

FORMATION	TOP	BOTTOM	REMARKS
From top rotary drive bushing to derrick floor	0	1.2	
From top derrick floor to 9-5/8" OD casing.	1.2	12.6	
Surface hole	12.6	124	
Red bed and shells	124	333	1/2" @ 340
Shells	333	343	
			Net 13-3/8" @ 343 w/1000' size. 10 size.
			Tested 13-3/8" w/1000' 30 min., no break before or after drlg. plug.
No formation logged	343	350	
Red bed and sand	350	657	1/2" @ 530
Red bed and shells	657	1130	3/4" @ 780, 1/4" @ 1090
Anhydrite and salt streaks	1130	1458	1/8" @ 1290, 3/4" @ 1535
Anhydrite and salt	1458	1710	
Salt, anhydrite and gyp	1710	1900	1" @ 1800
Salt and anhydrite	1900	2383	1" @ 2050, 3/4" @ 2264
			Net 9-5/8" OD @ 2383 w/1075 size 66 gal. 100 size next. 115 size signalite. size. 75 size.
			Tested 9-5/8" OD @ 2383 w/1000' 30 min. no break before and after drilling plug.
Anhydrite and salt	2383	2545	
Anhydrite and sand	2545	2990	1/2" @ 2550
Sand and lime	2990	2695	
Lime	2695	2830	1-3/4" @ 2850
Lime and anhydrite	2830	2900	
Sandy lime	2900	3025	
Lime	3025	3160	1-1/4" @ 3200
Sand	3160	3314	1-1/4" @ 3435, 1-1/2" @ 3500, 1-1/2" @ 3610
Lime and sand	3314	3610	1-1/2" @ 3720
Lime	3610	3762	
Lime and sand	3762	3875	1-3/4" @ 3950
Lime and sand streaks	3875	3965	
Sandy lime	3965	4060	
Sand and lime	4060	4255	2-3/4" @ 4490, 2-1/2" @ 4575
Lime	4255	4700	2-3/4" @ 4740
Lime and shale	4700	4832	2-1/2" @ 4900
Lime	4832	5171	2-1/4" @ 5190
Lime and shale	5171	5201	
Lime and gyp	5201	5284	
Lime	5284	5318	
Lime and shale	5318	5363	
Lime	5363	5510	2-3/4" @ 5465
Drill Stem Test	5385	5510	Klinebry, 2 phrs., 1 hr., 5/8" BHC and 1" SC, No WC, gas 3 min., Ret. 3440-2240, Average 3140 MBF/24 hrs. Had 20 min., flow 20 bbls. Had 20 min., Rec. 10' drlg. mud, slightly cut w/oil, no water. MBF 1390-1100, 15 min. S-I BHP 2350, BH 2700-2670.
Lime	5510	5635	
Drill Stem Test	5510	5635	Klinebry, 2 phrs., 1 hr., 5/8" BHC and 1" SC, No WC, Gas 5 min., Ret. 229-197, Average 213 MBF/24 hrs. Rec. 450' gas cut drlg. mud, no oil or water, MBF 400-950, 15 min. S-I MBF 2900, BH 2800-2800.
Lime	5635	5680	
Shale and lime	5680	5745	
Lime	5745	5760	2-3/4" @ 5710

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From the morning of 10/10/50 to 10/11/50
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at 10:00 AM

