

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

MISCELLANEOUS REPORTS ON WELLS

1954 APR 25 AM 7:42

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

| | | | | | |
|---|--|---|--|--------------------------|----------|
| REPORT ON BEGINNING DRILLING OPERATIONS | | REPORT ON RESULT OF TEST OF CASING SHUT-OFF | | REPORT ON REPAIRING WELL | X |
| REPORT ON RESULT OF PLUGGING WELL | | REPORT ON RECOMPLETION OPERATION | | REPORT ON (Other) | |

4-22-54
(Date)

Odessa, Texas
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Sun Oil Company
(Company or Operator)

H. D. McKinley
(Lease)

Bickerstaff & Tibbets
(Contractor)

Well No. 2 in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec. 5

T. 19 S., R. 35 E., NMPM., Hobbs Pool, Lea County.

The Dates of this work were as follows:

Notice of intention to do the work (was) (was not) submitted on Form C-102 on _____, 19_____,
(Cross out incorrect words)

and approval of the proposed plan (was) (was not) obtained.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

See attached sheets for complete breakdown on repair of this well.

Witnessed by N. J. Keith
(Name)

Sun Oil Company
(Company)

Foreman
(Title)

Approved: OIL CONSERVATION COMMISSION

S. G. Stanley
(Name)

(Title)

(Date)

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name John M. Surany

Position Foreman

Representing Sun Oil Company

Address Box 2792, Odessa, Texas

H. D. McKinley Well #3

- 3-10-54 8 A- 9:20 A pumped 100 bbls. of water down 3 1/2" tubing, while bleeding 7" and 9 5/8"-tubing on vacuum for 18 minutes and then a light blow. 7" and 9 5/8" casing open to separator w/40# pressure. 9:20 A - 10:25 A - pumped 100 bbls. of water down 7" casing. Got partial returns of water on 9 5/8" casing. 10:15 - 10:35 A shut in 9 5/8" casing to change flow line to pits - press. 120#. 10:35 - 10:44 A.M. bleeding off 9 5/8" casing down to strong blow of gas but no fluid. 10:44 - 11:45 A pumped 100 bbls. of water down 7" casing. 9 5/8" began to make heads of water and gas. Shut down pump on 7" casing and 9 5/8" quit making water. 11:45 - 12:50 p.m. well quite - broke off 4" master gatevalve and screwed on Kelly. 9 5/8" began kicking water at 12:50 p.m. 12:50 - 1:30 P.M. 9 5/8" and 7" shut in w/250# on 7" and 350# on 9 5/8". 1:30 - 2 P - bleeding off 7" and 9 5/8" casing - 9 5/8" casing 100#. 2P - 3:20 P - pumped 150 bbls. water down 7" casing - 9 5/8" press. 100#. 3:20 P - 6P bleeding down 7" and 9 5/8" casing. 6P - 10 P - mixed 60 sacks Magobar, 40 sacks gel, 25 sacks mud fiber - 150 bbls. of mud. Weight 9.4, Vis. 49 - pumped 80 bbls. down 7" casing, 70 bbls. down 9 5/8". 10:15 P to 11:30 P - 7" casing 400# - 9 5/8" casing 400# - 11:30 P - 1:30 A bleeding 7" casing and W. O. mud. 1:30 A to 6A mixed 40 sacks gel and 52 sacks Magobar - weight 10.0#, vis. 44 - preparing to pump down 9 5/8". 7" casing from 1:30 A to 6 A press. 425 to 100#. Mixed 150 bbls. mud 10#, Vis. 42, 40 sacks gel, 52 sacks Magobar. Pumped down 9 5/8" casing and circ. out 7" casing. Install BOP, pulled on packer with 80,000# could not pull. Ran Dialog string shot. Two shots at 4044, unable to back off. One shot at 4024 unable to back off. One shot at 3959 backed off and pulled 180 jts. 3" tubing leaving 5 joints in hole. Dialog could not get below 4058'. Now changing runs in BOP and preparing to pick up 2 7/8" D P and run 5 1/2" wash pipe with rotary shoe to wash over fish to top of packer. Hole standing full of fluid.
- 3-11-54 7A to 6 P picked up 5 1/2" rotary shoe w/ 6 1/8" ribs - 5 jts. 5 1/2"OD wash pipe - two drill collars - Bowens jars - T.I.W. safety joint. Brow bumper sub and 2 7/8" DP - checked top of fish at 3947 w/ D.P. Started W. O. fish at 6:45 P at 7:45 had 20' W.O. fished - attempted to make connection - but well back flowing through D.P. from 8:15 to 1:30 A circulated water in hole - wind too high to make connection and drill - 1:30 A to 7A wash over fish to 4041 - top of packer is 4063. Hole circulated o.k. 7A - 10A wash over fish 4041 - 4063 top of packer.
- 3-12-54 10 A - 11:30 A circulated hole. 11:30 A - 3 P - pull and lay down wash pipe and pick up overshot and 5 DC. 3P-4P going in hole caught fish. Hit jars two times and jarred loose. 4P - 7:30 P pull out of hole, recovered 5 jts. 3 1/2" tubing 109.87' and fishing neck and 3 step mandrel on Robinson packer 2.75' long. 7:30 P - 10 P pick up and run taper top. 10 P - 11 P - screwed into fish and torqued up, but jarred loose with 50,000# lick. 11P - 1 A circ. hole. 1 A - 3 A pulled out of hole. 3 A - 5 A WD rotary shoe.
- 3-13-54

