

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS

Page 1 of 1

File ML-396 S

Well Denton No. 3

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

CORE SUMMARY

FORMATION NAME	Devonian	Devonian	Devonian
DEPTH, FEET	11,125.0-11,399.5	11,440.0-11,521.0	11,521.0-12,039.9
% CORE RECOVERY	88	96	95
FEET OF PERMEABLE, PRODUCTIVE FORMATION RECOVERED	184.7	78.0	478.0
AVERAGE PERMEABILITY MILLIDARCYs	Max: 48 90°: 19	Max: 33 90°: 7.0	Max: 34 90°: 10
CAPACITY — AVERAGE PERMEABILITY X FEET PRODUCTIVE FORMATION	Max: 8866 90°: 3509	Max: 2574 90°: 546	Max: 16,252 90°: 4780
AVERAGE POROSITY, PERCENT	1.8	2.3	4.0
AVERAGE RESIDUAL OIL SATURATION, % PORE SPACE	22.0	21.1	16.4
GRAVITY OF OIL, °A.P.I.	43.8	43.8	43.8
AVERAGE TOTAL WATER SATURATION, % PORE SPACE	50.3	53.6	36.3
AVERAGE CALCULATED CONNATE WATER SATURATION, % PORE SPACE	50.3	53.6	36.3
SOLUTION GAS-OIL RATIO, CUBIC FEET PER BARREL (1)	1200	1200	1200
FORMATION VOLUME FACTOR—VOLUME THAT ONE BARREL OF STOCK TANK OIL OCCUPIES IN RESERVOIR (1)	1.72	1.72	1.72

Weather Co. Cont'd			1950	1951	1952	1953	1954	1955	1956	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	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2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Account of Production - Stanton Blackcamp, 1953-

	1950	1951	1952	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov
Atlantic Refg Co.														
Production 8-13	145	13-15-37	5123	num 248	39489	2991	2535	1966	1089	1054	668	731	616	56510
"	432	41-14-37	num 248	4435-153	1481	1632	65	1058	1058	1937	5184	5127	4987	56434
"	4-1	1-15-37	17231	56298	5435	4650	5241	4698	3453	3453	3019	3997	2927	10799
"	18	17-15-37	52991	30150	2826	3004	100	680	1204	1204	2086	2490	2363	97894
"	28	"	44722	20564	5223	4208	4299	4416	3405	2815	1390	1390	945	91987
"	46	"				4088	1631	853	5330	5195	4865	27172		
"	5M	"								3271	2414	6933		
Free	3M 35-14-37		num 7603	5362	4788	5213	4444	4100	4476	4476	5432	46848		
State T	4P 34-14-37				297	5168	5760	4377	2914	3257	5432	26605		
	5K 2-15-37		num 9693	5340	4761	5223	5760	5363	5267	5267	5330	32446		
	6F "					4091	5025	5087	51867	44933	5330	49527		
	7M "					5270	4240	5580	5270	51040	5320	29720		
	8M "				1558	5312	4476	5063	4590	5202	5100	31801		
Bay Oil Corp.														
Champlain	3F 14-15-37		num 39278	158	17	Need	Need	449	1091	4986	4900	50679		
	4K "		num 27714	5414	4926	5184	4714	5248	4296	4827	4396	66719		
	5E "		num 26670	5412	4926	5187	4610	5338	5029	4505	3033	64710		
See State 5	5I 2-15-37		num 5980	5295	4803	5191	5190	5298	5027	5101	5239	47127		
	6F "			2269	4103	5191	5195	5383	5025	5184	5249	38299		
	7P "				3032	5189	5194	5379	5031	4435	2411	30071		
	80 "					1148	5195	5386	5031	5182	5240	17181		
Lampson	4T 3-15-37							506	3022	3728	2340	9696		
	5P "										546	546		
Edgar Jones														
Dickerson	7M 35-14-37								5291	4951	4713	14945		
	80 "								2720	4952	4713	12675		
	9E "									80	4713	5573		
	10K "										4713	3060		
Magnolia	2P 27-14-37													
Maxwell	4I "													
Boyle	20 35-14-37		num 5880	5325	4801	4359	5069	5474	5273	5300	4962	27536		
	8M 26-14-37							4380	4826	5117	2433	2433		
	11P 35-14-37							1191	5073	5299	5100	46381		
	15J 26-14-37									3421	5054	16663		
	18M "									1041	5054	8475		
	19K "										5057	6298		
Stanton Blackcamp														
Production 20-11-15-37	16423	79471	62837	5233	4597	4865	5071	5382	4902	5019	4902	189702		
21-12-15-37					3412	3940	4019	3907	3651	5374	2971	27174		

T 37 E

14
S

15
S

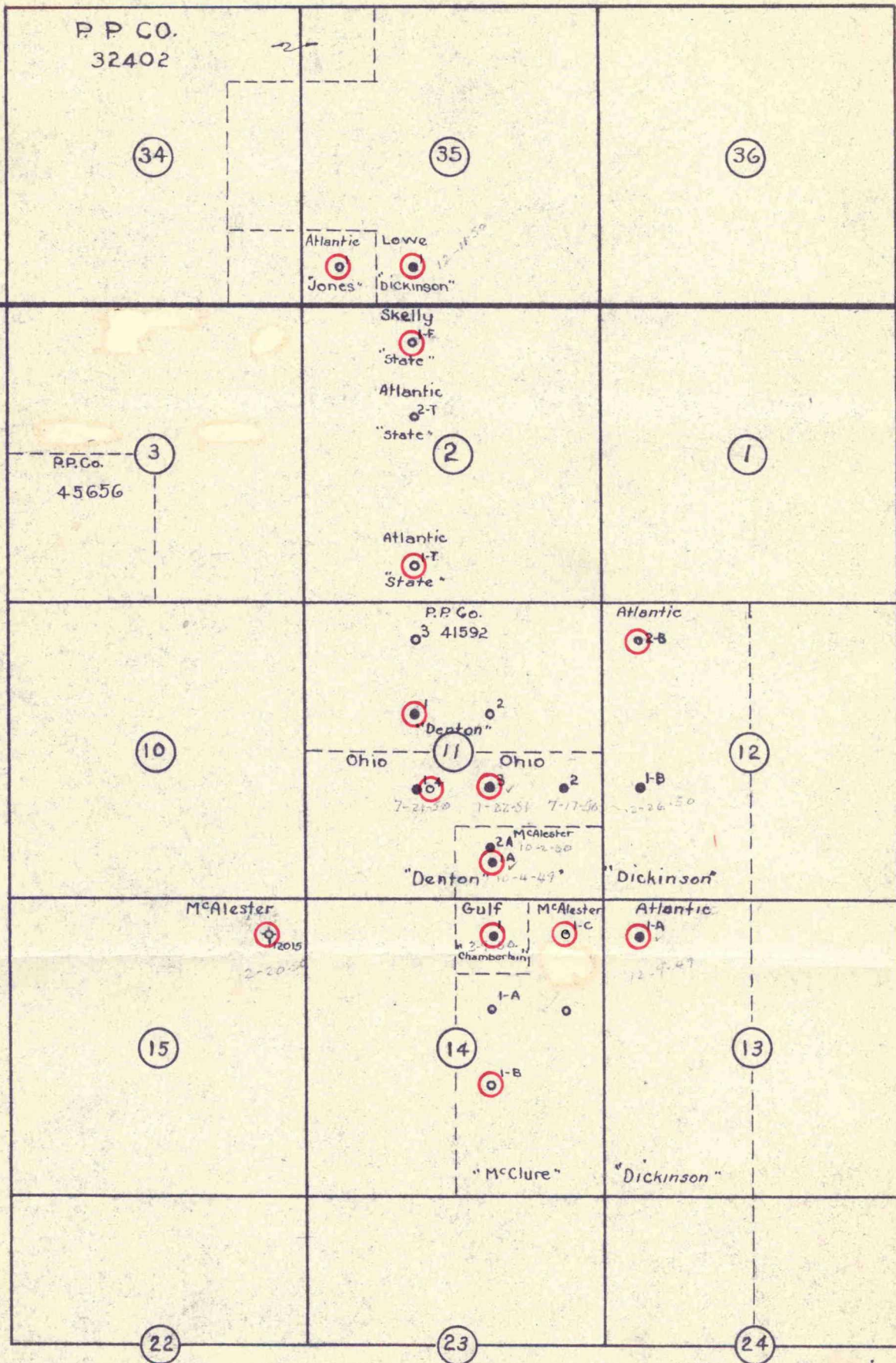


Exhibit "A"

