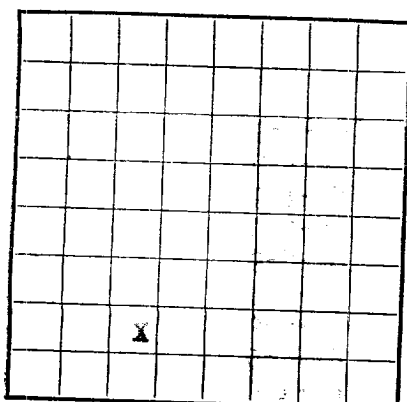




LOCATE WELL CORRECTLY

OIL CON. CON.
DIST. 3

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER 080711-B

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New MexicoLessor or Tract San Juan 30-6 Unit Field Blanco & Wildcat State New MexicoWell No. 31 (MD) Sec. 33 T. 30N R. 6W Meridian N.M.P.M. County Rio ArribaLocation 790 ft. [N.] of [] Line and 1650 ft. [E.] of [] Line of Section 33 Elevation 6267

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 R. G. MILLERDate August 26, 1959Title Petroleum Engineer

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

Commenced drilling 4-30, 19 59 Finished drilling 6-11, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3302 to 3415 (G) No. 4, from 5476 to 5720 (G)No. 2, from 5104 to 5187 (G) No. 5, from 6720 to 7215 (G)No. 3, from 5187 to 5476 (G) No. 6, from 7635 to 7843 (G)

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to No. 2, 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—	
13 3/8	48	8 Ra.	J-55	325	Baker				Surface
9 5/8	26	8 Ra.	J-55	3466	Baker				Intermediate
7	23	8 Ra.	J-55	1632	Baker				Intermediate
7	23	8 Ra.	J-55	2406	Baker				Prod. Liner
5	15	8 Ra.	J-55	508	Baker				Prod. Liner
2	4.7	8 Ra.	J-55	7696	Baker				Prod. Tubing
1 1/4	2.4	Grade "A"	MOBIL	5574					Siphon

MUD LOGGING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	335	462	Circulated		
9 5/8	3476	1154	Two Stage		
7	3402-7440	1250	Single St. & Squeeze		
5	7362-7870	115	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set Adapters—Material Size Gilbertson "AG" Packer at 7275'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			See Well History			

TOOLS USED

Rotary tools were used from 335 feet to 3479 feet, and from 3479 feet to 7714 feetCable tools were used from 0 feet to 335 feet, and from 7714 feet to 7872 feet

DATES

7-2, 19 59 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 MV-5,496,000 Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. MV-1031; Dak-2405 A.O.F. = M.V. 6897; Dak. 968 MCF/D

EMPLOYEES

 , Driller , Driller , Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2539	2539	Tan to gry cr-grn ss interbedded w/gry sh.
2539	2773	234	Ojo Alamo ss. White cr-grn s.
2773	3071	298	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3071	3302	231	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine grn ss.
3302	3415	113	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3415	5104	1689	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5104	5187	83	Cliff House ss. Gry, fine-grn, dense sil ss.
5187	5476	289	Menefee form. Gry, fine-grn s, carb sh & coal.
5476	5720	244	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5720	6720	1000	Mancos formation. Gry carb sh.
6720	7215	495	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg. interbed sh.
7215	7442	227	Sanastee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
7442	7494	52	Greenhorn form. Highly calc gry sh w/thin lmst.
7494	7635	141	Graneros form. Dk gry shale, fossil & carb w/pyrite incl.
7635	7843	208	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & shale breaks.
7843	7872	29	Morrison form. Interbed grn brn & red ssy sh & fr to cr grn sd.