Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079393
LEASE OR PERMIT TO PROSPECT 14-08-001-950

RECEIVED APR 13 1959 OIL CON. DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 27-5 Unit Field Blanco & So. Blanco P.C. Ext. State New Mexico
Well No. 45(PM) Sec. 6 T. 27N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 1550 ft. [N] of S Line and 1750 ft. [E] of W Line of Section 6 Elevation 6578'
(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 C. D. COX

Date April 9, 1959 Title Petroleum Engineer

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

Commenced drilling Feb. 19, 1959 Finished drilling March 8, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3347 to 3448 (G) No. 4, from 5514 to 5676 (G)
No. 2, from 5028 to 5190 (G) No. 5, from to
No. 3, from 5190 to 5514 (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 From—	Perforated To—	Purpose
10 3/4"	32.75	P.E.	S.W.	161'	Howco				Surface
7 5/8"	26.40	8 Rd.	J-55	3567'	Baker				Prod. csg.
5 1/2"	15.5	8 Rd.	J-55	5577'	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	5574'					Prod. tbg.
1 1/4"	2.4	8 Rd.	Grade "A"	3390'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	174'	150	Circulated		
7 5/8"	3560'	166	Single Stage		
5 1/2"	3499-5746'	339	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker "BGJ" Packer set at 3576'

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 3562 feet, and from 3562 feet to 5749 feet Gas Drilled
Cable tools were used from feet to feet, and from feet to feet

DATES

March 12, 1959 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 PC-3,854,000 MV-3,505,000 Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in. PC-1057 MV-1047 A.O.F.--P.C. 4198 M.V. 4328 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2646	2646	Tan to gry cr-grn ss interbedded w/gry sh.
2646	2822	176	Ojo Alamo ss. White cr-grn s.
2822	3086	264	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3086	3347	261	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3347	3448	101	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3448	5028	1580	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5028	5190	162	Cliff House ss. Gry, fine-grn, dense sil ss.
5190	5514	324	Menfee form. Gry, fine-grn s, carb sh & coal.
5514	5676	162	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5676	5749	73	Mancos formation. Gry carb sh.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

3-4-59 Squeezed liner hanger w/100 sacks Neat cement. Final squeeze press. 3000 psi.

3-7-59 Perf. Point Lookout 5558-5560; 5574-5584; 5596-5606; 5620-5630; 5636-5646 (2 DJ/ft). Frac w/44,310 gallons water & 60,000# sand. Flush w/9450 gallons water. I.R. 89 B.P.M. Max. pr. 2900#, EDP 2900 psi, trtg. 1500#. Would not break down first time. Reshot w/2 TJ/ft & spotted 300 gallons HCA.

3-7-59 Set Guiberson B.P. @ 5400'.

3-7-59 Perf. Cliff House w/2 DJ/ft 5156-5170. Frac w/27,300 gallons water & 30,000# sand. Flush w/20,920 gallons water. I.R. 55.5 B.P.M. Max. pr. 3300#, EDP 3300#. Would not break first time, reshot w/2 DJ/ft and spotted 100 gallons HCA.

3-7-59 Set Guiberson Mg. B.P. @ 5000'.

3-7-59 Perf. Pictured Cliffs w/2 DJ/ft 3362-3372; 3378-3386; 3400-3410. Frac w/36,750 gallons water & 35,000# sand. Flush w/6300 gallons water. I.R. 78 BPM. Max. pr. 2600#, EDP 2600#, trtg. 1300-1350-1400#. Dropped 2 sets of 15 balls for 3 stages.

LOG OF OIL OR GAS WELL

OIL CONSERVATION COMMISSION
Santa Fe