

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079321-A
LEASE OR PERMIT TO PROSPECT 14-08-001-459

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
SEP 20 1955
U. S. GEOLOGICAL SURVEY
FARMINGTON FIELD SERVICE

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 28-7 Unit Field Blanco State New Mexico
Well No. 35 Sec. 1 T. 27NR. 7N Meridian NMM County Rio Arriba
Location 1650 ft. N. of S. Line and 990 ft. E. of W. Line of Section 1 Elevation 6134
(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 E. E. Daloch
Date September 14, 1955 Title Petroleum Engineer

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

Commenced drilling July 9 19 55 Finished drilling July 24 19 55

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2795 to 2865 (G) No. 4, from 4950 to 5100 (G)
No. 2, from 4140 to 4590 (G) No. 5, from _____ to _____
No. 3, from 4590 to 4950 (G) No. 6, from _____ to _____

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

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#	P.E.	S.W.	161'	Howco					Surface
2" 4.7#	8 RD	J-55	5108'						Prof. Log

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	175'	125	Circulated		
7"	4400'	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
		See Well History.				

TOOLS USED

Rotary tools were used from 0 feet to 4400 feet, and from 4400 feet to 5125 feet.

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

DATES

July 27, 1955 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 2,020,000 Gallons gasoline per 1,000 cu. ft. of gas _____

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

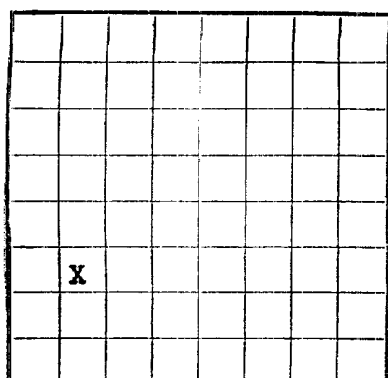
EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	825	825	Tan cr-grn ss w/thin sh breaks.
825	2015	1190	Variegated sh w/thin ss breaks.
2015	2110	95	Tan to gry cr-grn ss interbedded w/gry sh.
2110	2140	30	Ojo Alamo ss. White cr-grn s.
2140	2560	420	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2560	2795	235	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
2795	2865	70	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2865	4440	1575	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4440	4590	150	Cliff House ss. Gry, fine-grn, dense sil ss.
4590	4950	360	Menashee form. Gry, fine-grn s, carb sh & coal.
4950	5100	150	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5100	5125 TD	25	Mancos formation. Gry carb sh.



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Signed J. E. J. Adcock
Date September 14, 1955 Title Petroleum Engineer

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(Denote gas by G)

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No. 2, from 4440 to 4590 (G) No. 5, from _____ to _____
No. 3, from 4590 to 4950 (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—	
9 5/8"	25.4#	P.E.	S.W.	161'	Howco				Surface
7"	20#	8 RD	J-55	490'	Howco				Prod. Log.
2"	4.7#	8 RD	J-55	5100'					Prod. Log.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
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7"	4400'	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
		See Well History.				

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

DATES

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EMPLOYEES

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

FORMATION RECORD

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5100	5125 TD	25	Mancos formation. Gry carb sh.