DENTON POOL LEA CO. NEW MEXICO

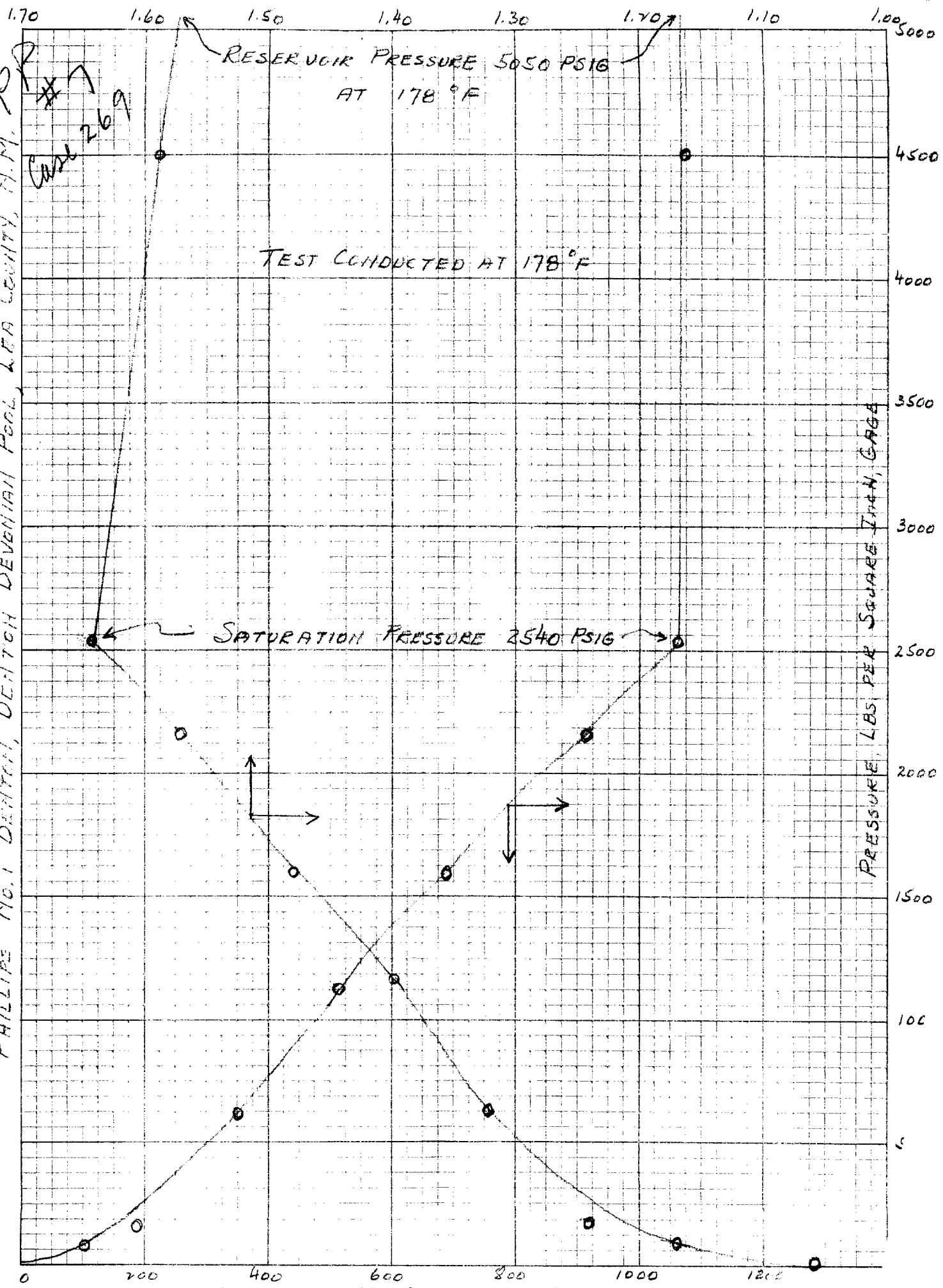
2" = 1 MILE

SOLUBILITY - FORMATION VOLUME FACTOR RESERVOIR FLUID

PHILLIPS No. 1 DENTON, DENTON DEVONIAN POOL, LEE COUNTY, N.M. P.P.

#7
Case 269

FORMATION VOLUME FACTOR BASED ON RESIDUAL OIL AT 60° F



EXHIBIT

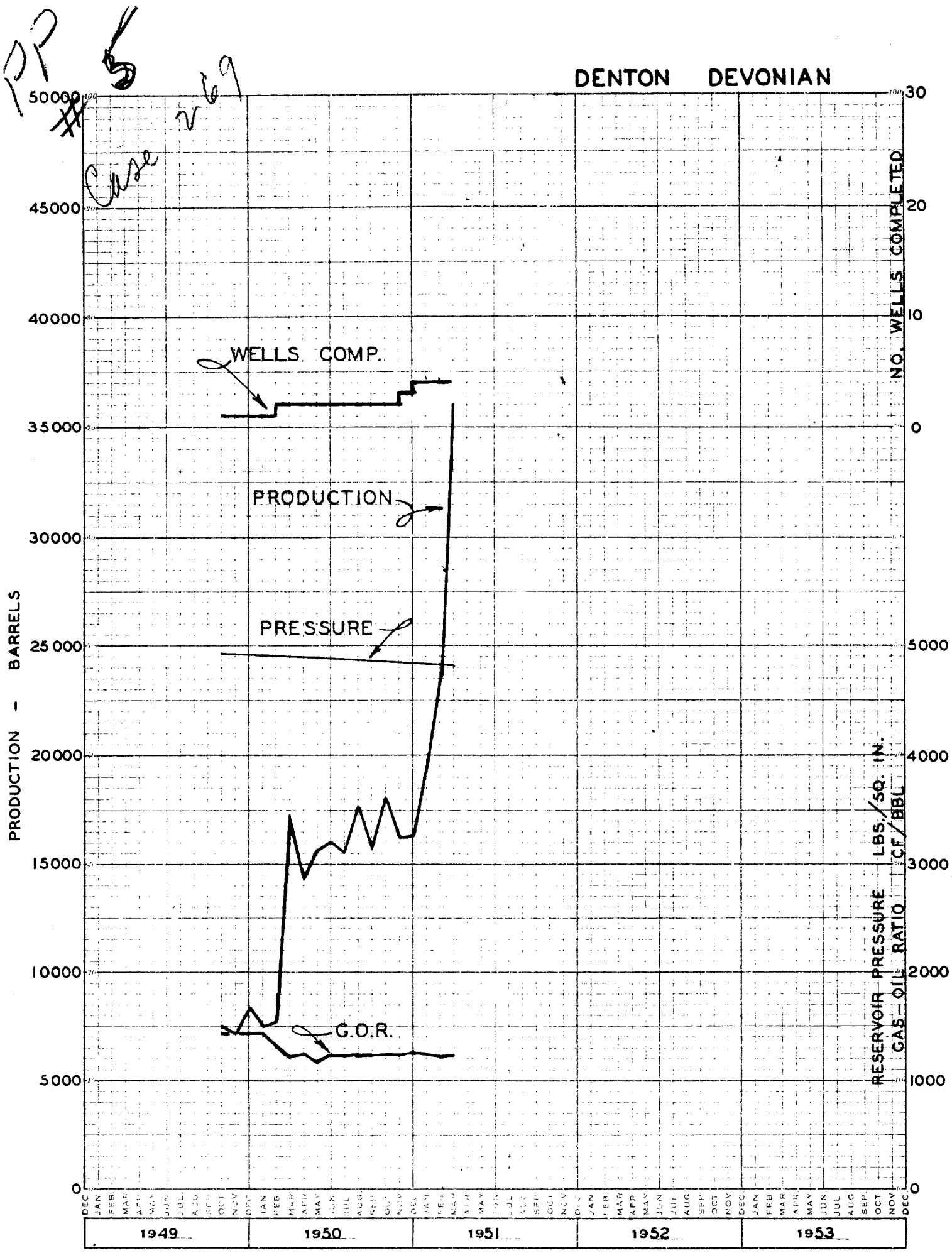
PRODUCTIVITY INDICES MEASUREMENTS

DENTON FIELD (DEVONIAN) WELLS - LEE COUNTY, NEW MEXICO

OPERATOR	LEASE & WELL NO.	LOCATION	DATE	EXPOSED PAY (FT.)	PERIOD (HRS.)	PRODUCING RATE (B/D)	BOTTOM HOLE PRESSURE (PSIG)	DEPTH (FT.)	PRESSURE DRAW-DOWN (PSIG)	PRODUCTIVITY INDEX (B/D/#DROP)	APPARENT CAPACITY (B/D)	TUBING PRESSURE (PSIG)	SIZE		
													Choke	Tbg.	Csg.
Gulf	Chamberlin #1	NW-NE-14, T15S-R37E, Lee Co. N.M.	3/1/50	18	24	338.5	4304	11,495	577	0.58665	2863	1175	13/64"	2-3/8"	7"
			3/3/50	"	48	Closed	4881	"	-	-	-	1500	"	"	"
Phillips	Denton #1	SE-NW-11- T15S-R37E, Lee Co. N.M.	4/8/51	100	24	214	5012	12,480	89	2.4	12,242	1420	8/64"	2-3/8"	5-1/2"
			4/9/51	"	24	650	4841	"	260	2.5	12,753	1260	16/64"	"	"
			4/11/51	"	48	Closed	5101	"	-	-	-	1430	"	"	"
McAlester	Denton A-1	SW-SE-11- T15S-R37E, Lee Co. N.M.	5/3/51	139	48	Closed	4726	11,290	-	-	-	1510	-	2-3/8"	5-1/2"
			5/4/51	"	24	229	4208	"	518	0.518	2248	1145	12/64"	"	"
			5/5/51	"	24	322	3844	"	882	0.865	1725	930	13/64"	"	"
			5/6/51	"	24	512	3020	"	1706	0.300	1418	518	21/64"	"	"
			5/7/51	"	24	679	2151	"	2575	0.264	1248	260	32/64"	"	"

Exhibit M-5
Case # 269

DENTON DEVONIAN



TONS OF STEEL REQUIRED TO COMPLETE DEVONIAN WELL

50 100 150 200 250 300 350

PHILLIPS

OHIO

GULF

ATLANTIC

AVERAGE 258.5 TONS

42 WELLS - 80 ACRE SPACING. REQUIRES 10,857 TONS

COST OF COMPLETING DEVONIAN WELL

\$ 50000 100000 150000 200000 250000 300000

PHILLIPS

OHIO

GULF

ATLANTIC

AVERAGE \$ 273,000

DENTON - DEVONIAN

PP#21
Case 269



DENTON SILURO-DEVONIAN POOL

Calculation of Expected Pressure-Production History

Assuming that one well will drain only 80 acres

Data: From Core Analysis, Ohio Oil Co. - Denton No. 3 Well
NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec.11-15 S-37 E:

Average Porosity = 3.28%

Average Connate Water = 41.6%)
Average Oil Saturation = 58.4%) Reservoir

Productive thickness 741 feet

From Analysis of reservoir fluid, P.P.Co. Denton #1
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec.11-15 S-37 E:

Oil Expansibility factor of 1.547×10^{-5} bbls/bbl/psi

Formation Volume Factor of 1.58 (at present condition of
res. pressure)

Water Expansibility Factor of $.300 \times 10^{-5}$ bbls/bbl/psi (Assumed from
other data)

7758 (bbls. in 1 acre foot) x por. x oil sat = bbls.res.oil per acre foot

7758 x .0328 x .584 = 149 bbls. res. oil per acre foot

7758 x .0328 x .416 = 106 bbls. con. wtr. per acre foot

149 x 1.547×10^{-5} = 2.30×10^{-3} bbls.exp.res.oil/psi/acre foot

106 x $.300 \times 10^{-5}$ = $.32 \times 10^{-3}$ " " water/psi/acre "

2.62×10^{-3} bbls.reservoir oil theoretically
produced/psi/acre foot

$\frac{2.62}{1.58} \times 10^{-3}$ = 1.65×10^{-3} bbls.S.T. oil theoretically
produced/psi/acre foot

$1.65 \times 10^{-3} \times 741 \text{ ft.} \times 80 \text{ ac} = 98 \text{ bbls. S.T. Oil theoretically produced}$
per 80 acre well per psi bHP drop

1710 Co
#3
Case 269

DENTON DEVONIAN POOL

PRODUCTION

	<u>Oil Prod.</u> <u>(Bbls.)</u>	<u>Cumulative</u> <u>Oil Prod.</u> <u>(Bbls.)</u>	<u>Gas</u> <u>(MCF)</u>	<u>Cumulative</u> <u>Gas</u> <u>(MCF)</u>	<u>GOR</u> <u>cf/bbl.</u>
<u>1949</u>					
Oct.	7,478	7,478	10,940	10,940	1,463
Nov.	7,139	14,617	10,444	21,384	1,463
Dec.	8,315	22,932	12,165	33,549	1,463
<u>1950</u>					
Jan.	7,428	30,360	9,787	43,336	1,463
Feb.	7,647*	38,007	10,983	54,319	1,436
Mar.	17,364	55,371	21,281	75,600	1,226
Apr.	14,245	69,616	17,760	93,360	1,247
May	15,679	85,295	18,575	111,935	1,185
June	16,039	101,334	20,218	132,153	1,261
July	15,517	116,851	19,328	151,481	1,246
Aug.	17,737	134,588	22,208	173,689	1,252
Sept.	15,579	150,167	19,693	193,382	1,264
Oct.	17,861	168,028	22,260	215,642	1,246
Nov.	16,237	184,265	20,201	235,843	1,244
Dec.	16,372	200,637	20,487	256,330	1,251
<u>1951</u>					
Jan.	19,302	219,939	24,194	280,524	1,253
Feb.	23,562	243,501	28,369	308,893	1,204
Mar.	36,616	280,117	44,553	353,446	1,217

* Pipe Line Runs -- Prod. Figures Were Not Available.