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Drill Stem Test	5635	9760	Blindery, 2 piers., 1 hr., 5/8" BHC and 1" SC, No WC, Rec. 90' gas out drlg. mud and 60' oil and gas out drlg. mud, no water. SHFP 175-190 #, 15 min. S-I BHP 200#, NH 2740-2770#.
Lime	5760	5830	
Lime and shale	5830	5896	
Lime	5896	6065	1-3/4" @ 6029
Drill Stem Test	5940	6065	Tabbs, 2 piers., 1 hr. 5 min., 5/8" BHC and 1" SC, No WC, Gas 6 min. Est. 483 MBF/24 hrs., Mud 8 min. Flowed 4 blks. gas out drlg. mud* no water or oil, SHFP 710-540#, 15 min. S-I BHP 2525#, NH 2875-2795#.
Lime	6065	6190	*20 min., died. Rec. 60' gas out drlg. mud,
Drill Stem Test	6065	6190	Tabbs, 2 piers., 1 hr. 5/8" BHC and 1" SC, No WC, Gas 4 min., Est. 800-578 MBF, Average 690 MBF per 24 hrs., Mud 35 min., Flow 9 blks. drlg. mud, no oil or water gas out, 25 min. Rec. 450' gas out drlg. mud, 90' gas and slightly oil out drlg. mud, no water, SFP 17-32#, SHFP 450-350#, 15 min. S-I BHP 2100#, NH 2990-3010#.
Lime	6190	6240	
Drill Stem Test	6190	6240	Tabbs, 2 piers., 1 hr., 5/8" BHC and 1" SC, No WC, gas 5 min. Est. 179-111 MBF, Average 145/24 hrs. Rec. 150' gas out drlg. mud, no oil or water, SFP 2-1#, SHFP 290-250#, 15 min. S-I BHP 980#, NH 3030-3080#.
Lime	6240	6330	
Lime and shale	6330	6360	2-1/2" @ 6335
Lime	6360	6365	
Drill Stem Test	6303	6371	<u>Blm 6365 @ 6371</u> Brinkard, 2 piers., 1 hr. 5/8" BHC and 1" SC, No WC, gas 3 min., Est. 660-528 MBF average 596 MBF/24 hrs. Mud stain flow 5 blks. dark mud, gas out 55 min. Rec. 930' oil and gas out drlg. mud, SFP 37-54#, SHFP 490-470#, 15 min. S-I BHP 2540#, NH 3200-3130#.
Lane Wells ran Gamma Ray and Neutron Log	0	6367	<u>Set 4021' at 7" OD liner @ 2270-6370 w/brass 641 Tool hanger. cemented w/120 sec 64 min. 100 sec test. and 50 sec cleanline. 64 sec. and 50 sec. WOC 48 hrs.</u> Top of cement on top of hanger @ 2270. Test 7" liner w/1000# 30 min. no break. Top of cement 6241. Drilled out to shoe @ 6370. Test 7" liner w/1000# 30 min., no break. Drilled out to 6371. Test 7" liner w/1000# 30 min., no break.
6-1/8" Dia. Core	6371	6397	Rec. 18' Top 9' dense dolomite, bottom 9' finely crystalline tan dolomite w/porosity and stain.