FORMATION RECORD--Continued

FROM—	TO—	TOTAL FEET	FORMATION
1000	1000	0	1000
1000	1000	100	1000
1000	1000	200	1000
1000	1000	300	1000
1000	1000	400	1000
1000	1000	500	1000
1000	1000	600	1000
1000	1000	700	1000
1000	1000	800	1000
1000	1000	900	1000
1000	1000	1000	1000
1000	1000	1100	1000
1000	1000	1200	1000
1000	1000	1300	1000
1000	1000	1400	1000
1000	1000	1500	1000
1000	1000	1600	1000
1000	1000	1700	1000
1000	1000	1800	1000
1000	1000	1900	1000
1000	1000	2000	1000
1000	1000	2100	1000
1000	1000	2200	1000
1000	1000	2300	1000
1000	1000	2400	1000
1000	1000	2500	1000
1000	1000	2600	1000
1000	1000	2700	1000
1000	1000	2800	1000
1000	1000	2900	1000
1000	1000	3000	1000
1000	1000	3100	1000
1000	1000	3200	1000
1000	1000	3300	1000
1000	1000	3400	1000
1000	1000	3500	1000
1000	1000	3600	1000
1000	1000	3700	1000
1000	1000	3800	1000
1000	1000	3900	1000
1000	1000	4000	1000
1000	1000	4100	1000
1000	1000	4200	1000
1000	1000	4300	1000
1000	1000	4400	1000
1000	1000	4500	1000
1000	1000	4600	1000
1000	1000	4700	1000
1000	1000	4800	1000
1000	1000	4900	1000
1000	1000	5000	1000
1000	1000	5100	1000
1000	1000	5200	1000
1000	1000	5300	1000
1000	1000	5400	1000
1000	1000	5500	1000
1000	1000	5600	1000
1000	1000	5700	1000
1000	1000	5800	1000
1000	1000	5900	1000
1000	1000	6000	1000
1000	1000	6100	1000
1000	1000	6200	1000
1000	1000	6300	1000
1000	1000	6400	1000
1000	1000	6500	1000
1000	1000	6600	1000
1000	1000	6700	1000
1000	1000	6800	1000
1000	1000	6900	1000
1000	1000	7000	1000
1000	1000	7100	1000
1000	1000	7200	1000
1000	1000	7300	1000
1000	1000	7400	1000
1000	1000	7500	1000
1000	1000	7600	1000
1000	1000	7700	1000
1000	1000	7800	1000
1000	1000	7900	1000
1000	1000	8000	1000
1000	1000	8100	1000
1000	1000	8200	1000
1000	1000	8300	1000
1000	1000	8400	1000
1000	1000	8500	1000
1000	1000	8600	1000
1000	1000	8700	1000
1000	1000	8800	1000
1000	1000	8900	1000
1000	1000	9000	1000
1000	1000	9100	1000
1000	1000	9200	1000
1000	1000	9300	1000
1000	1000	9400	1000
1000	1000	9500	1000
1000	1000	9600	1000
1000	1000	9700	1000
1000	1000	9800	1000
1000	1000	9900	1000
1000	1000	10000	1000

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.

7-22-55 Sandoil fractured Cliff House 4400' - 4610' with 18,400 gallons oil and 14,000# sand. Breakdown pressure 2150 psi, maximum pressure 2250 psi, Average pressure 2250 psi. Injection rate 9 gal./min. Flush with 1800 gallons. Natural gas 486 MCF/D.

7-26-55 Sandoil fractured Point Lookout. Interval 4740' - 5125' with 11,100 gallons oil and 10,500# sand. Breakdown pressure 1500 psi, maximum pressure 3000 psi, Average pressure 2250 psi. Injection rate 3.24 bbls./min. (one pump). Flush none, screened but. Natural gage TSM. Overall gage 1,350 MWD.

SIG OK END AMDE OF COMEN

Continued from page 10

The similarity of the above to the condition of the water in the water

DATE: 11/11/2011 11:11 AM

• un cu con pe determinat from an exemplu de carte

THE INFORMATION IS OR REMAINS A CONFIDENTIAL SOURCE OF THE FBI AND WORK DONE FOR THE

CONFIDENTIAL

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$ if the matrix A is stable. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$ if the matrix A is not stable. It is shown that the solutions of the system (1) are unbounded and tend to infinity as $t \rightarrow \infty$ if the matrix A is not stable.

$\frac{d}{dt} \left(\frac{1}{\rho} \right) = - \frac{1}{\rho^2} \frac{d\rho}{dt}$

