

Amended Location

SUBMIT IN TRIPLICATE\*

(Other instructions on  
reverse side)Form approved.  
Budget Bureau No 42 R1425.UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Solar Petroleum, Inc.

## 3. ADDRESS OF OPERATOR

1660 Lincoln Street, Suite 1500, Denver, Colorado 80264

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

At proposed prod. zone

10' FNL

2630' FWL

2580

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14 miles NE of Shiprock

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

10'

## 16. NO. OF ACRES IN LEASE

2560

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

900'

## 19. PROPOSED DEPTH

1100

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5241 G.L.

## 22. APPROX. DATE WORK WILL START\*

9-30-80

## 23.

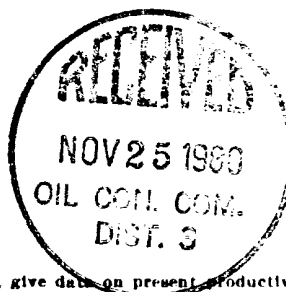
## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2	8 5/8	23#	60'	20 sx
6 3/4	4 1/2	10.5#	1100'	200 sx

Drilled to top of Gallup with air. Mud up. Drill Gallup to approximately 1300'. Run logs. Run 4 1/2" casing and cement to the surface. Perforate and frack producing zone. Run rods and tubing, set pumping unit. Put on production. If well is dry will plug and abandon as per USGS instructions. Blow out preventor will be installed and checked daily.

RECEIVED

SEP 16 1980

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24

SIGNED

TITLE

Agent

DATE

8-13-80

(This space for District or Field office use)

AS AMENDED

APPROVAL DATE

APPROVED BY

TITLE

DATE

NOV 24 1980  
JAMES F. SIMS  
DISTRICT ENGINEER

\*See Instructions On Reverse Side

NSC  
1281

Form C-107  
Revised 10-1-78

Scale: 1"=1000'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR  
Solar Petroleum, Inc.
3. ADDRESS OF OPERATOR  
Suite 1500, 1660 Lincoln St, Denver
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 80' PNL and 2530' PNL  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Move location	<input type="checkbox"/>	<input type="checkbox"/>

5. LEASE 14-20-003-2034  
Navajo "2" #147
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME  
Navajo "2"
9. WELL NO.  
147
10. FIELD OR WILDCAT NAME  
Horseshoe Gallup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 9, T. 11, R. 17
12. COUNTY OR PARISH 13. STATE  
San Juan New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5242 GL

(NOTE: Report results of multiple completion or zone change on Form 9-331.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Location was moved due to the original well being staked on an existing pipeline.



Subsurface Safety Valve: Manu. and Type

Set @ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *J. F. Sims* TITLE Agent

DATE 11-7-80

APPROVED  
AS AMENDED  
CONDITIONS OF APPROVAL, IF ANY.  
NOV 24 1980  
*James F. Sims*  
JAMES F. SIMS  
DISTRICT ENGINEER

(This space for Federal or State office use)

TITLE

DATE

\*See Instructions on Reverse Side

*MM OCA*



*Operator Co,*

P.O. BOX 819  
Bloomfield, New Mexico 87413

(505) 632-3385

*Before entering lands you will be required to notify:  
Compliance Office, Navajo Tribe  
Navajo Land Administration Office  
P.O. Box 410  
Montezuma Creek, Utah 84534  
June 23, 1980  
Phone: (801) 651-3208*

*Nellie Jackson*

District Engineer  
United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Dear Sir:

Solar Petroleum, Inc. Suite 1500, 1660 Lincoln Street, Denver,  
Colorado 80264, proposes to stake the below listed oil wells on the  
Navajo Reservation in San Juan County, New Mexico.

