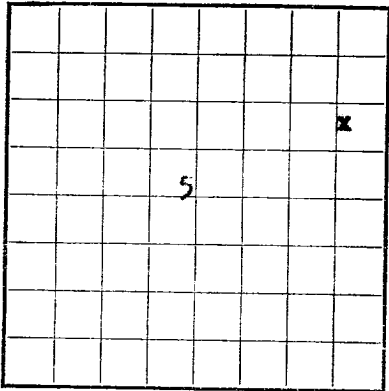


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SP-078996
LEASE OR PERMIT TO PROSPECT
14-08-001-441



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company PACIFIC NORTHWEST PIPELINE CORP. Address 405 1/2 West Broadway, Farmington, N.M.
Lessor or Tract San Juan 32-7 Field Blanco Mesa Verde State New Mexico
Well No. 18-5 Sec. 5 T. 31N R. 7W Meridian N.M.P.M. County San Juan
Location 2225 ft. N. of 3 Line and 400 ft. E. of E. Line of Section 5 Elevation 5671'
(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 Original signed by G. H. Peppin

Date October 25th, 1957 Title Dist. Proration Engineer

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

Commenced drilling September 13th, 1957 Finished drilling September 27th, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from G 5574' to G 6070' 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—	
<u>9 5/8"</u>	<u>36</u>	<u>8</u>	<u>Rep.</u>	<u>200-65</u>	<u>Tex. Pat.</u>	<u>Surface to 1st Collar</u>			
<u>7"</u>	<u>20</u>	<u>8</u>	<u>Rep.</u>	<u>3709-92</u>	<u>Atlas</u>	<u>1st Collar to 2nd Collar</u>			
<u>5 1/2"</u>	<u>11.20</u>	<u>8</u>	<u>Youngston</u>	<u>2305-14</u>	<u>Youngston</u>	<u>2nd Collar to 3rd Collar</u>			
<u>1 1/2"</u>	<u>2.3</u>	<u>10</u>	<u>Youngston</u>	<u>6039-30</u>	<u>Tubing</u>	<u>3rd Collar to 6070'</u>			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9 5/8"</u>	<u>220-25'</u>	<u>200</u>	<u>Pump Plug</u>		
<u>7"</u>	<u>3800-66'</u>	<u>200</u>	<u>Pump Plug</u>		
<u>5"</u>	<u>6100'</u>	<u>200</u>	<u>Pump Plug</u>		

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 0' feet to 6100' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

October 5th, 1957 Put to producing _____, 19____
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 2,223.07 Gallons gasoline per 1,000 cu. ft. of gas _____

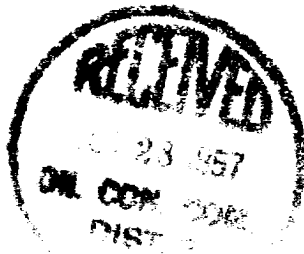
Rock pressure, lbs. per sq. in. 450, 1100, CAOF 2,373

EMPLOYEES Start in 10 days

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

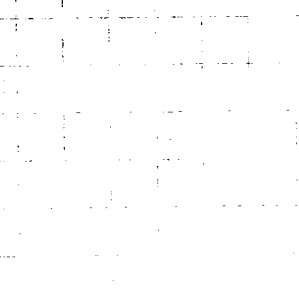
FROM—	TO—	TOTAL FEET	FORMATION
<u>0'</u>	<u>2415'</u>	<u>2415'</u>	<u>Surface</u>
<u>2415'</u>	<u>2480'</u>	<u>65'</u>	<u>Ojo Alamo</u>
<u>2480'</u>	<u>320'</u>	<u>640'</u>	<u>Kirtland</u>
<u>3120'</u>	<u>3530'</u>	<u>410'</u>	<u>Fruitland</u>
<u>3530'</u>	<u>3670'</u>	<u>140'</u>	<u>Pictured Cliffs</u>
<u>3670'</u>	<u>5574'</u>	<u>1904'</u>	<u>Lewis</u>
<u>5574'</u>	<u>5628'</u>	<u>54'</u>	<u>Cliff House</u>
<u>5628'</u>	<u>5860'</u>	<u>232'</u>	<u>Menefee</u>
<u>5860'</u>	<u>6100'</u>	<u>240'</u>	<u>Point Lookout</u>
<u>6100'</u>			<u>Total Depth</u>
<u>6078'</u>			<u>Plug Back Total Depth</u>



RECEIVED
FEBRUARY 1961
BUREAU OF PERMIT TO PROCEED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REF ID: A65 380 JUN 30 1966



1. 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, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 2714-2715, 2716-2717, 2718-2719, 2720-2721, 2722-2723, 2724-2725, 2726-2727, 2728-2729, 2730-2731, 2732-2733, 2734-2735,

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

SECRET - H-2 ya bapla lauphaO. laupha

Just prior to flow into the test area and at the beginning and end of the test.

STANDARD FORM NO. 64

U.S. GOVERNMENT PRINTING OFFICE : 1964 O 827302

NOTES AND REVISIONS

1.6914 and .9554

21105 21105 21105 21105 21105

NOTES : 52102

Logs: Lane Wells Gamma Ray, Surface to 6065', Neutron, Surface to 6077', Neutron, Surface to 6077', Neutron, Spaced Neutron, 6077' to 5050', and 3700' to 3100'.

10-5-57 Res #136,080 901 water, 300 Western Gulls. 80 600 w/1 hawk, 12 1600, AP 2000#, NP 3000#, 5 min. standing 700#. IR before Gulls 60 dbts/min, overall IR 53.1 dbts/min. Plac thru ports.

10-4-57 6070-66, 6060-56, 6042-30, 6004-5996, 5992-80, 5968-42, 5946-38, 5932-5894, 5890-82, 5878-66, 5814-06, 5690-14, 5610-06, 5602-5598, 5594-90, 5582-74.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

[illegible]