



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Drawer 6
Artesia, New Mexico 88210

March 20, 1978

RECEIVED

MAR 21 1978

Yates Petroleum Corporation
207 South Fourth Street
Artesia, New Mexico 88210

Gentlemen:

G. C. C.
ARTESIA, OFFICE

Your Notice of Intention to convert and operate as a salt water disposal well, the No. 1-Federal "HJ" in the NE1/4 sec. 31, T. 6 S., R. 26 E., N.M.P.M., Chaves County, New Mexico on oil and gas lease NM-2357, by injecting produced waters into the San Andres formation from approximately 963 feet to 1560 feet, is hereby approved subject to the following:

1. If off-lease waters are to be included in this disposal system, appropriate approval to operate this well as such must be secured from the Bureau of Land Management prior to disposing of any such waters.
2. Where applicable and required, right-of-way permits for pipelines from other leases must be secured from the Bureau of Land Management prior to laying of any such gathering lines.
3. The usual Sundry Notice (form 9-331 in quintuplicate) must be filed with this office prior to commencing any further workover, treatment, suspension of operation, or change of status of this well.
4. A monthly injection report, which includes injected water for that month, cumulative injected water, and average injected pressures, must be submitted to this office in duplicate.

Sincerely yours,

(Orig. Sgd.) JOE G. LARA

Joe G. Lara
Acting District Engineer

Attachment

cc: U.S.G.S. (Roswell)
N.M.O.C.C. (2)

[illegible]

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, 26

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...the ...

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that will be needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that have been identified in the plan and putting them into practice. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any areas for improvement.

of the (small) number of cases and the fact that the
 women who were interviewed were not representative of the
 population of women who had been sexually abused.

Y. K. Kozlov

JOE G. LARA (1982-2011)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of α -methylstyrene in the presence of SnCl_4 at 25°C .

[illegible]

NMOCC COMPTED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRICATE*
(Other instruct on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 2357

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER	MAR 21 1978	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Yates Petroleum Corporation ✓	O. C. C.	8. FARM OR LEASE NAME Federal "HJ"
3. ADDRESS OF OPERATOR 207 S. 4th Street, Artesia, New Mexico 88210	ARTESIA, OFFICE	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 330' FNL & 330' FEL Section 31-6S-26E		10. FIELD AND POOL, OR WILDCAT Linda (SA)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 31-6S-26E
		Unit A NMPM
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3668 (GR)	12. COUNTY OR PARISH Chaves
		13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐

(Other) Convert to SWD

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐(Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We request your approval to convert the subject well to salt water disposal. We have applied to the New Mexico State Oil Conservation Commission and received their approval for this conversion. A copy of their order No. R-5545 is attached.

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ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Production Superintendent