out of hole. 3 A - 5 A NO rotary shoe.
turned loose with 5000% Nick. 11F - 1 A circ. hole. 1 A - 3 A pulled
and ran taper top. 10 P - 11 F - screwed into fish and torqued up, but
3 step mandrel on Johnson packer 2.75' long. 7:30 P - 10 P pick up
hole, recovered 5 lbs. 3 1/2" tubing 100.67' and fishing neck and
fish. Hit jars two times and jarred loose. 4P - 7:30 P pull out of
wash pipe and pick up overshot and 2 1/2". 3P-4P being in hole caught
10 A - 11:30 A circulated hole. 11:30 A - 3 P - well and lay down
hole circulated o.k. 7A - 10A wash over fish 40A1 - 40A3 top of packer.
drill - 1:30 A to 7A wash over fish 40A1 - 40A3 top of packer in 40A3.
1:30 A circulated water in hole - wind too high to make connection and
to make connection - but well back flowing through D.F. from 8415
7:00 A. 1:30 A to 7:45 P at 7:45 had 200 W.O. fished - attempted
Brow purger and 2 7/8" DP - checked top of fish at 3247 W/D.P.
we 1/2 pipe - two drill collars - Bowens jars - 1.1 W. safety joint.
7A to 6 P picked up 2 1/2" rotary shoe W/D 1 1/2" pipe - 5 lbs. 5 1/2" DP
to pick up 2 7/8" D P and run 2 1/2" wash pipe with rotary shoe to
Dialog could not get below 4058'. Now changing runs in BOP and preparing
backed off and pulled 180 lbs. 3" tubing leaving 5 joints in hole.
to back off. One shot at 4024 unable to back off. One shot at 3959
could not pull. Ran Dialog string shot. Two shots at 4044, unable
and circ. out 7" casing. Install BOP, pulled on packer with 80,000%
Vis. 42. 40 sacks gel, 28 sacks Macobar. Pumped down 9 5/8" casing
from 1:30 A to 6 A press. 425 to 100%. Mixed 150 bls. run 10",
weight 10.0%, vis. 44 - preparing to pump down 9 5/8". 7" casing
1:0. run. 1:30 A to 6A mixed 40 sacks gel and 28 sacks Macobar -
400% - 9 5/8" casing 400% - 11:30 P - 1:30 A bleeding 7" casing and
down 7" casing, 70 bls. down 9 5/8". 10:15 P to 11:30 P - 7" casing
and fiber - 150 bls. of mud. Weight 9.4, vis. 49 - pumped 80 bls.
casing. 6P - 10 P - mixed 60 sacks Macobar, 40 sacks gel, 28 sacks
casing - 9 5/8" press. 100%. 3:20 P - 6P bleeding down 7" and 9 5/8"
9 5/8" casing 100%. 2P - 3:20 P - pumped 150 bls. water down 7"
and 900% on 9 5/8". 1:30 - 2 P - bleeding off 7" and 9 5/8" casing -
at 12:50 p.m. 12:50 - 1:30 P.M. 9 5/8" and 7" shut in W/250% on 7"
casing. 11:45 - 12:50 p.m. well quite - broke off 7"
make heads of water and gas. Shut down pump on 7" casing and 9 5/8"
11:45 A pumped 100 bls. of water down 7" casing. 9 5/8" began to
off 9 5/8" casing down to strong blow of gas but no fluid. 10:44-
change flow line to pipe - press. 120%. 10:35 - 10:44 A.M. bleeding
of water on 9 5/8" casing. 10:15 - 10:35 A shut in 9 5/8" casing to
10:15 A - pumped 100 bls. of water down 7" casing. Got partial returns
7" and 9 5/8" casing open to separator w/10% pressure. 9:50 A -
7" and 9 5/8" tubing on vacuum for 15 minutes and then a light blow.
9:40 A pumped 100 bls. of water down 3 1/2" tubing, while bleeding

