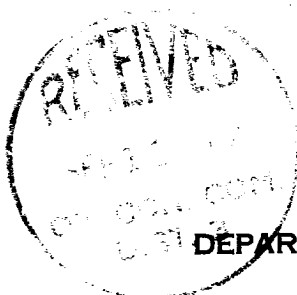


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U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078410**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

CORRECTED COPY

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract San Juan 29-5 Unit Field Blanco M. V. State New Mexico
Well No. 21 Sec. 8 T. 29N R. 5W Meridian N.M.P.M. County San Juan
Location 1650 ft. X000 of N Line and 1550 ft. E of W Line of Section 8 Elevation 6650
(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.

Date August 28, 1962 Title Petroleum Engineer

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

Commenced drilling ----- 6-14 -----, 19-62 Finished drilling ----- 6-27 -----, 19-62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5401 to 5481 (G) No. 4, from _____ to _____
 No. 2, from 5481 to 5764 (G) No. 5, from _____ to _____
 No. 3, from 5764 to 5875 (G) No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
9 5/8"	32.3	8 rd.	J-55	250	Baker				Surface
7"	20	8 rd.	J-55	378	Baker				Intermediate
4 1/2"	10.5	8 rd.	J-55	228	Baker				Liner
1 1/4"		8 rd.	J-55	586	Baker				Prod. tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	292	200	circulated		
7"	3783	150	single stage		
4 1/2"	3686-5945	220	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
Perf 5886-90; 5860-64;	5842-46; 5806-10;	5788-92; 5484-88	(3 SFT); Fractured w/81,850 gallons water; 57,000# sand; flushed w/8400 gallons. I.R. 44.2 BPM. Max pr 2850#, BOP 1000-650#, tr m 1450-1950-2800#. Dropped 1 set of 12 balls & 1 set of 24 balls.			

TOOLS USED

Rotary tools were used from 0 feet to 5945 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

7-20 _____, 19-62 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 5,322,000 Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. 1058 - Tubing A.O.F. 6421 MCF/D

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	2767	2767	Tan to gry cr-grn ss interbedded w/gry sh.
2767	2897	130	Ojo Alamo ss. White cr-grn s.
2897	3264	367	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3264	3589	325	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3589	3684	95	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3684	5401	1717	Lewis form. Gry to white dense sh w/silty to shaly ss breaks.
5401	5481	80	Cliff House ss. Gry, fine-grn, dense sil ss.
5481	5764	283	Menefee form. Gry, fine-grn s, carb shale & coal.
5764	5875	111	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5875	5945	70	Mancos form. Gry carb sh.

JEW 240 20 410 30 20.1

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 "struck", 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

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM	TO	TOTAL FEET	FORMATION
			1. 0-10' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 2. 10-20' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 3. 20-30' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 4. 30-40' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 5. 40-50' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 6. 50-60' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 7. 60-70' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 8. 70-80' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 9. 80-90' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert. 10. 90-100' Sandstone, medium to coarse grained, brownish gray, massive to slightly bedded, contains small pebbles of quartz and chert.