DATE 1/31/78

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

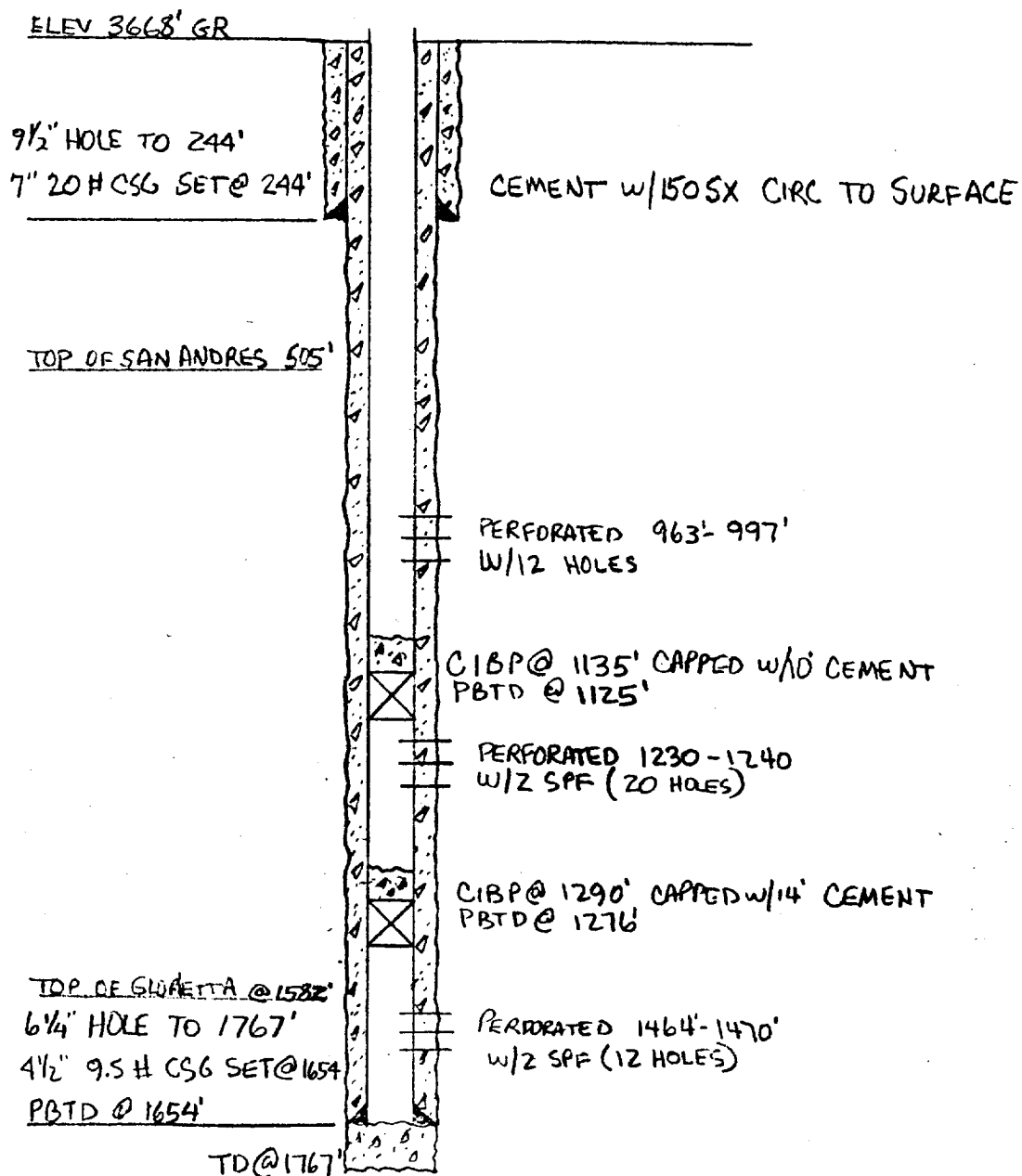
DIAGRAMMATIC SKETCH
OF
COMPLETION

YATES PETROLEUM CORP.
FEDERAL "HJ" No. 1
330' FNL 330' FEL
SECTION 31-6S-26E
CHAVES COUNTY, NEW MEXICO

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

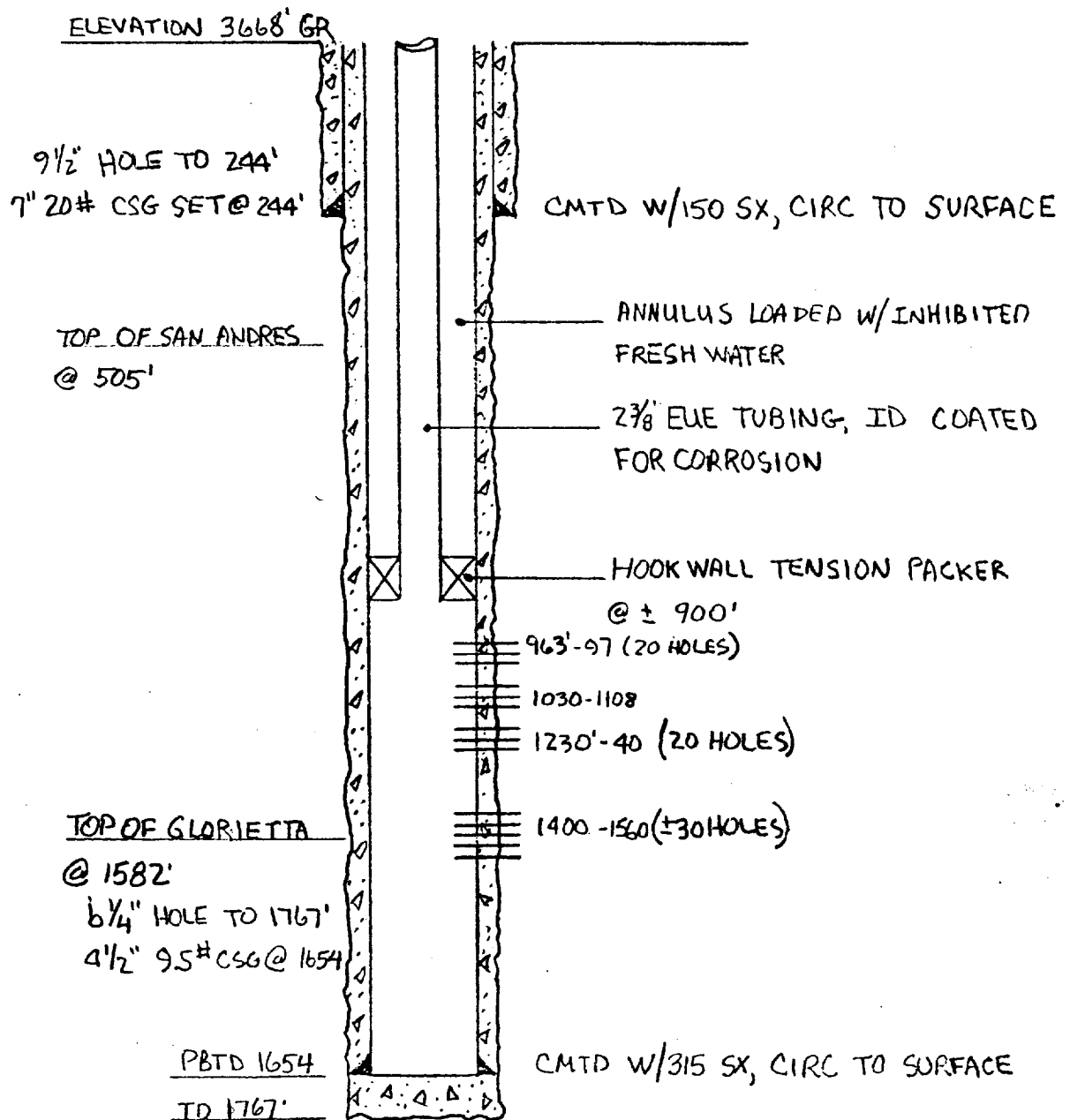


DIAGRAMMATIC SKETCH
OF
PROPOSED COMPLETION

YATES PETROLEUM CORP.
FEDERAL "HJ" No 1
330' FNL, 330' FWL
SECTION 31-6S-26E
CHAVES COUNTY, NEW MEXICO

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ARTESIA, NEW MEXICO



JMM 8/18/77

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ARTESIA, NEW MEXICO

