

3 - USGS
2 - MINING
1 - State Land Office
1 - L. C. Tracy (SUBMIT IN TRIPLICATE)
1 - File

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

Land Office Santa Fe
Lease No. SP-47897
Unit 14-28-02-346

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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.....	* <u>Report of Well Completion</u>	<u>X</u>

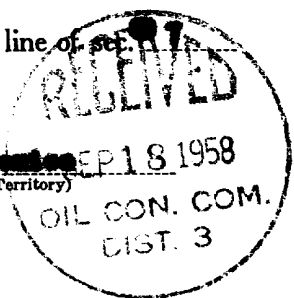
(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 18th, 1958

Well No. 24-1 is located 1690 ft. from [N] line and 890 ft. from [E] line of SP-47897

22 1/4 22 1/4 Sec. 7 30 North 5 West L.L.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Blanco Mesa Twp. Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)



The elevation of the ground above sea level is 690 ft.

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)

Perforated: 5390-54, 5396-55, 5406-5500, 5546-56, 5570-58, 5590-56, 5598-5636, 5600-60, 5600-72, 5670-78.

Flow w/151,000 gallons of water and 50,000# oil to sand. IN 1800#, 17 1400#, 17 1850#, 17 1850#, 17 1850#, standing 800#. IN before balls 60 bbls/min, used 415 small rubber balls, avg IN 63 bbls/min.

Cleaned out to total depth, set 3660.49' of 2-1/8", C.M., 2-1/4 tubing @ 3670.49', completed well.

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

Company PACIFIC SOUTHERN PIPELINE CORPORATION

Address 612 1/2 West Broadway
Farmington, New Mexico

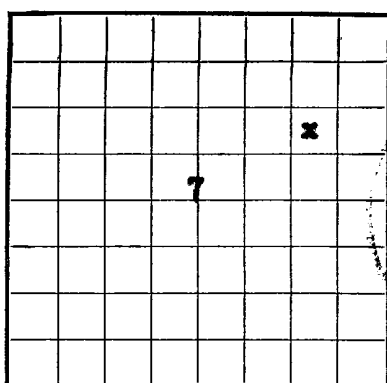
By Original signed by Geo. E. Poppin
Title District Production Engineer

3 - USGS
2 - MBOCC
1 - State Land Office
1 - L. G. Truby
1 - File

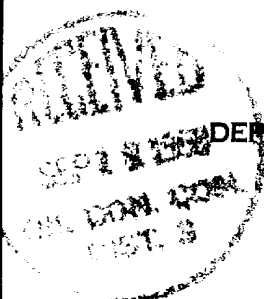
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SF-076997**

LEASE OR PERMIT TO PROSPECT
14-08-001-346



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **PACIFIC NORTHWEST PIPELINE CORP.** Address **418 1/2 W. Bdv., Farmington, N.M.**
Lessor or Tract **San Juan 30-5 Unit** Field **Blanco Mesa Verde** State **New Mexico**
Well No. **23-7** Sec. **7** T **30 N** R. **5 W** Meridian **N.M.P.M.** County **Rio Arriba**
Location **1650** ft. **S.** of **N.** Line and **890** ft. **W.** of **E.** Line of **Section 7** Elevation **6396'**
(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 George H. Pappin**

Date **September 16th, 1958**

Title **District Production Engineer**

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

Commenced drilling **July 14th**, 19 **58** Finished drilling **July 26th**, 19 **58**

OIL OR GAS SANDS OR ZONES

No. 1, from **0** to **150** ft. (Denote gas by G)
No. 2, from **150** to **200** ft.
No. 3, from **200** to **250** ft.
No. 4, from **250** to **300** ft.
No. 5, from **300** to **350** ft.
No. 6, from **350** to **400** ft.

IMPORTANT WATER SANDS

No. 1, from **0** to **150** ft.
No. 2, from **150** to **200** ft.
No. 3, from **200** to **250** ft.
No. 4, from **250** to **300** ft.

CASING RECORD

Size casing	Weight per foot	Thickness	Brand	Amount	Kind of shoe	Cut and joint from	Perforated	Purpose
10-3/4	32.75	8rd	CP&I	182.89	Tex. Pat.			
7-5/8	24.40	8rd	CP&I	150.23	CP&I			
5-1/2	18.75	8rd	CP&I	100.00	CP&I			
1-1/4	2.4	10rd	Youngstown	566.00	CP&I			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	196.39	200	Pump Plug		
7-5/8	3535.83	200	Pump Plug		
5-1/2	5735.31	200	Pump Plug		

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 **5730'** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

August 1st, 19 **58** 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 **4,246,000** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **11,000** **CSC 11935** **CAOP 4,653 MCF/D**
Start in 7 days

