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Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

Standard Electric Log
TYPE OF SURVEY

Well Test #1

Field

Company Sunstone Across

Location Sec 32 T17S, R27E.

County Cochise

State Arizona

Depth Datum Ground Level **Elev.**

Bottom Depth: Log 1000' **Driller** 1000'

Size Hole 13" TO 1000'

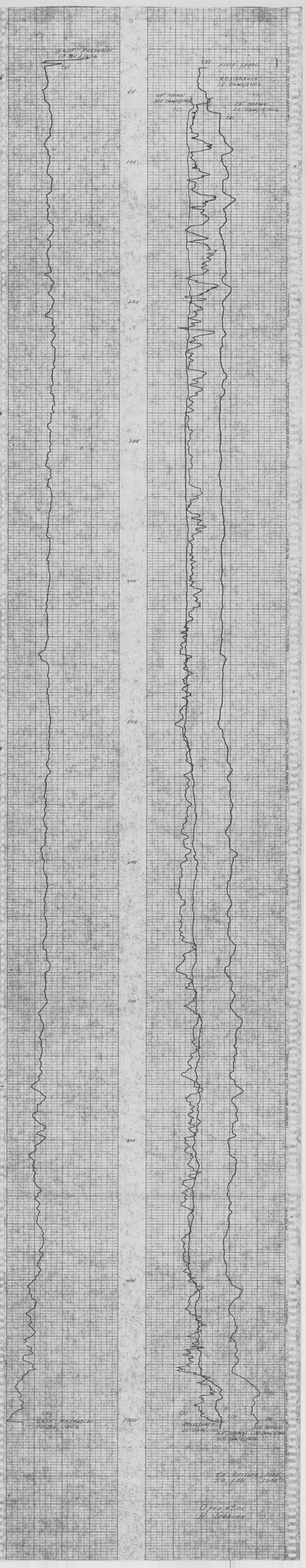
Mud: Kind Bentonite **Weight** 9.1

Viscosity 60 **Resistivity** 12 **°F.** 105 Bottom

Casing Data None

Remarks: Curve #1 16" Normal
Curve #2 70" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 **Observer** H. Johnson



Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

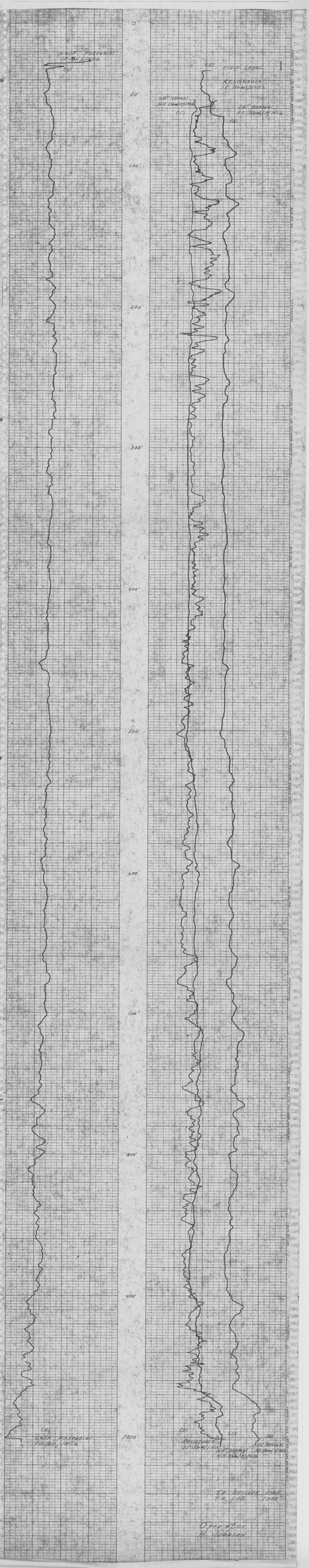
Standard Electric Log
TYPE OF SURVEY

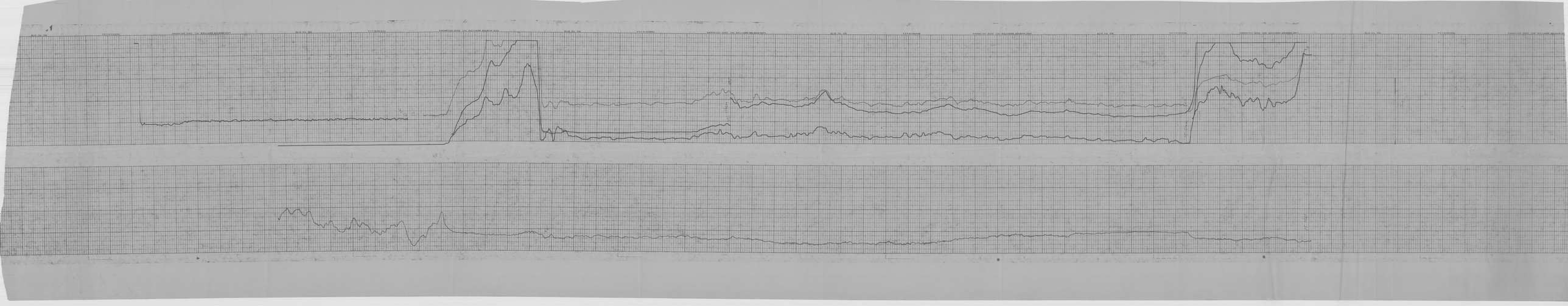
Well Test #1
Field
Company Sunzona Corpo.
Location Sec 32 T17S. R27E.
County Cochise
State Arizona

Depth Datum Ground Level **Elev.**
Bottom Depth: Log 1000' **Driller** 1000'
Size Hole 12" To 1000'
Mud: Kind Bentonite **Weight** 9.4
Viscosity 60 **Resistivity** 12 **°F.** 105 (Bottom)
Casing Data None

Remarks: Curve #1 16" Normal
Curve #2 64" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 **Observer** H. Johnson





Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

TYPE OF SURVEY: Standard Electric Log

Well Test #1

Field

Company Sunrise Agras

Location Sec 32 T17S. R27E.

County Cochise

State Arizona

Depth Datum Ground Level — **Elev.**

Bottom Depth: Log 1000' — **Driller** 1000'

Size Hole 15" To 1000'

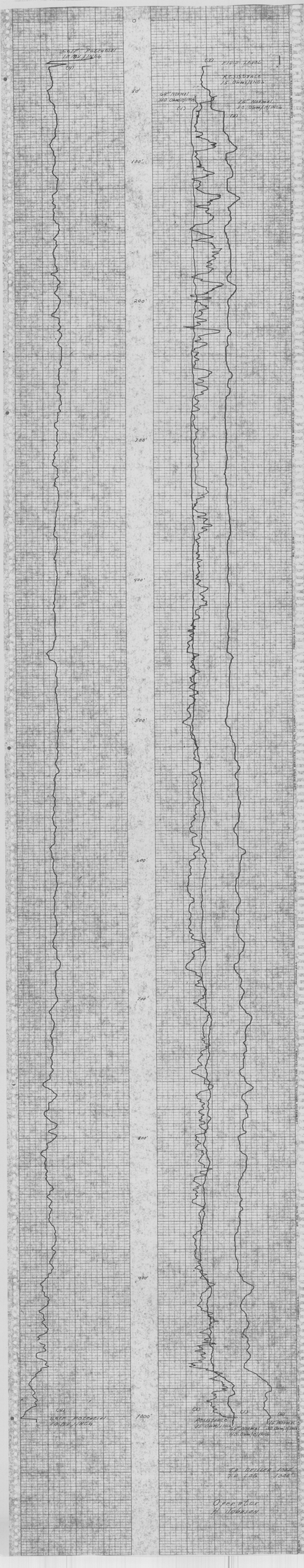
Mud: Kind Bentonite — **Weight** 9.1

Viscosity 60 — **Resistivity** 12 — **°F.** 105 bottom

Casing Data None

Remarks: Curve #1 64" Normal
Curve #2 16" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 — **Observer** H. Johnson



Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

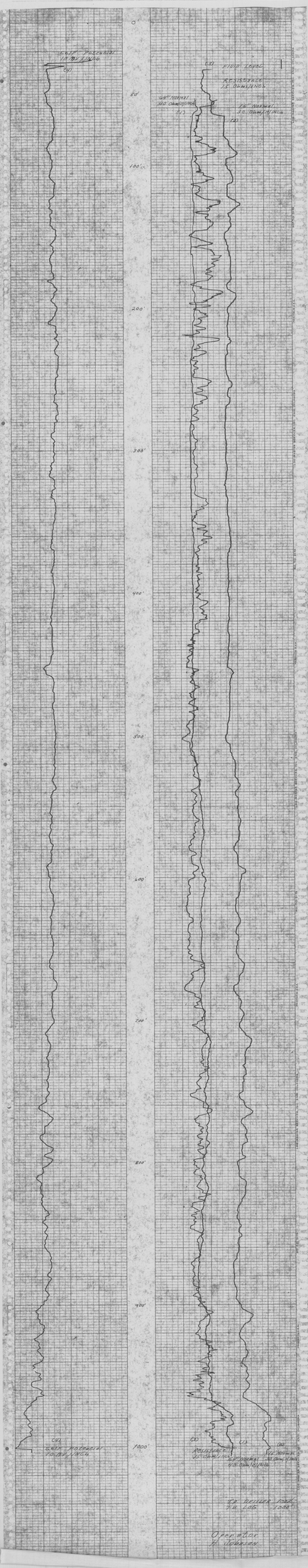
Standard Electric Log
TYPE OF SURVEY

Well Test #1
Field
Company Sunsone Corpn.
Location Sec 32 T17S. R27E.
County Cochise
State Arizone

Depth Datum Ground Level — **Elev.**
Bottom Depth: Log 1000' — **Driller** 1000'
Size Hole 9 5/8 To 1002'
Mud: Kind Bentonite — **Weight**
Viscosity 60 — **Resistivity** 12 — **°F.** 105 noisen
Casing Data None

Remarks: Curve #1 64" Normal
Curve #2 16" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 — **Observer** H. Johnson



Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

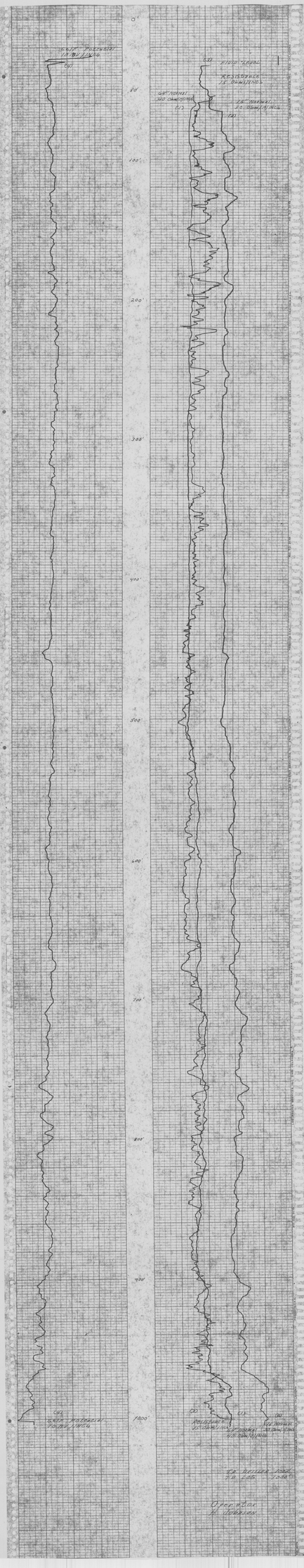
Standard Electric Log
TYPE OF SURVEY

Well	Test #1
Field	
Company	Sunzona Acres
Location	Sec 32 T17S. R27E.
County	Cochise
State	Arizona

Depth Datum	Ground Level	Elev.	
Bottom Depth: Log	1000'	Driller	1000'
Size Hole	15" To 1000'		
Mud: Kind	Bentonite	Weight	9.4
Viscosity	60	Resistivity	12 °F. 105 Bottom
Casing Data	None		

Remarks: Curve #1 64" Normal
Curve #2 16" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 Observer H. Johnson



~~960 - T.D. V.G.~~
~~900 - 920 Good~~
~~660 Good~~
~~590 - 600 "~~
~~450 - 460 V. Good~~

Good Zones
~~250 - 270~~
325 - 335
450 - 460
590 - 600
655 - 670
700 - 860 esp. 755 - 770
895 - 960
960 - T.D. V.G.

Loop -
3cc Sunizona
6cc San Mateo
1 drilled

LOOSE LEAF NO. 372
J. L. DARLING CORP.
WATERPROOF
Rite in the Rain

7-19-65

Willen

Should call to
check out report reception (?)
and get data

Clark - Grab Fred

Golder -
Call Barker
Engineers ~~Ass~~ Tstg Labs, Inc.
Phoenix

Zeisman of De Young

Waer

Blanton & Cole
for photos

622-6733

ESSO

Tom Gillingham - working
on 1st part of book

LOOSE LEAF NO. 372
J. L. DARLING CORP.
WATERPROOF
Rite in the Rain

7-19-65

Blanton & Cole $7.50 ea

for photos

Willer Trip

240

Begin mile 33894 8-4-65
End mile 34134

5:30 PM - 8-4-65
arrived at well site
drilling @ 750'. No andesite.
Test. down to about 200'.
Good sd below about 100'.
Below 200' looks like E (?)
as in Rdazona well.
Driller says he gets about
1'/min w/ 16,000 lbs. Occas.
1'-2' drilling break. Occas.
clay. He can't tell about
water. Plans to go to 1200'.