Company Yates Pet. Corp. Date 8-29-77

Field Linda County Chaves State N.M.

Lease and Well No. Federal HJ #2 Prod. Formation

Source of Sample Well Head

Sample of Prod. Water ☒ Inj. Water ☐ Other ☐

Date Collected 8-29-77 Analyst J. Dudley

MG/L (PPM)

EPM

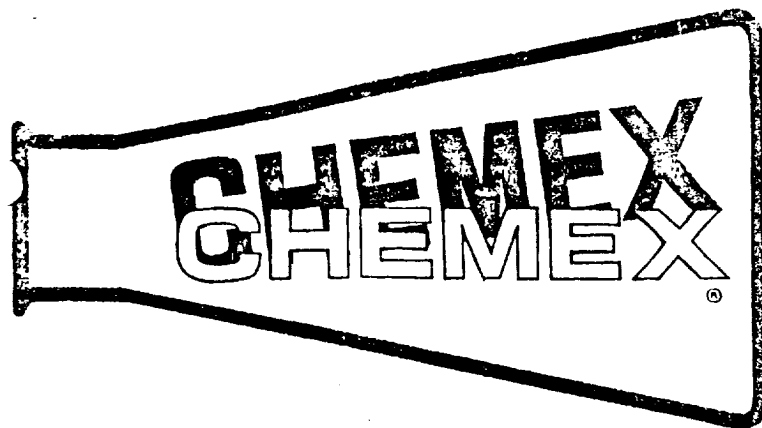
Calcium	5,760 MG/L
Magnesium	9,240 MG/L
Sodium	nil
Iron	nil
Chloride	138,000 MG/L
Bicarbonate	56 MG/L
Carbonate	nil
Sulfate	150 MG/L

ph 6.9
Sp. Gravity _____

Total Hardness 15,000 MG/L
Total Dissolved Solids 153,000 MG/L
Hydrogen Sulfide nil
Oxygen nil

Remarks:

Potassium ion concentration $K=4.480$ p.p.m.



