

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 St. Suite 1500, Denver, Colorado 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1330' FSL, 1330' FWL
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
14 miles NE of Shiprock

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
1330'

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
900'

19. PROPOSED DEPTH
930'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5213 G.L.

22. APPROX. DATE WORK WILL START*
9-20-80

5. LEASE DESIGNATION AND SERIAL NO.
30-095-24705
14-20-603-2034

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Navajo "F"

8. FARM OR LEASE NAME
Sub of Indians

9. WELL NO.
153

10. FIELD AND POOL, OR WILDCAT
Horseshoe Gallup

11. SEC. T., R. M., OR BLE. AND SURVEY OR AREA
S-10, T31N, R17W

12. COUNTY OR PARISH
San Juan

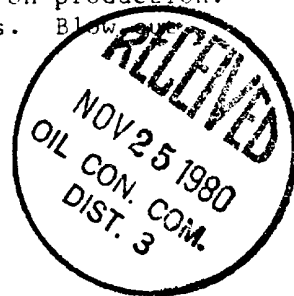
13. STATE
N.M.

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#	1200'	200 sx

This action is subject to administrative appeal pursuant to 50 C.F.R. 290.

Drill 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. Blowout preventor will be installed and checked daily.



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 *[Signature]* TITLE _____ Agent _____ DATE 8-13-80

(This space for Federal or State office use)

APPROVED AS AMENDED

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *[Signature]* DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

JAMES F. SIMS
DISTRICT ENGINEER

MEXICO
OILS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-187
Revised 10-1-71

All distances must be from the outer boundaries of the Section.

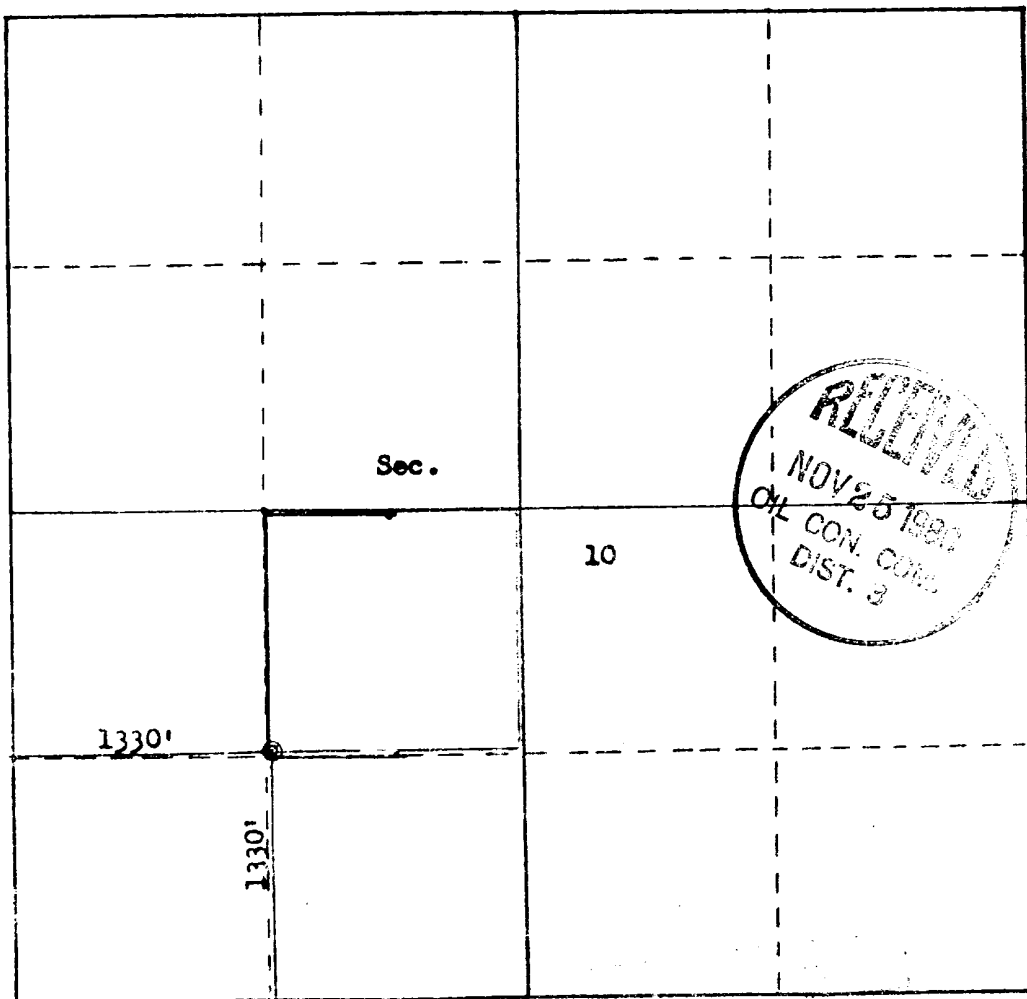
SOLAR PETROLEUM, INCORPORATED			Lease Navajo "F"		Well No. 153
Unit Letter K	Section 10	Township 31N	Range 17W	County San Juan	
Actual Footage Location of Well:					
1330 feet from the South		line and 1330 feet from the West		line	
Ground Level Elev. 5213	Producing Formation Gallup	Pool Horseshoe		Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: Haward W. Ellidge
Position: Agent
Company: Solar Petroleum, Inc.
Date: August 12, 1980