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	2355'	2355'	Surface
2355'	2595'	240'	Ojo Alamo
2595'	2800'	205'	Kirtland
2800'	3150'	270'	Fruitland
3150'	3430'	280'	Pictured Cliffs
3430'	5275'	1845'	Lewis
5275'	5320'	45'	Cliff House
5320'	5567'	247'	Manatee
5567'	5730'	163'	Point Lookout
5730'			Total Depth
5726'			Plug Back Total Depth

FORMATION RECORD—Continued

PLEASE OR PERMIT TO PROSPECT
1-08-601-446
SERIAL NUMBER 77-09997
U.S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

[illegible]

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 _____
 Witness signed by George E. Grogan
 Location 2500 ft. [2] of 11 Line and 200 ft. [11] of 12 Line of Section 1
 Well No. 23-1. Sec. 1, T. 20 N. R. 3 E. Meridian
 Lessor or Tract has been 20-2 Unit
 Field Blanco Mesas Verde State New Mexico
 County Rio Arriba
 Address 1101 E. Broadway, Farmington, N.M.
 Company PACIFIC NORTHWEST PIPELINE CORP.

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

Date September 18th, 1968

Title District Protection Engineer

OIL OR GAS SANDS OR ZONES

[illegible]

IMPORTANT WATER SANDS

74 1980-1981, 1982-1983, 1984-1985, 1986-1987, 1988-1989, 1990-1991, 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,

CASING RECORD

5664-72, 5674-76, 5684-82, 5694-96, 5704-08, 5714-16, 5724-20, 5734-36, 5744-40, 5754-56, 5764-60, 5774-78, 5784-82, 5794-86, 5804-90, 5814-94, 5824-98, 5834-02, 5844-06, 5854-10, 5864-14, 5874-18, 5884-22, 5894-26, 5904-30, 5914-34, 5924-38, 5934-42, 5944-46, 5954-50, 5964-54, 5974-58, 5984-62, 5994-66, 6004-70, 6014-74, 6024-78, 6034-82, 6044-86, 6054-90, 6064-94, 6074-98, 6084-02, 6094-06, 6104-10, 6114-14, 6124-18, 6134-22, 6144-26, 6154-30, 6164-34, 6174-38, 6184-42, 6194-46, 6204-50, 6214-54, 6224-58, 6234-62, 6244-66, 6254-70, 6264-74, 6274-78, 6284-82, 6294-86, 6304-90, 6314-94, 6324-98, 6334-02, 6344-06, 6354-10, 6364-14, 6374-18, 6384-22, 6394-26, 6404-30, 6414-34, 6424-38, 6434-42, 6444-46, 6454-50, 6464-54, 6474-58, 6484-62, 6494-66, 6504-70, 6514-74, 6524-78, 6534-82, 6544-86, 6554-90, 6564-94, 6574-98, 6584-02, 6594-06, 6604-10, 6614-14, 6624-18, 6634-22, 6644-26, 6654-30, 6664-34, 6674-38, 6684-42, 6694-46, 6704-50, 6714-54, 6724-58, 6734-62, 6744-66, 6754-70, 6764-74, 6774-78, 6784-82, 6794-86, 6804-90, 6814-94, 6824-98, 6834-02, 6844-06, 6854-10, 6864-14, 6874-18, 6884-22, 6894-26, 6904-30, 6914-34, 6924-38, 6934-42, 6944-46, 6954-50, 6964-54, 6974-58, 6984-62, 6994-66, 7004-70, 7014-74, 7024-78, 7034-82, 7044-86, 7054-90, 7064-94, 7074-98, 7084-02, 7094-06, 7104-10, 7114-14, 7124-18, 7134-22, 7144-26, 7154-30, 7164-34, 7174-38, 7184-42, 7194-46, 7204-50, 7214-54, 7224-58, 7234-62, 7244-66, 7254-70, 7264-74, 7274-78, 7284-82, 7294-86, 7304-90, 7314-94, 7324-98, 7334-02, 7344-06, 7354-10, 7364-14, 7374-18, 7384-22, 7394-26, 7404-30, 7414-34, 7424-38, 7434-42, 7444-46, 7454-50, 7464-54, 7474-58, 7484-62, 7494-66, 7504-70, 7514-74, 7524-78, 7534-82, 7544-86, 7554-90, 7564-94, 7574-98, 7584-02, 7594-06, 7604-10, 7614-14, 7624-18, 7634-22, 7644-26, 7654-30, 7664-34, 7674-38, 7684-42, 7694-46, 7704-50, 7714-54, 7724-58, 7734-62, 7744-66, 7754-70, 7764-74, 7774-78, 7784-82, 7794-86, 7804-90, 7814-94, 7824-98, 7834-02, 7844-06, 7854-10, 7864-14, 7874-18, 7884-22, 7894-26, 7904-30, 7914-34, 7924-38, 7934-42, 7944-46, 7954-50, 7964-54, 7974-58, 7984-62, 7994-66, 8004-70, 8014-74, 8024-78, 8034-82, 8044-86, 8054-90, 8064-94, 8074-98, 8084-02, 8094-06, 8104-10, 8114-14, 8124-18, 8134-22, 8144-26, 8154-30, 8164-34, 8174-38, 8184-42, 8194-46, 8204-50, 8214-54, 8224-58, 8234-62, 8244-66, 8254-70, 8264-74, 8274-78, 8284-82, 8294-86, 8304-90, 8314-94, 8324-98, 8334-02, 8344-06, 8354-10, 8364-14, 8374-18, 8384-22, 8394-26, 8404-30, 8414-34, 8424-38, 8434-42, 8444-46, 8454-50, 8464-54, 8474-58, 8484-62, 8494-66, 8504-70, 8514-74, 8524-78, 8534-82, 8544-86, 8554-90, 8564-94, 8574-98, 8584-02, 8594-06, 8604-10, 8614-14, 8624-18, 8634-22, 8644-26, 8654-30, 8664-34, 8674-38, 8684-42, 8694-46, 8704-50, 8714-54, 8724-58, 8734-62, 8744-66, 8754-70, 8764-74, 8774-78, 8784-82, 8794-86, 8804-90, 8814-94, 8824-98, 8834-02, 8844-06, 8854-10, 8864-14, 8874-18, 8884-22, 8894-26, 8904-30, 8914-34, 8924-38, 8934-42, 8944-46, 8954-50, 8964-54, 8974-58, 8984-62, 8994-66, 9004-70, 9014-74, 9024-78, 9034-82, 9044-86, 9054-90, 9064-94, 9074-98, 9084-02, 9094-06, 9104-10, 9114-14, 9124-18, 9134-22, 9144-26, 9154-30, 9164-34, 9174-38, 9184-42, 9194-46, 9204-50, 9214-54, 9224-58, 9234-62, 9244-66, 9254-70, 9264-74, 9274-78, 9284-82, 9294-86, 9304-90, 9314-94, 9324-98, 9334-02, 9344-06, 9354-10, 9364-14, 9374-18, 9384-22, 9394-26, 9404-30, 9414-34, 9424-38, 9434-42, 9444-46, 9454-50, 9464-54, 9474-58, 9484-62, 9494-66, 9504-70, 9514-74, 9524-78, 9534-82, 9544-86, 9554-90, 9564-94, 9574-98, 9584-02, 9594-06, 9604-10, 9614-14, 9624-18, 9634-22, 9644-26, 9654-30, 9664-34, 9674-38, 9684-42, 9694-46, 9704-50, 9714-54, 9724-58, 9734-62, 9744-66, 9754-70, 9764-74, 9774-78, 9784-82, 9794-86, 9804-90, 9814-94, 9824-98, 9834-02, 9844-06, 9854-10, 9864-14, 9874-18, 9884-22, 9894-26, 9904-30, 9914-34, 9924-38, 9934-42, 9944-46, 9954-50, 9964-54, 9974-58, 9984-62, 9994-66, 10004-70, 10014-74, 10024-78, 10034-82, 10044-86, 10054-90, 10064-94, 10074-98, 10084-02, 10094-06, 10104-10, 10114-14, 10124-18, 10134-22, 10144-26, 10154-30, 10164-34, 10174-38, 10184-42

