

OCT 5 1960

U. S. LAND OFFICE Las Cruces

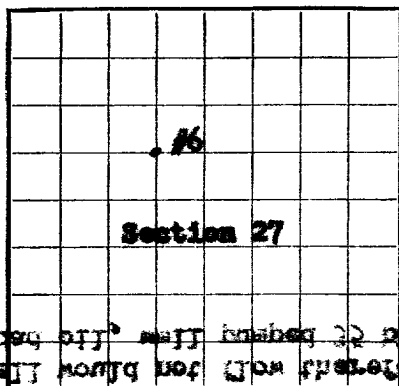
SERIAL NUMBER 029419 (b)

LEASE OR PERMIT TO PROSPECT

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ARTESIA, OFFICE

UNITED STATES

SEP 29 1960
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Grayburg Oil Company** Address **Box 38, Grayburg, New Mexico**
Well No. **3330** Section **27** Township **33N** Range **30E** Meridian **N.M.P.M.**
Location **1960** Line and **10** of **Section 27** Township **33N** Range **30E** Meridian **N.M.P.M.**
The information given herewith is a complete and correct record of the well and all work done thereon
for the purpose of determining mineral availability.
REVIEWED BY **J. J. Schumberger** - (2ND-DIT) - 3330 - Signed: *J. J. Schumberger*

Date **September 24, 1960** Title **Dist. Supt.**

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

Commenced drilling **July 2, 1960** Finished drilling **August 24, 1960**

LITHOLOGY OR GAS SANDS OR ZONES

No. 1, from **2330'** to **2500'** No. 4, from **3804'** to **3828'**
No. 2, from **3094'** to **3615'** No. 5, from **3615'** to **3668'**
No. 3, from **3668'** to **3770'** No. 6, from **3770'** to **3804'**
In the **3668'** to **3770'** interval, gas was collected from **3668'** to **3770'**
No. 3, from **3770'** to **3804'**
No. 4, from **3804'** to **3828'**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	2075'	975	Halliburton	---	---
5-1/2"	3770'	350	Halliburton	---	---

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	2075'	975	Halliburton	---	---
5-1/2"	3770'	350	Halliburton	---	---

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

TOOLS USED

Rotary tools were used from **0** feet to **7990** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **September 20, 1960**
The production for the first 24 hours was **160** barrels of fluid of which **22** % was oil; _____ %
emulsion; **78** % water; and _____ % sediment. Gravity, °Bé. **37.8°**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Former _____, Driller _____, Driller
Bryant _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	525	525	Sand & redbeds
525	726	201	Anhydrite
726	1700	974	Salt
1700	1860	160	Anhydrite
1860	2243	383	Sand & anhydrite
2243	2889	646	Dolomite, anhydrite & sand
2889	3069	180	Sand & anhydrite
3069	3324	255	Sand
3324	3668	344	Dolomite & sand
3668	3762	94	Sand
3762	5404	1642	Dolomite
5404	6218	814	Sand & dolomite
6218	6788	570	Dolomite
6788	7845	1057	Sand
7845	7990	145	Lime & shale
	7990	TOTAL DEPTH	

GEOLOGICAL TOPS BY SCHUMBERGER SOME LOG:

Top Anhydrite	525'	Top Premier	3668'
Top Salt	726'	Top San Andres	3762'
Base Salt	1700'	Top Glorieta	5404'
Top Yates	1860'	Top Clearfork	6218'
Top Seven Rivers	2243'	Top Tubb	6788'
Top Queen	2889'	Top Abo	7845'
Top Pennrose	3069'		
Top Grayburg	3324'		

(OVER)

FORMATION RECORD—Continued

10-48094-4

1997, 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, 2680, 2681, 26

050713 (c)

LEAVE OR PERMIT TO PROCEED

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Well would not flow therefore installed pumping equipment. Water recovery of all
 load oil, well pumped 35 bbls. oil and 130 bbls. water. Collected gravity 37.8°.

LOCATE WELL CORRECTLY

LOCATE WELL CO.
200 N. 3RD ST.