1. Section 1,	1320 FSL, 2640 FWL	T31N, R17W
2. Section 2,	1320 FNL, 1320 FEL,	T31N, R17W
3. Section 4,	760 FNL, 1320 FEL,	T31N, R17W
4. Section 4,	1420 FNL, 1320 FEL,	T31N, R17W
5. Section 4,	1320 FWL, 1320 FEL,	T31N, R17W
6. Section 9,	5' FNL, 2640 FEL,	T31N, R17W
7. Section 9,	1320 FNL, 1320 FEL,	T31N, R17W
8. Section 10,	2600 FWL, 2640 FNL,	T31N, R17W
9. Section 10,	2640 FNL, 1320 FWL,	T31N, R17W
10. Section 10,	1320 FSL, 1320 FWL,	T31N, R17W

*E. J. Elledge*  
L.S. 100

*6-25-80*

JFE/jr  
C.C. Sherwin Artus  
Solar Petroleum, Inc.  
Denver, Colo. 80264

Yours truly,

*J. F. Elledge*  
Joe F. Elledge

*A 15 day waiting period.  
prior to staking will be  
required in order to give  
BLL an opportunity to  
voice any objections they  
may have to the location*

*wait on designation  
of operator before staking  
Sherwin will call when  
ready.*



P.O. BOX 819  
Bloomfield, New Mexico 87413

(505) 632-3385

*Montezuma Creek  
Ray Padon  
Western Energy Inc  
67, 30 p.m. pad*

July 1, 1980

Compliance Office-Napajo Tribe  
Napajo Land Administration Office  
P. O. Box 410  
Montezuma Creek, Utah 84534

*move 10' off line*

Dear Sirs:

Solar Petroleum, Inc., Suite 1500, 1600 Lincoln Street, Denver, Colorado, 80264, will stake the below listed wells around July 11, 1980.

- |                 |           |                                      |       |      |
|-----------------|-----------|--------------------------------------|-------|------|
| • 1. Section 1, | 1320 FSL, | 2640 FWL,                            | T31N, | R17W |
| 2. Section 2,   | 1320 FNL, | 1320 FEL,                            | T31N, | R17W |
| 3. Section 4,   | 760 FNL,  | 1320 FEL,                            | T31N, | R17W |
| 4. Section 4,   | 1420 FNL, | 1320 FEL,                            | T31N, | R17W |
| 5. Section 4,   | 1320 FWL, | 1320 <del>FSL</del> , <sup>FEL</sup> | T31N, | R17W |
| • 6. Section 9, | 105 FNL,  | 2640 FEL,                            | T31N, | R17W |
| • 7. Section 9, | 1320 FNL, | 1320 FEL,                            | T31N, | R17W |
| 8. Section 10,  | 2600 FWL, | 2640 FNL,                            | T31N, | R17W |
| 9. Section 10,  | 2640 FNL, | 1320 FWL,                            | T31N, | R17W |
| 10. Section 10, | 1320 FSL, | 1320 FWL,                            | T31N, | R17W |

As per the attached copy of the letter to the U.S.G.S., surveying and staking approval has been obtained by Solar Petroleum, Inc.

If further information is needed please contact me at the letterhead address or phone number.

Sincerely yours,

\_\_\_\_\_  
Joe P. Elledge

\_\_\_\_\_  
Joe P. Elledge

Joe P. Elledge

JPE/jr

U.S.G.S.-Farmington

Solar Petroleum, Inc.-Denver, Colo.

1.



# United States Department of the Interior

GEOLOGICAL SURVEY  
P.O. Box 959  
Farmington, New Mexico 87401

\_\_\_\_\_  
(DATE)

Company Hicks Enco, Inc.

Well Name Navajo "F" 147

5' from North Line and 2545' East of West line  
Location Sec. 9, T31N - R13W

Lease No. 14-20-603-2034

We, the undersigned, have contacted the following Navajo grazing lessees and/or surface occupants at the above oil and gas well location.