— Called Walt @ 6:00 PM —
Leave logger stand by
up to driller.
Come on home for
now.

LOOSE LEAF NO. 372
J. L. DARLING CORP.
WATERPROOF
Write in the Rain

Walt, call Anderson
Loggers 2:00 PM tomorrow

8-4-65
Start work @ 1:00 PM
Stop @ 9:00 PM

Willen 8-5-65

mileage start 34 147 (205) 12:00

" end 34 352 11:30

Samples 10 m sd - poorly std
fn - v crs, any
brn

10-40 cgl; 2mm ± sdy
cly.,

40-70 same

80-90 sdy cly

90-130 sd, mgr; cly 50%

140-190 sd, med gr - v crs;
some cgl; 40% cl.

200-240 sd, v crs w/
some cgl; becoming
80% cgl @ 240
3mm peb.

250-300 cgl, 3-5mm;
w/ some sd.

310-400 v crs sd w/
20% cgl as abv.
(volcanic peb.)
sl. cly.; v crs,
clean cgl @
320

X

X 410-580 cln cgl w/sl. sd.

590 - cgl, as abv, 50%; cly, slty, sdy, 50%

600 - 670 - cgl, rang frag, 2mm, mostly volcanics or metamor.

680-770 sd, vf-vcrs-cgl, ang frag, some clay @ 710-740

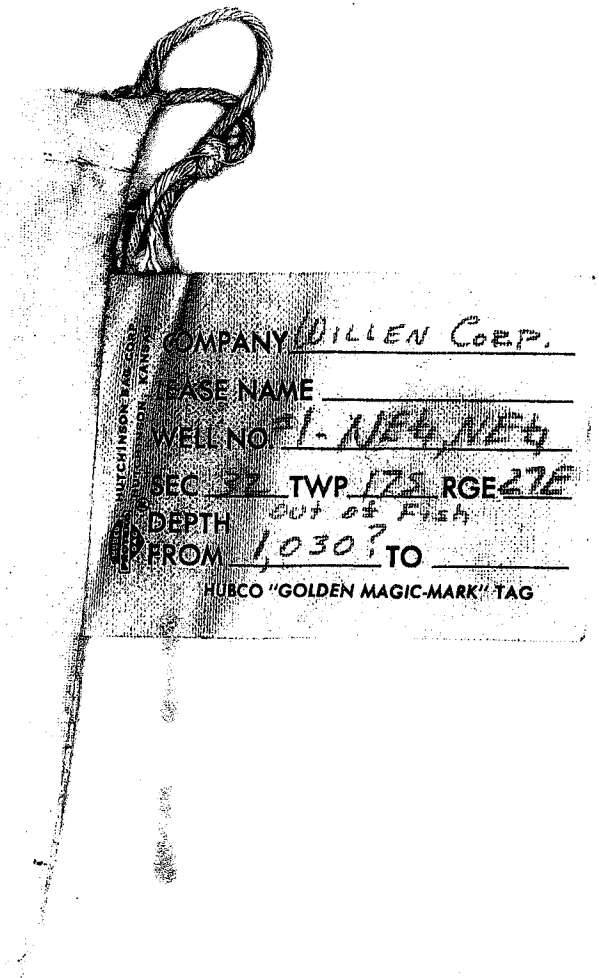
~~X 810 - sd, crs, frag w/ some f-med sd (40%)~~

X 780-810 vf sd.

820-990 - Same as @ 680-770

X 1000-1010 sd w/sl cgl, f-med gr, well rdd gtz gr., looks like water

Logging time - 2 trips in hole ~2½-3 hrs incl. rig up.


