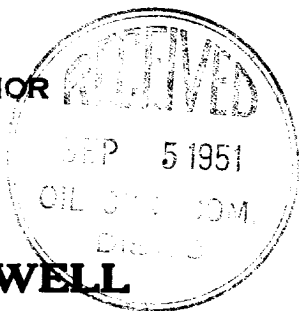


Form 9-390

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 060246
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

Company Delhi Oil Corporation Address 1315 Pacific Ave. Dallas, Texas
Lessor or Tract Florence Field Blanco-La Plata State New Mexico
Well No. 3-42 Sec. 27 T. 22 R. 2 Meridian NMP County San Juan
Location 953 ft. [N.] of S Line and 853 ft. [E.] of W Line of Section 27 Elevation 5609 C.L.
(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 J.E. Howell
Title Superintendent

Date August 31, 1951

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

Commenced drilling July 2, 19 51 Finished drilling July 17, 19 51

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3755 to 4430-G No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None 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—	
10 3/4	49.50	8RT	Hallib.	271	None				Surface
7	30	8RT	"	3761	Safety				
2	4.70	8RT	3895	5591	None				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	279	200	Hallib.	Drig. w/water	
7	3740	200	"	9.3.	
2	3880				

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Qts.	Tin	SNG	1840	7/18/51	3840-4575	Drilled w/gas clean out not necessary

TOOLS USED

Rotary tools were used from 0 feet to 4575 feet, and from _____ feet to _____ feet
Cable tools were used from None used feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19 _____ Put to producing Well Shut in 7/31/51
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours 2000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 2800

EMPLOYEES

J.W. Sprayberry, Driller T. Glazebrook, Driller
V.A. Zarlingo, Driller H. Young, Pusher

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	730	730	Shale & Sandy shale
730	902	172	Interbedded sand & shale
902	1112	210	Shale
1112	1165	53	Sand
1165	1795	630	Shale w/thin beds of sand-Top of Kirtland @ 1165
1795	2095	300	Interbedded sand shale & coal-Top of Fruitland @ 1795
2095	2155	60	Sand-Top of Pictured Cliffs @ 2095
2155	3755	1600	Shale w/sand streaks-Top of Lewis @ 2155
3755	3852	97	Sand & Shale-Top of Cliff House @ 3755
3852	4330	478	Shale, sand and coal-Top of Menefee @ 3852
4330	4430	100	Sand-Top of Point Lookout @ 4330
4430	4575	145	Shale-Top of Mancos @ 4430

(OVER)

LOG OF OIL OR GAS WELL

1. TORRE VALLE, ITALIA

1. The first step is to identify the variables involved in the problem. In this case, the variables are the number of hours worked (H) and the number of hours of leisure (L). The total number of hours available is 24 hours per day.

2. The second step is to write down the objective function, which is the function that we want to maximize or minimize. In this case, the objective function is the utility function, which is given by:

$$U(H, L) = \ln(H) + \ln(L)$$

3. The third step is to write down the constraint function, which is the function that defines the feasible region. In this case, the constraint function is the budget constraint, which is given by:

$$H + L = 24$$

4. The fourth step is to solve the optimization problem. This can be done using the method of Lagrange multipliers. The Lagrangian function is given by:

$$\mathcal{L}(H, L, \lambda) = \ln(H) + \ln(L) + \lambda(24 - H - L)$$

The first-order conditions are given by:

$$\frac{\partial \mathcal{L}}{\partial H} = \frac{1}{H} - \lambda = 0$$

$$\frac{\partial \mathcal{L}}{\partial L} = \frac{1}{L} - \lambda = 0$$

$$\frac{\partial \mathcal{L}}{\partial \lambda} = 24 - H - L = 0$$

Solving these equations, we find that the optimal solution is:

$$H^* = 12$$

$$L^* = 12$$

5. The fifth step is to check the second-order conditions to ensure that the solution is a maximum. In this case, the Hessian matrix is given by:

$$H = \begin{bmatrix} -\frac{1}{H^2} & 0 \\ 0 & -\frac{1}{L^2} \end{bmatrix}$$

Since the Hessian matrix is negative definite, the solution is a maximum.

6. The sixth step is to interpret the results. The optimal solution is that the individual should work 12 hours and have 12 hours of leisure.

7. The seventh step is to write a conclusion. The conclusion is that the individual should work 12 hours and have 12 hours of leisure.

2017-2018

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, 2680, 26

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

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