NAME	Census No.	Name	Census NO.
Mary Noland	30556	Mary Taylor	31411
Bessie Kuhn Martin	24303	Paul Buck	30421
James Rrank	74548	Ruth Lee	30423
Dan Shorthair	29952	Jonah King	31874
David Shorthair	95272	Lula King	30113
John Hay	30559	Lee Sandoval	30111
Jimmy C. Begay	31694	Henry Sandoval	30112
Dan Hayes	30598	Luke Sandoval	30464
Cato Hayes	24076	Harry Sandoval	30475
Susie Ann Phillips	26086	Wilson Phillips	30470

We have determined that no problem exists with the grazing lessee and/or surface occupants at this location.

\_\_\_\_\_  
U. S. Geological Survey

\_\_\_\_\_  
Compliance Officer, Navajo Tribe

\_\_\_\_\_  
President, Hicks Enco, Inc.

**First National Bank**  
 1000 Bank Building, 1000 Bank Building  
 1000 Bank Building, 1000 Bank Building  
 1000 Bank Building, 1000 Bank Building

November 5, 1979

1022

TOP  
LEFT  
CORNER  
OF

~~NOT NEGOTIABLE~~

DELUXE - FORM WVC-3 V-3

DATE	DESCRIPTION	AMOUNT	ACCT. NO.	REMARKS
	For damages resulting from drilling of Navajo Wells			
	"F" 147 - 5' S of NL & 2540' E of WL - Sec. 9, T31N R17W			
	"F" 148 - 1200' FWL & 1410' FWL - Sec. 9 T31N - R 17W			
	"G" 225 - 2455' FWL & 1230' FSL - Sec. 1 T31N - R 17W			
	Access Road Sec. 9			

ENCLOSURE

[illegible]





# HICKS ENCO, INC.

P. O. Box 176      PHONE: (505) 327-3788  
FARMINGTON, NEW MEXICO 87401

March 31, 1980

*- To settle damages or grazing*  
Mr. Donald Benally  
Counsellor at Law  
P. O. Box 2219  
Shiprock, New Mexico 87420

Dear Sir:

The drilling we proposed has been postponed indefinitely.

In November, 1979 we reached an agreement with Donald Badoni of the Navajo Tribal Land Administration as to the amount of damages we would cause by drilling three wells, Navajo F 147, Navajo F 148 and Navajo G 225. The amount was \$1,585.00. The people holding grazing permits would not agree as to how this amount was to be distributed. A check for this amount was issued to the Navajo Land Administration. Copies of the check, letter and receipt are attached.

I understand they will distribute this money when the permittees reach an agreement.

Sincerely,

  
J D Hicks

JDH/11

Enclosures

*Wilson-Phillips  
land - 4-1-80*

SOLAR PETROLEUM, INC.

Navajo "F" #147

OPERATION PLAN

- I. Location: C-9-31N-17W  
Field: Horseshoe Gallup  
Elevation: 5241
- II. Geology:  
A. Formation Tops: Surface: Mancos  
Gallup: 1020  
Sanastee: 1065  
B. Logging Program: I-ES and Gamma Ray-Density logs.  
C. Coring Program: None
- III. Drilling:  
A. Mud Program: Low solid mud-surface to T.D.
- IV. Materials:  
A. Casing Program: 

<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. &amp; Grade</u>
12½	60'	8 5/8	23# H-40
6 3/4	1200'	4½	10.5# K-55

  
B. Float Equipment: Casing will be run with a regular guide shoe and float collar. Pipe will be centralized through pay zones.  
C. Tubing: If commercial, 2 3/8" 4.7# EUE tubing will be utilized for the completion string.  
D. Wellhead Eqpt. A series 600 flanged tree will be used to accommodate 4½" casing and the 2 3/8" tubing string.
- V. Cementing: The Gallup interval will be cemented conventionally with 100 sx 65/35 pozmix cement, 2% gel and 100 sx Class "B" neat. Loss circulation additives will be used if needed.

**SOLAR PETROLEUM, INC.**

Navajo "F" #147

1. Existing Roads

Refer to Map which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during this period.
2. Planned Access Roads

The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed 20 feet (20') in width. Upon completion all roads will be adequately drained to control said erosion. Drainage facilities may include ditches, water bars, culverts or other measures necessary to insure proper drainage.
3. Location of Existing Wells

See Attached map.
4. Location of Tank Batteries, Production facilities, and production gathering and service lines

If this well is productive, it would be oil. The facilities would be a wellhead, pumping unit and flow lines to an existing central battery.
5. Location and Type of water supply.