COMPANY Dillen Corp.
LEASE NAME
WELL NO. #1 - NE4, NE4
SEC. 32 TWP. 17S RGE. 27E
DEPTH Out of Fish
FROM 1,030? TO
HUBCO "GOLDEN MAGIC-MARK" TAG

MPANY Iowa Well

SE NAME [illegible]

L NO. [illegible]

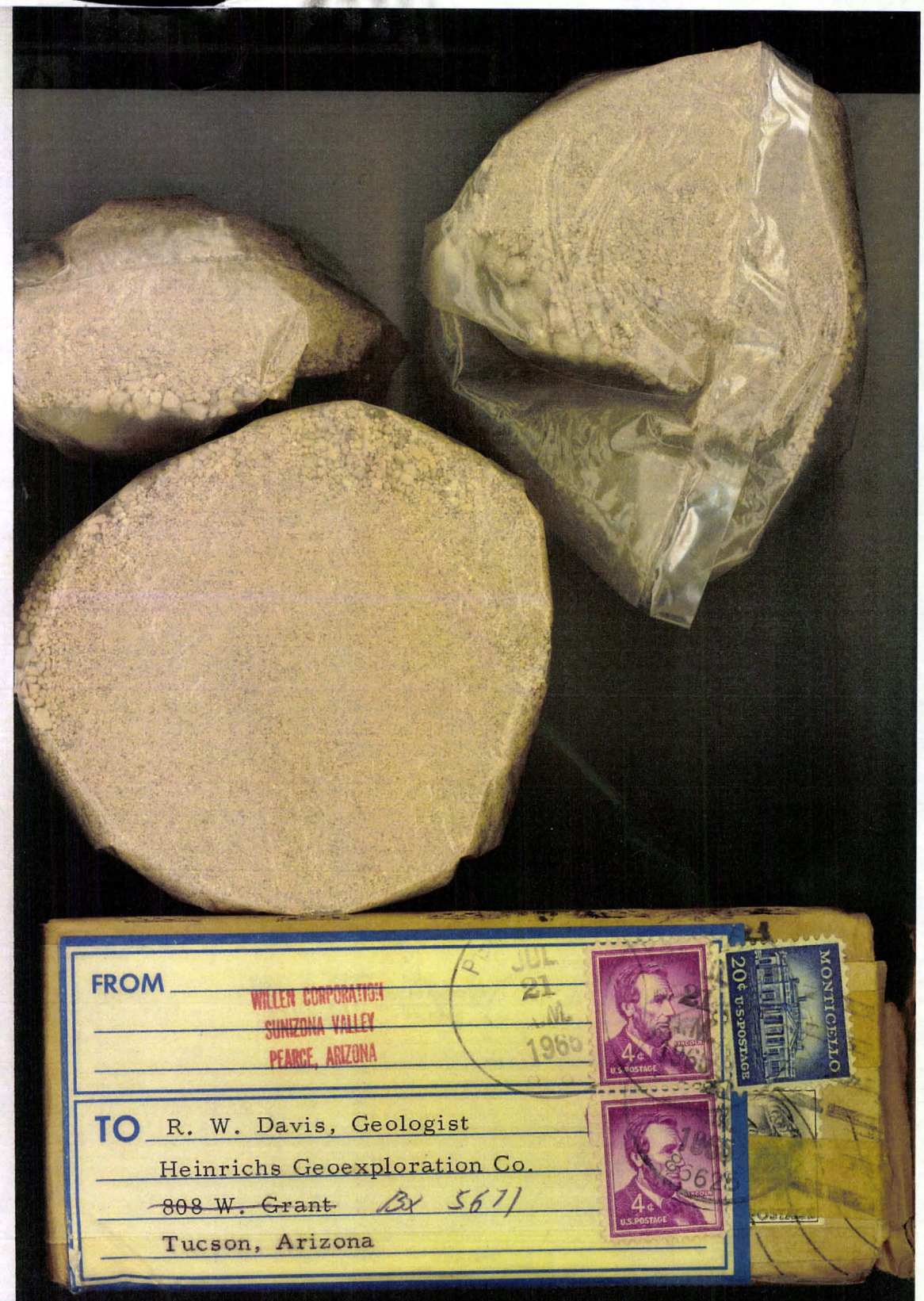
17 TWP 85 RGE 27E

TH

M [illegible] TO [redacted]

HUBCO "GOLDEN MAGIC-MARK" TAG

OMPANY Willen
ASE NAME 1st Well 8-4-65
LL NO.
32 TWP RGE
H
A 780 TO
UBCO "GOLDEN MAGIC-MARK" TAG


FROM
WILLEN CORPORATION
SUNIZONA VALLEY
PEARCE, ARIZONA
JUL 21 1969
TO R. W. Davis, Geologist
Heinrichs Geoexploration Co.
~~808 W. Grant~~ Bx 5671
Tucson, Arizona
4¢ U.S. POSTAGE
20¢ U.S. POSTAGE
MONTICELLO