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: August 21, 1980
Registered Professional Engineer and Land Surveyor:
Fred B. Kerr, Jr.
Certificate No. 3950



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. Sherwin 6-25-80
L.S.A.S.

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

Yours truly,

Joe F. Elledge
Joe F. Elledge

A 15 day waiting period
prior to staking will be
required in order to give
BIA 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

*Mexico Road
Rag Radio
Western Valley Inc.
\$7.50 per foot*

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, 1660 Lincoln Street, Denver,
Colorado, 80264, will stake the below listed wells around July 15, 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 FNL ,
FNL | T31N, | R17W |
| • 6. Section 9, | 106 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

JPR/jr

C.O. U.S.G.S.-Farmington

Solar Petroleum, Inc.-Denver, Colo.

SOLAR PETROLEUM, INC.

Navajo "F" #153

OPERATION PLAN

- I. Location: K-10-31N-17W
Field: Horseshoe Gallup
Elevation: 5213 G.L.

II. Geology:

- A. Formation Tops: Surface: Mancos
Gallup: 840
Sanastee: 880

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. & 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" #153

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.

No arrangement for water had been made at this time.
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 low sandhills covered with
grass and sagebrush.

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

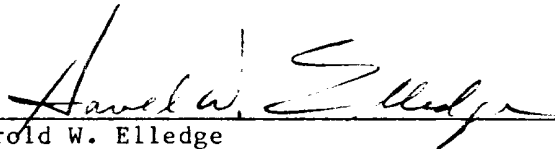
OR

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

13. Certification

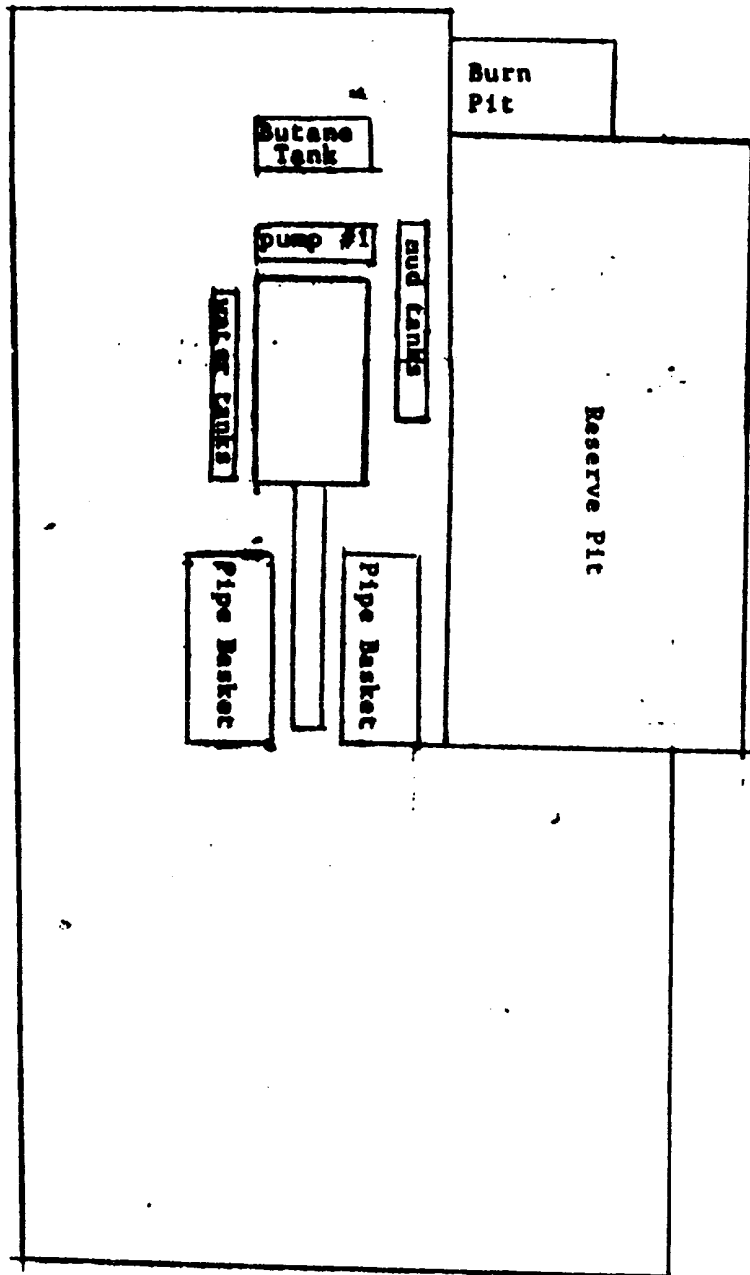
I hereby certify that I, or persons under
my supervision, have inspected the proposed
drill site and access route, that I am
familiar with the conditions which presently
exist; that the statements made in this plan
are, to the best of my knowledge, true and
correct; and, that the work associated with
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.

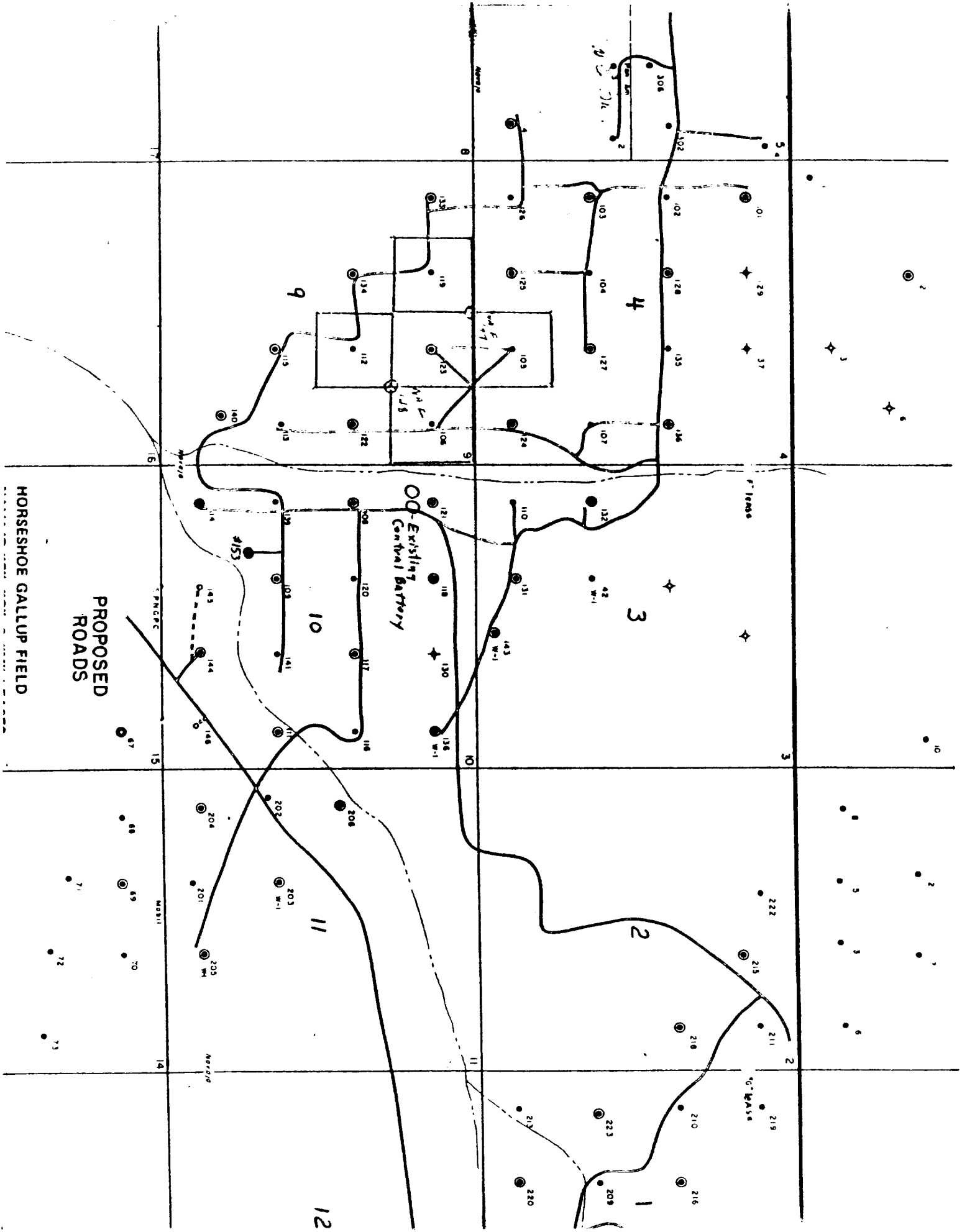
Date: August 13, 1980.