4-2-5-2

4-11-55

0-55

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, 2674, 2675, 2676, 2677, 2678, 26

- 3-14-54 5 A - 7 A pick up 1 jt. 5 1/2" wash pipe and rotary shoe and D. C. and 1 jt. D. P. Temp. 25°. Will attempt to wash over packer cut rubber out of way and run overshot to catch 3" mandrel. 7 A to 9 A run rotary shoe and 1 jt. of 5 1/2" OD w ever pipe. 9 A - 11:15 A wash over packer to bottom step ring. 11:15 - 12 Noon pull wash over pipe. 12 noon - 1:30 P run Bowen spear. 1:30 P - 4 P fish and jar on fish. Trip jar 2 hours, reeked loose. 4 P - 6 P pulled spear, recovered 3" packer mandrel, and bottom step ring leaving 5 jts. 3 1/2" anchor in hole. 7 - 8:30 P ran Bowen spear. 8:30 - 9 P Jars trip 6 times and knocked loose. 9 - 11 P pulled spear rec. 6' of 3 1/2" anchor. Broke off at bottom of perf. 11 - 12:45 A run Bowen overshot. 12:45 - 2:45 A jarring on fish unable to circ. through 3 1/2" anchor. Jars quit working released spear. 2:45 A - 4:30 A pull out of hole. 4:30 - 7 A pickup 5 jts. of 5 1/2" OD wash over pipe and rotary shoe w/ TIW safety joint. BWS Bumper sub and Bowen jars and 3 D. C. to wash over 3 1/2" anchor.
- 3-15-54 7A - 7:45 A going in hole w/ 1 jt. wash pipe. 7:45 - 1:30 P mix and cond. mud, 44 sacks gel, 1:30 - 5 P wash over 3 1/2" anchor to T.D. 4175. 5 - 6:30 P circ. hole. 6:30 - 9:30 P pull and lay down wash pipe. 9:30 - 11P - run Bowen overshot. 11 P-4A fish and rec. 5 jts. 3 1/2" anchor 103'. 4A - 7A - W O Baker scraper and going in hole. Redressed Baker scraper could not get through casing nipple and 7" valve.
- 3-16-54 7 - 7:30 A run bit and casing scraper. 7:30 - 9 A circ. hole. 9 - 10:15 A pull bit and scraper. 10:15 A - 12 noon Dialog ran collar finder, checked 7" casing seated 3951'. Ran gauge ring and run and set Baker Model K magnesium retainer at 3900'. 12 Noon - 6 P - ran Dialog survey. 2 probable holes in 7" casing 1226- & 1650' - collars at 984-1267-1550. 2 jts. from 3640-3700' - 20% left. 6 P - 8:30 P ran Baker test tool to 3000'. Set and tested below retainer w/1000# 30 min. @.K. 8:30 P - 4 A located holes in 7" casing at 1810' and 210'. 4 A - 6 A Lane Wells perf. 7" casing w/ 4 Jet SPF at 2800'. 6 A - 7 A ran Baker retrievable and obtained circ. out 7" casing at from perf. at 2800'.
- 3-17-54 Set Baker Model K magnesium retainer at 2760' and cemented w/ 160 sacks common cement. Through hole at 2800' - completed at 10:27 A - set Baker Model K retainer magnesium at 1770' - and cemented through hole at 1820', w/ 260 sacks of common cement. Completed at 4P. Cement equalized in 7" and 9 5/8" casing. Let set 8 hours. Then went in hole w/ 6 1/4" rock bit and found top of cement at 840'. Drilled cement from 840 to 940' - will drill to 1100' and perforate 7" casing w/ Eureka mechanical perforator.
- 3-18-54 7A - 5 P drilling cement in 7" casing. Solid cement 845' to 1285', no cement 1285-1390', solid cement 1390-1470' blank 1470-1480'. Solid 1480-1600' blank 1600-1690' solid 1690-1710' - 5 P - 6 P circ. hole 6 - 6:30 P pull D.P. 6:30 - 10P waiting for fluid in hole to warm up. 10 P - 11 P ran Temp. Survey unable to read chart. Set from 11 P to 1 A. Rerun temp. survey 1A - 2 A checked top cement at 465'.

