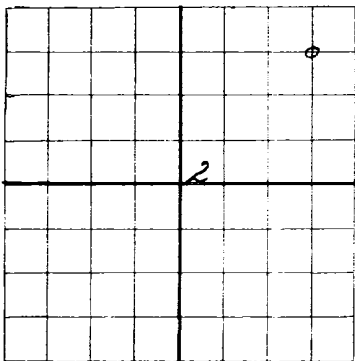


FORM C-105

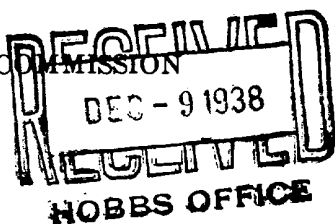
N



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico



WELL RECORD

DUPLICATE

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE.

The Texas Company **Drawer "K", Wink, Texas**
Company or Operator Address
St. of N.M. "U" Well No. **1** in **NE $\frac{1}{4}$ -NE $\frac{1}{4}$** of Sec. **2**, T. **18-S**
Lease
R. **34-E** N. M. P. M. **Vacuum** Field, **Lea** County.
Well is **675** feet south of the North line and **660** feet west of the East line of **Said Section 2**.
If State land the oil and gas lease is No. **B-867** Assignment No. _____
If patented land the owner is _____ Address _____
If Government land the permittee is _____ Address _____
The Lessee is **The Texas Company** Address **Box 2332, Houston, Texas**
Drilling commenced **October 7, 1938** Drilling was completed **November 16, 1938**
Name of drilling contractor **Helmerich & Payne Inc.** Address **Tulsa, Oklahoma**
Elevation above sea level ~~at top of casing~~ **4016** feet **at derrick floor**.
The information given is to be kept confidential until _____ 19____

OIL SANDS OR ZONES

No. 1, from **4380** to **4710** 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	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
7-5/8	26.40	8	LW	1560	Baker	Guide			
5$\frac{1}{2}$	17	10	Smls	4110	"	"			

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
	7-5/8	1554	300	Halliburton		
	5$\frac{1}{2}$	4091	200	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

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 **4710** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing **November 16, 1938** on test.
The production of the first **2** hours was **103** barrels of fluid of which **100** % was oil; **-** % emulsion; **-** % water; and **-** % sediment. Gravity, Be. **38.2**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____ **Gas-Oil Ratio - 780**

EMPLOYEES

E. W. Adams Driller **J. R. Miller** Driller
L. C. Cornett Driller _____ Driller

FORMATION RECORD ON OTHER SIDE

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.

Subscribed and sworn to before me this **6th**

Wink, Texas **12-6-38**
Place Date

day of **December** 19 **38**

Name **[Signature]**

Position **District Superintendent**

Notary Public

Representing **The Texas Company**
Company or Operator

My Commission expires **5-31-39**

Address **Drawer K, Wink, Texas**

PDGJr - JPB

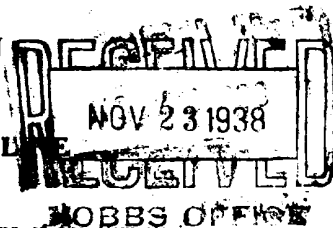
FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	140	140	Caliche
140	200	60	Sand & Shells
200	963	763	Red Beds & Shells
963	1512	549	Red Rock & Red Beds
1512	1635	123	Anhydrite
1635	1700	65	Salt & Anhydrite
1700	1900	200	Salt
1900	2640	740	Salt & Anhydrite
2640	3309	669	Anhydrite
3309	3329	20	Sand & Anhydrite
3329	3652	323	Anhydrite
3652	3738	86	Anhydrite & Lime
3738	3768	30	Anhydrite
3768	3865	97	Anhydrite & Lime
3865	4380	515	Hard Lime
4380	4432	52	Lime & Sandy Lime
4432	4480	48	Medium Lime
4480	4592	112	Lime & Sandy Lime
4592	4710	118	Saturated Lime.
			TOTAL DEPTH 4710'.
			Deviation Tests as Follows:
			500' - 1/8° 2370' - 2° 4036' - 1°
			1000' - 1/8° 2530' - 1°
			1500' - 1/8° 3120' - 1 1/8°
			2160' - 3° 3510' - 1 1/8°

F W M I CO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

REQUEST FOR PERMISSION TO CONNECT WITH PIPE LINE



This request should be SUBMITTED IN TRIPLICATE. See instructions in the Rules and Regulations of the Commission.

Fort Worth, Texas

November 21, 1938

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

DUPLICATE

Permission is requested to connect The Texas Company State of New Mexico "U"
 Wells No. 1 in NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 2, T. 18 S, R. 34 E, N. M. P. M.,
Vacuum Field, Lea County, with the pipe line of the
Texas-New Mexico Pipe Line Company Houston, Texas
 Pipe Line Co. Address
 Status of land (State, Government or privately owned) State
 Location of tank battery Approximately 660' S & 130' E of this well
 Description of tanks Two high 500 barrel bolted steel tanks
 Logs of the above wells were filed with the Oil Conservation Commission see note, 19__

All other requirements of the Commission have ~~XXXX~~ been complied with. (Cross out incorrect words.)

Additional information:

Note: Log of well will be filed upon receipt of final records.

Yours truly,

Permission is hereby granted to make pipe line connections
requested above.

OIL CONSERVATION COMMISSION,

By A. ANDREAS R.M.
 State Geologist
 Title Member Oil Conservation C'm's'n
 Date NOV 23 1938

THE TEXAS COMPANY

By [Signature] Owner or Operator
 Position Acting Division Manager
 Address Box 1720, Fort Worth, Texas

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971). The *Chlorophyll a* and *Chlorophyll b* contents were expressed as $\mu\text{g/g}$ of dry weight.

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, 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, 26

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

1. *Chlorophyll a* (Chl *a*)