requires; Provided, that if the Lessee shall fail to pay the rent when due, the commissioner may in his discretion, extend the time for the payment thereof for an additional period not to exceed ninety (90) days, and shall in such case add to said rental a penalty of five (5) per cent and interest on such delinquent rent and penalty at the rate of ten (10) per cent per annum, until paid, which said delinquent rent, penalty and interest shall be a Lien on the improvements, crops and property on said land. . . ."

A. R. S. Sec. 37-214 Board of Appeals — Appeal from Commissioner or Board of Appeals. —

"An appeal from any final decision of the commissioner relating to classification or appraisal of lands or improvements may be taken to the board of appeals by any person adversely affected by such decision. The appeal shall be taken by giving notice thereof in writing to the commissioner within thirty (30) days from the date the decision appealed from is rendered. . . ."

PROSPECTING PERMIT BOND

P.P. 9023

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND

P.P. 9023

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND

P.P. 9024

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $1000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9024

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$1000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43

PROSPECTING PERMIT BOND

P.P. 9025

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND

P.P. 9025

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of **$2000.00** Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND P.P. 9026

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

7-31-61
3-43

By _____
Surety

PROSPECTING PERMIT BOND

P.P. 9026

KNOW ALL MEN BY THESE PRESENTS:

That we, _____,
as Principal, and _____,
a corporation organized under the laws of the State of _____,
with its principal office in the City of _____,
and duly authorized to transact surety business in the State of Arizona, as Surety, are held and firmly bound unto the State of Arizona for the use and benefit (1) of the State of Arizona, and (2) of any lessee, under a lease issued or to be issued by the State of Arizona covering the use of the surface of state land hereinafter described, as Obligee, in the full penal sum of $2000.00 Dollars, lawful money of the United States, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this _____ day of _____, 19____.

WHEREAS, the above bounden Principal is about to obtain from the State of Arizona a prospecting permit Number _____, covering the state land described as follows:

_____

_____

together with right of ingress and egress over state land described as follows:

_____

_____

_____ and,

WHEREAS, the Principal is required by law to file and maintain in force with the State Land Commissioner a bond conditioned as hereinafter set forth.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, That if the above bounden Principal shall promptly pay to the State of Arizona and lessee of the surface of state land covered by the aforesaid permit or across which the Principal exercises the right of ingress or egress, for any loss to State of Arizona and such Lessee for damage or destruction caused by the Principal, his agents or employees, to grasses, forage, crops and improvements upon such state lands and if the Principal shall, insofar as reasonably possible, restore the surface of the land described in the aforesaid permit to its former condition upon any partial or total relinquishment of such lands, or the cancellation or expiration of the permit other than by issuance of a mineral lease, then this obligation to be void; otherwise to be and remain in full force and effect.

PROVIDED, THE LIABILITY OF THE SURETY upon this bond shall be and remain in full force and effect for a period of one year from Date of Permit.

PROVIDED, that while this bond is issued for a period of one year from date of permit, it may be continued from year to year by Continuation Certificate signed by the Principal and Surety.

PROVIDED, regardless of the number of years this bond shall continue or be continued in force and of the number of premiums that shall be payable or paid, the Surety shall not be liable hereunder for a larger total amount, in the aggregate, than the penal sum of this bond.

PROVIDED FURTHER, the Surety named herein may cancel this bond and be relieved of any further liability hereunder by giving thirty (30) days notice, in writing, of its desire to do so to the Commissioner of the Land Department, of the State of Arizona, Phoenix, Arizona.

_____

_____

_____

By _____
Surety

7-31-61
3-43