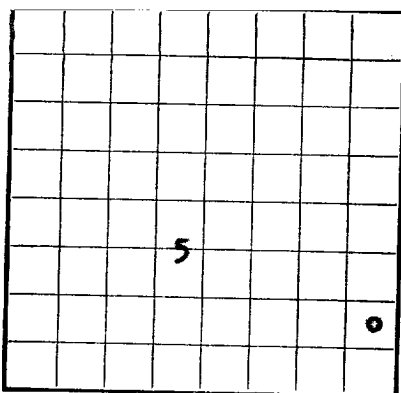


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER LC 065649
LEASE OR PERMIT TO PROSPECT Section 5
T-20 South, R-35 East

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Production Company Address 1434 Fidelity Union Bldg. Dallas, Tex.
Lessor or Tract Federal Saunders Field Pearl Queen State New Mexico
Well No. 7 Sec. 5 T 20-S R 35-E Meridian NMPM County Lea
Location 990 ft. ^(N.) of S Line and 330 ft. ^(W.) of E Line of Section 5 Elevation 3677.6
(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 Wesley M. Swanson
Wesley Swanson Title Field ForemanDate September 14, 1962

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

Commenced drilling 2-3-62, 19____ Finished drilling 2-15-62, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4988 to 4994 (oil) No. 4, from _____ to _____
No. 2, from 5000 to 5005 (oil) No. 5, from _____ to _____
No. 3, from _____ to _____ 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—	
<u>8-5/8 24</u>	<u>24</u>	<u>3</u>	<u>55</u>	<u>199</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>
<u>4-1/2 35</u>	<u>35</u>	<u>3</u>	<u>55</u>	<u>504</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>
<u>2-3/8 18</u>	<u>18</u>	<u>3</u>	<u>55</u>	<u>4991</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>	<u>55</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>211'</u>	<u>170</u>		<u>Cement to surface</u>	
<u>4-1/2</u>	<u>5055'</u>	<u>250</u>			

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
<u>Perf. 4988-4994 and 5000-5005', fraced w/50,000# 20-30 sand and 30,000 gals lease crude. Treated w/200 gals mud acid.</u>						

TOOLS USED

Rotary tools were used from 0 feet to 5057 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 16, 1962, 19____ Put to producing _____, 19____The production for the first 24 hours was 70 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Cactus Drilling Company, Driller Tom Helms, Driller
B. E. Thomas, Driller Chester Barter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0-</u>	<u>1849</u>	<u>1849</u>	<u>Red Bed and shale</u>
<u>1849</u>	<u>2071</u>	<u>222</u>	<u>Anhy</u>
<u>2071</u>	<u>2229</u>	<u>158</u>	<u>Salt</u>
<u>2229</u>	<u>3535</u>	<u>1306</u>	<u>Anhy and salt</u>
<u>3535</u>	<u>4031</u>	<u>496</u>	<u>Anhy w/sand stringers</u>
<u>4031</u>	<u>5057</u>	<u>1026</u>	<u>Dolo, good sand stringers</u>
<u>5057' TD</u>			
			<u>TOPS: Anhy 1942'</u>
			<u>Yates 3770'</u>
			<u>Seven Rivers 3989'</u>
			<u>Queen 4610'</u>

(OVER)

FORMATION RECORD—Continued

16-48094-4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible][illegible]

(b) $\frac{1}{2} \times 100 = 50$

Year	From	To	From	To
1960	1959	1960	1959	1960
1961	1960	1961	1960	1961
1962	1961	1962	1961	1962
1963	1962	1963	1962	1963
1964	1963	1964	1963	1964
1965	1964	1965	1964	1965
1966	1965	1966	1965	1966
1967	1966	1967	1966	1967
1968	1967	1968	1967	1968
1969	1968	1969	1968	1969
1970	1969	1970	1969	1970
1971	1970	1971	1970	1971
1972	1971	1972	1971	1972
1973	1972	1973	1972	1973
1974	1973	1974	1973	1974
1975	1974	1975	1974	1975
1976	1975	1976	1975	1976
1977	1976	1977	1976	1977
1978	1977	1978	1977	1978
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1981	1980	1981	1980	1981
1982	1981	1982	1981	1982
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1984	1983	1984	1983	1984
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2016	2015	2016	2015	2016
2017	2016	2017	2016	2017
2018	2017	2018	2017	2018
2019	2018	2019	2018	2019
2020	2019	2020	2019	2020
2021	2020	2021	2020	2021
2022	2021	2022	2021	2022
2023	2022	2023	2022	2023
2024	2023	2024	2023	2024
2025	2024	2025	2024	2025
2026	2025	2026	2025	2026
2027	2026	2027	2026	2027
2028	2027	2028	2027	2028
2029	2028	2029	2028	2029
2030	2029	2030	2029	2030</

