

151 - 7000 - 12-13  
B-29-29-15

February 5, 1964

Mr. A. L. Porter, Jr.  
Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Porter:

Enclosed please find Humble's Application For Unorthodox Location in the South Waterflow Gallup Pool in San Juan County, New Mexico. This request is necessitated by the fact that coal mining operations upon the 40-acre drillsite tract prevent us from drilling at the prescribed location.

Thank you for your consideration in this matter.

Very truly yours,  
COPY SIGNED WILLIAM G. ODELL

William G. Odell

WGO:mg  
Enclosures (3)



1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting two heads)  
 2.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting two tails)  
 3.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting one head and one tail)  
 4.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting one tail and one head)

*Journal of Management Education* 30(6)

3. *Conclusions*—The results of this study suggest that the use of a single, low-dose, short-acting benzodiazepine, such as lorazepam, may be a safe and effective method of sedation for the treatment of acute agitation in the emergency department. The use of a single, low-dose, short-acting benzodiazepine may be a safe and effective method of sedation for the treatment of acute agitation in the emergency department.

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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BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION  
OF HUMBLE OIL & REFINING COMPANY  
FOR AN EXCEPTION TO THE FOOTAGE  
REQUIREMENTS OF RULE 3 OF ORDER  
NO. R-2612 IN CASE NO. 2935 IN  
THE SOUTH WATERFLOW GALLUP POOL  
SAN JUAN COUNTY, NEW MEXICO.

Case No. \_\_\_\_\_  
Order No. \_\_\_\_\_

APPLICATION FOR UNORTHODOX LOCATION

Humble Oil & Refining Company, a Delaware corporation, authorized and licensed to do business in New Mexico, hereinafter designated as Applicant," for its application herein represents unto this Commission as follows:

I.

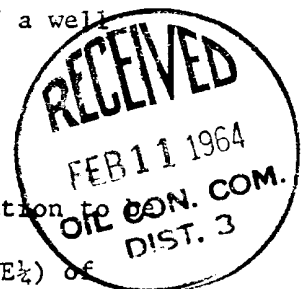
By Order No. R-2612 and Case No. 2935, this Commission established spacing and special rules and regulations for the South Waterflow Gallup oil pool located in San Juan County, New Mexico. Rule 3 of said order provides in part, "Each well projected to or completed in the Gallup formation in the South Waterflow Spacing Area shall be located within 150 feet of the center of a governmental quarter-quarter section." Rule 4 of said order further provides, "The Secretary-Director of the Commission may grant an exception to the footage requirements of Rule 3 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon."

II.

Applicant desires to drill a well to test the Gallup formation located in the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$ ) of Section 29, Township 29 North, Range 15 West, San Juan County, New Mexico, and to dedicate the following described acreage to said well for production from the Gallup formation, to-wit:

Township 29 North, Range 15 West

Section 29: N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$



Certain coal mining operations have in the past and are presently being conducted in and around the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$ ) of said Section 29, the same being within a so-called "coal corridor" reserved by the lessor for the use of the Utah Construction and Mining Company. More particularly, a certain "haul road," together with a "ramp road," and "tailings" deposits are located within the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$ ) of said Section 29, which make it impossible for this Applicant to drill the aforesaid well upon the prescribed location as established by Order R-2612. Applicant desires to drill the well at a location 500 feet from the north line and 2,275 feet from the east line of said Section 29. The proposed location, together with a plat of the topographical obstructions, are more particularly set forth upon this Commission's "Well Location and Acreage Dedication Plat" prepared for the Applicant by Robert H. Ernst, New Mexico, PE and LS 2463, a copy of which is attached hereto and designated as Applicant's Exhibit "A". For informational purposes, attached hereto as Applicant's Exhibit "B" is a copy of "Sundry Notices and Reports on Wells" hereto filed by the Applicant with the United States Department of the Interior, Geological Survey.

### III.

Applicant further alleges and states that its oil and gas lease covering the proposed drillsite tract, which was granted to Applicant by the Navajo Tribe, as lessor, restricts oil and gas drilling operations within the so-called "coal corridor" described above, which said restriction limits this Applicant's access to the surface of the Northwest Quarter of the Northeast Quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$ ) of said Section 29 and is a factor affecting Applicant's proposed drilling in said quarter-quarter section.

### IV.

The proposed drillsite location, together with all offsetting tracts, are owned in fee by the Navajo Tribe of Indians, subject to existing leases and easements. This Applicant holds valid and subsisting oil and gas leases upon the proposed drillsite tract, as well as all tracts offsetting the drillsite tract, except the Southeast Quarter of the Northeast Quarter (SE $\frac{1}{4}$ NE $\frac{1}{4}$ )

of said Section 29, which tract is presently unleased Navajo Tribal lands. A copy of this application has been mailed by registered mail to the Navajo Tribe at Farmington, New Mexico and to the Department of the Interior, United States Geological Survey, Farmington, New Mexico.

WHEREFORE, Applicant requests this Commission to enter its order administratively granting an exception to the footage requirements of Rule 3 of Order R-2612 in Case 2935, and allowing this Applicant to drill and produce from a well in the Gallup formation to be located 500 feet from the north line and 2,275 feet from the east line of said Section 29, Township 29 North, Range 15 West.