ELECTRIC LOG

Owner: Willen Corp.
Location: 330' So. of No. Line
70' W. of E. Line
Sec. 22, T. 17S, R27E.
Elevation: 4402'
Datum: Ground Surface
Bottom Hole Temp.: 130°F

Logs:
S.P.
10 mv/in

Logged by: Southwestern Geophysics 8-8-65
Drilled by: "Doc" Anderson
Analyzed & Edited by: Heinrichs Geoexploration (R.W.D.)

Drilling Breaks

Logs:
Resistivity
12 m/in

64" Normal
40 m/in

16" Normal
30 m/in

Sample Lithology

SYMBOLS
Clay
Sandstone
Conglomerate

0
100
200
300
400
500
600
700
800
900
1000
1100

T Hard X

T Hard 1 Hard 80

T Hard X

T.D. 1008 (8-8-65)

Formation Change

Limestone
Limestone
W. Sand

Resistivity 12 m/in

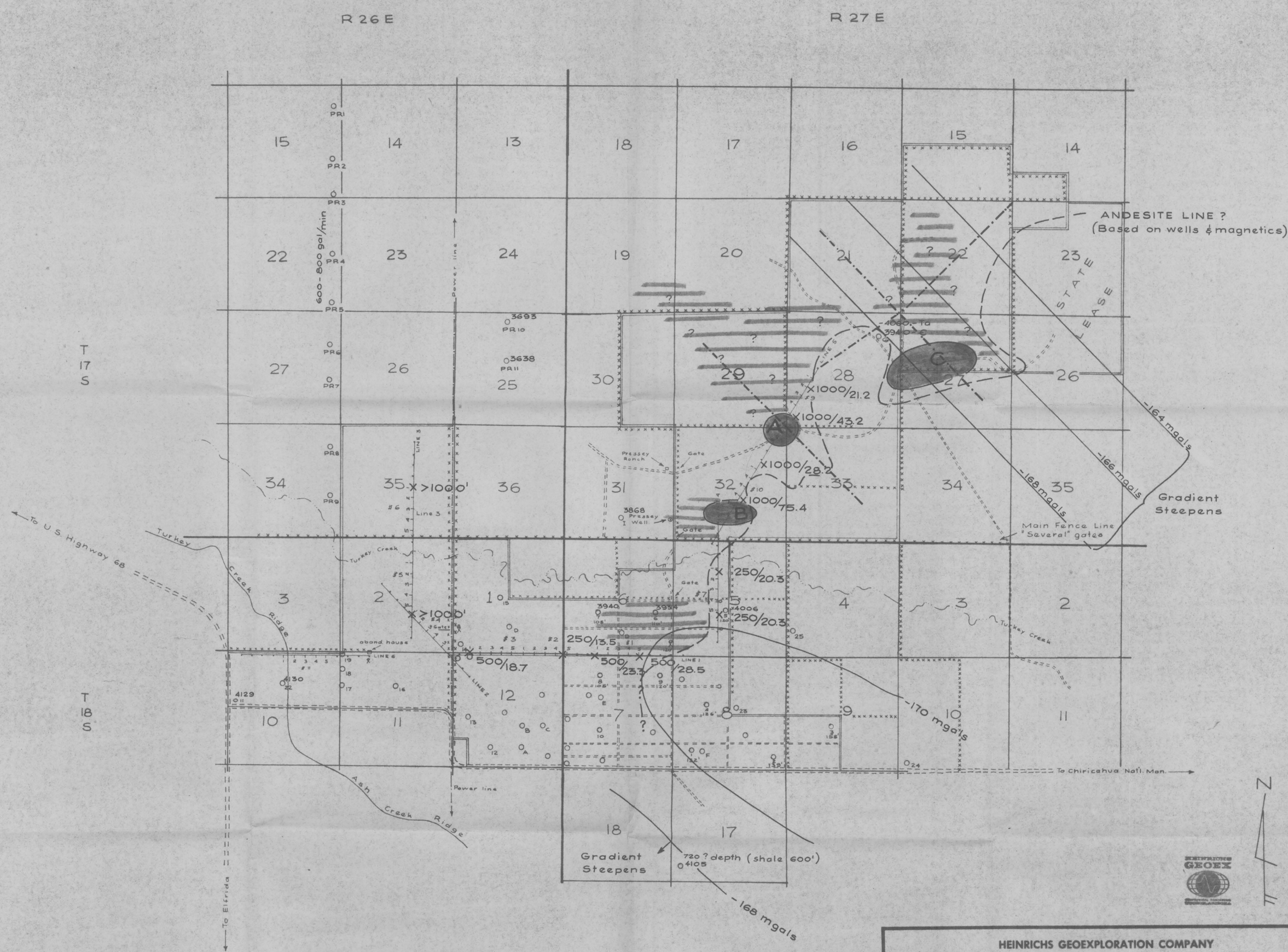
64" Normal 40 m/in

16" Normal 30 m/in

Sand Stone

Sandy

T.D. 1114 8-7-65



LEGEND

- ^{4020} Elevation above sea level of Basement
- X Analytical depth to resistivity 2d layer showing depth/apparent resistivity ($\rho'/2\pi$)
- A Possibly good water
- -170 mgals Approximate location of gravity contour from U.S.G.S. data
- Proposed resistivity lines
- Power Line
- Fence Line
- Windmill
- Well (PR. = Paul Riggs)
- Road