917 #14
Case 269

DENTON-DEVONIAN POOL

Bottom Hole Pressures

Datum - 7700 Subsea

<u>Operator</u>	<u>Well</u>	<u>Date</u>	<u>Pressure</u>	<u>Hours Shut In</u>
Gulf	Chamberlin #1	3-8-50	4898	120
		6-13-50	4827	79
		9-8-50	4822	
		12-1-50	4810	
		4-2-51	4809	72
Ralph Lowe	Dickenson #1	1-16-51	4844	68
McAlester	Denton #1	11-4-49	4847	48
		11-5-50	4808	48
Phillips Pet. Co.	Denton #1	3-31-51	4807	48

2540[#] bubble point



Case #6
P.D.

MCA-35-1-1A 269

QUIF- Chamberlain 1-B

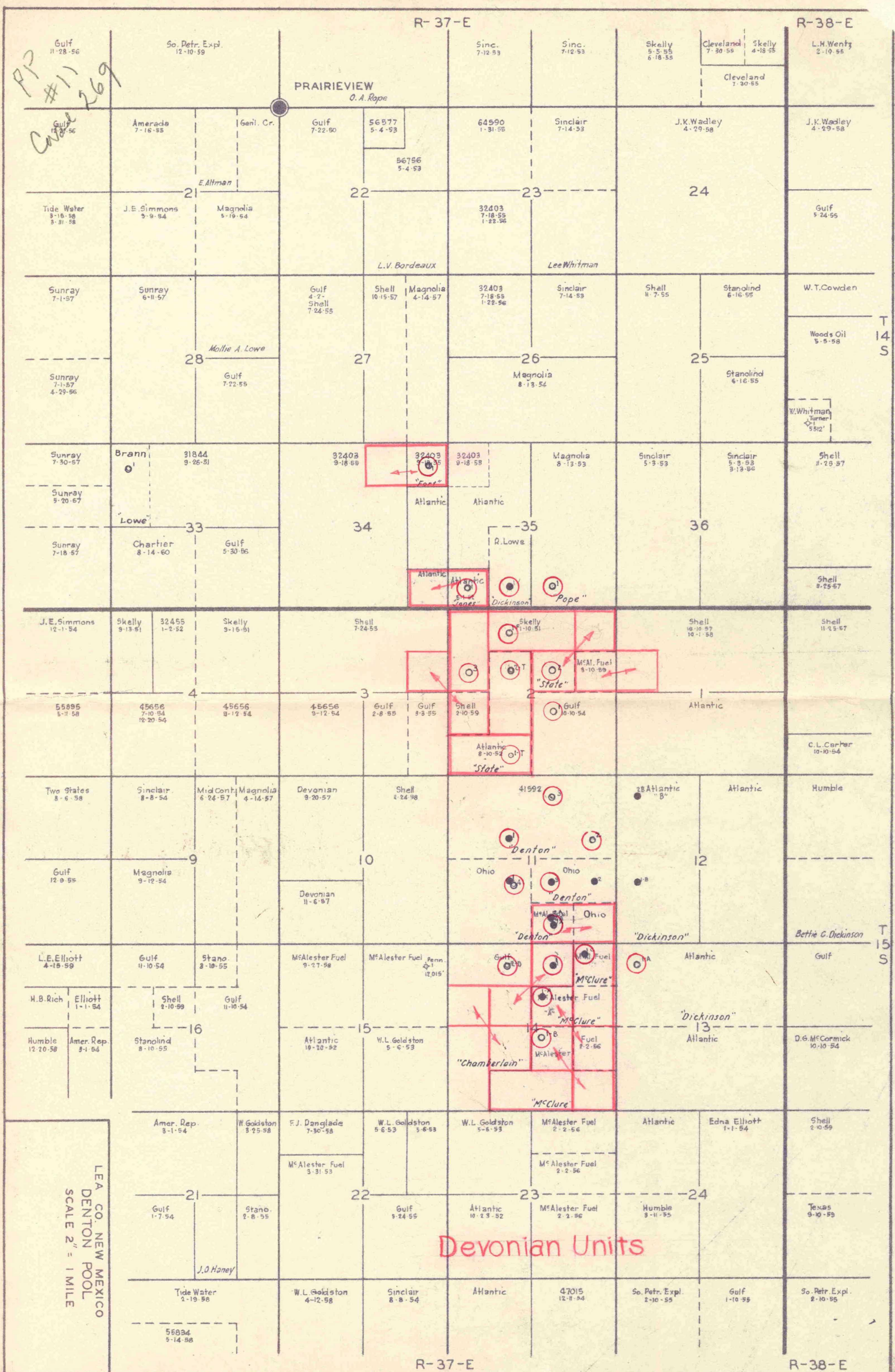
LOWE- Dickson 41 Comp

Cham-Denton 2A Comp

Phillips-Denton 2A Comp

DENTON-DEVONIA

ILLEGIBLE



ORIGINAL

Dickinson "B" #2
Lease—Tract—Well No.

Denton (Wolfeamp)
Field—Pool—Producing Zone

Lee New Mexico
County State

DRILL STEM TESTS

Drill Stem Test No.	1	2	3
Date	4-1-51	4-2-51	4-3-51
Name of Test Tool	Taylor	Taylor	Taylor
Kind of Packer	7-3/4" form.	7-3/4" form.	7-3/4" form
Depth of Hole	9410	9450	9509
Depth—Bottom of Packer	9301	9410	9448
Name—Formation Tested	Wolfeamp	Wolfeamp	Wolfeamp
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)	9301-9410	9410 - 9450	9448 - 9509
Water Load	none	none	none
Chokes (Bottom and Top)	5/8" -- 1/2"	5/8" = 1/2"	5/8" = 1/2"
Total Length of Time Tool Open	90 min	1 hour	1 hour
No. of Times & Elapsed Time Tool Opened Each Attempt	once	once	once
Surface Reaction: Type and Elapsed Time			
(1) Air	immed at blow	***	****
(2) Gas	surf in 70 min	**	none
(3) Water Load (Specify if Charged with Oil or Gas)	none	none	none
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)	none	none	none
(5) Oil/Gas (Estimate or Gauge Quantity; % B. S. & /or water)	none	none	none
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)	none	none	none
Recovery Fluid in Feet from Drill Pipe			
(1) Water Load	none	none	none
(2) Mud	*	930' O/G out	none
(3) Oil and Gas	3600' clean O	370' clean oil	200' gas
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)	none	none	2730' hr O/G out Sulp.
BHP Flowing	1220	200#	1280#
BHP Shut In	3420	3400#	3180#
Rate Flow Oil and Gas	none	none	none
Gas/Oil Ratio BS & W	none	none	none

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

* 500' heavily O&G out mud and 490' slightly O&G out mud.
** Gas hit surface in 70 min while taking shut-in pressure.
*** Strong blow for 18 min, decreased to fair blow.
**** St. blow decreasing to fair blow in 18 min, decreased to weak blow in 1 hour.

DRILL STEM TESTS

Drill Stem Test No.			
Date			
Name of Test Tool			
Kind of Packer			
Depth of Hole			
Depth—Bottom of Packer			
Name—Formation Tested			
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)			
Water Load			
Chokes (Bottom and Top)			
Total Length of Time Tool Open			
No. of Times & Elapsed Time Tool Opened Each Attempt			
Surface Reaction: Type and Elapsed Time			
(1) Air			
(2) Gas			
(3) Water Load (Specify if Charged with Oil or Gas)			
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)			
(5) Oil/Gas (Estimate or Gauge Quantity; % B. S. & /or water)			
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)			
Recovery Fluid in Feet from Drill Pipe			
(1) Water Load			
(2) Mud			
(3) Oil and Gas			
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)			
BHP Flowing			
BHP Shut In			
Rate Flow Oil and Gas			
Gas/Oil Ratio BS & W			

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

Above Correct—Signature_____

Title District Superintendent

Date 4-13- 51

IT IS RECOMMENDED THIS INFORMATION BE COMPILED ON DERRICK FLOOR AND ORIGINAL BE PERMANENTLY RETAINED IN WELL RECORD.

