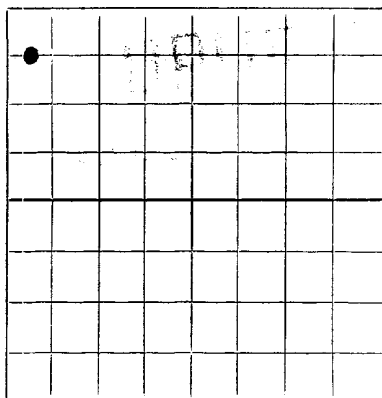


AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

Gulf Oil Corporation

(Company or Operator)

Lillie

(Lease)

Well No. 1, in NW $\frac{1}{4}$ of NW $\frac{1}{4}$, of Sec. 23, T. 24-S, R. 37-E, NMPM.

Fowler

Pool,

Lea

County.

Well is 660 feet from North line and 330 feet from West lineof Section 23-24-37

If State Land the Oil and Gas Lease No. is

Drilling Commenced June 23, 1952, 19. Drilling was Completed November 15, 1952, 19.Name of Drilling Contractor Loffland Brothers CompanyAddress 1005 Electric Building, Fort Worth 2, Texas

Elevation above sea level at Top of Tubing Head. The information given is to be kept confidential until 19.

OIL SANDS OR ZONES

No. 1, from 9775' to 10,200' No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13-3/8"	61#	New	304'				
9-5/8"	36#	New	3786'				
7"	23-26-29#	New	10,274'			10,075-10,150'	Production

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/4"	13-3/8"	319'	375	HONCO		
12-1/4"	9-5/8"	3800'	1050	HONCO		
8-3/4"	7"	10,287'	920	HONCO		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

NONE

Result of Production Stimulation NONE

Depth Cleaned Out

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0' feet to 10,288' feet, and from PSTD 10,201' feet to feet.
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to Producing November 15, 1952, 19.

OIL WELL: The production during the first 24 hours was 314 barrels of liquid of which 0 % was
was oil; 0 % was emulsion; 0 % water; and 0 % was sediment. A.P.I.
Gravity 45.8

GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of
liquid Hydrocarbon. Shut in Pressure lbs.

Length of Time Shut in

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	940'	T. Devonian	7060'	T. Ojo Alamo			
T. Salt		T. Silurian	8055'	T. Kirtland-Fruitland			
B. Salt	2290'	T. Montoya	8500'	T. Farmington			
T. Yates	2490'	T. Simpson	8870'	T. Pictured Cliffs			
T. 7 Rivers		T. McKee	9280'	T. Menefee			
T. Queen		T. Ellenburger	9775'	T. Point Lookout			
T. Grayburg		T. Gr. Wash		T. Mancos			
T. San Andres		T. Granite		T. Dakota			
T. Glorieta	4790'	T.		T. Morrison			
T. Drinkard		T.		T. Penn			
T. Tubbs	5870'	T.		T.			
T. Abo		T.		T.			
T. Penn		T.		T.			
T. Miss		T.		T.			

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	690'		Red Bed		8388		Lime
	949		Red Bed, Anhydrite & Sand		8445		Lime & Chert
	1088		Anhydrite		8493		Lime
	2150		Anhydrite & Salt		8499		Lime & Chert
	2209		Anhydrite		8507		Lime
	2262		Anhydrite & Salt		8622		Lime & Chert
	2395		Anhydrite		8632		Lime
	2495		Anhydrite & Lime		8647		Lime & Chert
	2558		Anhydrite & Gyp		8665		Sand & Lime
	2634		Anhydrite & Shale		8753		Chert & Lime
	2767		Anhydrite & Gyp		8854		Lime
	2826		Anhydrite & Lime		8885		Lime & Chert
	2971		Anhydrite & Gyp		8944		Lime
	3023		Anhydrite & Shale		8954		Lime & Chert
	3120		Anhydrite & Gyp		8964		Lime
	3194		Anhydrite & Lime		9041		Lime & Shale
	3355		Anhydrite & Gyp		9046		Lime
	3406		Anhydrite, Lime & Gyp		9178		Lime & Shale
	3462		Lime & Anhydrite		9211		Shale
	7733		Lime		9227		Shale & Lime
	7776		Lime & Shale		9243		Shale
	8170		Lime		9290		Shale & Lime
	8175		Lime & Chert		9297		Lime
	8182		Lime		9396		Lime & Shale
	8208		Lime & Chert		9400		Sand

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

November 20, 1952 (Date)
Company or Operator Gulf Oil Corporation Address Box 2167, Hobbs, New Mexico
Name Chris J. J. Position or Title Area Prod. Supt.