INVESTMENT NO. 1 - (SAND-OIL) - 37/0 - 3855;
Broke for section down a hole of 37/0-3855; with one pump truck at 2800' with
inj. rate of 40 bbls. at 2800' and 65 bbls. at 3000' and 100 bbls. at 3200'.
down with 4 pumps at 3000' and 65 bbls. at 3200' and 100 bbls. at 3400'.
Rate of 29.7 bbls. per min. Fractured open hole 37/0-3855; with 1275 bbls. use. oil
70/0000 20/40 sand and 9000 lbs. cement, Inc. Grouted treatment with sand
1 1/4 per min. and gradually increased sand to 3 1/4 per min. and 12000 lbs.
3900', min. pressure 3550'. Max. inj. rate 30 bbls. per min. in 1 hr. rate 29.7
bbls. per min. used 250 bbls. of oil to 12000'. Shut down pressure 1000', dropped to
1500' in 5 hours.

Noted out comment to 38551 - P.B.T.D. 38551.

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

Completed drilling 19 00 176969 - 3830 - 176 weeks
Finished drilling 19 00 August 24

7690 - 7760 - 7800 GAS SANDS OR ZONES

(Derecho de p. 5)

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IN THE, 5/8" N.C. Tool open 3 hours at 3000 ft. Gas surfaced as good blow in 1 hour & 10 mins., declined to weak blow at end of test. Pulled 3-1/2" drill pipe & recovered 360' of gas cut and water cut drilling mud and 4630' surface water. No gas in water. The show of oil 30 ft. in and one 3140 ft. I.P. 140', I.P. 2000'. 20 mins. building 2700'. Temperature 146°

No. 1 from 3330' to 3200' No. 4 from 3500' to 3538'

3/4" MC, 3/4" MC. Tool open 3 hours with weak blow of air for 31 min. and died. Closed and reopened tool with no blow. Reopened tool drilling mud, no show of oil, gas or water. H.P. in and out 3440%. I.P. zero, T.P. zero. 15 - min. buildup zero.

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 the casing, state fully, and if any casing was changed, state the date and reason. If the well has been abandoned, give date, size, position, and reasons. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing. If the well was abandoned for any reason, state the date and reason. Kind of stone (limestone or granite) and pulled from. From. To. Purpose.

HISTORY OF OIL OR GAS WELL

10-5089-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Amount of mud used	Mud Gravity	Method used	Number sacks of cement	Water used	Time required
---	---	Hand trowel	250	500	15
---	---	Hand trowel	250	500	15

PLUGS AND ADAPTERS

Heaving ding - 7/1st/2nd	Length	Depth set
Abandonment - 1/1st/2nd	Size	

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	0	feet to	feet and from	feet to	feet
Cable tools were used from		feet to	feet and from	feet to	feet

DATE

If gas well, cu. ft. per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas
Emulsion; % water; and % sediment	Gravity, °Bé.
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil.	Paid to producing _____ September 20, 19____

EMPLOYEES

Driller	Driller	Driller
Driller	Driller	Driller

FORMATION RECORD

FORMATION	TOTAL FEET	TO -	FROM -
Lime & shale	145	1990	1945
Sand	1057	1885	1780
Dolomite	270	1858	1588
Sand & dolomite	874	1804	1514
Dolomite	1945	1705	1315
Sand	94	1611	1517
Dolomite & sand	344	1568	1474
Sand	555	1534	1439
Sand & anhydrite	180	1354	1274
Dolomite, anhydrite & sand	646	1269	1205
Sand & anhydrite	383	1225	1187
Anhydrite	160	1065	1005
Salt	274	791	764
Anhydrite	201	590	570
Sand & nodules	205	385	365
TOTAL DEPTH	7990		

LOGICALLY SOUND BY SCHLESINGER

Top Green	10-	Top Seven Rivers	5243	Top App	6743	FORMATION	6742
Top Yellow	10-	Top Yellow	1850	Top Clearfork	6716		
Base Salt		Top Salt	1700	Top Glorietta	6704		
Top Salt		Top Salt	755	Top San Andres	3752		
Top Amphibolite		Top Amphibolite	525	Top Treadler	3668		

FORMATION RECORD-Continued

TO GLADYS