Produced water from the Navajo "F" lease will be used.
6. Source of Construction Materials

All construction material will be purchased and hauled to the location. No additional materials will be required.
7. Methods of Handling Waste Materials.
  - a. Cuttings will be buried 3' below surface.
  - b. Drilling fluid will be left in a fenced, open pit to evaporate.
  - c. Portable toilet to be provided.
  - d. Trash will be burned in burn pit then buried.
  - e. After pit area is dry, cuttings will be pushed into pit and sub soil will be placed on any remaining fluid and cutting then top soil will be placed over both pit and location area.
8. Ancillary Facilities

No camps or airstrip will be associated with this project.
9. Well Site Layout

Refer to attached plat.
10. Plans for Restoration of the surface

After completion of the proposed project, the

location will be cleaned and leveled.  
The location will be left in such a  
condition that will enable reseeding  
operations to be carried out as controlled  
by the regulatory body.

11. Other Information

The terrain is flat and is covered with  
grass.

12. Operator's Representative

Elledge Consulting & Production Company  
P. O. Box 819  
Bloomfield, New Mexico 87413

Harold Elledge-President  
Office Phone: 632-3385  
Home Phone: 632-8476

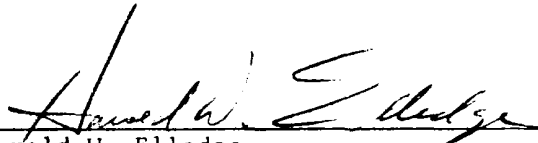
OR

Solar Petroleum, Inc.  
1660 Lincoln Street  
Suite 1500  
Denver, Colorado 80264  
Phone: 303-861-9561

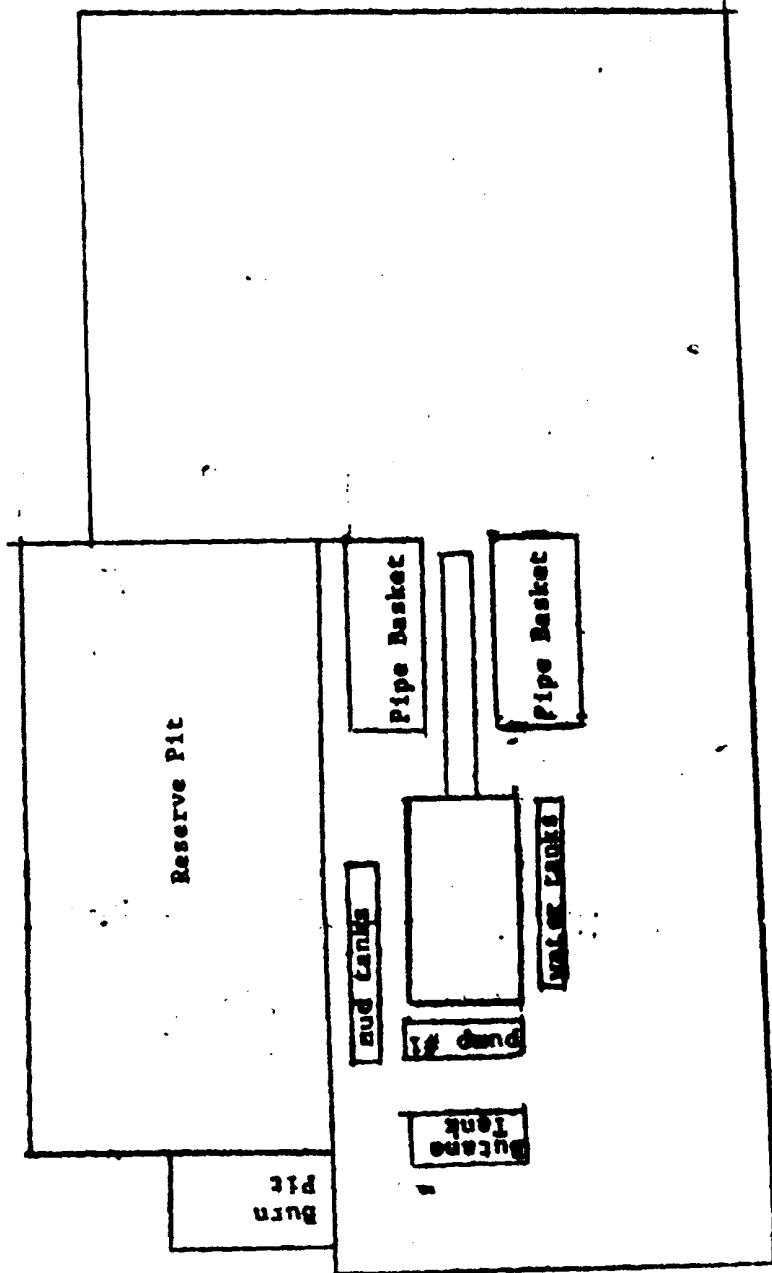
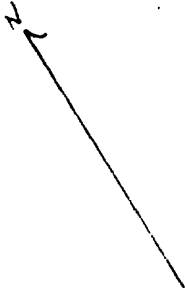
13. Certification

