



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](mailto:inquiries@azgs.az.gov)

The following file is part of the Walter E. Heinrichs, Jr. Mining Collection

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PHILLIPS PETROLEUM COMPANY  
BARTLESVILLE, OKLAHOMA 74004

EXPLORATION AND PRODUCTION DEPARTMENT

Minerals Division

March 8, 1966

File: Ho-35-66MD

Re: Our MDD-100,131  
Momag Survey  
Pinal County, Arizona

CERTIFIED MAIL

Mr. E. Grover Heinrichs  
Vice President  
HEINRICHS GEOEXPLORATION COMPANY  
P. O. Box 5671  
Tucson, Arizona 85703

Dear Mr. Heinrichs:

Enclosed is a copy of Letter Agreement dated March 1, 1966, which has been accepted by us.

Also enclosed is our check (Check #885,061) dated March 7, 1966, in the amount of \$1,000.00 representing advance payment in accordance with the aforesaid Letter Agreement.

Yours very truly,

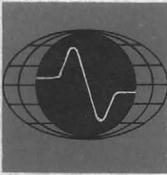
*C. N. Holmes*

C. N. Holmes, Manager

*by lch*

CNH:lah  
Enclosures

cc: D. C. Arnold



## HEINRICHS GEOEXPLORATION COMPANY

806 WEST GRANT ROAD, TUCSON, ARIZONA, 85703. P.O. BOX 5671. PHONE: (AREA CODE 602) 623-0578  
March 1, 1966

Mr. C. N. Holmes  
Phillips Petroleum Company  
784 Frank Phillips Building  
Bartlesville, Oklahoma 74004

Re: Proposed Momag Survey, Pinal County,  
Arizona

Gentlemen:

We are pleased to submit the following proposal for the above survey:

25 North-South Lines, 2 miles long each, 1/8 mile spacing, approximately 5 day at \$280.00 per day.  
Vehicle rental at \$10.00 per day and \$0.10 per mile for hand mag work.  
Hand mag, if necessary, at \$150.00 per day.  
Report, compilation, drafting, etc. at \$100.00 per staff day.  
Miscellaneous expenses, communications, etc. at cost.

Where the topography is too rough for the Momag, we will fill in with hand mag lines at the above figure. Total estimated amount for the project is \$3,000.00.

Client will be responsible for all trespass liability. Heinrichs Geoexploration Company agrees not to permit parties other than Phillips Petroleum Company employees or such person or persons as may be designated in writing by Phillips Petroleum Company, to have access to any maps, data, or information relating to the work performed hereunder, or to any data, maps, or reports showing or pertaining to the results interpreted by Heinrichs Geoexploration Company. All such information and data so obtained shall be kept in strictest confidence for the sole use and benefit of Phillips Petroleum Company. Heinrichs Geoexploration Company agrees that it will not permit any of its officers, employees or agents to disclose or divulge in any manner any such information, data, maps, reports, or location of areas being worked on by Heinrichs Geoexploration Company, to any third party other than such third party or parties as may be

Mr. C. N. Holmes

Page 2

March 1, 1966

designated by Phillips Petroleum Company.

We would appreciate receiving a \$1,000.00 deposit for mobilization, etc. If the foregoing meets with your approval, you may so indicate by signing, dating, and returning the enclosed carbon copy of this letter.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

  
E. Grover Heinrichs  
Vice President

APPROVED: C. N. Holmes 

DATE: March 9, 1966

cc: Mr. David C. Arnold

EGH:jc

April 1, 1966

Mr. Dave Arnold  
Phillips Petroleum Company  
P. O. Box 239  
Salt Lake City, Utah

Dear Dave:

Enclosed are one original and one copy of our report on the magnetic survey of the North Star Mine Area, Pinal County, Arizona. Original records and notes on the mobile and hand magnetometer are enclosed in the original report. Under separate cover, we are sending the following items: the original mylar contour map which also includes the hand mag profiles. Also, we are including our original work map. We are retaining in our file only the text of the enclosed report.

Mr. Harmon requested that an interpretation be furnished them on his completion of the geology and it is then suggested that he get together with our staff and discuss the geology and at that time we can prepare an interpretation.

An interpretation without the benefit of the geology would, in our opinion, be inadequate.