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2175 22.4% ... 2176 22.5% ... 2177 22.6% ... 2178 22.7% ... 2179 22.8% ... 2180 22.9% ... 2181 23.0% ... 2182 23.1% ... 2183 23.2% ... 2184 23.3% ... 2185 23.4% ... 2186 23.5% ... 2187 23.6% ... 2188 23.7% ... 2189 23.8% ... 2190 23.9% ... 2191 24.0% ... 2192 24.1% ... 2193 24.2% ... 2194 24.3% ... 2195 24.4% ... 2196 24.5% ... 2197 24.6% ... 2198 24.7% ... 2199 24.8% ... 2200 24.9% ... 2201 25.0% ... 2202 25.1% ... 2203 25.2% ... 2204 25.3% ... 2205 25.4% ... 2206 25.5% ... 2207 25.6% ... 2208 25.7% ... 2209 25.8% ... 2210 25.9% ... 2211 26.0% ... 2212 26.1% ... 2213 26.2% ... 2214 26.3% ... 2215 26.4% ... 2216 26.5% ... 2217 26.6% ... 2218 26.7% ... 2219 26.8% ... 2220 26.9% ... 2221 27.0% ... 2222 27.1% ... 2223 27.2% ... 2224 27.3% ... 2225 27.4% ... 2226 27.5% ... 2227 27.6% ... 2228 27.7% ... 2229 27.8% ... 2230 27.9% ... 2231 28.0% ... 2232 28.1% ... 2233 28.2% ... 2234 28.3% ... 2235 28.4% ... 2236 28.5% ... 2237 28.6% ... 2238 28.7% ... 2239 28.8% ... 2240 28.9% ... 2241 29.0% ... 2242 29.1% ... 2243 29.2% ... 2244 29.3% ... 2245 29.4% ... 2246 29.5% ... 2247 29.6% ... 2248 29.7% ... 2249 29.8% ... 2250 29.9% ... 2251 30.0% ... 2252 30.1% ... 2253 30.2% ... 2254 30.3% ... 2255 30.4% ... 2256 30.5% ... 2257 30.6% ... 2258 30.7% ... 2259 30.8% ... 2260 30.9% ... 2261 31.0% ... 2262 31.1% ... 2263 31.2% ... 2264 31.3% ... 2265 31.4% ... 2266 31.5% ... 2267 31.6% ... 2268 31.7% ... 2269 31.8% ... 2270 31.9% ... 2271 32.0% ... 2272 32.1% ... 2273 32.2% ... 2274 32.3% ... 2275 32.4% ... 2276 32.5% ... 2277 32.6% ... 2278 32.7% ... 2279 32.8% ... 2280 32.9% ... 2281 33.0% ... 2282 33.1% ... 2283 33.2% ... 2284 33.3% ... 2285 33.4% ... 2286 33.5% ... 2287 33.6% ... 2288 33.7% ... 2289 33.8% ... 2290 33.9% ... 2291 34.0% ... 2292 34.1% ... 2293 34.2% ... 2294 34.3% ... 2295 34.4% ... 2296 34.5% ... 2297 34.6% ... 2298 34.7% ... 2299 34.8% ... 2300 34.9% ... 2301 35.0% ... 2302 35.1% ... 2303 35.2% ... 2304 35.3% ... 2305 35.4% ... 2306 35.5% ... 2307 35.6% ... 2308 35.7% ... 2309 35.8% ... 2310 35.9% ... 2311 36.0% ... 2312 36.1% ... 2313 36.2% ... 2314 36.3% ... 2315 36.4% ... 2316 36.5% ... 2317 36.6

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

[illegible]

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 piers or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

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

FROM-	TO-	TOTAL FEET	FORMATION
			FORMATION RECORD EMPLOYERS TO: Mr. J. H. ... FROM: Mr. J. H. ... DATE: ... RE: ...