to 1 A. Return temp. survey 1A - 2 A checked top cement at 165'.
 10 P - 11 P run temp. survey capable to reach depth. Set time 11 P.
 6 - 6:30 P drill 1/2" hole to 100' waiting for 1/2" hole to warm up.
 1A - 100' blank 1000-1000; 2A - 100' blank 1000-1000. Solid
 no cement 1285-1390; 3A - 100' blank 1000-1000. Solid
 7A - 2 P drilling cement in 7" casing. Solid cement 845' to 1285'.
 mechanical generator.
 from 840 to 940' - will drill to 1100' and perforate 7" casing w/ Hunter
 1/2" rock bit and found top of cement at 840'. Drilled cement
 edalized in 7" and 9 5/8" casing. Let set 8 hours. Then went in hole
 at 1200'. w/ 260' inside of cement cement. 1200' cement. 1200' cement.
 Baker Model K retainer magnetism at 1700' - and cemented through hole
 common cement. Through hole at 2000' - cemented at 1200' A - set
 Set Baker Model K magnetism retainer at 2000' and cemented w/ 100' casing
 from part. at 2800'.
 2 P - 7 A run Baker retainer and oil level. 7" casing at
 2100'. 1 A - 6 A same well part. 7" casing w/ 1/2" bit 200'.
 30 min. 0.K. 8:30 P - 1 A 1/2" hole in 7" casing at 1210' and
 ran Baker test tool to 1000'. Set and tested below retainer w/ 1000'
 survey. 2 probable holes in 7" casing 1285-1390 - collars at
 Baker Model K magnetism retainer at 2000'. 12 noon - 6 P - ran drilling
 timer, checked 7" casing sealed 2000'. 7 am going ring and run and set
 6 - 10:15 a pull bit and survey. 10:15 A - 12 noon Drilling ran collar
 7 - 7:30 a run bit and casing segment. 7:30 - 9 A circ. hole.
 Baker survey tool and 7" casing through casing nipple and 7" valve.
 anchor 1031. 1A - 7A - 6 A Baker survey and going in hole. Redrilled
 9:30 - 11P - run Baker survey. 10 P-11 P flash and tool. 2 1/2" 3 1/2"
 11P. 2 - 6:30 P circ. hole. 6:30 - 8:30 P pull and lay down casing pipe.
 2. and, 1A seeks key. 11:30 - 12 noon over 1 1/2" anchor to 10'.
 7A - 7:45 A going in hole w/ 1 1/2" well casing. 7:45 - 8:30 P mix and
 over 3 1/2" anchor.
 w/ 1/2" safety joint. BWS bumper and end Brown frame and 3 D. O. to wash
 10:30 - 7 A going in hole. 7:45 - 8:30 P run Baker survey. 8:30 A pull out of hole.
 12:45 - 2:45 A turning on flash unable to circ. through 3 1/2" anchor.
 broke off at bottom of hole. 11 - 12:45 A run Baker survey.
 and knocked loose. 9 - 1 P pulled again. 9:15 - 9:30 P run Baker survey. 9:30 A
 in hole. 7 - 8:30 P run Baker survey. 8:15 - 9:15 P run Baker survey. 9:15 A
 3" packer mandrel, and bottom stop ring leaving 2 1/2" 3 1/2" anchor.
 flash. Trip for 2 hours, worked loose. 1 A P - 6 P pulled again, recovered
 pipe. 12 noon - 1:30 P run Baker survey. 1:30 P - 4 P flash and jar on
 wash over packer to bottom stop ring. 11:15 - 12 noon pull wash over
 two rotary shoe and 1 1/2" of 2 1/2" OD v over pipe. 9 A - 11:15 A
 rubber out of way and run overshot to catch 3" mandrel. 7 A to 9 A
 and 1 1/2" P. Term. 25'. Will attempt to wash over packer out
 2 A - 7 A pick up 1 1/2" 5 1/2" main pipe and rotary shoe and 3 1/2".

