

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

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

Box 990, Farmington, New Mexico

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

At surface

1840'S, 130'W

At proposed prod. zone

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

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

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

19. PROPOSED DEPTH

6257'

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

6275' DL

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

10-20-66

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 3/8"	24#	300'	200 Sks. to circulate
7 7/8"	4 1/2"	10.5#	6257'	500 Sks. - 3 stages

Production Casing Cementing:

First stage to fill from total depth to top of Gallup.

Second stage to fill from base of Mesa Verde to top of Chacra.

Third stage to fill from base of Pictured Cliffs to base of Ojo Alamo.

Selective zones in the Dakota formation will be perforated and sand-water fractured.

The S/2 of Section 14 is dedicated to this well.

RECEIVED

OCT 16 1966

U. S. GEOLOGICAL SURVEY

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 Edward E. H. WOODTITLE Petroleum EngineerDATE 10-11-66

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Section 11, T27-N, R30-W, S40-07-10-1000, **ACTUAL GAS COMPANY**, **MARSHALL**, **OKLAHOMA**
 1060 SOUTH 930 feet from N
 4275 NORTH 1000 feet from E

Outline the well location to the subject well, clearly marked, hereon to indicate mark on map below

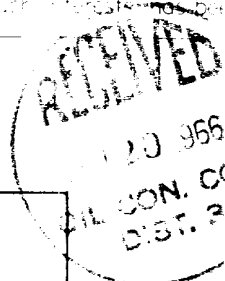
2. If more than one well is located to the well, the location of each well to the well on the map is to be shown working interest

3. If more than one well is located to the well, the location of each well to the well on the map is to be shown working interest

Community

4. If more than one well is located to the well, the location of each well to the well on the map is to be shown working interest

5. If more than one well is located to the well, the location of each well to the well on the map is to be shown working interest



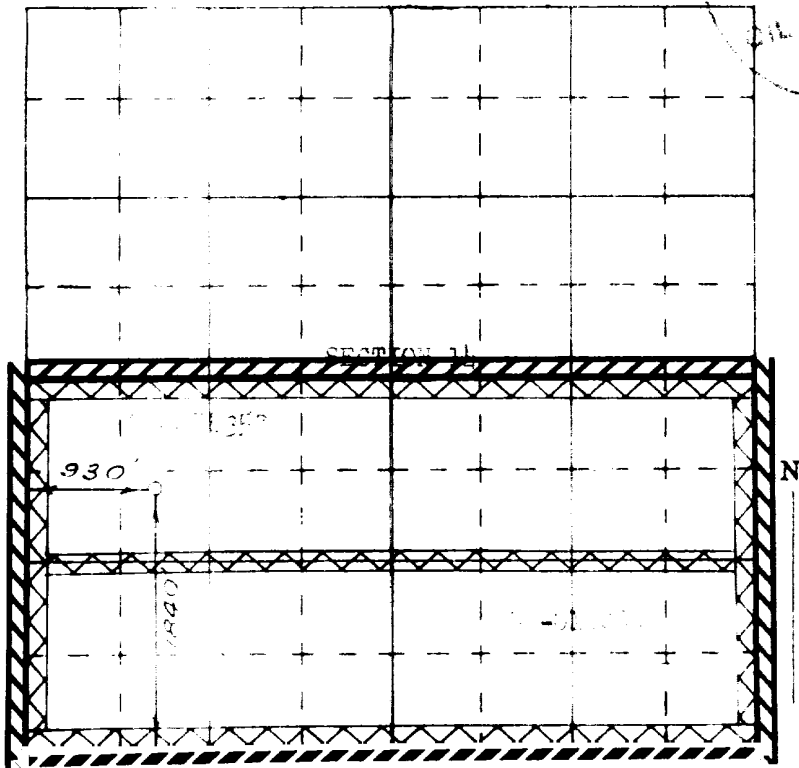
CERTIFICATION

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

Oil Engineer
Oil and Natural Gas Company
October 10, 1960

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

[Handwritten signature]
 District Engineer



B. & R. SERVICE, INC.

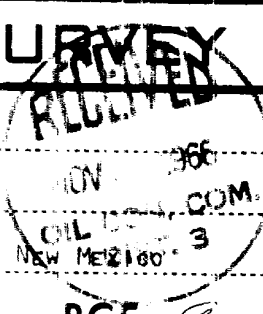
TEMPERATURE SURVEY

COMPANY EL PASO NATURAL GAS COMPANY

WELL MARSHALL #1 FIELD _____

COUNTY SAN JUAN STATE _____

SEC. L-14 TWP. 27 N RGE. 9 W



APPROX. TOP CEMENT 1905'

Survey Begins at 1500' Ft. Ends at 2313' Ft.

Approx. Fill-Up _____ Max. Temp. 134° @ 2250'

Log Measured From R.T. Run No. 1

Casing Size	Casing Depth	Diam of Hole	Depth
<u>4 1/2"</u> from _____	to _____	<u>7 7/8"</u> from _____	to _____
from _____	to _____	from _____	to _____

Date of Cementing NOVEMBER 11, 1966 Time 2:45 A.M.