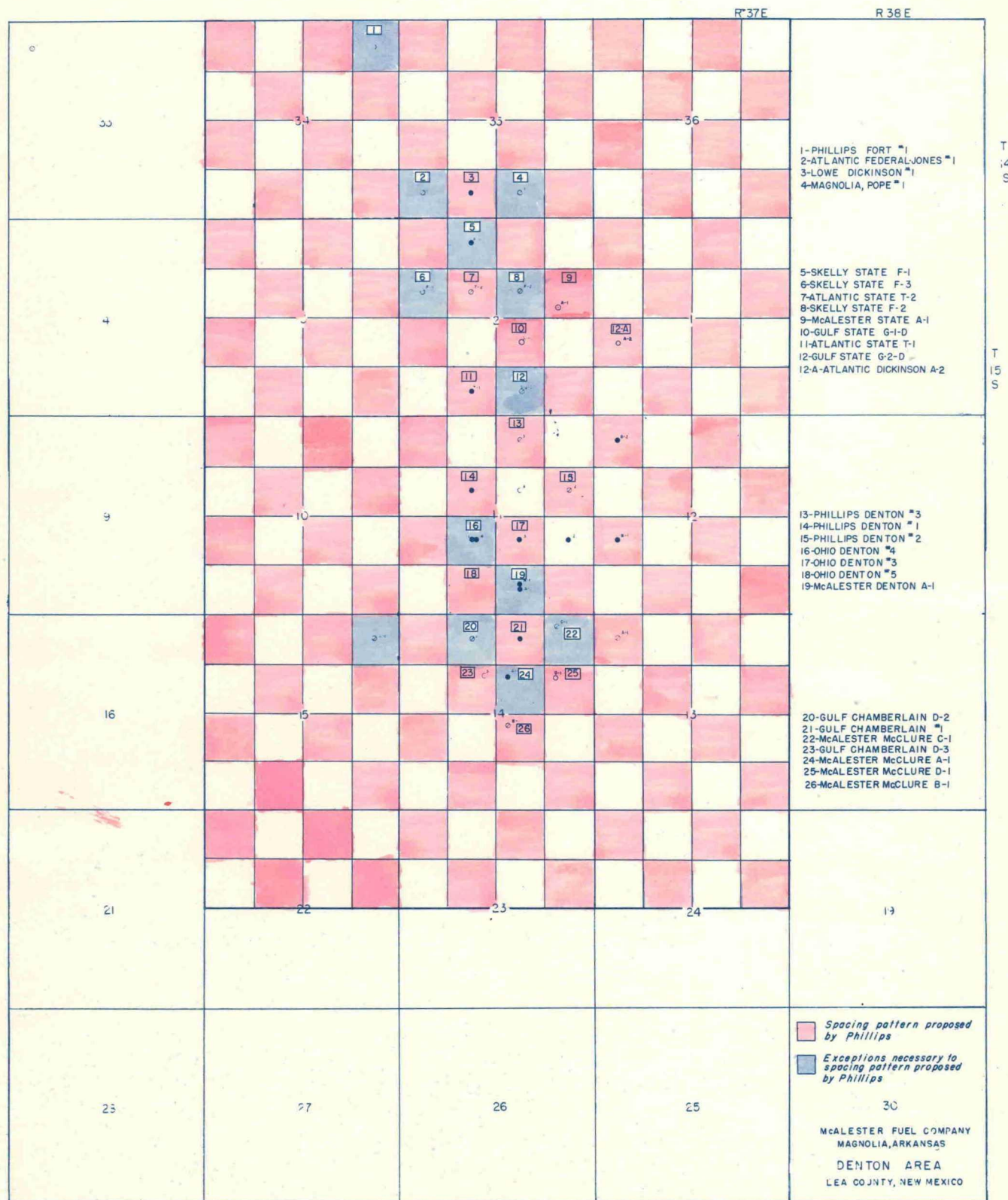


EXHIBIT *M-7*

Case 269-70

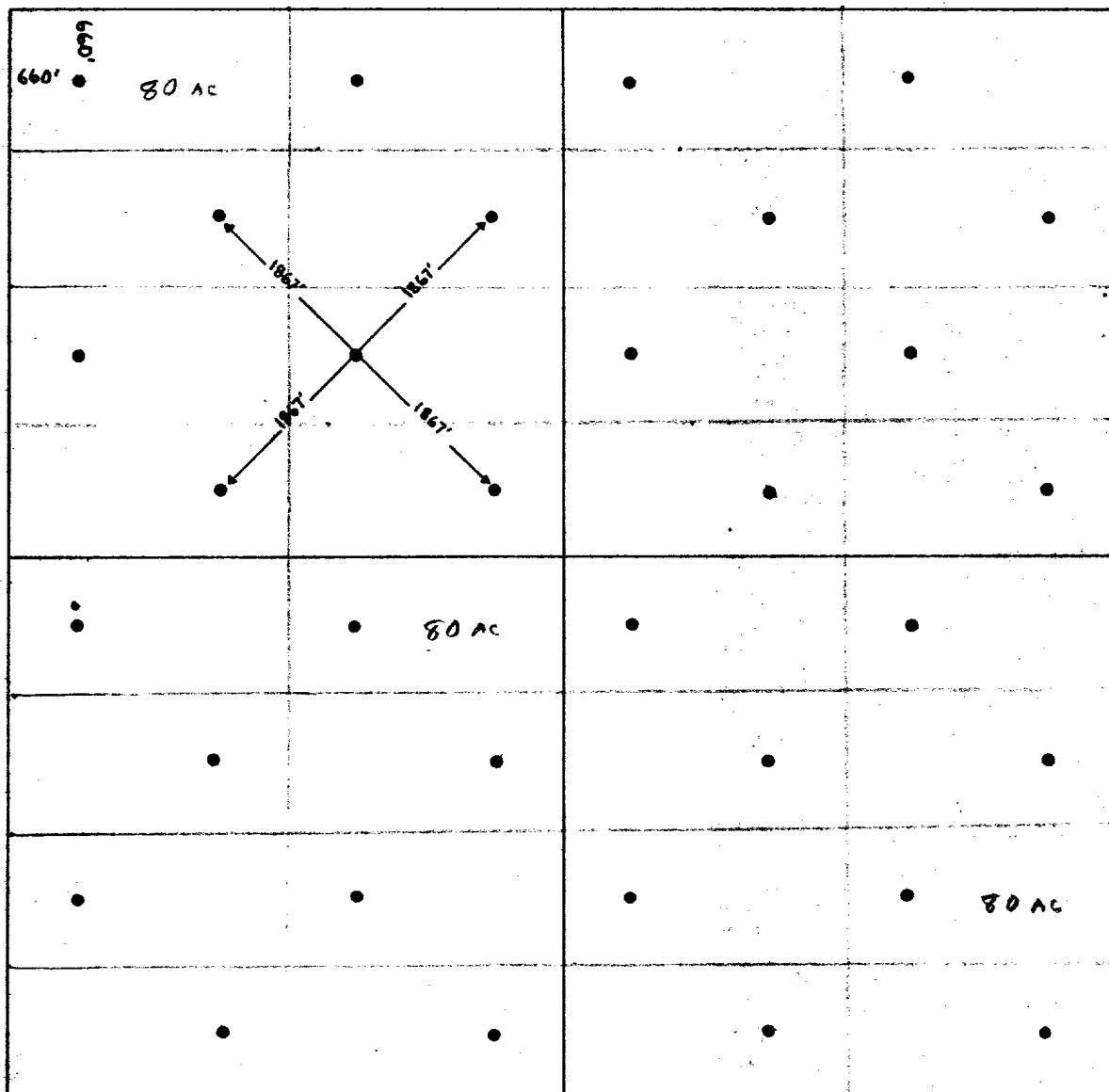
COMPARISON OF VARIOUS WELL SPACING PLANS

FIGURE 1

EIGHTY ACRE SPACING PLAN

WELL LOCATIONS LIMITED TO DIAGONAL QUARTER QUARTER SECTIONS

SCALE 1" = 1600'



Case 269-70

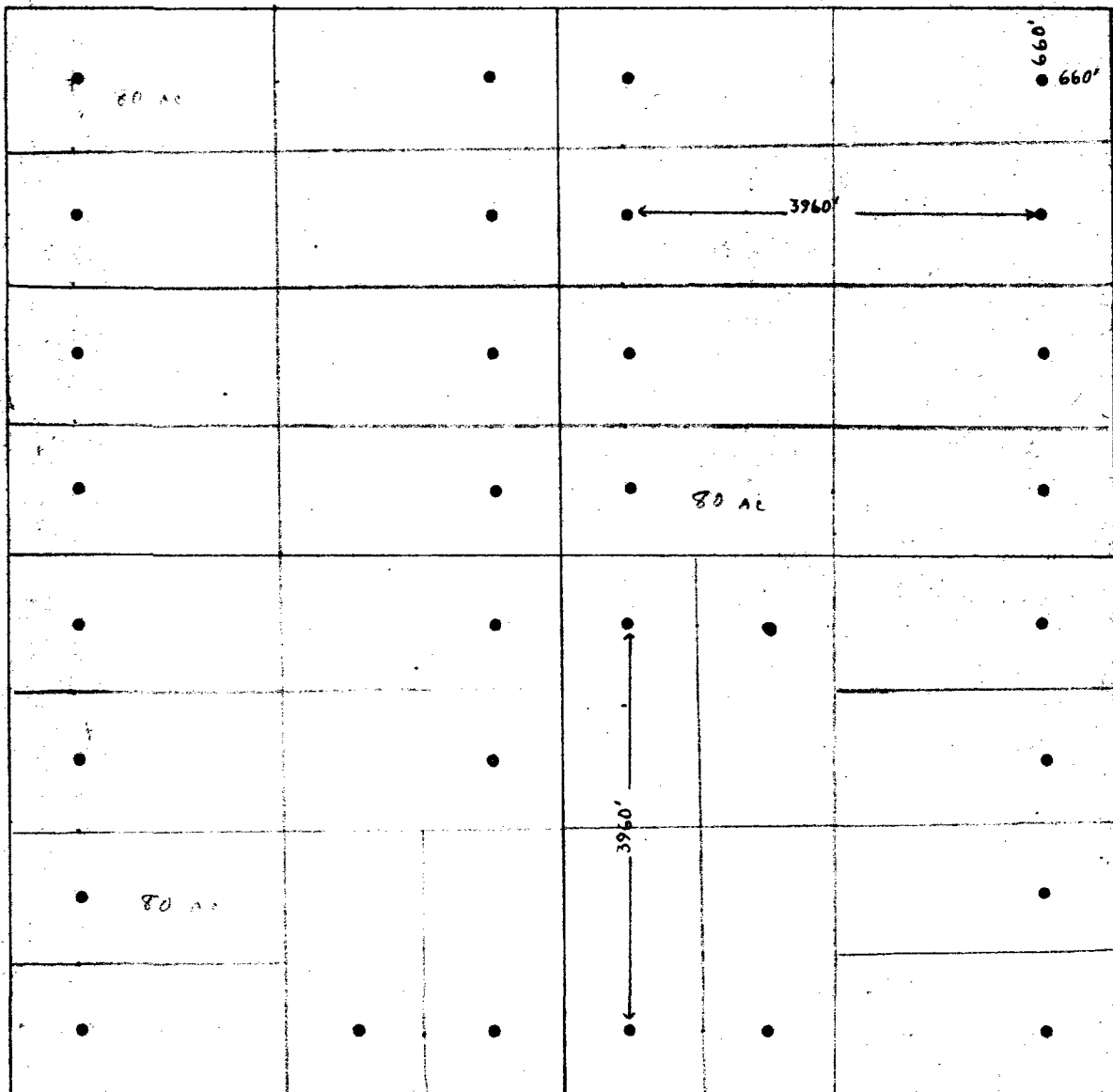
COMPARISON OF VARIOUS WELL SPACING PLANS

FIGURE II

POSSIBLE EIGHTY ACRE SPACING PLAN

WELL LOCATIONS NOT LIMITED TO DIAGONAL QUARTER QUARTER SECTIONS

SCALE 1" = 1600'



