

U. S. LAND OFFICE

SERIAL NUMBER _____

LEASE OR PERMIT TO PROSPECT -----
14-03-001-569

RECEIVED
JUL 6 1954
OIL CON. COM.
DIST. 3
DEPART
GE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract San Juan 32-9 Unit Field Blanco State New Mexico
Well No. 16 Sec. 17 31N 9W Meridian HMPM County San Juan
Location 1850 ft. N of 390 Line and 400 E of 17 Line of Section 17 Elevation 6501'
(Circle 6 on plat to read)

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 W. H. Ullrich

Date April 23, 1954 Title Petroleum Engineer

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

Commenced drilling	February 5,	1954	Finished drilling	April 4,	1954
--------------------	-------------	------	-------------------	----------	------

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>3353</u> to <u>3448</u> (G)	No. 4, from <u>5592</u> to <u>5660</u> (G)
No. 2, from <u>5182</u> to <u>5233</u> (G)	No. 5, from <u>5233</u> to <u>5592</u> (G)
No. 3, from <u>5233</u> to <u>5592</u> (G)	No. 6, from <u>5592</u> to <u>5660</u> (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.	Armco	160	Armco				Surface
7	23	8 RD	Spang	2040	Baker				Prodr Csg.
7	20	8 RD	Spang	3072	Baker				Prod. Csg.
2	4.7	8 RD	Youngston	3686					Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	172	125	Circulated		
7	5122	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, See Well History				

TOOLS USED

Gas Drilled

Rotary tools were used from 0 feet to 5122 feet, and from 5122 feet to 5660 feet.

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

DATES

April 6, 1954 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 5,011,000 Gallons gasoline per 1 000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. -----1006-----

EMPLOYEES

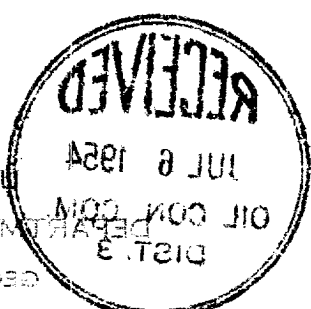
EMPLOYEES

_____, Driller _____, Driller

..... Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	1085	1085	Tan cr-grn ss w/thin sh breaks.
1085	1733	648	Variegated sh w/thin ss breaks.
1733	2342	609	Tan to gry cr-grn ss interbedded w/gry sh.
2342	2406	64	Ojo Alamo ss. White cr-grn s.
2406	2944	538	Kirtland formation. Gry sh interbedded w/tight gry fine-grn ss.
2944	3353	409	Fruitland formation. Gry carb sh, scattered coals and gry, tight, fine-grn ss.
3353	3438	85	Pictured Cliffs formation. Gry, fine-grn, tight varicolored soft ss.
3438	5182	1744	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5182	5233	51	Cliff House ss. Gry, fine-grn, dense sil ss.
5233	5592	359	Menefee formation. Gry, fine-grn s, carb sh and coal.
5592	5660	68	Point Lookout formation. Gry, very fine sil ss w/frequent sh breaks.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THE OFFICE OF THE ATTORNEY GENERAL

4. 1995-1999: 100% ITADOL

1. 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352

This information given her with a complete and correct record of the well and all work done during
 the term of the lease, and the same is being furnished to the undersigned for the record.
 Signed _____
 J. W. N. Jones

The following information is for the convenience of the user and is not to be used for any other purpose.

OFF OF CUB BARRS OR LIVES

Page 2 of 2

On March 24, 1954 Set Eastman Whipstock at 5159' and drilled a directional hole to total depth of 5245' and on 3-26-54 treated formation 5113' - 5245' (Cliff House) with 5000 gallons #2 diesel oil and 4100# sand. Natural gas 240 MCF. Gage 10 hours after sand-oil 1930 MCF. The directional hole was then continued to a total depth of 5704' and on March 31, 1954 treated formation 5575' - 5704' (Point Lookout) with 10,000 gallons #2 diesel oil and 7500# sand. Natural gas 400 MCF. Gage 22 hours after treatment 4,500 MCF. On April 2, 1954 commenced drilling straight hole at 5159' and continued to a total depth of 5660'. On April 4, 1954 treated formation 5550' - 5660' (Point Lookout) with 15,000 gallons #2 diesel oil and 11,500# sand. Gage before treatment 4,260 MCF. Gage 8 hours after well unloaded 5,210 MCF. On April 6, 1954 ran 2" tubing to 5637' and shut well in for gas.

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.

HISTORY OF OIL OR GAS WELL

16-48884-2 - U. S. GOVERNMENT PRINTING OFFICE

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