Combined 1991/1992 1992/1993 1993/1994 1994/1995 1995/1996 1996/1997 1997/1998 1998/1999 1999/2000 2000/2001 2001/2002 2002/2003 2003/2004 2004/2005 2005/2006 2006/2007 2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021 2021/2022 2022/2023 2023/2024 2024/2025 2025/2026 2026/2027 2027/2028 2028/2029 2029/2030 2030/2031 2031/2032 2032/2033 2033/2034 2034/2035 2035/2036 2036/2037 2037/2038 2038/2039 2039/2040 2040/2041 2041/2042 2042/2043 2043/2044 2044/2045 2045/2046 2046/2047 2047/2048 2048/2049 2049/2050 2050/2051 2051/2052 2052/2053 2053/2054 2054/2055 2055/2056 2056/2057 2057/2058 2058/2059 2059/2060 2060/2061 2061/2062 2062/2063 2063/2064 2064/2065 2065/2066 2066/2067 2067/2068 2068/2069 2069/2070 2070/2071 2071/2072 2072/2073 2073/2074 2074/2075 2075/2076 2076/2077 2077/2078 2078/2079 2079/2080 2080/2081 2081/2082 2082/2083 2083/2084 2084/2085 2085/2086 2086/2087 2087/2088 2088/2089 2089/2090 2090/2091 2091/2092 2092/2093 2093/2094 2094/2095 2095/2096 2096/2097 2097/2098 2098/2099 2099/2100 2100/2101 2101/2102 2102/2103 2103/2104 2104/2105 2105/2106 2106/2107 2107/2108 2108/2109 2109/2110 2110/2111 2111/2112 2112/2113 2113/2114 2114/2115 2115/2116 2116/2117 2117/2118 2118/2119 2119/2120 2120/2121 2121/2122 2122/2123 2123/2124 2124/2125 2125/2126 2126/2127 2127/2128 2128/2129 2129/2130 2130/2131 2131/2132 2132/2133 2133/2134 2134/2135 2135/2136 2136/2137 2137/2138 2138/2139 2139/2140 2140/2141 2141/2142 2142/2143 2143/2144 2144/2145 2145/2146 2146/2147 2147/2148 2148/2149 2149/2150 2150/2151 2151/2152 2152/2153 2153/2154 2154/2155 2155/2156 2156/2157 2157/2158 2158/2159 2159/2160 2160/2161 2161/2162 2162/2163 2163/2164 2164/2165 2165/2166 2166/2167 2167/2168 2168/2169 2169/2170 2170/2171 2171/2172 2172/2173 2173/2174 2174/2175 2175/2176 2176/2177 2177/2178 2178/2179 2179/2180 2180/2181 2181/2182 2182/2183 2183/2184 2184/2185 2185/2186 2186/2187 2187/2188 2188/2189 2189/2190 2190/2191 2191/2192 2192/2193 2193/2194 2194/2195 2195/2196 2196/2197 2197/2198 2198/2199 2199/2200 2200/2201 2201/2202 2202/2203 2203/2204 2204/2205 2205/2206 2206/2207 2207/2208 2208/2209 2209/2210 2210/2211 2211/2212 2212/2213 2213/2214 2214/2215 2215/2216 2216/2217 2217/2218 2218/2219 2219/2220 2220/2221 2221/2222 2222/2223 2223/2224 2224/2225 2225/2226 2226/2227 2227/2228 2228/2229 2229/2230 2230/2231 2231/2232 2232/2233 2233/2234 2234/2235 2235/2236 2236/2237 2237/2238 2238/2239 2239/2240 2240/2241 2241/2242 2242/2243 2243/2244 2244/2245 2245/2246 2246/2247 2247/2248 2248/2249 2249/2250 2250/2251 2251/2252 2252/2253 2253/2254 2254/2255 2255/2256 2256/2257 2257/2258 2258/2259 2259/2260 2260/2261 2261/2262 2262/2263 2263/2264 2264/2265 2265/2266 2266/2267 2267/2268 2268/2269 2269/2270 2270/2271 2271/2272 2272/2273 2273/2274 2274/2275 2275/2276 2276/2277 2277/2278 2278/2279 2279/2280 2280/2281 2281/2282 2282/2283 2283/2284 2284/2285 2285/2286 2286/2287 2287/2288 2288/2289 2289/2290 2290/2291 2291/2292 2292/2293 2293/2294 2294/2295 2295/2296 2296/2297 2297/2298 2298/2299 2299/2300 2300/2301 2301/2302 2302/2303 2303/2304 2304/2305 2305/2306 2306/2307 2307/2308 2308/2309 2309/2310 2310/2311 2311/2312 2312/2313 2313/2314 2314/2315 2315/2316 2316/2317 2317/2318 2318/2319 2319/2320 2320/2321 2321/2322 2322/2323 2323/2324 2324/2325 2325/2326 2326/2327 2327/2328 2328/2329 2329/2330 2330/2331 2331/2332 2332/2333 2333/2334 2334/2335 2335/2336 2336/2337 2337/2338 2338/2339 2339/2340 2340/2341 2341/2342 2342/2343 2343/2344 2344/2345 2345/2346 2346/2347 2347/2348 2348/2349 2349/2350 2350/2351 2351/2352 2352/2353 2353/2354 2354/2355 2355/2356 2356/2357 2357/2358 2358/2359 2359/2360 2360/2361 2361/2362 2362/2363

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A blank sheet of white paper with a light gray grid pattern. The grid consists of small squares, approximately 1 cm by 1 cm each, covering the entire page. There are no margins or other markings on the paper.

TOP OF OIL OX GAS METER

GEOLOGICAL SURVEY

DEVELOPMENT OF THE INTER-

UNITED STATES

TABLE 1. *Continued*

^a $\chi^2_{(1)} = 0.76$, $p = 0.38$; $\chi^2_{(1)} = 0.91$, $p = 0.34$.

PAPER

WILLIAM J. DODD

$\frac{1}{2} \left(\frac{1}{2} \right)^{n-1} = \frac{1}{2^n}$