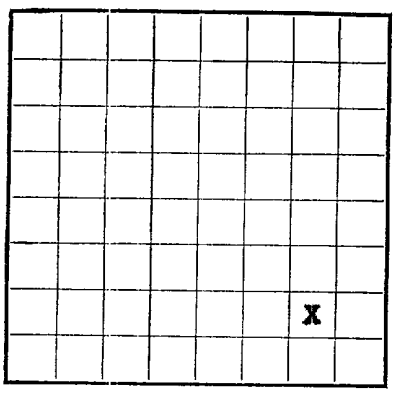
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 080610
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 987, Farmington, New Mexico
Lessor or Tract Huerfano Unit Field Wildcat Dakota & Angel Peak Gallup Ext. State New Mexico
Well No. 105 (GD) Sec. 29 T. 27N R. 10W Meridian N.M.P.M. County San Juan
Location 800 ft. {N/S} of S Line and 680 ft. {E/W} of E Line of Section 29 Elevation 6064'
(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 J. PETERSON

Date February 25, 1959 Title Petroleum Engineer

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

Commenced drilling 11-3-, 1958 Finished drilling 11-23-58, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1755 to 1842 (G) No. 4, from 5281 to 5640 (G)
No. 2, from 2635 to 3375 (G) No. 5, from 6273 to 6495 (G)
No. 3, from 3375 to 4417 (G) No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from
No. 2, from to No. 4, from

RECEIVED MAR 3 1959 OIL CON. COM. DIST. 3

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75	P.E.	S.W.	157'	Howco				Surface
7 5/8"	26.40	8 Rd.	H-80	669'					Int. csg.
7 5/8"	26.40	8 Rd.	J-55	5792'	Baker				Prod. csg.
5 1/2"	17.0	8 Rd.	J-55	6064'	Baker				Prod. liner
2"	4.7	8 Rd.	J-55	6287'					Prod. tbg.
2"	4.7	8 Rd.	J-55	5638'					Prod. tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	168'	200	Circulated		
7 5/8"	5792'	325	Two Stages		
5 1/2"	5736-6540'	300	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker Model "D" Packer @ 5706'

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 6546 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

12-11-, 1958 Put to producing , 19

The production for the first 24 hours was 71.4 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours G-1,839,000 D-4,325,000 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. G-1936 D-1348 A.O.F.--G--2126 D--4854 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	784	784	Tan to gry cr-grn ss interbedded w/gry sh.
784	853	69	Ojo Alamo ss. White cr-grn s.
853	1540	687	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1540	1755	215	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
1755	1842	87	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss. breaks.
1842	2635	793	Lewis formation. Gry to white dense shw/silty to shaly ss breaks.
2635	3375	740	Chacra form. Gry fn grn silty, glauconitic sd stone with drk gry shale.
3375	3398	23	Cliff House ss. Gry, fine-grn, dense sil ss.
3398	4200	802	Menefee form. Gry, fine-grn s, carb sh & coal.
4200	4417	217	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4417	5281	864	Mancos formation. Gry carb sh.
5281	5640	359	Gallup form. Lt gry to brn calc carb micac glauc very fine gry ss w/irreg. inter. sh.
5640	5801	161	Huerfano Zone. Lt gry, fine grn sand stone.
5801	6153	352	Sanastee form. Lt gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
6153	6212	59	Greenhorn form. Highly calc gry sh w/thin lmst.
6212	6243	31	Graneros form. Dk gry shale, fossil & carb w/prit incl.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
6243	6273	30	Grani. Sh.
6273	6495	222	Dakota Fmn. Lt to dk gry fcoss vert sl sdy sl silty ss w/pyrite incl thin sh bands clay & shale.
6495	6546	51	Morrison Fmn. Interbdd grn brn and red waxy sh & fr to vr fgn ss.

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HISTORY OF OIL OR GAS WELL

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.

12-3-58 T.D. 6543'. COTD 6527'. Oil frac Dakota perf. int. 6276-6284; 6340-6350; 6376-6392; 6396-6405 w/62,958 gal. oil & 60,000# sand. MTP 2500#, max. pr. 2900#, avg. tr. pr. 2700#. I.R. 20.2 BPM. Flushed w/12,356 gallons oil. 4 stages--3 ball drops 45 balls each. Spotted 300 gallons B.D.A. across perfs.

12-6-58 B.P. @ 5850'. Perf. Gallup w/4 JJ/ft. 5640-5666 w/45,240 gallons oil & 45,000# sand. Flushed w/11,550 gallons oil. I.R. 19.0 BPM. MTP 2100#, max. pr. 2600#, avg. tr. pr. 2300#. 1 stage. No balls. Spotted 300 gallons B.D.A. across perfs.