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 same and the results. If the well were any longer made in the same state fully, and if any casing was "decayed" or left in the well, give the 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.

WELL OILS AND GREASES

Size casing	Water set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
4 1/2"	12.30	200	Hand Pump		
4 1/2"	12.30	200	Hand Pump		
4 1/2"	12.30	200	Hand Pump		

FLUGS AND ADAPTERS

Adapters—Material	Length	Depth set
Heaving plug—Material		

SHOOTING RECORD

[illegible]

TOOL 2 USED

Cable tools were used from	feet to	feet and from	feet to
Rotary tools were used from	feet to	feet and from	feet to

DATE

EMULSIFIER		August 1917	
Block pressure, lbs. per sq. in.	100	Emulsion, % water, and % sediment.	100
It gas well, cu. ft. per 24 hours	100	The production for the first 24 hours was	100
Gallons gasoline per 1,000 cu. ft. of gas	100	Put to producing	100

EMPLOYEES

Driller	Driller	
Driller	Driller	

FORMATION RECORD

FORMATION	TOTAL FEET	TO--	FROM--
Point lookout	168'	2730'	2561'
Total Depth			2730'
Plus Back Total Depth			2730'
Manganese	247'	2507'	2350'
Cliff House	25'	2532'	2515'
Lava	242'	2574'	2430'
Fractured Cliffs	280'	3454'	3150'
Trilobite	270'	3184'	2850'
Kiribati	252'	2880'	2785'
Ojo Alamo	240'	2640'	2430'
Surfrock	2325'	2325'	0'

FORMATION RECORD—Continued