Case 269-70

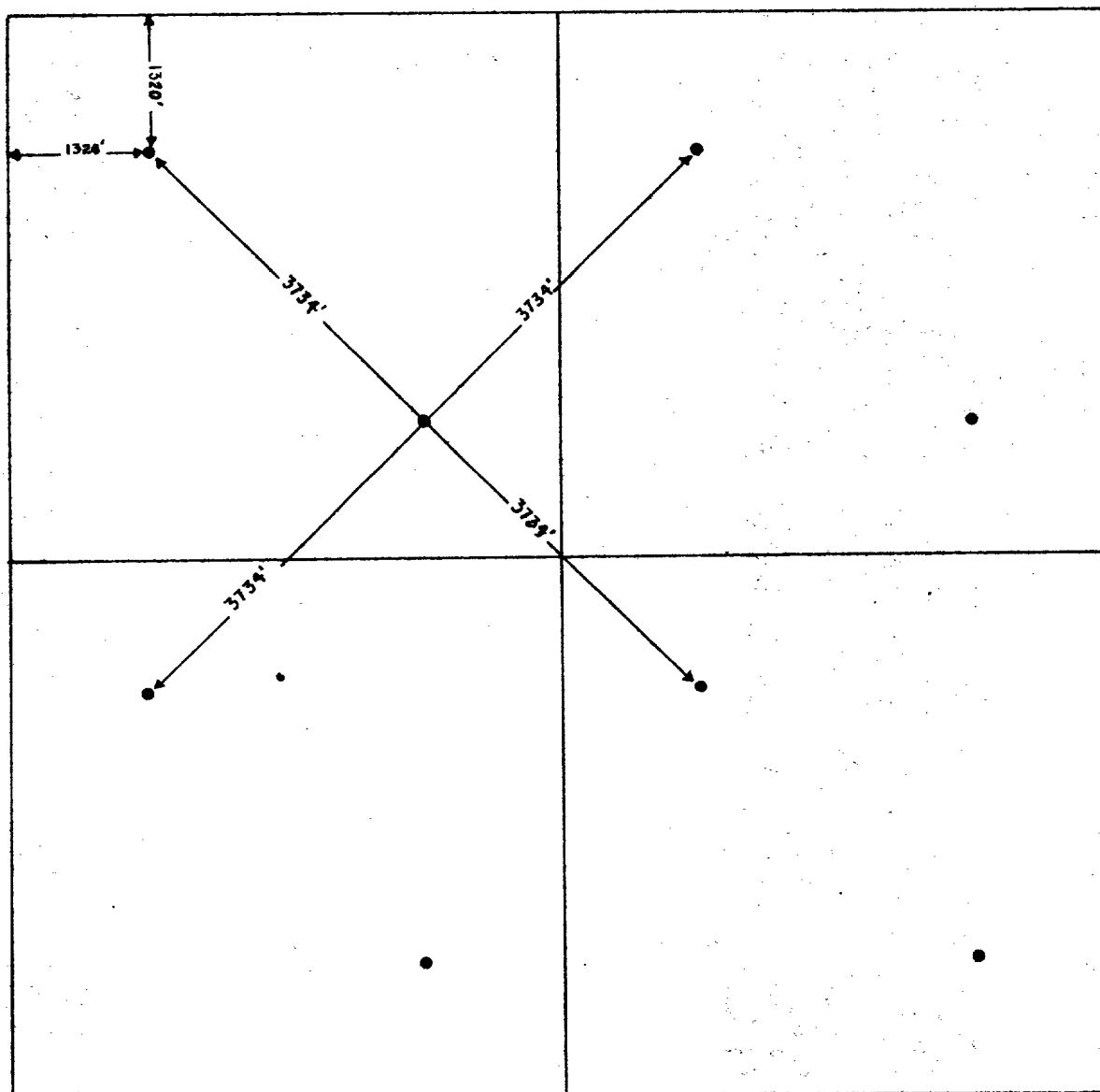
COMPARISON OF VARIOUS WELL SPACING PLANS

FIGURE III

THREE HUNDRED TWENTY ACRE SPACING PLAN

WELLS LOCATED IN CENTER OF DIAGONAL QUARTER SECTIONS

SCALE 1" = 1600'



269-70

TONS OF STEEL REQUIRED

50

100

150

200

250

300

OHIO

ATLANTIC (INCL. ART. LIFT)

AVERAGE 253 TONS

COST OF COMPLETING WOLFCAMP WELL

\$ 50000

100000

150000

200000

250000

OHIO

ATLANTIC

AVERAGE

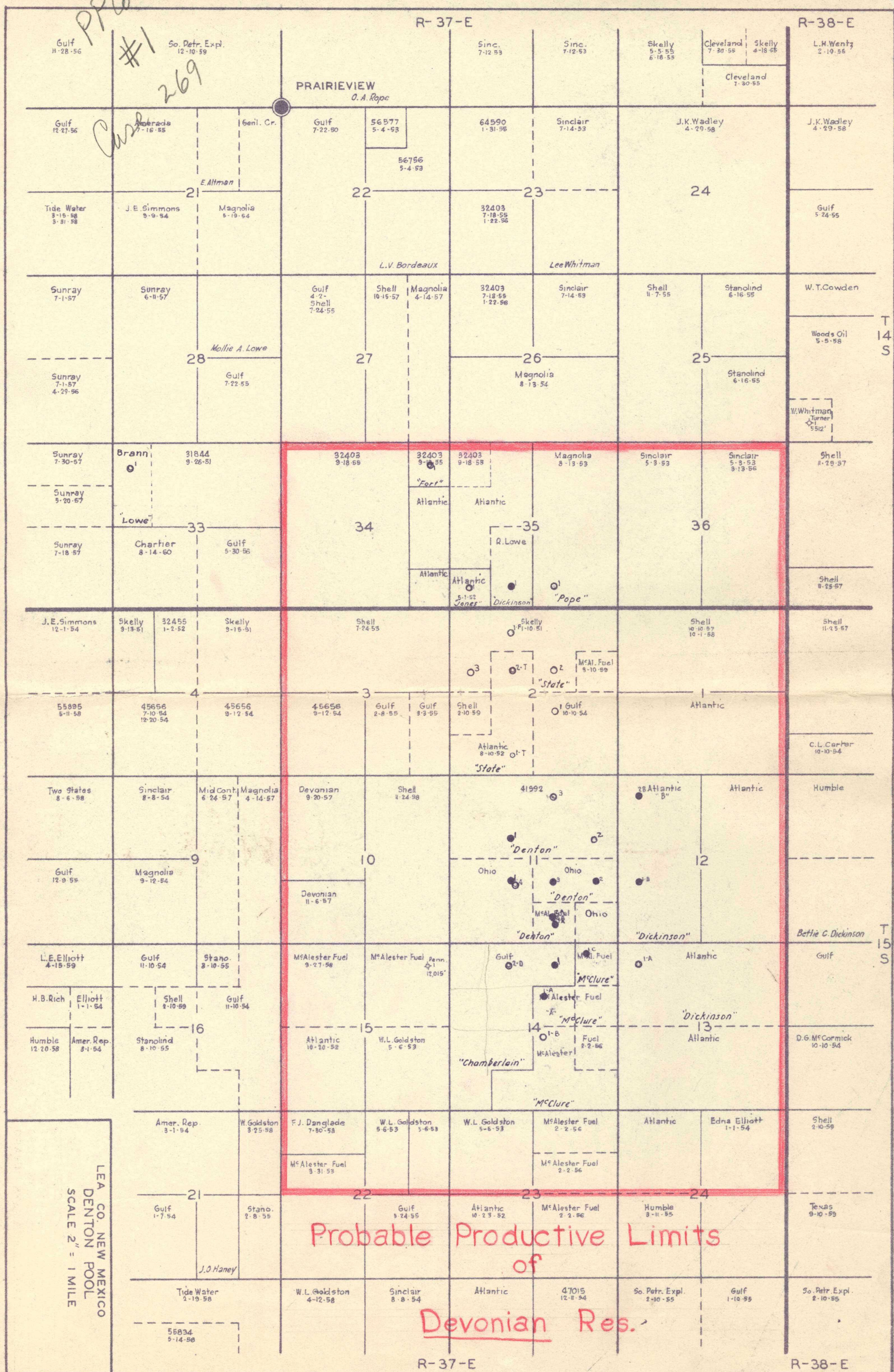
\$ 175,000

DENTON - WOLFCAMP

PP 5

Case 270

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE



TRACT 34 (Continued)

8.	Wm.J. Alexander	1/320
9.	Reuben & Helen E. Taylor	1/320
10.	Warner J. & Ester D. Lang	1/320
11.	Dr. Grant Augustine	1/320
12.	Martha M. Stille	2/320
13.	Dr. F. Earl Bellinger and Edna H. Bellinger	1/40
14.	Ruby Mae Honey Well	1/320
15.	Gerald V. Carroll	1/320
16.	Harold J. Spillman	1/320
17.	Karl S. Powers	1/320
18.	Wm. H. Enfield	1/320
19.	Harry W. Crouch	1/320
20.	Thomas M. Shimon	1/320
21.	Howard V. & Bernice L. Kratz	1/320
22.	John, Emma, & Katherine Plashal	1/320
23.	Carl B. Patchen	1/640
24.	Dewey Ward Strang	1/640
25.	Johnie A. Hermanson and Herman A. Hermanson	1/320
26.	W. Everett Taylor	1/320
27.	Dr. Rhetta Ireland	1/320
28.	H. C. Dorrien and Elyse Dorrien	1/320
29.	Shell Oil Company	1/8
30.	H. T. Dean	1/64
31.	H. Dillard Schenck	3/64
32.	B. H. Pope	1/24
33.	Fannie May Gardner	1/24
34.	B. L. Pope	1/24
35.	A. T. Pope	1/24
36.	O. A. Pope	1/24
37.	Mrs. J. R. Fort	1/24
38.	Harry Flackman	25/320
39.	Rosalind Redfern	15/320
40.	J. H. Herd	10/320

TRACT 35 All of Sec. 2, T15S, R37E

1.	State of New Mexico	All
----	---------------------	-----

TRACT 36 NE $\frac{1}{4}$ Sec. 15, T15S, R37E

1.	J. S. Waller	7/8
2.	Royalties Unlimited	1/8

TRACT 32 $E\frac{1}{2} W\frac{1}{2}$, $SW\frac{1}{4} NW\frac{1}{4}$, $NW\frac{1}{4} SW\frac{1}{4}$, Sec. 35, T14S, R37E

- | | | |
|----|--|------|
| 1. | Mary Clayton et al, Guardians
for Walter E. Dickinson, Candace
Dickinson, W. Gordon Dickinson II | 3/4 |
| 2. | J. E. Simmons | 1/8 |
| 3. | Saltmont Oil Company | 1/16 |
| 4. | Jean E. Simmons | 1/16 |

TRACT 33 $W\frac{1}{2}$ Sec. 36, T14S, R37E

- | | | |
|-----|---|---------|
| 1. | G. M. Shelton | 50/960 |
| 2. | Lessing Alch | 5/960 |
| 3. | B. D. Buckley | 40/960 |
| 4. | Henry Lange | 5/960 |
| 5. | Stanley F. Jackes | 20/960 |
| 6. | Roy V. Flesh | 15/960 |
| 7. | Erle Payne | 20/960 |
| 8. | Fannie May Gardner | 1/24 |
| 9. | B. H. Pope | 1/12 |
| 10. | B. L. Pope | 1/8 |
| 11. | A. T. Pope | 5/48 |
| 12. | O. A. Pope | 1/8 |
| 13. | Mrs. J. R. Fort | 1/16 |
| 14. | Ralph Lowe | 1/48 |
| 15. | Paul L. Davis | 5/128 |
| 16. | Harry Adams, L. H. Tyson | 1/64 |
| 17. | W. B. Collins | 1/128 |
| 18. | H. L. Brown, W. R. Wheeler | 1/8 |
| 19. | Wm. B. Johnston | 3/960 |
| 20. | T. L. Stall | 8/960 |
| 21. | J. W. Hunt | 4/960 |
| 22. | John J. Redfern | 15/8680 |
| 23. | Margaret A. Redfern | 3/8680 |
| 24. | Frank J. Redfern | 2/960 |
| 25. | Margaret M. Redfern | 2/960 |
| 26. | John J. Redfern Jr. and
Rosalind Redfern | 15/960 |
| 27. | John J. Redfern Jr. and
Rosalind Redfern | 23/960 |
| 28. | J. H. Herd | 5/960 |
| 29. | J. H. Herd | 5/960 |
| 30. | J. H. Herd | 16/960 |

