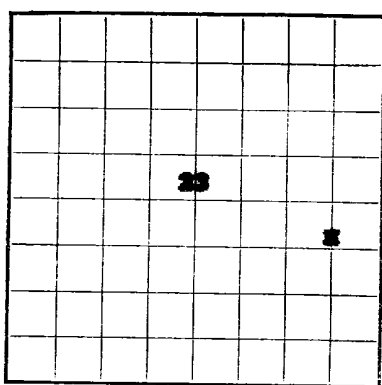




LOCATE WELL CORRECTLY

5823-5  
Demerby-1  
Accounting-1  
File-1

Nat'l Coop Rfg-1

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

U. S. LAND OFFICE **Santa Fe**  
SERIAL NUMBER **27-000007**  
LEASE OR PERMIT TO PROSPECT

## LOG OF OIL OR GAS WELL

Company **Northwest Production Corporation** Address **530 Sims Bldg, Albuquerque, N. M.**  
Lessor or Tract **Sandoval 23-7** Field **Wildcat (Gallup)** State **New Mexico**  
Well No. **1-23** Sec. **23** T. **22N** R. **7W** Meridian **NMP** County **Sandoval**  
Location **1900** ft. **[N.]** of **8** Line and **640** ft. **[W.]** of **8** Line of **Section 23** Elevation **6861** mgsr  
(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

RAY PHILLIPS  
Ray PhillipsDate **August 29, 1957**Title **Asst Mgr., Prod Operations**

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

Commenced drilling **June 11**, 19**57** Finished drilling **August 9**, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **4730** to **4742** 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 \_\_\_\_\_ 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— |             |
| <b>10-3/4</b> | <b>33.75</b>    | <b>8-20</b>      | <b>Reph.</b> | <b>200.57</b>  | <b>Reph. Guide</b> |                     |             |     |             |
| <b>8 1/2</b>  | <b>25.00</b>    | <b>8-20</b>      | <b>Reph.</b> | <b>1100.00</b> | <b>Reph. Guide</b> |                     |             |     |             |
| <b>8 1/2</b>  | <b>24.00</b>    | <b>8-20</b>      | <b>Reph.</b> | <b>4730.72</b> |                    | <b>4730</b>         | <b>4742</b> |     | <b>Comp</b> |
| <b>2-3/8</b>  | <b>4.7</b>      | <b>8-20</b>      |              | <b>4730.50</b> |                    |                     |             |     |             |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set      | Number sacks of cement | Method used  | Mud gravity | Amount of mud used |
|---------------|----------------|------------------------|--------------|-------------|--------------------|
| <b>10-3/4</b> | <b>312.17</b>  | <b>300</b>             | <b>Reph.</b> |             |                    |
| <b>8 1/2</b>  | <b>5067.02</b> | <b>250</b>             | <b>Reph.</b> |             |                    |

## 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 \_\_\_\_\_ feet to **2075** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

August **23**, 19**57** Put to producing \_\_\_\_\_, 19\_\_\_\_

The production for the first 24 hours was **34.8** barrels of fluid of which **99**% was oil; \_\_\_\_\_%  
emulsion; **1**% water; and \_\_\_\_\_% sediment. Gravity, °Bé. **35**

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

**L. F. Stone, Brig Engr** \_\_\_\_\_, Driller  
\_\_\_\_\_, Driller  
\_\_\_\_\_, Driller

## FORMATION RECORD

| FROM— | TO—  | TOTAL FEET | FORMATION                                   |
|-------|------|------------|---------------------------------------------|
| 0     | 651  | 651        | Surface                                     |
| 651   | 851  | 200        | Ojo Alamo - Sand                            |
| 851   | 1180 | 329        | Kirtland - Fruitland - Shale w/coal streaks |
| 1180  | 1300 | 120        | Pictured Cliffs - Sand                      |
| 1300  | 1574 | 274        | Lewis - Shale                               |
| 1574  | 1896 | 322        | Chacra - Sand                               |
| 1896  | 2600 | 704        | LaVentana - Sand                            |
| 2600  | 3538 | 938        | Allison - Gibson - Sand, shale & coal       |
| 3538  | 3712 | 174        | Point Lookout - Sand                        |
| 3712  | 4557 | 845        | Mancos - Shale                              |
| 4557  | 5520 | 963        | Gallup - Sand w/shaley streaks              |
| 5520  | 5580 | 60         | Greenhorn - Sand                            |
| 5580  | 5660 | 80         | Graneros - Shale                            |
| 5660  | 5935 | 275        | Dakota - Sand w/shale streaks               |
| 5935  | 5975 | 40         | Morrison - Shale                            |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