1-1-1A

2-1-1A

3-1-1A

4-1-1A

5-1-1A

2 A - 2:30 A pick up casing perforator Eureka. 2:30 A - 5A cutting hole in casing at 450'. 5A - 5:30 A pull casing perforator. 5:30 - 6:30 A run Baker retainer and set at 430' - circulate behind 7" casing set retainer at 470' to test and circ. behind 7" casing located hole at 620' circulated free. Reset below 620' could not circulate. Now have hole at 620 - 450 and 210'. Will set retainer above 620 fill up to 450 set retainer above 450' fill up to 210' and run retainer and cement to surface.

3-19-54

Ran Baker Model K Magnesium retainer set at 600'. Cement w/30 sacks common neat from 620' - 450' Completed 8:30 A. Ran and set Baker Model K Magnesium retainer at 420' cemented w/40 sacks from 450- 210'. Circ. app. 15 sacks completed 10:00 A. Ran Baker retainer set at 150' Cemented w/55 sacks from 210' to surface. Circ. app. 15 sacks completed 10:45 A. WOC 12 hours Lane Wells perf. at 165' w/ 4 Jet SPF. Set Baker retainer at 120' obtained circ. between 9 5/8" and 13 3/8" casing. Cemented w/65 sacks common neat. 165' to surface circulated app. 15 sacks completed 12:50 A 3-19-54.

3-20-54

3-21-54

W. O. C. and nipple up new head. 7A - 1 P W.O.C. 1 P - 7 A drilling cement and retainers. 420-600-1770' new drilling on retainer at 2760. Drilled retainer at 2760 and cement to 2800' washed to 3900' Tested casing 800#. Pulled casing scraper run 6 1/4" bit drilled bridging plug at 3900' and washed and reamed to T.D. 4175'. Circ. 2 1/2 hours. Layed down D.P. run 5 1/2" casing to 4168 1/2 and stuck pipe. Unable to circ. through 5 1/2" casing w/2200#. Closed rams on 5 1/2" and pumped down 7" casing 600-300#. Preparing to run Dialog free point. 7A-8A WO Dialog. 8A-11:30 A run Dialog found free point at 3965'. 11:30 - 5P nipping up. 5 P - 9 P pick up 2" tubing and bit. 9P - 9:40 P - drill F.C. and wash to guide shoe. 9:40 - 10:10 P circ. 5 1/2" casing. 10:10 P - 12 Midnight - attempt to circ. behind 5 1/2" casing. Count not circ. w/1200# press. 12 - 12:30 A drill guide shoe. 12:30 - 2 A attempt to circulate behind 5 1/2" casing w/1400# no good. 2: - 3:45 A pull 2" EUE tubing and bit. 3:45 A - 6 A L.W. perf. 4 Jet SPF at 4100'. 6A-7A running tubing and attempting to circ. at 4100'.

3-23-54

Ran and set HOWCO D M retainer at 4077'. Squeezed perf. at 4100' w/ 50 sacks common 4% gel, broke formation 1800#, max. 3800#. Broke back to 1000#. Max. press. w/cement going in hole 3400#. Standing press. 600#. Had circ. through 7" casing when press. broke back to 1000#, reversed out 5 sacks completed 2:10 P.M. 3-22-54. Ran Temp. Survey (West Texas Engineers) from 0-4075' two runs found top of cement at 3100'.

3-24-54

Ran 4 3/4" bit and tubing drilled from cement from 4077-4100' washed to T.D. 4175'. PGAC ran Gamma Ray and Neutron Log surface to 4171 1/2, their T.D. 4172' ours 4175'. Now running 2" EUE tubing.

3-25-54

Ran 2" EUE tubing, seat at 4117.06 open ended. Top of anchor 4109.06 Otis collar step 4109.06. American type S packer at 4103.19 American hold down at 4100.55. Top perf. joint 4092.55. RDB to top of tubing 9' displaced mud w/water and tested 5 1/2" packer 500# O.K. Dismissed rig at 4 P.M. - 3-24-54.

