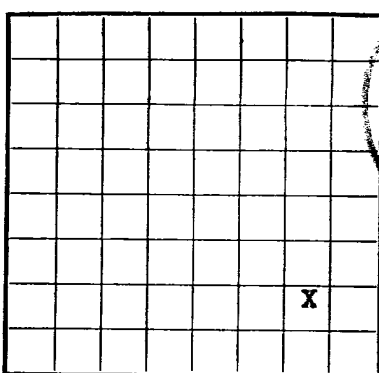
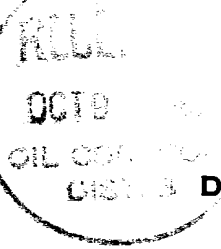




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYNew Mexico
U. S. LAND OFFICE
SERIAL NUMBER 03198
LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Frost Field Basin Dakota State New Mexico
Well No. 9 Sec. 25 T. 27N R. 10W Meridian N.M.P.M. County San Juan
Location 1090 ft. N. of S Line and 990 ft. EX of E Line of Section 25 Elevation 6514
(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. MantelDate October 5, 1961 Title Petroleum Engineer

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

Commenced drilling 8-6-, 1961 Finished drilling 8-24-, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6687 to 6806 (G) No. 4, from _____ to _____
No. 2, from 6806 to 6970 (G) No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____
No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9 5/8"	35	8	355	350	circulated				
4 1/2"	7002	690	2 stage						
2 3/8"									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	305	350	circulated		
4 1/2"	7002	690	2 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
6812-18, 6822-28, 6838-44,	Prac Dakota w/59,000 gal water, 50,000# sd. Fl w/6300 gal. IR					
6898-6910,	23 BPM. MP 4500#, BDP 2400#, tr pr 3800#.					
6718-30, 6734-60, 6772-78,	Prac w/48,500 gal water, 40,000# sd. Fl w/6500 gal. IR 42-30-17					
	BPM. MP 4500#, BDP 2400#, tr pr 2900-3800-4000#					

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

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

DATES

Put to producing _____, 19____

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 2,267,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1760 (casing) A.O.F. 2428 MCF/D

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1346	1346	Tan to gry cr-grn ss interbedded w/gry sh.
1346	1501	155	Ojo Alamo ss. White cr-grn s.
1501	2063	562	Kirtland form. Gry sh interbedded w/tight gry fine gry ss.
2063	2280	217	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2280	2372	92	Pictured Cliffs forms Gry, fine-grn, tight, varicolored soft ss.
2372	3838	1466	Lewis form. Gry, fine-grn, dense sil ss.
3838	3945	107	Cliff House form. Gry, fine-grn, dense sil ss.
3945	4662	717	Manefee form. Gry, fine-grn s, carb sh & coal.
4662	4935	283	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4935	5753	818	Mancos form. Gru carb sh.
5753	6634	881	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg. inter bed sh
6634	6687	53	Greenhorn form. Highly calc gry sh w/thin lmst.
6687	6806	119	Graneros form. Dk gry sh, fossil & carb w/prite incl.
6806	6970	164	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.
6970	7002	32	Morrison form. Interbed grn brn & red waxy sh & fr to cr grn sand.
FROM—	TO—	TOTAL FEET	FORMATION

CONCLUSION

U. S. Land Office

03129

PLEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The top-left corner is torn. A small handwritten 'X' is visible near the bottom left.

Company _____
 Well No. _____
 Location _____
 The information given herewith is a complete and correct record of the well and all work done thereon
 as far as can be determined from all available records.
 Signed _____
 Title _____
 Date _____

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

Completed drilling 4-2-51, 1951 Finished drilling 4-2-51, 1951

OIL OR GAS SANDS OR ZONES

(Dereot qaz py G)

6812-18; 6822-28;	frac water 59,000 gal water, 50,000# sand.	to	flush w/ 630 gal water in 23 hrs. max is 4500#, BHP	No. 1 from	2400#, tr in 3800#	to	frac w/ 48,500 gal water, 40,000# sand. flush w/ 6500 gal.	6712-18	No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
6838-14; 6898-6910;		to		No. 2 from	2400#	to		6712-28	No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to			No. 3 from	4000#.	to	No. 6 from	to	No. 4 from	to	No. 1 from
		to		No. 2 from	2400#	to										

Casing per foot	Size Weight	Threads per inch	Makes	Amount	Kind of shoe	Cut and pulled from	From - To -	Performed	Remarks
									It is of the greatest importance to have a complete history of the well. The reasons for the work and its results. It shall where changes made in the casing, state fully, and if any change was underaken," or left in the wall, give size and location. If the well has been dynamited, give date, size, position, and number 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

Size ceiling	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
4'-0"	1000	0.5	1000		
4'-0"	1000	0.5	1000		

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set

SHOOTING RECORD

[illegible]

DATE

It gas well, can ft. per 24 hours.....	The production for the first 24 hours was
.....	
.....	
Gallons gasoline per 1,000 cu. ft. of gas	
Gravity, °Be.	
barrels of fluid of which% was oil;%	Put to producing, 19.....

EMPIRY

Driller	Driller
Driller	Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	1940	1840	Thin to gray or green as interbedded with sh.
100	1950	175	Og. Alamo as. White or green s.
200	2000	200	Kinland ls. Gray as interbedded w/gray sh.
300	2050	50	Thin gray ss.
400	2100	50	Frutland ls. Gray sand sh, scattered coals, coals and gray, light, thin-gr. ss.
500	2150	50	Plumed cliffs ls. Gray, thin-gr. light, varicolored soft ss.
600	2200	50	Lewis ls. Gray, thin-gr. sand sh ss.
700	2250	50	Cliff House ls. Gray, thin-gr. sand sh ss.
800	2300	50	Mesa ls. Gray, thin-gr. sand sh ss.
900	2350	50	Point Lookout ls. Gray, very fine ss.
1000	2400	50	W/irregular sh breaks.
1100	2450	50	Manos ls. Gray sand sh.
1200	2500	50	Gallup ls. It gray to thin calc sand sh.
1300	2550	50	Placed very fine gray as white. It is thin ss.
1400	2600	50	Greenhorn ls. Highly calc gray as w/thin ss.
1500	2650	50	Graneros ls. Dk gray sh, fossil & carb.
1600	2700	50	W/white incl.
1700	2750	50	Monks ls. It to dk gray sand sh calc.
1800	2800	50	ss. calc. w/white incl thin sh bands.
1900	2850	50	ss. & shale breaks.
2000	2900	50	Monks ls. Interbedded gray sand sh w/white ss.

FORMATION RECORD—Continued