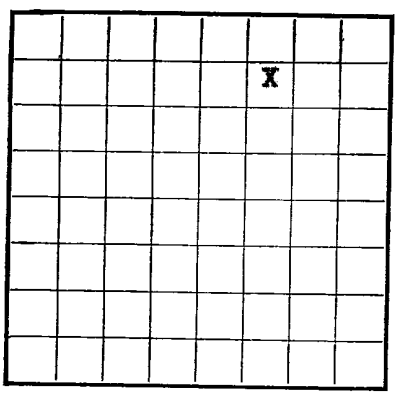
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078496-A
LEASE OR PERMIT TO PROSPECT 14-08-001-459



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 28-7 Unit Field Blanco&So.Blanco P.C. State New Mexico
Well No. 91(PM) Sec. 34 T. 28N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 836 ft. {N. S.} of N Line and 1544 ft. {E. W.} of E Line of Section 34 Elevation 6089'
(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. C. Johnston

Date July 22, 1958 Title Petroleum Engineer

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

Commenced drilling 4-21-, 19 58 Finished drilling 5-28-, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2700 to 2803 (G) No. 4, from 4937 to 5040 (G)
No. 2, from 4352 to 4406 (G) No. 5, from to
No. 3, from 4406 to 4937 (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'	Bosco				Surface
7 5/8"	26.40	8 Rd.	J-55	2897'	Baker				Intermediate
5 1/2"	15.50	8 Rd.	J-55	2901'	Baker				Producer
2"	4.7	8 Rd.	J-55	5103'					
1 1/4"	2.4	8 Rd.	Grade "A"	2749'					Prod. tbg.
									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'	200	circulated		
7 5/8"	2899'	200	single stage		
5 1/2"	2902-5110'	300	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size Guiberson Pkr. @ 2963'

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 2901 feet, and from 2901 feet to 5110 feet Gas Drilled
Cable tools were used from 0 feet to 175 feet, and from feet to feet

DATES

6-11-, 19 58 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 P.C. 1,241,000 M.V. 4,431,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. P.C. 951 M.V. 1009 A.O.F.--P.C. 1259 M.V. 7577 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1905	1905	Tan to gry cr-grn ss interbedded w/gry sh.
1905	1987	82	Ojo Alamo ss. White cr-grn s.
1987	2486	499	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2486	2700	214	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2700	2803	103	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2803	4352	1549	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4352	4406	54	Cliff House ss. Gry, fine-grn, dense sil ss.
4406	4937	531	Menefee form. Gry, fine-grn s, carb sh & coal.
4937	5040	103	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5040	5110	70	Mancos formation. Gry carb sh.

[OVER]

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

5-31-58 Perf. P.L. 4936-48; 4958-74; 4994-5010; 5018-34; w/2 sh/ft. Frac. w/60,000 gal. water and 60,000# sand. Avg. inj. 68.6 B.P.M. No Formation break down, max. pr. 1700#, trtg. pr. 1400-1500-1700#. Dropped 6 sets of 16 balls for a 7 stage frac. Set B.P. @ 4800'. Perf. Cliff House 4380-90; 4424-32 w/6 DJ/ft. Frac. w/40,000 gal. water and 40,000# sand. Avg. inj. 58.9 B.P.M. Form. brk. at 2000#, max. pr. 1500#, trtg. pr. 900-975-1250-1500#. Flush w/7400 gal. Dropped 4 sets of 22 balls for a 5 stage frac. Set B.P. @ 4100'. Perf. P.C. 2710-40; 2752-66 w/2 DJ/ft. Frac. w/40,000 gal. water and 40,000# sand. Flush w/5800 gal. Avg. inj. 64 B.P.M. Max. pr. 2000#, form. brk. at 2200#, trtg. pr. 1000-1200-1400-1800-2000#. Dropped 5 sets of 16 balls for a 6 stage frac.

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