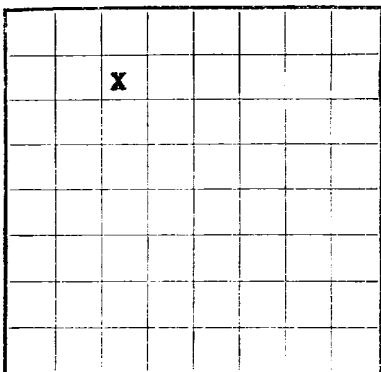




LOCATE WELL CORRECTLY

Santa Fe
U. S. LAND OFFICE
SERIAL NUMBER 078233
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Huerfano Unit Field Basin Dakota State New Mexico
Well No. 113 (GD) Sec. 33 T. 27-N R. 10-W Meridian N.M.P.M. County San Juan
Location 990 ft. XXX of N Line and 1700 ft. XXX of W Line of Sec. 33 Elevation 6117
(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 W. J. ...Date February 13, 1961Title Petroleum Engineer

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

Commenced drilling 10-23-60, 19... Finished drilling 11-11-60, 19...OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5316 to 5836 (O & G) No. 4, from ... to ...
No. 2, from 6254 to 6320 (G) No. 5, from ... to ...
No. 3, from 6320 to 6548 (G) No. 6, from ... to ...

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—	
10 3/4"	32.75	P.E.	S.W.	281	Howco				surface
2 7/8"	6.4	10 RA.	J-55	6514	Baker				prod casing
2 7/8"	6.4	10 RA.	J-55	9940	Baker				prod casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	292	340	circulated		
2 7/8"	6525	81	single stage		
2 7/8"	5950	326	single 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
See Well History						

TOOLS USED

Rotary tools were used from 0 feet to 6548 feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

S.I. 12-29, 19 60 Put to producing ..., 19...
Callup production for the first 24 hours was 27.8 barrels of fluid of which 100% was oil; ...%
emulsion; ...% water; and ...% sediment. & 2127 MCF/D Gravity, °Bé. ...
If gas well, cu. ft. per 24 hours D-802,00 Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. G-1007 Dak. A.O.F. - 804 MCF/D
D-2011

EMPLOYEES

..., Driller ... Driller
..., Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	788	788	Tan to gry cr-grn ss interbedded w/gry sh.
788	909	121	Ojo Alamo ss. White cr- grn s.
909	1600	691	Kirtland form Gry sh interbedded w/tight gry fine-grn ss.
1600	1806	206	Fruitland form. Grycarb sh, scattered coals, coals and gry, tight, fine-grn ss.
1806	1882	76	Pictured Cliffs forms Gry, fine-grn, tight, variclobed soft ss.
1882	3362	1480	Lewis form. Gry, fine-grn, dense sil ss.
3362	3438	76	Cliff House form. Gry, fine-grn, dense sil ss.
3438	4218	780	Manefee form. Gry, fine-grn s, carb sh & coal.
4218	4450	232	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4450	5316	866	Mancos form. Gry carb sh.
5316	5836	520	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg. interbed sh.
5836	6194	358	Sanostee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
6194	6254	60	Greenhorn form. Highly calc gry sh w/thin lmst.
6254	6320	66	Graneros form. Dk gry shale, fossil & carb w/prite incl.
6320	6548	228	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.

[OVER]

16-48094-4

FORMATION RECORD—Continued

[illegible]

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 "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, 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

5678-98;	Oil trac Gallup v/19,000 gal oil & 17,000 # sand. BDP 1500 #, max pr 4500 #, avg tr pr 4000-4500 #. I.R. 14 BHM. Banded off when 19,000 gal oil & 17,000 # sand. 200 gal acid spotted when pumping down cement plugs. Re-oil trac Gallup v/27,904 gal oil w/1/2 strength Petrojel, & 30,000 # sand. Plugged w/2000 gal oil. Max pr 4500 #, avg inf. rate 12 BHM. BDP 2000 #. Tr pr 4500-4500.	6418-34;	Water traced Dakota w/20,000 # sand & 30,000 gal gelled water. Flushed w/1500 gal water. Max pr 4500 #. BDP 3100 #. Avg I.R. 15.6 BHM. Tr pr 4000-4500-4500. Spotted 30 gal acid prior to part.	6286-91;	Water traced Dakota w/25,200 gal water & 20,000 # sand. Flushed w/2520 gal water. Max pr 4500 #. BDP 2100 #, avg I.R. 18 BHM. Tr pr 4200-4500 water contained 3-101 & 2 % calcium chloride. 200 gal acid was spotted prior to part.	6318-24;	6371-76;
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