Not Leased

TRACT 34 $E\frac{1}{2}$ Sec. 36, T14S, R37E

- | | | |
|----|---------------------|--------|
| 1. | W. T. Mann | 1/16 |
| 2. | Henry Kemp | 3/64 |
| 3. | Harry S. Wright | 23/640 |
| 4. | W. B. Fulton | 1/8 |
| 5. | George F. Norton | 1/64 |
| 6. | Katharine L. Jones | 1/32 |
| 7. | John William Hughes | 1/640 |

(Continued)

TRACT 27 SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 34, T14S, R37E

- | | | |
|----|-----------------------------------|------|
| 1. | Mary Clayton et al, Guardians for | 3/4 |
| | Walter E. Dickinson, Candace | |
| | Dickinson, W. Gordon Dickinson II | |
| 2. | J. E. Simmons | 1/8 |
| 3. | C. E. Oberholtzer | 1/16 |
| 4. | Jean E. Simmons | 1/16 |

TRACT 28 W $\frac{1}{2}$, W $\frac{1}{2}$ E $\frac{1}{2}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 34, T14S, R37E

- | | | | |
|-----|-----------------------------|-------------------|------------|
| 1. | Fronzo E. Fort and | 55/599 | |
| | Johney Mae Penny | | |
| 2. | G. M. Shelton | 2567/9504 | |
| 3. | P. H. Golden | 229/4752 | |
| 4. | B. D. Buckley | 511/9504 | |
| 5. | Charles Wilson | 22/9504 | Not Leased |
| 6. | L. I. Mastrup | 27/11880 | |
| 7. | John H. & Ida P. Eaton | 27/4752 | Not Leased |
| 8. | Arthur H. Cook | 27/4752 | Not Leased |
| 9. | Estelle T. Dietsch and | 27/5940 | |
| | John H. Theye Jr. | | |
| 10. | Adolph E. or Lydia R. Meinl | 27/11880 | Not Leased |
| 11. | E. B. Drongeson | 27/4752 | |
| 12. | Mary C. Chalker | 27/11880 | Not Leased |
| 13. | Rosalind Redfern | 81/11880 | |
| 14. | J. H. Herd | 27/5940 | |
| 15. | Mary Whelan | 171/4752 | |
| 16. | Roy G. Barton | 1/20 | |
| 17. | John E. & David B. Crawford | 1/280 | |
| 18. | J. W. McMillen | 3/104 | |
| 19. | Forster Petroleum Co. | 11/52 | |
| 20. | Fred S. Wright | 3/104 | |
| 21. | Mayme I. Kroenlein | 110,583/4,324,320 | |
| 22. | Clarence E. Hinkle | 49,896/4,324,320 | |
| 23. | Edith H. Vesely | 1073/33264 | |
| 24. | Reese Cleveland | 1188/33264 | Not Leased |
| 25. | Thos. E. Boyd | 594/33264 | |

TRACT 29 E $\frac{1}{2}$ Sec. 35, T14S, R37E

- | | | | |
|-----|--------------------|---------|------------|
| 1. | G. M. Shelton | 50/960 | |
| 2. | Lessing Alch | 5/960 | |
| 3. | B. D. Buckley | 40/960 | |
| 4. | Roy V. Flesh | 15/960 | |
| 5. | Stanley F. Jackes | 20/960 | |
| 6. | Henry Lange | 5/960 | |
| 7. | J. H. Herd | 26/960 | Not Leased |
| 8. | Erle Payne | 20/960 | |
| 9. | Fannie May Gardner | 40/960 | |
| 10. | B. H. Pope | 120/960 | |
| 11. | B. L. Pope | 80/960 | |
| 12. | A. T. Pope | 100/960 | |

(Continued)

TRACT 29 (Continued)

13.	O. A. Pope	120/960
14.	Mrs. J. R. Fort	60/960
15.	Paul L. Davis	5/128
16.	H. L. Brown & W. R. Wheeler	120/960
17.	Ralph Lowe	20/960
18.	T. L. Stall	8/960
19.	J. W. Hunt	4/960
20.	Wm. B. Johnston	3/960
21.	Harry Adam & L. H. Tyson	15/960
22.	W. B. Collins	1/128
23.	Rosalind Redfern and John J. Redfern, Jr.	38/960
24.	John J. Redfern	5/2880
25.	Margaret A. Redfern	1/2880
26.	Frank J. Redfern	2/960
27.	Margaret M. Redfern	2/960

TRACT 30 SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 35, T14S, R37E

1.	United States	All
----	---------------	-----

TRACT 31 NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 35, T14S, R37E

1.	Fronzo E. Fort and Johney Mae Penny	55/599	
2.	G. M. Shelton	2567/9504	
3.	P. H. Golden	229/4752	
4.	B. D. Buckley	511/9504	
5.	Charles Wilson	22/9504	Not Leased
6.	L. I. Mastrup	27/11880	
7.	John H. and Ida P. Eaton	27/4752	Not Leased
8.	Arthur H. Cook	27/4752	Not Leased
9.	Estelle T. Dietsch and John H. Theye Jr.	27/5940	
10.	Adolph E. or Lydia R. Meini	27/11880	Not Leased
11.	E. B. Drogeson	27/4752	
12.	Mary C. Chalker	27/11880	Not Leased
13.	Rosalind Redfern	81/11880	
14.	J. H. Herd	27/5940	
15.	Mary Whelan	171/4752	
16.	Roy G. Barton	1/20	
17.	John E. and David B. Crawford	1/280	
18.	Mayme I. Kroenlein	1,058,607/4,324,320	
19.	Odell L. Lowe	1/20	
20.	Edith H. Vesely	1073/33264	
21.	Reese Cleveland	1188/33264	Not Leased
22.	Thos. E. Boyd	594/33264	

TRACT 13 (Continued)

- | | | |
|----|--------------|---|
| 7. | B. E. Hughes | 1/4 under South 100
acres of W $\frac{1}{2}$ |
| 8. | B. F. Turner | 3/64 |

TRACT 14 N $\frac{1}{2}$ Sec. 11, T15S, R37E

- | | | | |
|-----|----------------------------------|------|------------|
| 1. | Atlantic Refining Co. | 1/2 | Not Leased |
| 2. | J. M. Denton | 5/16 | |
| 3. | R. C. Barnes | 3/64 | |
| 4. | R. C. Barnes & J. C. Barnes, Tr. | 1/64 | |
| 5. | Fred Turner Jr. | 3/64 | |
| 6. | Humble Oil & Refining Co. | 1/64 | |
| 7. | Russell W. Grimes | 1/64 | |
| 8. | Harlan Grimes | 1/64 | |
| 9. | W. W. West | 1/64 | |
| 10. | Millie J. Grimes | 1/64 | |

TRACT 15 E $\frac{1}{2}$ Sec. 12, T15S, R37E

- | | | |
|----|---|--------|
| 1. | Mary Clayton et al, Guardians for
Walter E. Dickinson, Candace
Dickinson, and Gordon Dickinson II | 1/2 |
| 2. | H. Dillard Schenck | 7/32 |
| 3. | Kirby D. Schenck | 1/32 |
| 4. | J. E. Simmons | 62/256 |
| 5. | Anderson Carter | 1/256 |
| 6. | Powhatan Carter Jr. | 1/256 |

TRACT 16 W $\frac{1}{2}$ Sec. 12, T15S, R37E

- | | | |
|-----|---|------------------|
| 1. | Mary Clayton et al, Guardians for
Walter E. Dickinson, Candace
Dickinson, and Gordon Dickinson II | 1/4 |
| 2. | F. J. Danglade | 1/16 |
| 3. | June P. Danglade | 1/16 |
| 4. | J. E. Simmons | 134/256 |
| 5. | Jean E. Simmons | 1/16 |
| 6. | Powhatan Carter Jr. | 1/256 |
| 7. | Anderson Carter | 1/256 |
| 8. | J. D. Langford | 1/256 |
| 9. | R. J. St. Germain | 21,868/2,560,000 |
| 10. | W. N. Smith | 18,963/2,560,000 |
| 11. | Roger H. Davis | 29,169/2,560,000 |

TRACT 17 All of Sec. 13, T15S, R37E

- | | | |
|----|---|-----|
| 1. | Mary Clayton et al, Guardians for
Walter E. Dickinson, Candace
Dickinson, and Gordon Dickinson II | 3/4 |
|----|---|-----|

(Continued)

TRACT 17 (Continued)

2.	J. E. Simmons	1/32
3.	Saltmont Oil Co.	3/64
4.	F. J. Danglade	1/16
5.	J. D. Langford	5/512
6.	R. J. St. Germain	109,340/5,120,000
7.	W. N. Smith	94,815/5,120,000
8.	Roger H. Davis	145,845/5,120,000
9.	C. E. Oberholtzer	1/32

TRACT 18 NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 14, T15S, R37E

1.	R. A. Neilson (Royalty Deed)	56/512
2.	Mildred Apple (Royalty Deed)	1/8
3.	John Neilson (Royalty Deed)	1/8
4.	Milton Neilson (Royalty Deed)	1/8
5.	R. C. Barnes (Royalty Deed)	8/512
6.	B. F. Turner	9/256
7.	John F. Judge	7/256
8.	Corrine Kelly	14/4480
9.	S. A. Winkleman	140/4480
10.	S. K. Goldston	140/4480
11.	D. E. Young	140/4480
12.	J. C. Goldston	140/4480
13.	W. E. Greenman	70/4480
14.	L. J. O'Conner Jr.	70/4480
15.	G. S. Sullivan	42/4480
16.	Anna Adams	70/4480
17.	Margaret Bell	56/4480
18.	L. Goldston Batchelor	28/4480
19.	Ernest E. Gustafson	42/4480
20.	George D. Platt	28/4480
21.	McAlester Fuel Company	350/4480
22.	Lawton Oil Corporation	175/4480
23.	W. C. Partee	231/4480
24.	W. A. G. Woodward	28/4480
25.	C. R. Cole	70/4480
26.	E. P. Joyner	70/4480
27.	Alvin L. Rogers Jr.	28/4480
28.	Bill Barnes	28/4480