Statement will follow.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs  
Vice President & Field Manager

Enclosures: Original and 1 copy report  
cc: Mr. Gary Harmon  
Blue Mist Motel  
Florence, Arizona

EGH:jc

No. 813769

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Dave Arnold</i> <i>Phillips Petroleum Co</i>	POSTMARK OR DATE
STREET AND NO. <i>P.O. Box 239</i>	<i>4/1/66</i>
CITY, STATE, AND ZIP CODE <i>Salt Lake City Utah</i>	
If you want a return receipt, check which <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
<b>FEEs ADDITIONAL TO 20¢ FEE</b>	

POD Form 3800  
July 1963

**NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL**

(See other side)

1. Stick postage stamps to your article to pay:

**BASIC CHARGES**

Certified fee—20¢

Postage (first-class or airmail)

**OPTIONAL SERVICES**

Return receipt (10¢ or 35¢)

Deliver to addressee only—50¢

Special delivery

2. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, *leaving the receipt attached*, and present the article at a post office service window or hand it to your rural carrier. (*no extra charge*)
3. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, detach and retain the receipt, and mail the article.
4. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the back of the article by means of the gummed ends. Endorse front of article **RETURN RECEIPT REQUESTED**. (*Fees—10¢ or 35¢.*)
5. If you want the article delivered only to the addressee, endorse it on the front **DELIVER TO ADDRESSEE ONLY**. (*Fee—50¢*). Place the same endorsement in line 2 of the return receipt card.
6. Save this receipt and present it if you make inquiry.

No. 813768

*Phillips Petroleum*

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO

*Taryn ~~Long~~ Harmon*

POSTMARK  
OR DATE

STREET AND NO.

*Blue Mist Motel*

CITY, STATE, AND ZIP CODE

*Flome Arizona*

*4/1/66*

If you want a return receipt, check which

10¢ shows to whom and when delivered

35¢ shows to whom, when, and address where delivered

If you want delivery only to addressee, check here

50¢ fee

**FEEES ADDITIONAL TO 20¢ FEE**

POD Form 3800  
July 1963

**NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL**

(See other side)

1. Stick postage stamps to your article to pay:

**BASIC CHARGES**

Certified fee—20¢

Postage (first-class or airmail)

**OPTIONAL SERVICES**

Return receipt (10¢ or 35¢)

Deliver to addressee only—50¢

Special delivery

2. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, *leaving the receipt attached*, and present the article at a post-office service window or hand it to your rural carrier. (*no extra charge*)
3. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, detach and retain the receipt, and mail the article.
4. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the back of the article by means of the gummed ends. Endorse front of article **RETURN RECEIPT REQUESTED**. (*Fees—10¢ or 35¢.*)
5. If you want the article delivered only to the addressee, endorse it on the front **DELIVER TO ADDRESSEE ONLY**. (*Fee—50¢*). Place the same endorsement in line 2 of the return receipt card.
6. Save this receipt and present it if you make inquiry.

*Maps*

No. 108170

# RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Dave Gynell</i>		POSTMARK OR DATE  <i>4/1/66</i>
<i>Phillips Petroleum Co</i>		
STREET AND NO. <i>P.O. Box 239</i>		
CITY, STATE, AND ZIP CODE <i>Salt Lake City Utah</i>		
If you want a return receipt, check which <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom when, and address where delivered		If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
<b>FEEs ADDITIONAL TO 20¢ FEE</b>		

POD Form 3800  
July 1963

**NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL**

(See other side)

1. Stick postage stamps to your article to pay:

**BASIC CHARGES**

Certified fee—20¢

Postage (first-class or airmail)

**OPTIONAL SERVICES**

Return receipt (10¢ or 35¢)

Deliver to addressee only—50¢

Special delivery

2. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, *leaving the receipt attached*, and present the article at a post office service window or hand it to your rural carrier. (*no extra charge*)
3. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, detach and retain the receipt, and mail the article.
4. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the back of the article by means of the gummed ends. Endorse front of article **RETURN RECEIPT REQUESTED**. (*Fees—10¢ or 35¢.*)
5. If you want the article delivered only to the addressee, endorse it on the front **DELIVER TO ADDRESSEE ONLY**. (*Fee—50¢*). Place the same endorsement in line 2 of the return receipt card.
6. Save this receipt and present it if you make inquiry.

# INSTRUCTIONS TO DELIVERING EMPLOYEE

Deliver *ONLY* to addressee

Show address where delivered

*(Additional charges required for these services)*

## RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)

*Phillips*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

*Wayne Fairbairn*

DATE DELIVERED

SHOW WHERE DELIVERED (only if requested)

*4-5-1966*

*Phillips*

POST OFFICE DEPARTMENT  
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID  
PAYMENT OF POSTAGE, \$300



EASTERN  
SEALS  
FIGHT CRIPPLING

POSTMARK OF  
DELIVERING OFFICE



INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

REGISTERED NO.

