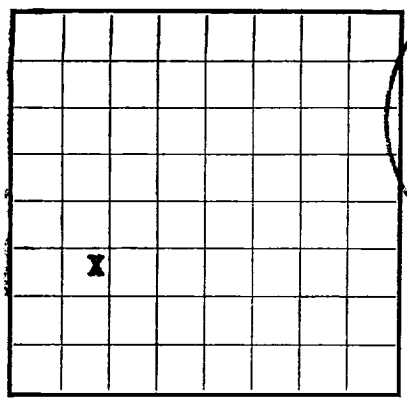
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079012
LEASE OR PERMIT TO PROSPECT 14-08-001-464



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 997, Farmington, New Mexico

Lessor or Tract San Juan 31-6 Unit Field Blanco State New Mexico

Well No. 13-4 Sec. 4 T. 30N R. 6W Meridian N.M.P.M. County Rio Arriba

Location 1770 ft. {N.} of S Line and 800 ft. {E.} of W Line of Section 4 Elevation 6349'
(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. Meehan

Date October 22, 1958 Title Petroleum Engineer

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

Commenced drilling 7-18-, 1958 Finished drilling 8-21-, 1958

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 3162 to 3380 (G) No. 4, from 5525 to 5697 (G)

No. 2, from 5193' to 5262 (G) No. 5, from ____ to ____

No. 3, from 5262 to 5525 (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.	163'	Howco				Surface
7 5/8"	26.40	8 Rd.	J-55	3439'	Baker				Intermediate
2 1/2"	15.50	8 Rd.	J-55	5783'	Baker				Liner
2"	4.7	8 Rd.	J-55	5724'					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"	173'	160	Circulated		
7 5/8"	3439'	200	Single Stage		
5 1/2"	3374-5783'	300	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 175 feet to 3446 feet, and from 3446 feet to 5786 feet

Cable tools were used from 0 feet to 175 feet, and from ____ feet to ____ feet

Gas Drilled

DATES

____, 19____ 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 2,976,000 Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 1070 A.O.F.--4440 MCF/D

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Undeveloped			Tan to gry cr-grn ss interbedded w/gry sh.
Undeveloped			Ojo Alamo ss. White cr-grn s.
Undeveloped	2945	2945	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2945	3162	217	Fruitland form. Gry carb sh, interbedded coals, coals and gry, tight, fine-grn ss.
3162	3380	218	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3380	5193	1813	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5193	5262	69	Cliff House ss. Gry, fine-grn, dense sil ss.
5262	5525	263	Menefee form. Gry, fine-grn s, carb sh & coal.
5525	5697	172	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5697	5786	89	Mancos formation. Gry carb sh.

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.

8-25-53 Total Depth 5786'. C.O.T.D. 5757'. Perf. Point Lookout (2 dyna jets/ft) 5524-5544; 5558-5580; 5610-5620; 5626-5648; 5668-5686. Swf. perfs. w/47,300 gal. water, 50,000# sand. Flush w/7400 gallons. I.R. 72 B.P.M. Max. pr. 1700#, B.D.P. 900#, avg. tr. pr. 1500#. Dropped 4 sets of 35 balls, each, line broke after 42,000# in, dropped 1 set of 35 balls, balled off, unable to flush completely. Waited one hour before setting B.P. @ 5350'. 400' of sand fell on plug. C.O., Perf. Cliff House @ 5234-5254; 5294-5316; 5326-5338 (2 dyna jets/ft). Swf. w/32,420 gallons water, 40,000# sand. Flush w/9576 gallons water. I.R. 65.6 B.P.M. Max. pr. 1900#, B.D.P. 2400#, avg. tr. pr. 1750#. Dropped 2 sets of 35 balls for 3 stages.

DUPLICATE WELL CORRECTLY

RECEIVED
OCT 3 1953
OIL CON. COM.
DIST. 3

FORM 9-330