TRACT 19 SW $\frac{1}{4}$ Sec. 15, T15S, R37E

1.	J. M. Denton	1/2	
2.	James R. Haynes	5/320	
3.	Ray Davenport	1/320	
4.	Earl H. Payne	2/320	Not Leased
5.	Frank Haynes	4/320	
6.	The Atlantic Refining Co.	3/8	Not Leased
7.	P. L. Abernathy	1/32	
8.	F. H. McIntyre	8/320	
9.	E. R. McHenry	1/32	

TRACT 20 NW $\frac{1}{4}$ Sec. 15, T15S, R37E

1. James R. Haynes	5/320	
2. Ray Davenport	1/320	
3. Earl H. Payne	2/320	Not Leased
4. Frank Haynes	4/320	
5. The Atlantic Refining Co.	3/8	Not Leased
6. A. C. Holder	14/320	Not Leased
7. H. Dillard Schenck	14/320	Not Leased
8. J. M. Denton	1/2	

TRACT 21 S $\frac{1}{2}$ NW $\frac{1}{4}$, Sec. 22, T15S, R37E

1. S. A. Mauldin Estate	1/4
2. J. C. Sartin	3/8
3. C. E. Oberholtzer	1/8
4. Ed D. Berryman	6/48
5. Y. N. Campbell	1/16
6. Pat Whitsitt	3/48

TRACT 22 NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 22, T15S, R37E

1. Gaston E. Taylor	All
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TRACT 23 NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 22, T15S, R37E

1. Trustee of Lovington Lodge # 46 A.F. & A.M.	1/8
2. Trustee of Lovington Chapter # 35 O.E.S.	1/8
3. M. G. Tarpley	1/4
4. Scharbauer & Millard Eidson	3/8
5. Fern Sawyer Eidson	1/8

TRACT 24 NE $\frac{1}{4}$ Sec. 24, T15S, R37E

1. United States	All
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TRACT 25 NW $\frac{1}{4}$ Sec. 24, T15S, R37E

1. Mary Clayton et al, Guardians for Walter E. Dickinson, Candace Dickinson, W. Gordon Dickinson II	All
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TRACT 26 SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 34, T14S, R37E

1. United States	All
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TRACT 8 (Continued)

23.	Margaret M. Redfern	1/320
24.	Paul L. Davis	10/159
25.	J. W. Hunt & T. L. Stall	6/320
26.	R. C. Barnes	5/159

TRACT 9 $N\frac{1}{2}$ Sec. 3, T15S, R37E

1.	John R. Fort Estate, being Fonzo Fort & Johnney Mae Penny	1/4	
2.	Argo Royalty Co.	1/4	
3.	Euromex Oil Co.	1/8	
4.	D. F. Fleet Estate	1/12	Not Leased
5.	Frank T. Fleet	1/24	Not Leased
6.	Shell Oil Co.	1/4	Not Leased

TRACT 10 $SW\frac{1}{4}$ and $W\frac{1}{2}$ $SE\frac{1}{4}$, Sec. 3, T15S, R37E

1.	Sunshine Royalty Co.	13/40	$SW\frac{1}{4}$ Not Leased
2.	Leonard Oil Co.	3/8	$SW\frac{1}{4}$ Not Leased
3.	Estate of Allie M. Lee	2/40	$SW\frac{1}{4}$ Not Leased
4.	W. Arthur Simpson, an incompetent person	1/4	

TRACT 11 $E\frac{1}{2}$ $SE\frac{1}{4}$, Sec. 3, T15S, R37E

1.	W. Arthur Simpson, an incompetent person	1/4
2.	J. L. Reed	1/2
3.	A. C. Chester	8/40
4.	Al Holthouse	1/40
5.	J. Lloyd Swalla and Dora E. Swalla	1/40

TRACT 12 $E\frac{1}{2}$ Sec. 10, T15S, R37E

1.	Pacific Royalty Co.	All
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TRACT 13 $W\frac{1}{2}$ Sec. 10, T15S, R37E

1.	Euromex Oil Co. Inc.	3/8
2.	W. B. Osborn	3/16
3.	John J. Fleets	3/32
4.	A. C. Holder	3/128
5.	H. Dillard Schenck	3/128
6.	W. Arthur Simpson, an incompetent person	1/4 under $W\frac{1}{2}$ except South 100 acres

(Continued)

SCHEDULE OF MINERAL OWNERS
DENTON AREA, LEA COUNTY, NEW MEXICO

TRACT 1 SE $\frac{1}{4}$ Sec. 15, T15S, R37E

- | | | |
|----|---------------------|--------|
| 1. | Charles I. Waller | 3/4 |
| 2. | Cal Bedeaux | 3/160 |
| 3. | Royalties Unlimited | 37/160 |

TRACT 2 E $\frac{1}{2}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 14, T15S, R37E

- | | | |
|-----|--|------|
| 1. | R. V. Oberholtzer | 5/24 |
| 2. | C. E. Oberholtzer | 5/24 |
| 3. | J. O. Gillham | 2/24 |
| 4. | J. E. Simmons | 4/24 |
| 5. | Fay R. Power | 1/24 |
| 6. | June P. Danglade | 2/24 |
| 7. | Clara Louise Brown | 1/24 |
| 8. | James H. and Ferns Danglade
(Joint Tenants) | 1/24 |
| 9. | C. M. and Mary Danglade | 1/24 |
| 10. | F. S. Danglade | 2/24 |

TRACT 3 N $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 14, T15S, R37E, and
NE $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, Sec. 23, T15S, R37E

- | | | |
|----|--|-------|
| 1. | R. C. and J. C. Barnes, Trustees | 1/26 |
| 2. | J. C. Barnes | 1/26 |
| 3. | Wayne Moore | 4/26 |
| 4. | Charles R. Turner | 4/26 |
| 5. | J. V. Terrill | 3/26 |
| 6. | Pattee Royalty Association
(For 50 years and then to
W. C. Stoneman) | 13/26 |

TRACT 4 SE $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 14, T15S, R37E and
SE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 23, T15S, R37E

- | | | |
|----|--|-----|
| 1. | Neville G. and Doris Smith Penrose | 1/8 |
| 2. | J. M. Leonard | 3/8 |
| 3. | Pattee Royalty Association
(For 50 years and then to
W. C. Stoneman) | 4/8 |

TRACT 5 NE $\frac{1}{4}$ Sec. 22, T15S, R37E, and NW $\frac{1}{4}$ Sec. 23, T15S, R37E

- | | | |
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| 1. | Nellie Fort | All |
|----|-------------|-----|

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EX-111 ZA
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EX-111 ZP
EX-111 ZQ
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TRACT 6 S $\frac{1}{2}$ Sec. 11, T15S, R37E

1.	Fred Turner, Jr.	4/64	
2.	R. C. Barnes	3/64	
3.	R. C. and J. C. Barnes, Tr.	1/64	
4.	W. W. West	1/64	
5.	Russell W. Grimes	3/64	
6.	Bernhard A. Goetke	3/160	
7.	Wayne Moore	4/64	
8.	Charles R. Turner	4/64	
9.	Peter Cooper Bryce	17/160	
10.	The Atlantic Refining Co.	16/64	SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, and SE $\frac{1}{4}$ SE $\frac{1}{4}$ Not Leased
11.	James M. (J. M.) Denton	20/64	

TRACT 7 S $\frac{1}{2}$ Sec. 1, T15S, R37E

1.	Mary Clayton et al, Guardians for Walter E. Dickinson, Candace Dickinson, W. Gordon Dickinson II	3/4	
2.	J. E. Simmons	1/32	
3.	F. J. Danglade	1/16	
4.	Saltmont Oil Company	1/16	
5.	J. D. Langford	3/256	
6.	R. J. St. Germain	65,604/2,560,000	
7.	W. N. Smith	56,889/2,560,000	
8.	Roger H. Davis	87,507/2,560,000	

TRACT 8 N $\frac{1}{2}$ Sec. 1, T15S, R37E

1.	Sudie Priest	59/636	
2.	Wm. T. Priest	3/72	
3.	Ada Priest Allen	3/72	
4.	Albert R. Priest	1/96	
5.	Edna Priest Braswell	3/72	
6.	Bud Drew Priest, Inc.	3/72	
7.	Margaret Priest Benson	3/72	
8.	Ethel Priest Shepard	1/96	
9.	Eula Priest Haven	1/64	
10.	H. L. Lowe	1/32	Not Leased
11.	Roy G. Barton	1643/958,992	
12.	A. C. Chester	20/318	
13.	G. C. Lehman	3/318	Not Leased
14.	John E. & David B. Crawford	3/318	
15.	T. Betenbough	10/318	
16.	Vora L. Hartley	3/32	
17.	Coy S. Lowe	3/32	
18.	Brady M. Lowe	3/32	
19.	Odell L. Lowe	3/32	
20.	John J. Redfern	1/384	
21.	Margaret A. Redfern	1/1920	
22.	Frank J. Redfern	1/320	

(Continued)

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Well Name	Operator	Location	Elevation	Total Depth	Formation	Production Interval	Casing	IP	Acid	GOR	Gty	Top Wolfcamp	DST's In Wolfcamp	Top Devonian	DST's In Devonian	Remarks
#2-B Dickinson	Atlantic	660' N&W 12-15S-37E	3804	9522 PB 9442	Wolfcamp	Perf: 9345- 9463, 9371- 9403	7"-9507	F 1116 BOPD 1/4" ck.	10,000	128	43.2	9325(-5521)	9301-9410 Rec. 3600' oil, 560' HOGCM, 490' sl OGCM 9410-50 Rec. 370' oil, 930' HOGCM, unloaded. 9448-9522 Rec. 200' oil 2730' HOGC sul wtr.			WC O/W contact approx. (9450)-5646 By Drillstem Tests
#2-A Denton	McAlester	810'S 1980'E 11-15S-37E	3802	9580	Wolfcamp	Perf: 9077-9106 9108-28, 9140-65, 9170-9206 9216-30	5 1/2"-9579	F 198 BOPD 5/16" ck.	6000	475	43.0	8988(-5186)	None			
#1 Denton	Ohio	1980' S&W 11-15S-37E	3806	9750 PB 9250	Wolfcamp	Open hole 8988-9250	5 1/2"-8988	F 251 BOPD 5/8" ck.	6000	360	41.0	9006(-5200)	9019-9123 Rec. 60' OCM, 240' oil. 9121-9173 Rec. 120' oil, 180' HOGCM est. 100,000 CFG unloaded est. 1980' oil, 180' HOGCM 9550-9601 Rec. 90' sl GCM			WC O/W Contract estimated -5794 by cores
#2 Denton	Ohio	1980'S 660'E	3802	9660 PB 9300	Wolfcamp	Open hole 9070-9300	5 1/2"-9070	F 111 BOPD 11/32" ck.	2500	356	41.0	9088(-5286)	9256-9290 Rec. 30' GCM 9291-9376 Rec. 30' mud. 9450-9495 Rec. 600' sl GCM 9621-60 Rec. 570' sul wtr. 90' mud			
FAILURES: -																
#1 Waller	McAlester	660' N&E 15-15S-37E	3812	12015				P & A				9415(-5603)	9435-9541 op 28 min Rec. 20' mud			Lost circulation at 11,410 and drilled blind to 12,015 where drill pipe was lost in hole. Ran Schl. to top drill pipe at 11,418 and plugged well as operators believed it was running too low to warrant going deeper in face of the encountered difficulties. This test was probably in Pennsylvanian at TD.