NAME OF SENDER

HEINRICHS GEOEXPLORATION COMPANY

CERTIFIED NO.

108170

STREET AND P. O. BOX  
808 W. Grant Road • P. O. Box 5671

Tucson, Arizona 85703

INSURED

CITY, STATE, AND ZIP CODE (Area 602) 62 78

POD Form 3811 Sep. 1963

STATEMENT

April 7, 1966

Phillips Petroleum Co.  
P. O. Box 239  
Salt Lake City, Utah

Attn: Mr. Dave Arnold

Re: Momag Survey  
North Star Mine Area  
Pinal County, Arizona

3/15, 16, 17, 22: 4 days Momag @ \$280.00/D	1,120.00
Report: 14-1/2 staff days @ \$100.00/D	1,450.00
Maps, postage, communications	<u>34.59</u>
	\$2,604.59
Less: Advance	<u>1,000.00</u>
	\$1,604.59

BILLING

CLIENT Phillips Petrol

BILLING NO. 1

AREA Ariz?

TYPE OF WORK Money

DATE	CHARGE	AMOUNT
3/15	1 day	
16	1 day	
17	1 day	
22	1 day	
		280-
		<del>165.00</del>
		1120.00

*Office 3/11*

VEHICLE RENTAL: \_\_\_\_\_  
MILEAGE: \_\_\_\_\_

EXPENSES: LIVING & TRAVEL

*Bk 21204 7068*

MAPS *93-38x6 3-18x13 4-31x57 1-26x51-1 210 e104 21.00*

*Sept 1-31x57 = 1767 120.20 2.40*

MISC *Postage 4.65 4.65*

PHONE *Cost 4.95 6.54*

REPORT: 14 1/2 day 2100 - 145000? ? 1450.00  
TOTAL HOURS: 234 1/2 =

REMARKS, ETC: \_\_\_\_\_

TOTAL 2604.59?  
*- Less - 1,000 -*  
*Advance*

# Phillips Petrol ✓

1	2	3	4	5	6	7	8	
				field	office			
1	3/21	Don				8		
2		Baumgardner				8		
3								
4	22	Don		7 1/2		1		
5		Baumgardner		7 1/2		1		
6								
7								
8	23	Don				8		
9	24	Don				8		
10	25	Don				8		
11								
12	24	Chris				1		
13	23	✓				1		
14	25	✓				1		
15	28	✓				1		
16	29	✓				2		
17	30	✓				1		
18								
19	29	Tenny				8		
20	30	Tenny				8		
21	28	Salyer				7		
22	31	Tenny				6		
23	3/31	Chris				1		
24	4/1	Salyer				1 1/2		
25						9 7 1/2		
26								
27		Don	✓	40 1/2	✓			
28		Baumgardner	✓	16 1/2	✓			
29		Chris	✓	10	✓			
30		Tenny		22	✓			
31		Salyer		8 1/2	✓			
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Phillips Petrol

monog

3/6-3/19

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40								

3/15  
16  
17

1 day  
1  
1

3 days 280-

1 more day 3/22

Office closed 3/19 8 hrs

Postage

465

Phone  
200  
200  
45

# Phillips Petrol

*Monday*

1	2	3	4	5	6	7	8
					<i>Fuel</i>	<i>off</i>	
1	<i>3/15</i>	<i>Day</i>			<i>11</i>	<i>#</i>	
2		<i>Business</i>			<i>11</i>		
3							
4	<i>16</i>	<i>Day</i>			<i>12</i>		
5		<i>90</i>			<i>12</i>		
6							
7	<i>17</i>	<i>Day</i>			<i>11</i>		
8		<i>90</i>			<i>11</i>		
9							
10							
11	<i>18</i>	<i>Day</i>				<i>8</i>	
12							
13							
14							
15			<i>Day</i>			<i>12</i>	<i>✓</i>
16			<i>for Business</i>			<i>31</i>	<i>✓</i>
17							
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**Memo**