I hereby certify that I, or persons under  
my supervision, have inspected the proposed  
drill site and access route, that I am  
familiar with the conditions which presently  
exist; that the statements made in this plan  
are, to the best of my knowledge, true and  
correct; and, that the work associated with  
the operations proposed herein will be  
performed by Solar Petroleum, Inc. and its  
contractors and sub-contractors in conformity  
with this plan and the terms and conditions  
under which it is approved.

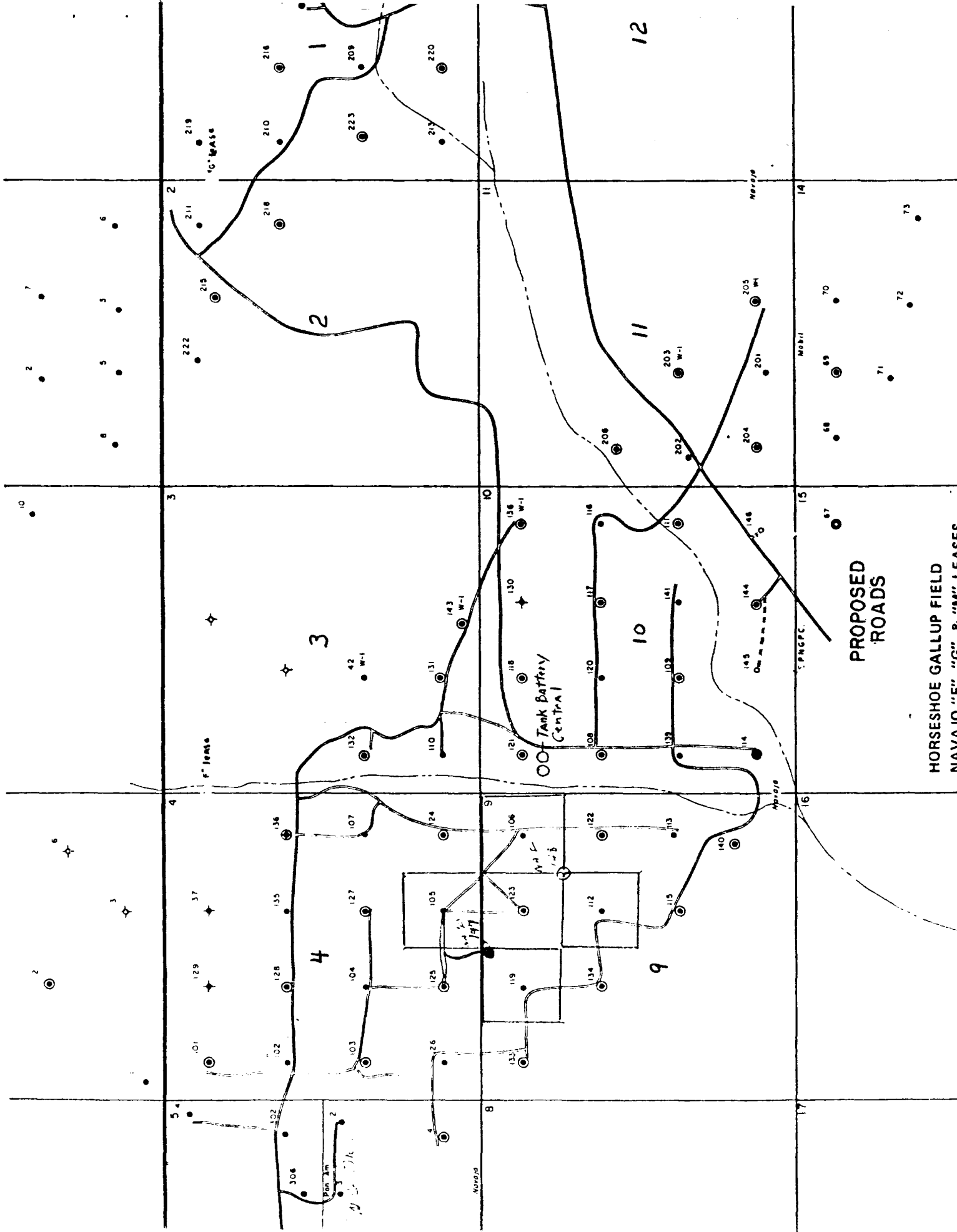
Date: August 13, 1980.