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Well Name	Operator	Location	Elevation	Total Depth	Formation	Production Interval	Casing	IP	GOR	Gty	Top Wolfcamp	DST's in Wolfcamp	Top Devonian	DST's in Devonian	Remarks
(#1-F Continued)															
#2-F State	Skelly	1980' N&E, 2-15S-37E												(continued) 12442-565 Rec. 1820' oil, 3200' HOGC WB 12566-690 Rec. 1482' oil, 3500' sl OGWB 12698-800 rec 3600' OGC WB, 90' OGCM 12799-896 rec 7180' salty sul wtr.	5/11/51: TD 12896 running casing
#3-F State	Skelly	1980'N 660'W 2-15-37E													
#1-D State "G"	Gulf	1980' S&E, 2-15S-37E													5/9/51 RUR 5/9/51 location 5/9/51 location
WELLS COMPLETED IN MISSISSIPPIAN: -															
#1-A Dickinson	Atlantic	660' N&W, 13-15S-37E	3792'	11,325	Mississippian	Perf: 11272-78 11284-88 11293-302 11309-315 11312-318 11322-324	7"-11324	F 305 BOPD 3/8" ck.	142	41.0	9310(-5518)	9302-83 Rec. 150' oil, 240' OGCM 9383-9449 rec. 10' oil, 135' OCM, 85' WCM, 180' sul wtr. 9465-9506 rec. 96' mud C with sul wtr. 9877-9940 rec. 3958' sl GC sul wtr. 10573- 620 rec. 6393' sul wtr.		DST's IN MISSISSIPPIAN: - 11236-295 Rec. 1000' OGWB, 400' oil, 500' HOGC. 11222-318 Rec. 500' sl OGWB, 1520' OGCM	This well has recently gone to water and is to be deepened to the Devonian
WELLS COMPLETED IN WOLF CAMP															
#1-B Dickinson	Atlantic	1980'S 660'W 12-15S-37E	3795	9420 PB 9415	Wolfcamp	Perf: 9395- 9414	7"-9416	F 177 BOPD 20/64" ck.	216	40.0	9273(-5478)	9265-9350 Rec. 165' OGCM 9345-80 Rec. 165' G & sl sul wtr cut oil 9378-9420 Rec. 3100' oil, 300' HOGCM			

Well Name	Operator	Location	Elevation	Total Depth	Production		GOR	Gty	Top Wolfcamp	DST's in Wolfcamp	Top Devonian	DST's in Devonian	Remarks
					Formation	Casing							
#1-T State	Atlantic	660'S, 1980'W, 2-15S-37E	3810'						9035(-5225)	9039-9104 F est 30 BOFH 9137-9184 rec 10' M 9440-65 rec 180' oil, 90' OGM 10250-285 rec. 90' mud 10380-470 rec 430' mud.	11,665(-7855) Scout		5/9/51 ø 12,175 ls
#2-State	Atlantic	1980' N&W, 2-15S-37E	3813'										5/9/51: ø 8210 ls & sh
#1 Lowe	Brann	660' N&W, 33-14S-37E											5/14/51 ø 1400 red beds
#2-D Chamberlain	Fulf	660' N, 1980'W, 14-15S-37E	3805'										5/9/51: - ø 7270" ls
#1-B McClure	McAlester	2310' SSE, 14-15S-37E	3800'						9130(-5330) Scout	9132-9217 rec. 390' mud cut oil, 150' sul. water.			5/9/51: - ø9833 ls
#1-C McClure	McAlester	330'N, 990'E, 14-15S-37E	3803'						9060(-5257) Scout	9060-9227 rec. 220' MCO, 120' sul wtr.			5/9/51: ø 9681 ls & sh
#1 Pope	Magnolia	660'S 1980'E, 35-14S-37E											5/9/51: - RUR
#4 Denton	Ohio	1980'S 2080'W, 11-15S-37E	3806'										5/9/51 ø 10,861 ls & sh
#1 Fort	Phillips	664'N 660'E, 34-14S-37E	3829'						8990(-5184) Scout				5/11/51 ø 6230 dol & ss
#2 Denton	Phillips & Atlantic	1979'N 662'E, 11-15S-37E											5/11/51 waiting on contractor
#3-A Denton	Phillips & Atlantic	660'N, 1928'E, 11-15S-37E											5/11/51 ø 6405 dol & ss
#1-F State	Skelly	660'N, 1980'W, 2-15S-37E	3814'						9080-5266	9101-9200 F from 23 to 29 BOFH 9200-50 rec. 60' oil, 90' GCM 30' salt wtr 9774-9825 rec. 7037' sul wtr.	12070-8256	12094-206 Rec. 180' mud 12196-325 Rec. 180' oil, 85' OGCM 12326-450 F 195 BO in 5 hrs 12 min.	Devonian O/W-8985

#12

Well Name	Operator	Location	Elevation	Total Depth	Formation	Production Interval	Casing	IP	GOR	Gty	Top Wolfcamp	DST's in Wolfcamp	Top Devonian	DST's in Devonian	Remarks
#3 Denton	Ohio	1980' S&E 11-15S-37E	3803'	12,113 PB 12,094	Devonian	Perf: 11919-976 & 11986-12041	5 1/2"-12,113	F 843 BOPD 1 1/2" ck.	827	46.4	8970(-5167)	None	11,100(-7297)	11,131-228 rec 713' OCM 11,130-279 rec 100' oil, 1020' OC WB, 8700' GCM 11274- 402 rec. 150' oil, 420' HGC WB, 210' HOGCM, 720' HOGCM 11,399-535 F 60 BO 1st hr 11537-619 F 150 BOPH, 3,680,000 CRGPD 11,638-671 F 30 BO 15 min. 11740- 774 unloaded 9000' oil, 400' OGCM, 1000' WB.	
#1 Denton	Phillips & Atlantic	1980'N, 1988'W 11-15-37E	3806'	12,623	Devonian	Perf: 12,400-12,500	5 1/2"-12,621	F 1560 BOPD 1 1/2" ck.	1085	45.7	9045(-5239)	8989-9190: F 16 BO 30 mins. 9210-925 rec. 1275' oil 9294- 9501 rec 1000' sl OCWB / 135' HOGCM	11,450(-7644)	11,465-650 F 31.5 BO 1 hr. 12,115-166 F 64 BO 1 1/2 hrs. 12,166-216 F 59 BO 2 hrs. 12,213-266 F 25.8 BO 30 mins. 1" choke 12,266-316 F 16 BO 1 hr. 12,316-366 Reverse Circ. returns rec. 5522' oil, 2994' HOGCM 12,367-416 Rev. circ. 6060' oil, 6216' HOGCM 12,417-466 Rev. circ. OGWB, 15 BO, 6476' OGCM 12,467-516 Rev. circ. OGWB, 40 BO 12,517-566 Rev. circ. 46 BO 12,567-616 rev. circ. WB mud - NS	
#1 Federal Jones	Atlantic	660' S&W 35-14S-37E	3820'								9270(-5450) Scout	9250-9350 rec. 390' OGCM 9350- 9500 rec. 150' sl GCM		5/9/51 Drilling 10,943 ls & sh	

DRILLING WELLS - TO GO TO DEVONIAN

DENTON POOL Lea County, New Mexico									
Well Name	Operator	Location	Elevation	Total Depth	Formation	Production Interval	Casing	IP	
#1 Chamberlain	Gulf	CNMNE 14-15S-37E	3797'	11,513	Devonian	Open hole 11,501-11,513	7"-11,501	F 1048 BOPD 3/4" ck.	
#1 Dickinson	Lowe	660'S, 1980'W 35-14S-37E	3817'	12,385	Devonian	Open hole 12360-12385	5 1/2" 12360	F 960 BOPD 20/64" ck.	
#1 Denton	McAlester	660'S, 1980'E 11-15S-37E	3799'	11,467	Devonian	Perf: 11365- 464; 11325-375	5 1/2"-11465	F 456 BOPD 12/64" ck.	
#1-A McClure	McAlester	1650'N, 2310'E 14-15S-37E	3799'	12,325 FB 12,321	Devonian	Perf: 12258- 320	5 1/2"-12,324	F 464 BOPD 20/64" ck.	

Acid	GOR	Top Wolfcamp	Gty	Top Wolfcamp	DST's in Wolfcamp	Top Devonian	DST's in Devonian	Remarks
Natural	889	9010(-5213)	41.6		9059-9137 rec. 120' oil 210' HOGCM 9132-9225 rec. 70' mud sl SO	11490(-7693)	11499-513 F 142.5 BO 3 hrs.	
Natural	1000	9152(-5335)	44.5		9168-9248 rec. 90' OGCM, 7660' oil, 850' sul. wtr. 9227- 48 rec. 250' M 9226-9300 rec. 120' OGCM 9299-9412 rec. 95' M 10,225-308 rec. 4836' GC sul wtr.	12255(-8438)	12248-285 un- loaded sl GCWB, est. 1290' HOGCM 12248-310 pkr. failed rec. 1080' GCM 12254-310 pkr failed, rec. 1170' GCM 12,360-285 F 172 BO 2 hrs. 45 min.	Show wtr above -5431 in WC probably connate water.
Natural	1463	9000(-5201)	44.0		8997-9120 rec 420' OGCM 9038-9150 Rec. 1710' oil, 1170' HOGCM 9149-96 rec 3199' oil, 270' HOGCM 9499-9536 rec. 2685' oil, 800' HOGCM 9610-80 rec. 7270' sul. wtr. 10,190-285 rec. 450' sl. GCM	11253(-7454)	11265-317 rec 720' OGCM- WB, 2450' oil, 610' OGCM 11264-367 F 30 BO 1st hr. 11265-417 F 25 BO 30 min. 11365-464 F between 4-8 BOFH.	WC O/W contact between -5741 & -5811
Natural	1274	9040(-5241)	47.1		9103-98 rec. 40' OGCM, 320' GCM 9196-9357 rec. 90' oil 500' OG WB, 370' HOGCM 9394- 9563 rec 225' sl OGCM 9592-9616 rec. 60' OGCM, tr sul wtr 9614-36 rec. 60' sl OGCM	11500(-7701)	11520-590 rec 2000' sl OGC WB, 270' OGCM, un- loaded 1050' oil. 11656- 838 rec. 880' HOGCM 11835-11949 rec. 530' OGCM, 12,040-138 F 21 BO 30 mins.	

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