~~Postage to Phillips~~

~~2.00~~

~~1.35~~

~~1.10~~

4-1-66

~~\$4.55~~

~~A~~

Charges to  
Phillips Pet.  
Postage

2.10

1.35

1.20

---

4.65

4/1/66

CREW & EXPENSE STATEMENT

WEEK ENDING 3-19 1966

NAME OF PROJECT Phillips Petrol

CREW CHIEF DAN

ADDRESS OFFICE

TYPE OF WORK MONAG

ENTER ALL TIME & ALL EXPENSES FOR EACH MAN

DATE	NAME	HOURS					TOTAL	VEHICLES # MILES	CLIENT EXPENSES			WORK ACCOMPLISHED	PHONE	REMARKS	GEOEX EXPENSES
		G.P.	TR.	C.	E-M	OTHER			MOTEL	MEALS	OTHER				
SUN															
MON.															
14															
TUES.	DA JB	7½ 7½	3½ "			11 11	4 *	101 138				Drive Monag to Job Site 9 Miles MAG TRAVERSE		1 flat	
15															
WED.	DA JB	9 9	3 "			12 12	4 *	62 138				RAN 20 MI Monag TRAVERSE		1 flat	
16															
THURS.	DA JB	7½ 7½	3½ "			11 11	4 *	110 138				RAN 8 MI Monag TRAVERSE		2 Flats	
17															
FRI.	DA JB			8		8						Preparative Records			
18															
SAT.															
19															

CODE: G.P. - GEOPHYSICS, i.e. I.P., E-M, ETC.

TR. - TRAVEL TIME

C - COMPUTING

E-M - EQUIPMENT MAINTENANCE

OTHER - PLEASE EXPLAIN

PLEASE USE THIS SPACE FOR ANY NOTES, MESSAGES, OR EXPLANATIONS YOU FEEL ARE NEEDED.

404 \* Personal Auto (Dan)

CREW & EXPENSE STATEMENT

WEEK ENDING 3-27 1966  
 NAME OF PROJECT NORTH STAR - Phillips  
 CREW CHIEF DAN  
 ADDRESS OFFICE

TYPE OF WORK MOMAG

ENTER ALL TIME & ALL EXPENSES FOR EACH MAN

DATE	NAME	HOURS					TOTAL	VEHICLES # MILES	CLIENT EXPENSES			WORK ACCOMPLISHED	PHONE	REMARKS	GEOEX EXPENSES
		G.P.	TR.	C.	E-M	OTHER			MOTEL	MEALS	OTHER				
SUN															
<del>21</del>	<del>DA</del> <del>JB</del>														
22	DA JB	3 1/2 3 1/2	4 4	1		8 1/2 8 1/2	5 129					From Cross Tim 6 Mi MOMAG TRAVERSE			
23	DA JB			8		8						BALANCING RECORDS			
24	DA			8		8						STILL WORKING on MOMAG BASE MAP. UGH!!			
25	DA			8		8						FINISHED Prelim. Work Sheet.			
26															
27															
28															

CODE: G.P. - GEOPHYSICS, i.e. I.P., E-M, ETC.  
 TR. - TRAVEL TIME  
 C - COMPUTING  
 E-M - EQUIPMENT MAINTENANCE  
 OTHER - PLEASE EXPLAIN

PLEASE USE THIS SPACE FOR ANY NOTES, MESSAGES, OR EXPLANATIONS YOU FEEL ARE NEEDED.

March 25, 1966

Mr. Gary Harmon  
Blue Mist Motel  
Florence, Arizona

Dear Gary:

Enclosed is a preliminary work sheet of the total intensity magnetics run in the North Star Area, Pinal County Arizona. We will send a finalized copy including all vertical intensity data along immediately after the drafting phase is completed.

Sincerely yours,

HEINRICHS GEOEXPLORATION CO.

E. Grover Heinrichs  
Vice President

cc: Mr. David C. Arnold  
Phillips Petroleum Co.  
Minerals Division  
P. O. Box 239  
Salt Lake City, Utah w/o work sheet

(Phillips Petroleum) F 3/18/66

GARY HARMON 1 & 2 <sup>copies</sup> reports  
original notes

P.O. Box 239  
S.L.C.

Blue 868 5712

Mist

Motel

Florence

275 7638

Phillips Petroleum file

3/14/66

GARY HARMON

~~896 297~~

~~895~~

~~896 7451 U-16~~

Tucson

S. 1/2 M. P. 118

SIGN says N. STAR Mine →

Desert Brown Chev. sedan UTAH plates

Dave ARNOLD

S. L. C. UTAH

GARY HARMON

stay @ Blue Mist Motel

Florence

868 5712

*Confidential*

February 28, 1966

Phillips Petroleum Company  
Minerals Division  
P. O. Box 239  
Salt Lake City, Utah

*C.N. HOLMES*  
Attn: Mr. ~~David C. Arnold~~

*Proposed*  
Re: Momag Survey, Pinal County, Ariz.