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6-1/8" Dia. Core	6397	6455	Res. 98' Finely crystalline tan-gray dolomite w/ scattered pin point and inter-crystalline porosity, scattered bleeding oil.
6-1/8" Dia. Core	6455	6483	Res. 30' Finely crystalline tan-gray dolomite w/ scattered pin point inter-crystalline porosity and bleeding oil.
Drill Stem Test	6365	6483	Drinkard, 2 phrs., 1 hr. 30 min., 5/8" BHC and 1" SC, No WC, gas to surface 20 min. Max. 147.60 MCF, 65.50 MCF, Average 109.20 MCF/24 hrs. Fluid to surface 24 min., Flow 8.5 bbls. drlg. mud, flow 1 hr 6 min. Res. * 120' salt water, SFP 15-40%, BHFP 490-435%, 15 min. S-I BHP 1400%, NH 3120-3020%. *540' oil and gas cut drlg. mud, 40% mud,
Log Wells run Gamma Ray and Neutron Log	6200	6483	
PS w/12 sec cement	6485	6451	
Drill Stem Test	6365	6450	Drinkard, 2 phrs., 1 hr. 5/8" BHC and 1" SC, No WC, gas to surface 5 min., Est. 711 MCF, 383 MCF 24 hrs., Average 547 MCF 24 hrs. Mud to surface 35 min., Flow 3 bbls. oil and gas cut mud. Res. 540' oil and gas cut mud, 100' water, SFP 28-55%, BHFP 300-410%, 15 min. S-I BHP 1630, NH 3100-3000%.
			Run 2" tubing to 6331 w/Uniberson Hookwall packer @ 3600.
			Flowed 50 BFO 32/64" choke, 6 hrs. packer leaked.
			Gas vol. 1,041 MCF 24 hrs., S/O 1% HB, Grav. 41.6° @ 60°, GOR 41600/1.
			Pulled tubing and pkr.
			C/O w/bit to 6451.
			Set 2" tubing @ 6449 w/GSW Pkr. @ 6331.
			Flow 50.25 BFO 10 hrs., 2-3/4 BPH, 24/64" choke, S/O 1/2% drilling water, TP 0-990#, flow steady.
			Flow 63.7 B/O 24 hrs., 24/64" choke, GOR 14584/1, Gravity 41.8° @ 60°, S/O clean, TP 450-500#, 1.37 BPH.
			Pulled tubing and pkr.
			Wash 6445-6451, Circ. 6451 for 2 hrs.
			<u>Set 156' of 5" Prod. liner 6278-6451 w/Drum</u> <u>Oil Tool Joint. Cemented w/32 sec. pack</u> <u>Slugs 15 BPH</u> Centralizers @ 6364, 6398, 6436, 6475, 6406, 6040, 5971, 5906, 5770, 5703, 5637, 5571, 5507, 5130, 5076.
			Drill cement 6417-6446. Clean out to bottom
			Test 5" liner w/800# 30 min., no break before and after drlg. plug.
Log Wells run Gamma Ray and Neutron Log, Stopped @	6410		Drilled solid cement 6406-6430.

1980

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Figure 1

2000

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100-443887-1000

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

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1. All bars with 2000 - 2500 lbs. capacity, 1000 - 1500 lbs. capacity, 500 - 1000 lbs. capacity, 250 - 500 lbs. capacity, 100 - 250 lbs. capacity, 50 - 100 lbs. capacity, 25 - 50 lbs. capacity, 10 - 25 lbs. capacity, 5 - 10 lbs. capacity, 1 - 5 lbs. capacity, 1/2 - 1 lb. capacity, 1/4 - 1/2 lb. capacity, 1/8 - 1/4 lb. capacity, 1/16 - 1/8 lb. capacity, 1/32 - 1/16 lb. capacity, 1/64 - 1/32 lb. capacity, 1/128 - 1/64 lb. capacity, 1/256 - 1/128 lb. capacity, 1/512 - 1/256 lb. capacity, 1/1024 - 1/512 lb. capacity, 1/2048 - 1/1024 lb. capacity, 1/4096 - 1/2048 lb. capacity, 1/8192 - 1/4096 lb. capacity, 1/16384 - 1/8192 lb. capacity, 1/32768 - 1/16384 lb. capacity, 1/65536 - 1/32768 lb. capacity, 1/131072 - 1/65536 lb. capacity, 1/262144 - 1/131072 lb. capacity, 1/524288 - 1/262144 lb. capacity, 1/1048576 - 1/524288 lb. capacity, 1/2097152 - 1/1048576 lb. capacity, 1/4194304 - 1/2097152 lb. capacity, 1/8388608 - 1/4194304 lb. capacity, 1/16777216 - 1/8388608 lb. capacity, 1/33554432 - 1/16777216 lb. capacity, 1/67108864 - 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1/39614081257132168796771975168 lb. capacity, 1/158456325028528675187087900672 - 1/79228

1. Identify the subject, verb, and object of the sentence.

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• *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in all photosynthetic organisms. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is found in the thylakoid membranes of chloroplasts in plants and algae, and in the plasma membrane of cyanobacteria.

the 1990s, the number of people in the United States who are 65 years of age or older is projected to increase from 20 million to 30 million, and the number of people 75 years of age or older is projected to increase from 10 million to 15 million (U.S. Census Bureau, 1996). The number of people 85 years of age or older is projected to increase from 2 million to 4 million (U.S. Census Bureau, 1996). The number of people 90 years of age or older is projected to increase from 500,000 to 1 million (U.S. Census Bureau, 1996). The number of people 95 years of age or older is projected to increase from 100,000 to 200,000 (U.S. Census Bureau, 1996). The number of people 100 years of age or older is projected to increase from 10,000 to 20,000 (U.S. Census Bureau, 1996).