Dated this 4th day of February, 1964.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By William G. Odell

Mr. William G. Odell  
P. O. Box 120  
Denver, Colorado  
534-1251

Mr. Howard C. Bratton  
Hinkle, Bondurant, Bratton & Christy  
600 Hinkle Building  
Roswell, New Mexico  
622-6510

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date **February 1, 1964**

Operator **HUMBLE OIL & REFINING COMPANY** Lease **Navajo Tract 13**  
 Well No. **1** Unit Letter **B** Section **29** Township **29 North** Range **15 East** NMPN  
 Located **500** Feet From **North** Line, **2275** Feet From **East** Line  
 County **San Juan** G. L. Elevation **5333' ungraded** Dedicated Acreage **180** Acres  
 Name of Producing Formation **Gallop** Pool **South Waterflow Gallop**

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?  
 Yes ☒ No ☐
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communization agreement or otherwise? Yes ☐ No ☐ If answer is "yes", Type of Consolidation. **Unit Agreement**
3. If the answer to question two is "no", list all the owners and their respective interests below.

Owner

Land Description

Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

**HUMBLE OIL & REFINING COMPANY**

(Operator)

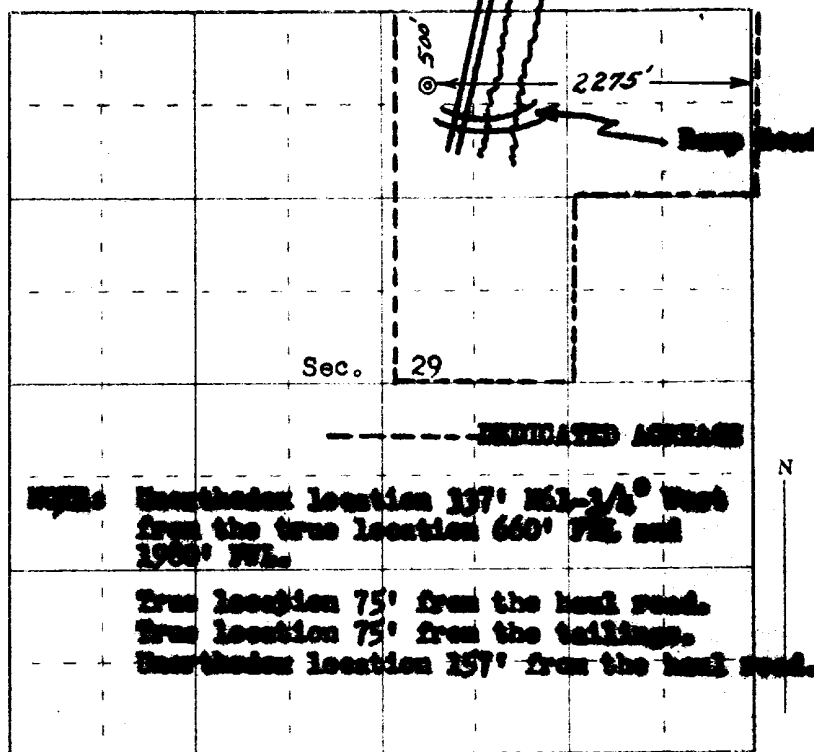
(Representative)

P. O. Box 3082

(Address)

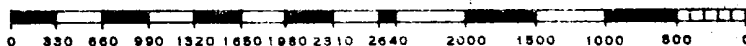
Durango, Colorado

Note: All distances must be from outer boundaries of section.



**NOTE: Northeast location 137' N51-1/4° West from the true location 660' FWL and 1966' FWL.**

**True location 75' from the haul road.  
 True location 75' from the tailings.  
 Northeast location 137' from the haul road.**



Scale 4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

Date Surveyed **31 January 1964**

Ernst Engineering co.  
 Durango, Colorado

**EXHIBIT "A"**

Registered Professional Engineer and/or Land Surveyor  
 Robert H. Ernst, N. Mex. PE & LS 2463

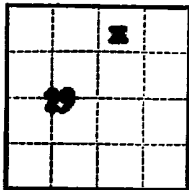
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. 14-20-0603-7107



**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 1, 1964

**Navajo Tract 13**  
Well No. 1 is located 500 ft. from [N] line and 2275 ft. from [E] line of sec. 29  
**NE NE Section 29** **29N** **19W** **100M**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**South Waterflow Gallup** **San Juan** **New Mexico**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is - ft. **5333' Ungraded**

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Rotary drilling equipment will be used to drill to approximately 4350', a Gallup test. Casing Program: 200' of 8-5/8" cemented to surface. Required amount of 8-7/8" or 4-1/2" production casing will be run and cemented with sufficient volume of cement to cover the highest potentially productive zone. Mud program will consist of active muds from surface to 3600' and a low solids gel from 3600' to total depth. Electric logs, etc. will be run prior to setting productive casing or abandonment of well. Stimulation treatments such as acidizing or fracturing may be employed in completion.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company  
Address P. O. Box 3082  
Durango, Colorado  
By COPY (ORIGINAL SIGNED) B. M. BRADLEY  
Title Dist. Supt.