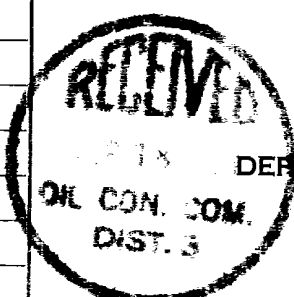
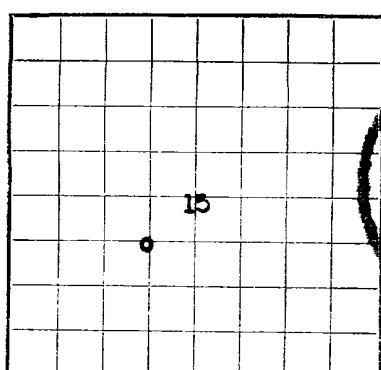


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER USSE 078476
LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company ----- **Western Natural Gas Company** ----- Address ----- **823 Midland Tower, Midland, Texas** -----
 Lessor or Tract ----- **Oxnard** ----- Field ----- **Large P.C.** ----- State ----- **New Mexico** -----
 Well No. ----- **2** ----- Sec. ----- **15** ----- T. ----- **27N** ----- R. ----- **8W** ----- Meridian ----- **NMPM** ----- County ----- **San Juan** -----
 Location ----- **1650** ft. $\left\{ \begin{array}{c} \text{N.} \\ \text{S.} \end{array} \right\}$ of ----- **S** ----- Line and ----- **1190** ft. $\left\{ \begin{array}{c} \text{E.} \\ \text{W.} \end{array} \right\}$ of ----- **W** ----- Line of ----- **Sec. 15** ----- Elevation ----- **5916** -----
 (Drill floor setting 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 9/23/6004/c

Date September 12, 1956 Title W. B. Cook
Petroleum Engineer

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

Commenced drilling ----- **8-9** -----, 19- **56** Finished drilling ----- **8-17** ----- 19- **56**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2076 G to 2085 No. 4, from _____ to _____
 No. 2, from 2099 G to 2117 No. 5, from _____ to _____
 No. 3, from 2137 G to 2149 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 620 to 630 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—	
8-5/8	24.7	8rd		95.43	Tex. Pat.				Surface Producing string
5-1/2	15.5	8rd		2212	Baker Float		2076 2699	2085 2117	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud grade xxxx Wt.	Amount of mud used
8-5/8	105	70 neat	Pump	9.0	-
5-1/2	2202	150 neat	Pump & plug	9.8	-

PLUGS AND ADAPTERS - None

Heaving plug—Material Length Depth set

Adapters—Material..... Size

SHOOTING RECORD - None

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 2202 feet, and from _____ feet to _____ feet

Cable tools were used from ----- feet to ----- feet, and from ----- feet to ----- feet

DATES

-----**September 8**-----, 19**56** Put to producing -----**Shut-in**-----, 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 **5,494 MCF - three hr. blowdown test after 16 days S.I.**

Rock pressure, lbs. per sq. in. 853.60 (Shut In Well Head Pressure)

EMPLOYEES

C. B. Guffey, Driller J. H. Greaner, Driller

----- **H. B. Barber** -----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1350	1350	Sand w/shale streaks
1350	1800	450	Broken shale & sand
1800	2072	272	Shale, sand & coal
2072	2202	130	Pictured Cliffs sand w/thin shale breaks. T/Pictured Cliffs 2072.

FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

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 balling.

Moved in cable tool rig. 620 foot zone water flow gauged 8 bbl/min. of fresh, soft water - coming out of rat hole, 5 1/2" - 8 5/8" annulus, and behind 8 5/8" surface casing. Squeezed off this water flow with 200 sacks cement, 87 sacks calseal, and 16 sacks calcium chloride mixture in three separate stages of pumping. Final surface pressure on 3rd stage was 300 psi. 5 1/2" casing free-point probably at 50' down from surface. Tested 5 1/2" casing with 1000 psi for 30 min. - pressure held O.K.

TECHNICAL STAFF: 100

1. \mathbb{R}^n is a vector space over \mathbb{R} with the usual addition and scalar multiplication.	\mathbb{R}^n is a vector space over \mathbb{R} with the usual addition and scalar multiplication.
2. \mathbb{R}^n is a vector space over \mathbb{C} with the usual addition and scalar multiplication.	\mathbb{R}^n is a vector space over \mathbb{C} with the usual addition and scalar multiplication.
3. \mathbb{R}^n is a vector space over \mathbb{R} with the usual addition and scalar multiplication.	\mathbb{R}^n is a vector space over \mathbb{R} with the usual addition and scalar multiplication.

01T 06 372 35402 06 30453

...and should be able to identify the following:

[Faint, illegible handwritten notes]

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

10. The Commission has been informed that the Government of the Republic of the Philippines has agreed to accept the findings of the Commission and to take the necessary steps to ensure that the same are implemented.

1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775

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