  
Harold W. Elledge

NAVAJO "F" #147

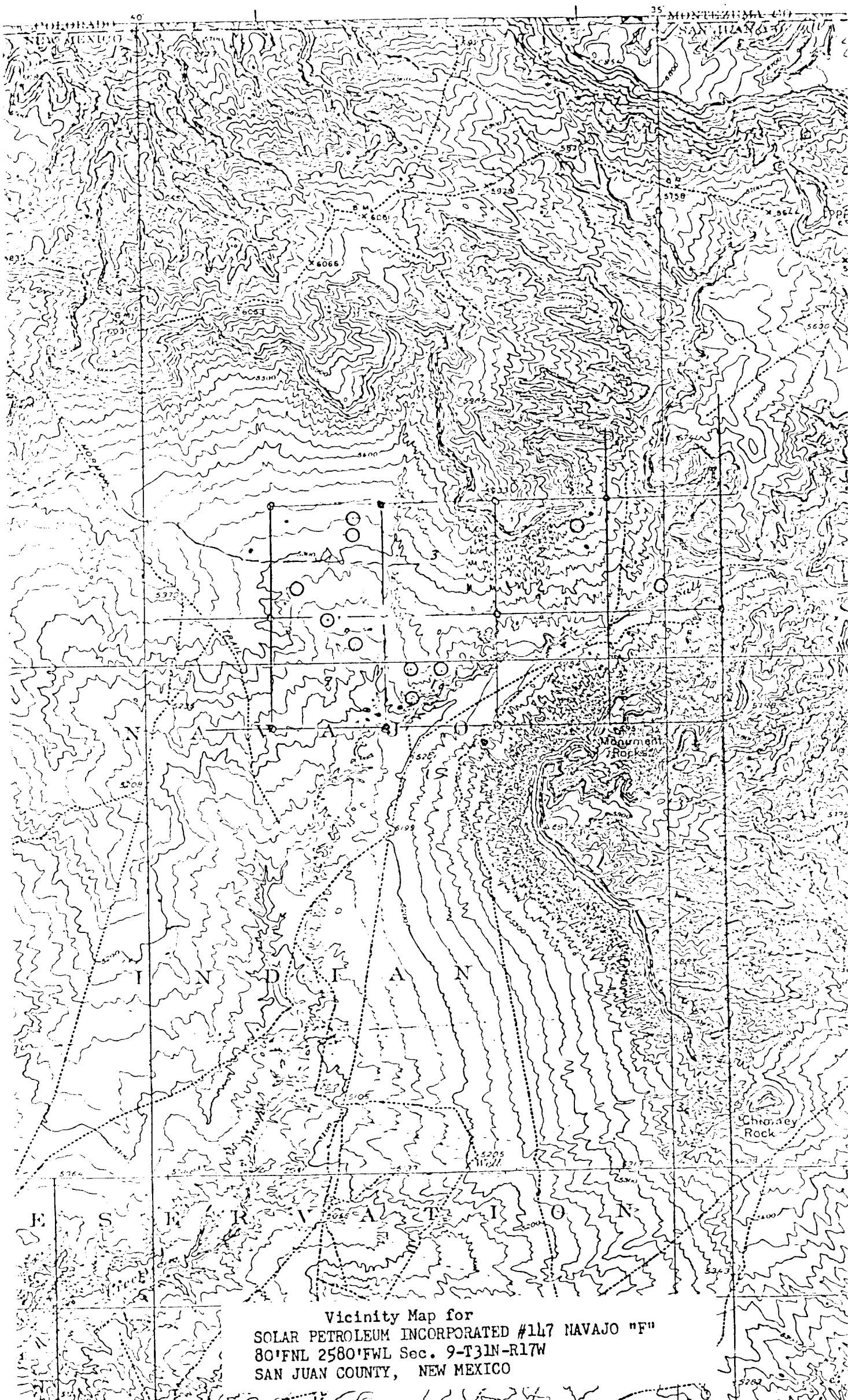


*07/11/74 Line*



PROPOSED  
ROADS

HORSESHOE GALLUP FIELD  
NAVAJO "F", "G", & "M" LEASES



Vicinity Map for  
SOLAR PETROLEUM INCORPORATED #1147 NAVAJO "F"  
80°FNL 2580°FWL Sec. 9-T31N-R17W  
SAN JUAN COUNTY, NEW MEXICO

November 20, 1974

MEMORANDUM

TO : Bruce Anderson, Division of Archaeology, National Park Service,  
P.O. Box 728, Santa Fe, New Mexico 87501

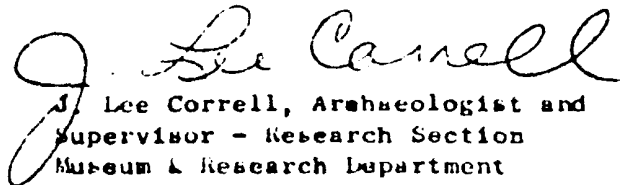
FROM : J. Lee Correll, Archaeologist and Supervisor of Research Section,  
Museum and Research Dept., The Navajo Tribe

SUBJECT: Archaeological Clearance - Associated Royalties Lease, 10 Miles  
North of Shiprock, New Mexico. Handled by Engineering & Production  
Service, Farmington, New Mexico

Pursuant to the request of Mr. J. D. Hicks of the Engineering & Production Service Company of Farmington, New Mexico, accompanied by him, I examined the area held under lease by Associated Royalties. The region is something of a big sink, relatively flat with gravel mounds about the periphery. The area is criss-crossed by existing access roads, and there are a number of operating oil wells. Those areas examined, all in Township 31 N, Range 17 W, were:

Section	3 - W 1/2 only
"	4 - All of Section
"	5 - E 1/2 only
"	9 - All except the NW 1/4
"	10 - All of Section
"	11 - W 1/2 only

Other than one Navajo family who maintains a dwelling within the area, no evidence of either prehistoric or historic occupancy was noted, and archaeological clearance is hereby recommended.

  
J. Lee Correll, Archaeologist and  
Supervisor - Research Section  
Museum & Research Department  
The Navajo Tribe

CC: ✓ J. D. Hicks  
Martin A. Link  
File  
Chrono