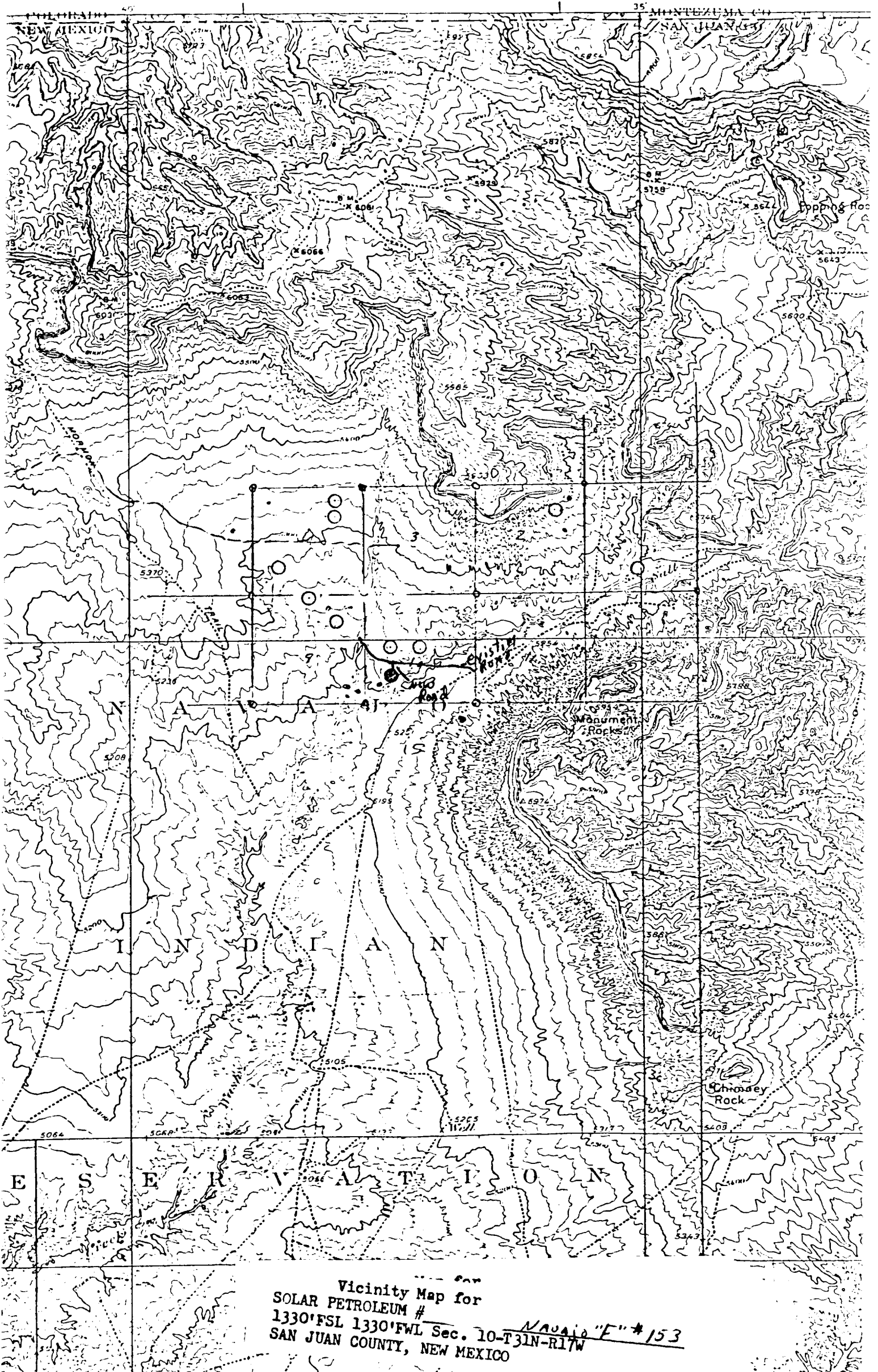

Harold W. Elledge

Solar Petroleum Inc.

NAVAJO "F" #153







Vicinity Map for
SOLAR PETROLEUM #
1330' FSL 1330' FWL Sec. 10-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

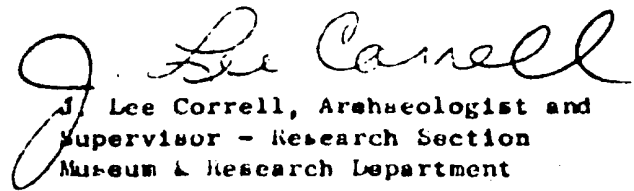
FROM : J. Lee Correll, Archaeologist and Supervisor of Research Section,
Museum and Research Dept., The Navajo Tribe

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 $\frac{1}{2}$ only
"	4 - All of Section
"	5 - E $\frac{1}{2}$ only
"	9 - All except the NW $\frac{1}{4}$
"	10 - All of Section
"	11 - W $\frac{1}{2}$ 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

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

October 27, 1980

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434



Solar Petroleum, Inc.
1660 Lincoln Street
Suite 1500
Denver, Colorado 80264

Attention: Mr. Owen L. Stone

Administrative Order NSL-1272

Gentlemen:

Reference is made to your application for ten non-standard locations for your Navajo Tribe of Indian wells in the Horseshoe-Gallup Pool, San Juan County, New Mexico, as follows:

WELL NO.	LOCATION	S - T - R
G225	2425' FWL and 1230' FSL ✓	Sec. 1, T-31-N, R-17-W
G226	3950' FWL and 3950' FSL ✓	Sec. 2, T-31-N, R-17-W
F149	3950' FWL and 760' FNL ✓	Sec. 4, T-31-N, R-17-W
F150	1330' FWL and 1405' FSL ✓	Sec. 4, T-31-N, R-17-W
F135R	3950' FWL and 3860' FSL ✓	Sec. 4, T-31-N, R-17-W
F147	2630' FWL and 10' FNL ✓	Sec. 9, T-31-N, R-17-W
F151	1360' FWL and 2630' FNL ✓	Sec. 10, T-31-N, R-17-W
→ F153	1330' FWL and 1330' FSL ✓	Sec. 10, T-31-N, R-17-W
F152	2680' FEL and 2630' FNL ✓	Sec. 10, T-31-N, R-17-W
F148	3870' FWL and 1200' FNL ✓	Sec. 9, T-31-N, R-17-W

By authority granted me under the provisions of Rule 104 F of the Division Rules and Regulations, the above-described unorthodox locations are hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Farmington