

U. S. LAND OFFICE **Santa Fe**

SERIAL NUMBER 077106

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
 Lessor or Tract Lackey "B" Field Basin Dakota State New Mexico
 Well No. 16 Sec. 20 T. 28-NR. 9 W. Meridian N.M.P.M. County San Juan
 Location 1180 ft. 100 of N Line and 1460 ft. 100 of E Line of 20 Elevation 5922
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ Original Signed D. W. Meehan

Date August 18, 1961 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling 7-3, 1961 Finished drilling 7-22, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6435 to 6553 (0) No. 4, from _____ to _____
 No. 2, from 6553 to 6693 (0) No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

	Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
								From—	To—	
9 5/8"	11 lb.	8.9	8 rd.	3-55	50.36	OK	OK	OK	OK	OK
4 1/2"	11 lb.	8.9	8 rd.	3-55	50.36	OK	OK	OK	OK	OK
2 3/8"	11 lb.	8.9	8 rd.	3-55	50.36	OK	OK	OK	OK	OK

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
5/8"	306	200	circulated		
1/2"	6758	750	3 stage		

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----
Adapters—Material ----- Size -----

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5553-65;6571-77;	Frac Dakota w/80,000gal water & 80,000# sand.					Flush w/6700 gal.
5597-6603;	I.H. 44.9 BPM. Max pr 3000#, BHP 1700#. tr pr					3400-3200-3300-3700#.
6613-19;6642-48;	8 staged - 7 sets of 20 balls each.					
6654-60;6667-73:						

TOOLS USED

TOOLS USED

Rotary tools were used from _____ feet to 6756 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

7-28	1961	Put to producing	1961
The production for the first 24 hours was		barrels of fluid of which % was oil; %	
emulsion; % water; and % sediment.		Gravity, °Bé.	
If gas well, cu. ft. per 24 hours	3,219,000	Gallons gasoline per 1,000 cu. ft. of gas	
Rock pressure, lbs. per sq. in.			

_____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1109	1109	Tan to gry cr-grn ss interbedded w/gry sh.
1109	1208	99	Ojo Alamo ss. White cr-grn s.
1208	1883	675	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1883	2152	269	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2152	2204	52	Pictured Cliffs form. Gry, fine-grn tight, varicolored soft ss.
2204	3682	1478	Lewis form. Gry, fine-grn, light dense sil ss.
3682	3792	110	Cliff House ss. Gry, fine-grn, dense sil ss
3792	4476	684	Menefee form. Gry, fine-grn s, carb sh & coal.
4476	4576	100	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4576	5597	1021	Mancos form. Gry carb sh.
5597	6368	771	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg. interbed sh.
6368	6435	67	Greenhorn form. Highly calc gry sh w/thin lmst.
6435	6553	118	Graneros form. Dk gry shale, fossil & carb w/prite incl.
6553	6693	140	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.
6693	6756	63	Morrison form. Interbed grn brn & red waxy & fr to cr grn sand.

UNITED STATES
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GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WITH CORRELATE

[illegible]

Company Name _____
Address _____
City _____ State _____
Country _____
Telephone _____
Fax _____
E-mail _____
Web site _____
Business _____
Product _____
Service _____
Other _____
Name _____
Title _____
Address _____
City _____ State _____
Country _____
Telephone _____
Fax _____
E-mail _____
Web site _____
Business _____
Product _____
Service _____
Other _____

10-1-1964

OF OR CAS 24202 OF 2014

No. 1, from 1941 to 1942
 No. 2, from 1942 to 1943
 No. 3, from 1943 to 1944

IMPORTANT WATER

6d	mod 3.6%	6e	mod 3.6%
6f	mod 4.6%	6g	mod 4.6%

READING RECORD

Site No.	Year Performed	Time Taken	Region	Comments	Kind of Structure	Condition of Structure	Time Taken	Purpose
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "backtracked," or left in the well, give the date and location. If the well has been dynamited, give date, site, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

NUDDING AND CEMENTING RECORD

SLIPPING AND CEMENTING RECORD

Case	File	Number - date of capture	Method used	Plant species	Amount of material used
1/10	3/10	1/10	1/10		
2/10	3/10	1/10	1/10		

PLUGS AND ADAPTORS

Adapters - Material	Size	Length	Depth set
Horizontal plug - Material			

SHOOTING RECORD

Size	Shall used	Extrapolate used	Quantity	Price	Applied	Profit cleaned and
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~~SECRET~~

COPIES USED

Rotary tools were used from	feet to	feet and from	feet to
Calc tools were used from	feet to	feet and from	feet to

ESTAD

	Rock pressure last period was	
	It gas well out for 24 hours	
	amination; It water and sediment	
	The production for the first 24 hours was	70%
	borels of fluid of which \$8 was off;	
Put to producing	Gallons gasoline per 1,000 cu ft of gas Grossly) 96% Gasoline)	19.

EMPLOYERS

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Driller	Driller

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