LILLIE #1

DRILL STEM TESTS CONTINUED

No. 12, 11-1-52 - 7 Hour and 42 minute Johnston Drill Stem Test 10,085-10,182' with 5/8" choke at 10,062' - Used 2 packers at 10,085' and 10,078' - Bombs at 10,178' and 10,180' - Tool opened 12:23 AM - 11-1-52 - No water blanket - Gas to surface 7 minutes (24 hour rate 895,600 cu.ft.) Mud to surface 32 minutes, oil 37 minutes, flowed 291.64 bbls 45 gravity clean oil and no water 7 hours - Reversed out 20 bbls oil and gas cut mud, cut 5% oil - Hydrostatic Pressure in 5250# out 5075# - Flowing Pressure initial 950# final 2075# - 15 minute BHP 2750#.

No. 13, 11-4-52- 2 Hour Johnston Drill Stem Test 10,182-10,271' with 5/8" choke at 10,159' - Used 2 packers 10,174' and 10,182' - Bombs at 10,267' and 10,269' - Tool opened 8:33 PM 11-4-52 - No water blanket - No gas to surface, very weak blow of air throughout test - Recovered 92' oil and gas cut mud, cut 10% oil, no water - Hydrostatic Pressure 5000# - Flowing Pressure 0# - 15 minute BHP 0#.

FORMATIONS CONTINUED

<u>DEPTH</u>	<u>FORMATION</u>
9400'	Sand
9428	Lime & Shale
9465	Lime & Sand
9477	Lime, Sand & Shale
9495	Lime & Shale
9514	Lime & Sand
9602	Lime & Shale
9627	Lime
9800	Lime & Shale
9841	Lime
9852	Lime & Shale
9867	Lime
9886	Lime & Shale
9956	Lime
9977	Lime & Shale
10,286	Lime
10,288	Granite
10,201	PLUGGED BACK TOTAL DEPTH

03252

CONFIDENTIAL

[illegible][illegible]

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The diagram shows a subject sitting at a table, looking at a video screen. A camera is positioned above the screen. A horizontal line on the screen represents the starting position of the hand. The distance from the hand to the target on the screen is labeled 'D'. The distance from the hand to the video screen is labeled 'L'. The distance from the camera to the video screen is labeled 'L_c'.

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	10	10	0
2	20	20	0
3	30	30	0
4	40	40	0
5	50	50	0
6	60	60	0
7	70	70	0
8	80	80	0
9	90	90	0
10	100	100	0

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1987) using a Shimadzu UV-160U ultraviolet-visible spectrophotometer. The concentration of chlorophyll was expressed as $\mu\text{g mL}^{-1}$ of the sample.