1. Name of well

2. Location

3. Date of completion

4. Name of operator

5. Name of driller

6. Name of logger

7. Name of geologist

8. Name of engineer

9. Name of chemist

10. Name of electrician

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OIL OR GAS SANDS OR ZONES

IMPORTANT WATER SANDS

CASING RECORD

HISTORY OF OIL OR GAS WELL

| FROM—                        | TO— | TOTAL FEET | FORMATION |
|------------------------------|-----|------------|-----------|
| MUDGING AND CEMENTING RECORD |     |            |           |
| PLUGS AND ADAPTERS           |     |            |           |
| SHOOTING RECORD              |     |            |           |
| TOOLS USED                   |     |            |           |
| GATES                        |     |            |           |
| BARRIERS                     |     |            |           |
| FORMATION RECORD             |     |            |           |

CORING RECORD

- #1 from 3478-3480'. Cut 2' and rec 1½' shale.  
#2 from 3480-3508'. Cut 28' and rec 28' shale and coal.  
#3 from 3508-3543'. Cut 35' and rec 18' shale with sand stringers.  
#4 from 3543-3549'. Cut 6' and rec 6' sand.  
#5 from 3549-3569'. Cut 20' and rec 17' - 6' sand and 11' coal and shale.  
#6 from 3569-3620'. Cut 51' and rec 51' - 10' coal and shale, 13' sand, 10' coal and shale, 18' sand.  
#7 from 3620-3669'. Cut 49' and rec 49' sand.  
#8 from 4638-4691'. Cut 53' and rec 53' sand and shaley sand.  
  
#9 from 4691-4741'. Cut 50' and rec 50' sand and shale.  
#10 from 4741-4794'. Cut 53' and rec 53' sand with shale streaks.  
#11 from 4794-4845'. Cut 51' and rec 51' sand and shaley sand.  
#12 from 4845-4898'. Cut 53' and rec 53' - 47' sand and 6' shale.  
#13 from 4898-4929'. Cut 31' and rec 31' shaley sand.  
#14 from 5595-5635'. Cut 40' and rec 40' shale.  
#15 from 5730-5783'. Cut 53' and rec 53' - 27' sand and shale and 26' sand.  
#16 from 5783-5826'. Cut 53' and rec 45' water saturated sand.  
#17 from 5836-5865'. Cut 29' and rec 29' - 5' hard sand, 6' shale and 18' soft sand.  
#18 from 5865-5917'. Cut 52' and rec 35' soft sand.  
#19 from 5917-5940'. Cut 23' and rec 20' - 13' sand and 7' shale.

DRILL STEM TEST RECORD

- #1 from 3579-3592'. TO 4 hrs & SI 30 mins. Med air blow inmed. Sli blow thru out test. IF 95#. IM 1800#. FF 705#. FM 1800#. SIP 1295#. Rec 1600' salt water.  
#2 from 3603-3619'. TO 1½ hours and SI 30 mins. Fair air blow inmed - died in 8 mins. IF 13#. IM 1785#. FF 50#. FM 1785#. SIP 1040#. Rec 100' drlg mud.  
#3 from 4670-4691'. TO 2 hrs & SI 40 mins. Sli air blow inmed - died in 15 mins. IF 0. IM 2415#. FF 0. FM 2395#. SIP 0. Rec 20' drlg mud.  
#4 from 4734-4794'. TO 4 hrs and SI 1 hr. Sli air blow inmed - died in 12 mins. IF 50#. IM 2550#. FF 50#. FM 2470#. SIP 70#. Rec 3' sli gas-cut mud.  
#5 from 2916-2897'. TO 4½ hrs & SI 30 mins. Fair air blow inmed - died after 3 hrs. IF 520#. IM 1470#. FF 580#. FM 1445#. SIP 860#. Rec 720' drlg mud and 390' muddy water.  
#6 from 2244-2407'. TO 2 hrs and SI 30 mins. Weak air blow inmed - died in 1 hour. IF 450#. IM 1230#. FF 550#. FM 1210#. SIP 550#. Rec 1310' fresh water.