Horizontal control by brunton compass & chain on geophysical work

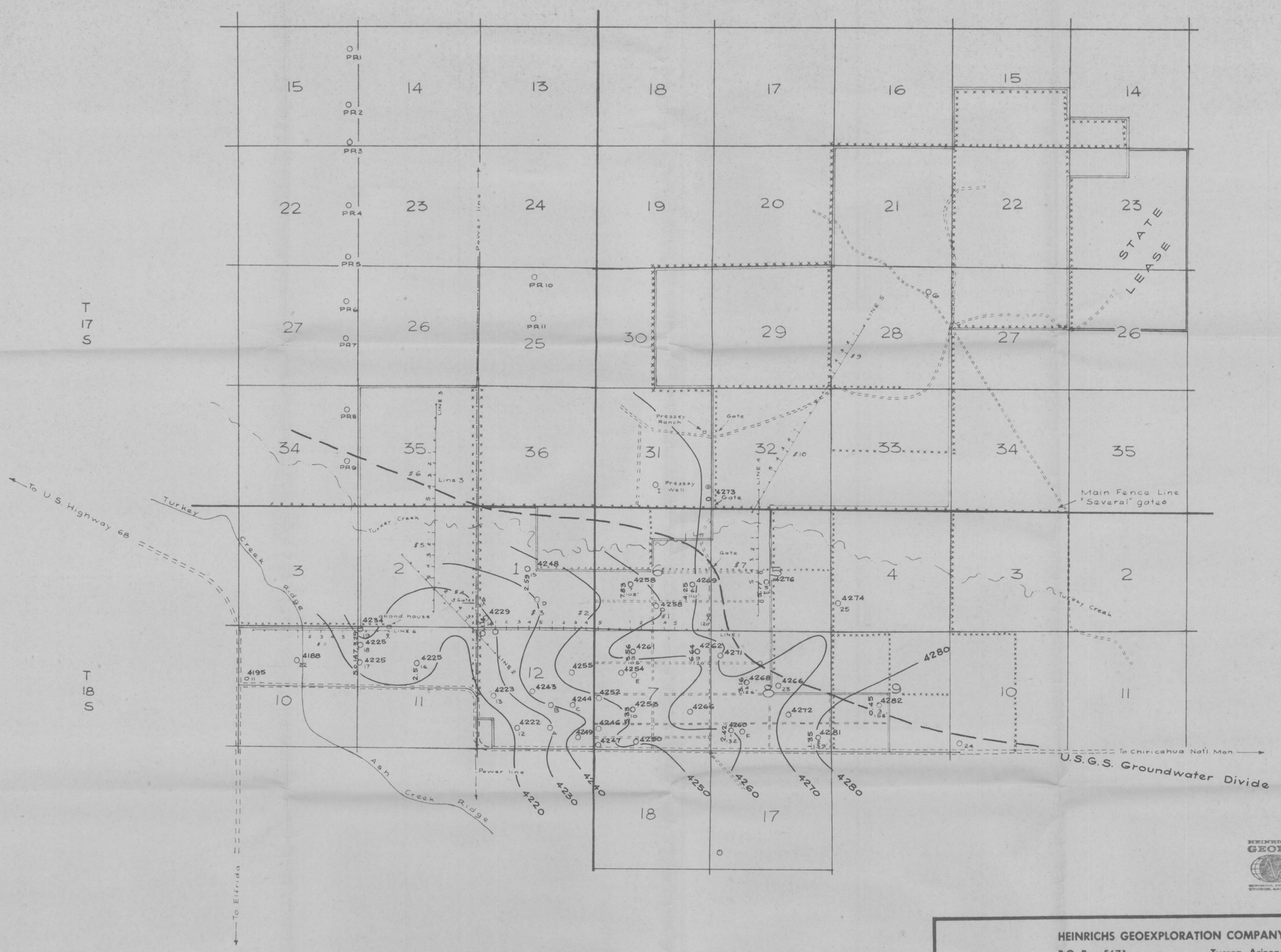
Willen Corp. Sunizona Acres Boundary

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

RECONNAISANCE
SUMMARY DATA
ELECTRICAL RESISTIVITY SURVEY
FOR
WILLEN CORPORATION

SUNIZONA ACRES PROJECT
Cochise County, Arizona

SCALE: 1" = 3000'	CONTOUR INTERVAL:	REVISIONS
	DATA BY: E. G. H., R.W.D.	7-10-65
DATE: APRIL 1962	SHEET OF	
DRAWN BY: I. B.	DRAWING NO.:	FILE:



Power Line

Fence Line

Windmill

Well (P.R. = Paul Riggs)

Road

4020 Elevation above Sea Level of Water Table

5.22 Specific Capacity of Well

Willen Corp. Sunizona Acres Boundary

Horizontal control by brunton compass & chain on geophysical work

HEINRICHS GEOEXPLORATION COMPANY

P.O. Box 5671 Tucson, Arizona

RECONNAISANCE
WATER TABLE CONTOUR MAP 1965
