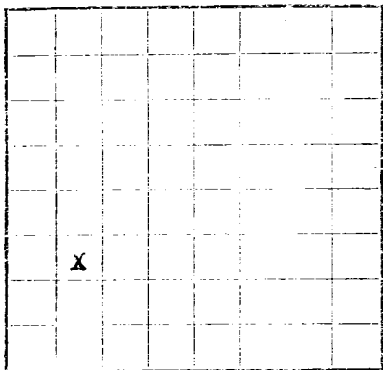




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract San Juan 27-5 Unit Field So. Blanco P.C. State New Mexico
Well No. 54 (PM) Sec. 31 T. 27NR. 5W Meridian N.M.P.M. County Rio Arriba
Location 1700 ft. N. of S. Line and 800 ft. E. of W. Line of Section 31 Elevation 6497
(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 _____
Date January 4, 1961 Title Petroleum Engineer

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

Commenced drilling 11-7, 1960 Finished drilling 11-17, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3115 to 3271 (G) No. 4, from 5390 to 5470 (G)
No. 2, from 4880 to 4996 (G) No. 5, from _____ to _____
No. 3, from 4996 to 5390 (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.	121	Hanco				Surface
7 5/8	26.4	8 Rd.	J-55	3357	Baker				Prod. Csg.
5 1/2	15.5	8 Rd.	J-55	2232	Baker				Prod. Liner
2	4.7	8 Rd.	J-55	5457					Prod. Tubing
1 1/4	2.4	8 Rd.	J-55	3229					Prod. Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	134	150	Circulated		
7 5/8	3369	90	Single Stage		
5 1/2	3311-5543	310	Single Stage & Squeeze		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size Guiberson "Shorty" Packer at 3392'

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 3371 feet, and from 3371 feet to 5550 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

11-25, 1960 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-3,346,000 Gallons gasoline per 1,000 cu. ft. of gas _____
M-3,395,000

Rock pressure, lbs. per sq. in. P-1051; M-1068 Ch. Volume = P.C. 3142; M.V. 2084 MCF/D

EMPLOYEES

_____, Driller _____ Driller
_____, Driller _____ Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2485	2485	Tan to gry cr-grn ss interbedded w.gry sh.
2485	2711	226	Ojo Alamo ss. White cr-grn s.
2711	2928	217	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2928	3115	187	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3115	3271	156	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3271	4880	1609	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4880	4996	116	Cliff House ss. Gry, fine-grn, dense sil ss.
4996	5390	394	Manefee form. Gry, fine-grn s, carb sh & coal.
5390	5470	80	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5470	5550	80	Mancos formation. Gry carb sh.

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 drilling, 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

10--32156-2 U. S. GOVERNMENT PRINTING OFFICE

Water from Pictured Cliffs pert int. 3160-3168; 3216-3232; 3248-3256 w/42,947 gal. water & 40,000# sand. BHP 3000#, max. pr. 3000#, avg. tr. pr. 1100-1150-1250-1350#. I.R. 59 BHM. Flush 6468 gal. Dropped 3 sets of 10 balls for 4 stages.

water fric. cliff house perf. int. 4866-4894; 4932-4940; 4944-4950; 4964-4970; 4980-4990 w/64.054 gal. water and 69,000# sand. RRP 1200#, max. pr. 1900#, avg. tr. pr. 1500-1550-1600-1650-1700-1750#. I.R. 61 RPM. Flush #232 gal. Dropped 5 sets of 8 balls for 6 stages.

Water frac. Plant lookout pert. Int. 5412-5420; 5430-5440; 5444-5454; 5462-5470; 5484-5490 w/63,496 gal. water and 60,000# sand. Bar 1500#, max. pr. 1900#, avg. tr. pr. 1350-1400-1500-1600-1650#. I.R. 65 RPM. Flank 8736 gal. Dropped 5 sets of 10 balls each for 6 stages.