Figure 1. The effect of the concentration of the *Agrobacterium* strain on the transformation efficiency of *Agrobacterium* strain 101. The concentration of the *Agrobacterium* strain 101 was varied from 10<sup>6</sup> to 10<sup>9</sup> cells/ml. The transformation efficiency was determined by the number of transformants per 10<sup>6</sup> cells of the *Agrobacterium* strain 101. The data are the mean  $\pm$  SD of three independent experiments.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1987) using a Shimadzu UV-1601 spectrophotometer. The concentration of chlorophyll was expressed as  $\mu\text{g mL}^{-1}$  of the sample.

[illegible][illegible][illegible]

1980W 1100 12001

1. The first group of people who are not allowed to enter the country are those who are on the "No Fly List". This list is maintained by the Federal Bureau of Investigation (FBI) and the Department of Homeland Security. It includes the names of individuals who are considered a threat to national security or public safety.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States. They are interested in the history of the United States because they want to know more about the United States. They want to know more about the United States because they want to know more about the United States.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 08-09-2001 BY SP-6 BTJ/KJS

1. The following information was obtained from the above mentioned source:

HISTORY OF WELL

MI & RU completion unit 7-26-57. Perf 5½" casing from 5814-20 with 8 shots/foot. Ran 2" tubing and swabbed dry. Treated perfs with 28 barrels diesel oil and Hy-flow. BD 3800#. IR 1 BPM at 2500#. Stdg 1100#. Swabbed load oil and formation water.

Pulled 2" tbg and set CI retnr at 5795'. Sqzd perfs 5814-20 with 45 sx reg cement. BD 3000#. Min 2500#. Max, Final and Stdg 4000#. Job comp 6:30 am 7-31-57.

Perf 2 holes at 4758', set Baker retnr at 4752' and sqzd with 150 sx reg cmt. BD 2600#. IP 1500#. Final and Stdg 2000#. Cement circ to surf. Job comp 5 PM 8-1-57. Drld retnr at 4752' and cleaned out to 5795'.

Perf 4730-42 with 8 shots/ft. Frac w/23,100 gals crude and 20,000# 20-40 sd. BD 3150#. IP 1800#. Avg 1700#. Final 1750#. Stdg 800# after 2 hours. Used 125 balls with press break from 1800# to 1500#. IR 49.6 BPM. Set 2-3/8" OD tubing at 4710' and swabbed load oil. Pulled tubing and reran 4730.50' of 2-3/8" OD J-55 4.7# 8-RD tubing with 4' perfed for production. Tubing hung at 4744.50' with top of perf at 4708.44'. Swab tested 24 hours after all load oil recovered. On swab test recovered 34.51 barrels of 35° Gravity oil. Released completion unit 12 noon 8-9-57.

SECRET

1. *Phragmites australis* (Cav.) Trin. ex Steud.

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

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the progress of its investigation into the alleged activities of the British Security Establishment in the United States.

1. The above information was obtained from the records of the FBI, New York City, and is being furnished to you for your information.

[illegible]

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is assigned to the case. The investigator will then gather information about the problem and the individuals involved. This information will be used to determine the scope of the investigation and the resources needed. The investigator will then develop a plan of action and begin the investigation. The plan of action will outline the steps to be taken and the resources to be used. The investigator will then begin the investigation and will report the results to the supervisor. The supervisor will then determine if the investigation is complete and if the problem has been resolved. If the problem has not been resolved, the investigator will be assigned to continue the investigation. The process of the investigation is a continuous one and will continue until the problem has been resolved.