259

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, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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DEPTH	DEG.OFF	DEPTH	DEG.OFF
320'	1/4	7860	3-1/2
980	1-1/2	7950	3-1/2
1247	1/2	8010	3-3/4
1670	1/4	8165	3-3/4
2120	3-1/4	8180	4
2140	3-1/4	8215	3-1/2
2278	3-1/4	8270	3-1/2
2294	3-1/4	8305	3-1/2
2364	3-1/4	8325	3-1/4
2414	2-1/4	8415	3-1/2
2445	2-1/4	8425	3-3/4
2500	2-1/4	8455	4
2586	1-3/4	8480	3-3/4
2634	2	8495	4-1/4
2730	1	8512	4-1/2
2800	1-1/2	8525	4-1/2
2900	1-1/4	8545	4-3/4
3020	3/4	8562	4-3/4
3100	1/2	8572	5
3330	3/4	8580	4-3/4
3460	1-1/2	8590	4-3/4
3490	3/4	8600	5
3530	3/4	8615	4-1/2
3590	3/4	8620	4-1/2
3650	1	8634	4-1/2
3730	3/4	8664	4-1/4
3850	1/2	8680	3-3/4
3995	3/4	8698	3-1/2
4195	3/4	8762	4
4340	1	8782	3-3/4
4435	1-1/4	8808	3/4
4550	1	8842	3/4
4780	1-1/4	8865	3-1/4
4880	1-1/4	8885	3
5040	1-1/2	8900	3
5185	1-3/4	8917	2-3/4
5250	2	8943	3
5317	1-3/4	8960	0
5400	1-3/4	8977	3
5475	1-3/4	9006	2-3/4
5590	2-1/4	9039	2-1/4
5670	2	9070	2-1/4
5835	2-1/4	9091	2-1/2
5905	2	9117	2-1/2
5970	2	9145	2
6034	2-1/4	9225	2
6090	2	9252	1-3/4
6155	2-1/4	9279	1-3/4
6365	2	9295	1-3/4
6465	2	9324	1-3/4
6535	1-3/4	9360	1-1/2
6610	1-3/4	9428	1-1/4
6665	2	9462	1-1/2
6735	2-1/4	9493	1-1/2
6815	2	9514	1-1/2
6885	1-1/2	9535	1-3/4
6930	1-3/4	9567	1-1/2
6980	1-1/4	9602	1-1/4
7055	1	9625	1
7100	1-1/4	9656	1-1/4
7200	1-1/2	9693	0
7290	1-1/2	9730	1
7350	1-1/2	9758	1-1/4
7429	1-3/4	9800	1-3/4
7465	2	9817	1-1/4
7515	2-1/4	9840	1-1/2
7560	2-1/4	9865	1-3/4
7600	2-3/4	9956	1-1/4
7635	2-3/4	10,005	0
7670	2-3/4	10,045	1-1/4
7730	2-3/4	10,116	1-3/4
7780	3	10,205	2
7820	3-1/2	10,230	0
		10,271	0

