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U. S. LAND OFFICE New Mexico
SERIAL NUMBER 010468
LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
 Lessor or Tract Howell Field Blanco State New Mexico
 Well No. 3-J Sec. 11 T. 30N R. 8W Meridian N.M.P.M. County San Juan
 Location 990 m. ft. S of N Line and 990 ft. W of E Line of Section 11 Elevation 5196
(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 February 23, 1954 Title Petroleum Engineer

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

Commenced drilling 12-15-53, 1953 Finished drilling 1-20-54, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3133 to 3210 (G) No. 4, from 5355 to 5460 (G)
No. 2, from 4925 to 5040 (G) No. 5, from 5040 to 5355 (G)
No. 3, from 5040 to 5355 (G) No. 6, from 5355 to 5460 (G)

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—	
9-5/8"	25.4#	S. W.	Arneo	161	Arneo				Surface
7	23 1/2#	8 Rd.	Spang	2106	Baker				Prod. Cas.
7	20 1/2#	8 Rd.	Spang	2749					Prod. Os.
2	4.7#	8 Rd.	Young	5450					Prod. Tb.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	171	125	Circulated		
7-	4365	500	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
		Sand oil fracture, see History				

TOOLS USED

Rotary tools were used from 0 feet to 4.5 feet, and from 4865 feet to 5460 feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

~~January 23, 1954~~, 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 3,758,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. ---1085

EMPLOYEES

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

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	1003	1003	Tan cr-grn ss w/thin sh breaks.
1003	1377	374	Variegated sh w/thin ss breaks.
1377	1950	573	Tan to gry cr-grn ss interbedded w/gry sh.
1950	2110	160	Ojo Alamo ss. White cr-grn s.
2110	2838	728	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
2838	3133	295	Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss.
3133	3210	77	Pictured Cliffs formation. Gry, fine-grn, tight, varicolored soft ss.
3210	4925	1715	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4925	5040	115	Cliff House ss. Gry, fine-grn, dense sil ss.
5040	5355	315	Menefee formation. Gry, fine-grn s, carb sh and coal.
5355	5460	105	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.
			Tops
			Ojo Alamo 1950
			Kirtland 2110
			Fruitland 2838
			Pictured Cliffs 3133
			Lewis 3210
			Cliff House 4925
			Menefee 5040
			Point Lookout 5355



A circular ink stamp, likely from a government or military office. The text is arranged in a circular fashion. At the top, the word "RECEIVED" is written in a bold, sans-serif font. Below it, the date "JUL 8 1954" is stamped. Further down, the words "OIL CON. COM." are visible, and at the bottom, "DIST. 3" is stamped. The stamp is slightly faded and has a rough, hand-stamped appearance.

COM. UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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Treated Point Lookout with 5200 gallons oil and 5900# sand. Maximum pressure 2200#. Breakdown pressure 600#. Injection rate 231 gallons per minute. Finished with 1470 gallons oil. Gage before treatment 930 MCF. Gage 16 hours after treatment 3,735 MCF. Interval treated 5368. - 5460.

Treated Cliff House with 10,000 gallons 30° API oil and 10,000# sand through the casing. ~~Normal pressure 1000#.~~ Injection rate 13 bbls. per minute. Flushed with 10,000 gallons 30° API oil. Natural Gage 88 MCF. Gage 20 hours after treatment 887 MCF. Interval treated 4865' - 5047'.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-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

FROM-	TO-	TOTAL FEET	FORMATION
0-10	10-20	10	SANDSTONE
10-20	20-30	10	SANDSTONE
20-30	30-40	10	SANDSTONE
30-40	40-50	10	SANDSTONE
40-50	50-60	10	SANDSTONE
50-60	60-70	10	SANDSTONE
60-70	70-80	10	SANDSTONE
70-80	80-90	10	SANDSTONE
80-90	90-100	10	SANDSTONE
90-100	100-110	10	SANDSTONE
100-110	110-120	10	SANDSTONE
110-120	120-130	10	SANDSTONE
120-130	130-140	10	SANDSTONE
130-140	140-150	10	SANDSTONE
140-150	150-160	10	SANDSTONE
150-160	160-170	10	SANDSTONE
160-170	170-180	10	SANDSTONE
170-180	180-190	10	SANDSTONE
180-190	190-200	10	SANDSTONE
190-200	200-210	10	SANDSTONE
200-210	210-220	10	SANDSTONE
210-220	220-230	10	SANDSTONE
220-230	230-240	10	SANDSTONE
230-240	240-250	10	SANDSTONE
240-250	250-260	10	SANDSTONE
250-260	260-270	10	SANDSTONE
260-270	270-280	10	SANDSTONE
270-280	280-290	10	SANDSTONE
280-290	290-300	10	SANDSTONE
290-300	300-310	10	SANDSTONE
300-310	310-320	10	SANDSTONE
310-320	320-330	10	SANDSTONE
320-330	330-340	10	SANDSTONE
330-340	340-350	10	SANDSTONE
340-350	350-360	10	SANDSTONE
350-360	360-370	10	SANDSTONE
360-370	370-380	10	SANDSTONE
370-380	380-390	10	SANDSTONE
380-390	390-400	10	SANDSTONE
390-400	400-410	10	SANDSTONE
400-410	410-420	10	SANDSTONE
410-420	420-430	10	SANDSTONE
420-430	430-440	10	SANDSTONE
430-440	440-450	10	SANDSTONE
440-450	450-460	10	SANDSTONE
450-460	460-470	10	SANDSTONE
460-470	470-480	10	SANDSTONE
470-480	480-490	10	SANDSTONE
480-490	490-500	10	SANDSTONE
490-500	500-510	10	SANDSTONE
500-510	510-520	10	SANDSTONE
510-520	520-530	10	SANDSTONE
520-530	530-540	10	SANDSTONE
530-540	540-550	10	SANDSTONE
540-550	550-560	10	SANDSTONE
550-560	560-570	10	SANDSTONE
560-570	570-580	10	SANDSTONE
570-580	580-590	10	SANDSTONE
580-590	590-600	10	SANDSTONE
590-600	600-610	10	SANDSTONE
600-610	610-620	10	SANDSTONE
610-620	620-630	10	SANDSTONE
620-630	630-640	10	SANDSTONE
630-640	640-650	10	SANDSTONE
640-650	650-660	10	SANDSTONE
650-660	660-670	10	SANDSTONE
660-670	670-680	10	SANDSTONE
670-680	680-690	10	SANDSTONE
680-690	690-700	10	SANDSTONE
690-700	700-710	10	SANDSTONE
700-710	710-720	10	SANDSTONE
710-720	720-730	10	SANDSTONE
720-730	730-740	10	SANDSTONE
730-740	740-750	10	SANDSTONE
740-750	750-760	10	SANDSTONE
750-760	760-770	10	SANDSTONE
760-770	770-780	10	SANDSTONE
770-780	780-790	10	SANDSTONE
780-790	790-800	10	SANDSTONE
790-800	800-810	10	SANDSTONE
800-810	810-820	10	SANDSTONE
810-820	820-830	10	SANDSTONE
820-830	830-840	10	SANDSTONE
830-840	840-850	10	SANDSTONE
840-850	850-860	10	SANDSTONE
850-860	860-870	10	SANDSTONE
860-870	870-880	10	SANDSTONE
870-880	880-890	10	SANDSTONE
880-890	890-900	10	SANDSTONE
890-900	900-910	10	SANDSTONE
900-910	910-920	10	SANDSTONE
910-920	920-930	10	SANDSTONE
920-930	930-940	10	SAND

FORMATION RECORD--Continued