Date of Survey NOVEMBER 1, 1966 Time 12:00 Noon

Amount of Cement 125 SACKS Type _____

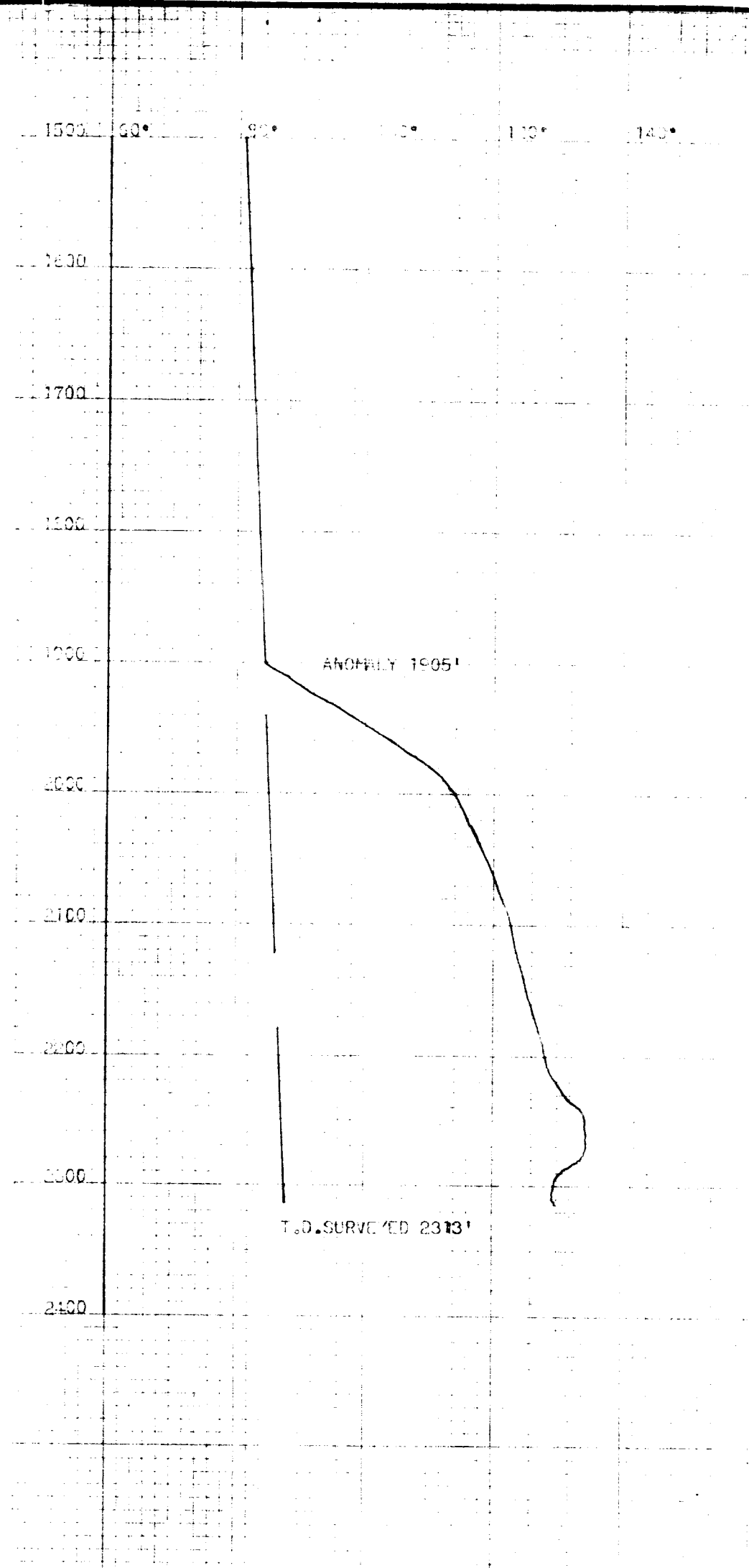
Amount of Admix 4% GEL. Type _____

Recorded by DUDLEY Witnessed by _____

REMARKS OR OTHER DATA

D.V. TOOL @ 2448'

TEMPERATURE IN DEGREES FAHRENHEIT



EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

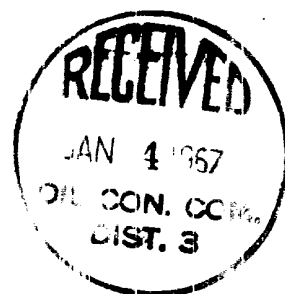
Name Of Company El Paso Natural Gas Company		Address P. O. Box 990, Farmington, New Mexico			
Lease Marshall	Well No. 1	Unit Letter L	Section 14	Township 27-N	Range 2-W
Pool Basin Dakota			County San Juan		

DEPTH

800'
 1289'
 1455'
 2916'
 3236'
 3568'
 3814'
 4171'
 4616'
 6133'
 6634'

DEVIATION

3/4°
 1/2°
 1°
 1/2°
 3/4°
 1°
 1°
 3/4°
 1/2°
 1/2°
 1/2°



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief.

H. Wood

Subscribed and sworn to before me this 28th day of December, 1966.

James G. Swan
 Notary Public in and for San Juan County, New Mexico

My commission expires October 3, 1967