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• **Don't** use a **single** **word** to **describe** **the** **entire** **document**.

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[illegible]

THE UNIVERSITY OF CHICAGO

Protocol dated on 20/01/2010, 10:00:00

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• *Arctostaphylos* *uva-ursi* (Bearberry)

Western Perf. 7" liner	6418 6430	w/4 SPF (Jet) Ran 2" tubing w/GIN packer @ 6210 in 7" liner. Swab 5.5 BFO 7 hrs., 200' GIN not rec., S/O 1 1/2" BS, gas behind swab, 1-1/2 BPH.
Western Acidized perf.	6418 6430	w/250 gals. 20% Special Low Tension, TP 2900', CP 2400', 2-1/4 hrs., 2 BPH, CP 0-800' while loading. Flowed 28 BFO 3 hrs., 1/2" choke, TP 0-100', CP 0-150', died. Flowed 10 BFO 9 hrs., 2 1/4" choke, TP 100-100', CP 150-150', GOR 7879/1, Gravity 39.1° @ 60°, S/O 2/10 of 15 BS, No water, no oil last hour. Pulled tubing and packer. Set Baker "K" Magnesium Retainer @ 6400. Squeezed perf. 6418-6430 w/25 sac cement, 4000' reversed out 15 sac, WOC 24 hrs. Drilled out 6400-6451. Retainer & Cement Mud below liner Test perf. squeeze job w/1000' 30 min., no break before and after drlg. plug; test w/600' 30 min., no break. Circ. @ 6451 for 3 hrs.
McGullough tool perf.	6440 6451	w/4 SPF (Jet) Ran 2" tubing @ 6451 w/Oakbrook Rockwall Packer @ 6364, packer would not seat. Set 2" tubing @ 6450 w/7" OD Oakbrook Rockwall packer @ 6230. Test w/600' CP. Swab 20 BFO 5 hrs. Dry 8 hrs., no recovery, show of gas. Unsented pkw.
Western acidized perf.	6440 6451	w/250 gals. 20% Low Tension, TP 100-1900-1800-1550-1100', CP 400-2000-1900-1100', 30 min., 6 BPH. Swab 27.6 BFO 8 hrs., GOR 54/1, Gravity 37.4° @ 60°, S/O 15 BS, and 15 AW, 200' GIN, last hour 2-1/2 BPH, very little gas, CP 90-900'. Swab 11 BFO 4 hrs., 150' GIN, CP 900', 2 BPH 15 AW.
Western Reacidized perf.	6440 6451	w/500 gals. 20% Special LT, TP 200-1900', CP 900-2100-1850-900', 11 min., 1 BPH. Flowed 52.44 BFO 6 hrs., 2 1/4" choke, GOR 9009/1, S/O 3 1/2" BS, 15 AW, TP 2790-3795', CP 100-275'. Pulled tubing and packer D/O cement to 6465.
McGullough Tool Cose Shot	6451 6465	w/4 SPF (56 holes) Ran 2" tubing to 6465. Raised to 6451.
Potential Test:		Flowed 84.4 BFO 24 hrs., 2 1/4" choke, GOR 9194/1, Grav. 37.9° @ 60°, S/O 2/10 of 15 BS, no water, TP 900-900', CP 600-990', 24 hrs. cap. out. 84 BFO,
Total Depth Drilled	6485	
Total Depth Casing Set	6451	
Final Back Total Depth	6465	