Gentlemen:

We are pleased to submit the following proposal for the above survey:

*25 North-South* *2 miles long ea.*  
*17* East-West Lines,  $1/8$  mile spacing, approximately  
5 days @ \$280.00 per day  
Vehicle Rental at \$10.00 per day and \$.10 per mile ✓  
for Hand Mag work.  
Hand Mag, if necessary, @ \$150.00 per day ✓  
Report, compilation, drafting, etc. @ \$100.00 per staff  
day ✓  
Misc. expenses, communications, etc. at cost. ✓

Where the topography is too rough for the Momag, we will fill in with Hand Mag lines at the above figure. Total estimated amount for the project ~~is~~ \$3,000.00.

Client will be responsible for all trespass liability. *move to sentence*

We would appreciate receiving a \$1,000.00 deposit for mobilization, etc. If the foregoing meets with your approval, you may so indicate by signing, dating, and returning the enclosed carbon copy of this letter.

*Confidential*

Very truly yours,  
HEINRICHS GEOEXPLORATION COMPANY

APPROVED:

E. Grover Heinrichs, Vice President

By \_\_\_\_\_ Date \_\_\_\_\_

*C.C. Dave Arnold*

March 1, 1966

Mr. C. N. Holmes  
Phillips Petroleum Company  
784 Frank Phillips Building  
Bartlesville, Oklahoma 74004

Re: Proposed Momag Survey, Pinal County,  
Arizona

Gentlemen:

We are pleased to submit the following proposal for the above survey:

25 North-South Lines, 2 miles long each, 1/8 mile spacing, approximately 5 day at \$280.00 per day.  
Vehicle rental at \$10.00 per day and \$0.10 per mile for hand mag work.  
Hand mag, if necessary, at \$150.00 per day.  
Report, compilation, drafting, etc. at \$100.00 per staff day.  
Miscellaneous expenses, communications, etc. at cost.

Where the topography is too rough for the Momag, we will fill in with hand mag lines at the above figure. Total estimated amount for the project is \$3,000.00.

Client will be responsible for all trespass liability. Heinrichs Geoexploration Company agrees ~~not~~ to permit parties other than Phillips Petroleum Company employees or such person or persons as may be designated in writing by Phillips Petroleum Company, to have access to any maps, data, or information relating to the work performed hereunder, or to any data, maps, or reports showing or pertaining to the results interpreted by Heinrichs Geoexploration Company. All such information and data so obtained shall be kept in strictest confidence for the sole use and benefit of Phillips Petroleum Company. Heinrichs Geoexploration Company agrees that it will not permit any of its officers, employees or agents to disclose or divulge in any manner any such information, data, maps, reports, or location of areas being worked on by Heinrichs Geoexploration Company, to any third party other than such third party or parties as may be

Mr. C. N. Holmes

Page 2

March 1, 1966

designated by Phillips Petroleum Company.

We would appreciate receiving a \$1,000.00 deposit for mobilization, etc. If the foregoing meets with your approval, you may so indicate by signing, dating, and returning the enclosed carbon copy of this letter.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs  
Vice President

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

cc: Mr. David C. Arnold

EGH:jc

DAVID C. ARNOLD  
*Mining Geologist*

DC

PHILLIPS PETROLEUM COMPANY ✓  
MINERALS DIVISION ✓

P.O. BOX 239

SALT LAKE CITY 10, UTAH

322

DAVIS 2-5661  
EXT. 40

Lead Officer

PO 239

Memo of Survey  
+ Notes  
Tenacity

Phillips Petroleum Co.

2/25/66

Dave Arnold was in:

T 7 S  
R 10 E

Sec 5

7, 8, 9

16, 17, 18

17  
51

~~1, 2, 3~~

4/0 as  
Arnold  
Leather

Topog prelim.

17 E-W lines 3 miles  
51 Lines/lines LONG

1/8 Mile spacing

Have to  
"This is Grey"  
price schedule.

They flag some lines

pretty blurry in parts

little hard mag added

5-10 days

7-5 days field @

280  
5

office @

1400

100.00 / STAFF day

.500

Send confirming

1900 Total estimate

when top is too rough for vehicle - we will  
fill in with hard mag less @ 15000  
p/day.

Per Dave

Total est approx \$ 3000 -

Approval

1,000 now Velocity 1200 & 124