DRILL STEM TESTS

- No. 1, 8-6-52 - 1 Hour 30 Minute Halliburton Drill Stem Test 7260-7385' with 5/8" choke 7228' - Used 2 packers 7252' and 7260' - Bombs at 7234' and 7383' - Tool opened 9:35 PM 8-6-52 - No gas, very weak blow of air 5 minutes and dead remainder of test - Recovered 35' drilling mud, no show - Hydrostatic Pressure 4545# - Flowing Pressure and 15 minute BHP 0#.
- No. 2, 8-16-52 - 1 Hour Johnston Drill Stem Test 7840-7960' with 5/8" choke 7815' - Used 2 packers at 7831' and 7840' - Bombs at 7956' and 7958' - Tool opened 11:33 AM 8-16-52 - No gas, light blow of air 16 minutes and dead 44 minutes remainder of test Recovered 30' drilling mud, no show - Hydrostatic Pressure 4150# - Flowing Pressure and 15 minute BHP 0#.
- No. 3, 8-20-52 - 2½ Hour Johnston Drill Stem Test 7975-8100' with 5/8" choke at 7951' - Used 2 packers at 7967' and 7975' - Bombs at 8096' and 8098' - Tool opened 8:35 PM 8-19-52 - Gas to surface in 8 minutes, 773,600 cu.ft. 24 hour rate - Mud to surface in 20 minutes, oil in 30 minutes - Flowed 109 bbls 35 gravity clean oil in 2 hours - Reversed out 15 bbls oil - Recovered 330' oil and gas cut mud, cut 5% oil - Hydrostatic Pressure 4300# - Flowing Pressure initial 1275# final 1825# - 15 minute BHP 2125#.
- No. 4, 8-20-52 - 1½ Hour Halliburton Drill Stem Test 8099-8150' with 5/8" choke at 8066' - Used 2 packers - Bombs at 8701' and 8148' - Tool opened 10:42 PM 8-20-52 - No gas, good blow of air start of test, decreased dead in 40 minutes 15 min BHP 0#.
- No. 5, 9-13-52 - 30 minute Halliburton Drill Stem Test 8590-8647' with 5/8" choke at 8561' - Used 2 packers at 8582' and 8590' - Bombs at 8564' and 8645' - Tool opened 12:40 AM 9-13-52 - No gas or fluid to surface, very light blow of air 5 minutes, dead remainder of test - Hydrostatic Pressure 4275# - Flowing Pressure initial 0# final 0# - 15 minute BHP 0#.
- No. 6, 9-20-52 - 1 Hour Halliburton Drill Stem Test 8724-8782' with 5/8" choke at 8692' - Used 2 packers at 8716' and 8724' - Bombs at 8698' and 8780' - Tool opened 12:25 PM 9-20-52 - Gas to surface 10 minutes (24 hour rate 117,100 cu.ft.) Recovered 1800' fluid, 180' oil and gas cut mud, cut 40% oil, 1260' of 38.5 gravity clean oil 360' sulphur water - Hydrostatic Pressure 4335# - Flowing Pressure 300-490# - 15 minute BHP 945#.
- No. 7, 10-8-52 - 1 Hour Johnston Drill Stem Test 9279-9400' with 5/8" choke 9254' - Used 2 packers 9272' and 9279' - Bombs at 9396' and 9398' - Tool opened 5:45 PM 10-8-52 - Light blow of air 24 minutes and dead 36 minutes - Recovered 190' drilling mud no shows - Hydrostatic Pressure 4900# - Flowing Pressure 100# - 15 min BHP 500#.
- No. 8, 10-20-52 - 2½ Hour Johnston Drill Stem Test 9786-9841' with 5/8" choke 9744' Used 2 packers at 9762' and 9768' - Bombs at 9837' and 9839' - Tool opened 12:55 PM 10-20-52 - No water blanket - Gas to surface 8 minutes, mud 1 hour 20 minutes, oil 1 hour 30 minutes - Flowed 47 bbls 45 gravity clean oil 1 hour - Reversed out 10 bbs oil and gas cut mud, cut 50% oil, 8 bbls clean oil, no water - Hydrostatic Pressure 5250# - Flowing Pressure 975# - 15 minute BHP 3475#
- No. 9, 10-22-52 - 8 Hour and 10 minute Johnston Drill Stem Test 9841-9907' with 5/8" choke at 9817' - Used 2 packers at 9833' and 9841' - Bombs at 9903' and 9905' - Tool opened 3:05 PM 10-22-52 - Gas to surface 5 minutes, mud 30 minutes - Flowed to pits 5 minutes, oil 40 minutes. Turned to tank flowed 326 bbls 45 gravity clean oil, no water 7½ hours - Gas volume 993,300 cu.ft. - Reversed out 6 bbls oil, no water - Hydrostatic Pressure 5125# - Flowing Pressure 750-2125# - 15 min BHP 3400#.
- No. 10, 10-25-52 - 10 Hour Johnston Drill Stem Test 9914-10,005' with 5/8" choke at 9883' - Used 2 packers 9907' and 9914' - Bombs at 10,001' and 10,003' - Tool opened 1:40 PM 10-25-52 - No water blanket - Gas to surface 6 minutes 828,000 cu.ft. - Mud 55 minutes, oil 60 minutes - Flowed 311.61 bbls 45 gravity clean oil, no water 9 hours - Reversed out 7 bbls oil, - Hydrostatic Pressure 5575# - Flowing Pressure 1175# - 15 minute BHP 3250#.
- No. 11, 10-27-52 - 7 Hour 39 minute Johnston Drill Stem Test 10,005-10,085' with 5/8" choke 9983' - Used 2 packers 9996' and 10,005' - Bombs at 10,081' and 10,083' - Tool opened 3:48 PM 10-27-52 - No water blanket - Gas to surface 7 minutes - (828,400 cu.ft. 24 hour rate) Mud 26 minutes, oil 31 minutes - Hydrostatic Pressure 5200# - Flowing Pressure 750-1950# - 15 minute BHP 3375#.