ELECTRICAL RESISTIVITY SURVEY
FOR
WILLEN CORPORATION

SUNIZONA ACRES PROJECT
Cochise County, Arizona

SCALE: 1" = 3000'	CONTOUR INTERVAL:	REVISIONS
	DATA BY: E. G. H., R.W.D.	7-10-65
DATE: APRIL 1962	SHEET OF	
DRAWN BY: I.B.	DRAWING NO.:	FILE:

Southwestern Geophysics, Inc.

PHOENIX, ARIZONA

Standard Electric Log
TYPE OF SURVEY

Well Test #1

Field

Company Sunsona Agras.

Location Sec 32 21TS, R27E.

County Cochise

State Arizona

Depth Datum Ground Level — **Elev.**

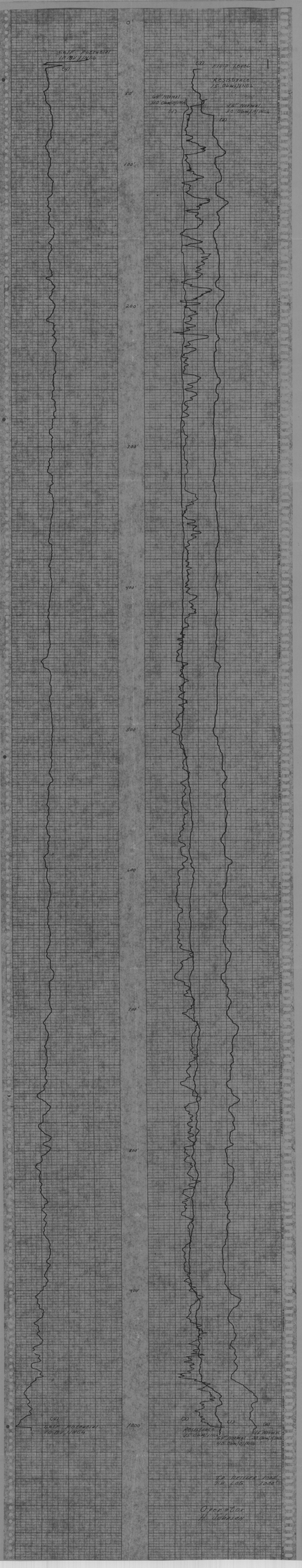
Bottom Depth: Log 1000' — **Driller** 1000'

Size Hole 15" To 1000'

Mud: Kind Bentonite — **Weight** 9.4

Viscosity 60 — **Resistivity** 12 — **°F.** 105 Bottom

Casing Date None

Remarks: Curve #1 16" Normal
Curve #2 64" Normal
Curve #3 Resistance
Curve #4 Self Potential

Date Aug. 5, 1965 — **Observer** H. Johnson