P. O. Box 423
Artesia, N. M. 88210

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WATER ANALYSIS REPORT

Company Yates Pet. Corp. Date 6-24-77

Field Linda County Chaves State N.M.

Lease and Well No. Sorenson IB Prod. Formation _____

Source of Sample _____

Sample of Prod. Water ☒ Inj. Water ☐ Other ☐

Date Collected 6-23-77 Analyst J. Dudley

Dissolved Solids

Constituent MG/L (PPM)

EPM

Calcium 3,400 MG/L

Magnesium 10,200 MG/L

Sodium nil

Iron 4 MG/L

Chloride 129,000 MG/L

Bicarbonate 36 MG/L

Carbonate nil

Sulfate 1,250 MG/L

Total Hardness 13,600 MG/L

Total Dissolved Solids 142,750 MG/L

Hydrogen Sulfide 5+ MG/L

Oxygen nil

ph 5.9
Sp. Gravity _____

Remarks:

Potassium ion concentration K=17,946 MG/L

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Chaves County, New Mexico

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ARTESIA, NEW MEXICO

David 35% Great Western 7-1-82 15862 U.S. 23	M.N. Hohn 8-1-79 9582 U.S. 24	J.J. Travis 10-4-78 154128 U.S. 19	Holly, et al 8-1-77 2815 Yates Pet. 6-1-77 2357 Yates Pet. 6-1-80 25473 KGS 655	B.N. Carrick Molly, et al 8-1-77 2024 U.S. 20	Victor J. Rehner J.L. Reed J.H. Moore P. B. B. B. C. Lee Carter U.S. 21	6 Molly, et al 5-1-77 2024
G.M. Sacra 72 Nora W. Bishop 72 Geo Globe 11-1-79 10580 F.J. Bradshaw 7-1-82 15863 U.S. 26	C.W. Kilgore U.S. 25	Yates Pet. 6-1-77 2357 U.S. 30	Yates Pet. 6-1-80 25473 KGS 655 U.S. 29	Mervin Powell W.W. Hentch S.P. Johnson J.L. Reed Holly, et al 8-1-77 2024 U.S. 28	Yates Pet. 6-1-77 2357 U.S. 27	Yates Pet. 6-1-77 2357
Geo. Globe 11-1-79 10580 U.S. 35	Hanlad Oil 3-17-80 14283 324 U.S. 36	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-80 25473 KGS 655 U.S. 30	Yates Pet. 6-1-80 25473 KGS 655 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28	Yates Pet. 6-1-77 2357
G.M. Sacra, et al 18-11-79 25473 U.S. 2	C.A. Schellinger 10-1-86 26508 I.R. Deemar J.J. Grynberg 72 6-1-77 2349 C. Schellinger 11-5-86 U.S. 11	D.J. Sorenson 6-1-77 2359 G.F. Crandall, et al, M.L. Everett 6-1-77 2359 U.S. 12	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-80 25473 KGS 655 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28	Yates Pet. 6-1-77 2357
J.J. Grynberg 72 I.R. Deemar 6-1-77 2349 U.S. 11	C. Schellinger 11-5-86 U.S. 12	D.J. Sorenson 6-1-77 2359 U.S. 12	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-80 25473 KGS 655 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28	Yates Pet. 6-1-77 2357
J.J. Grynberg 72 I.R. Deemar 6-1-77 2349 U.S. 11	C. Schellinger 11-5-86 U.S. 12	D.J. Sorenson 6-1-77 2359 U.S. 12	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-80 25473 KGS 655 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28	Yates Pet. 6-1-77 2357

YATES PETROLEUM CORPORATION
Federal "HJ" No. 1
330' FNL & 330' FWL 31-6S-26E
Chaves County, New Mexico

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ARTESIA, NEW MEXICO

Doyle 35 1/2 Great Western 7-1-82 15982 U.S. 23	M.N. Hahn 6-1-79 9592 U.S. 24	J.J. Trone 10-24-79 U.S. 19	Holly, et al 8-1-77 2815 Yates Pet. 6-1-77 2357 Yates Pet. 6-1-80 25473 KGS 615 U.S. 20	B.N. Derrick Yates Pet. 6-1-77 2024 U.S. 21	6
G.M. Sacro 1/2 N.W. 1/4 Sec 26 Geo Globe 11-1-79 10588 F.J. Bradshaw 7-1-82 15983 U.S. 26	C.W. Kilgus U.S. 25	Yates Pet. 6-1-77 2357 U.S. 30	Yates Pet. 6-1-80 25473 KGS 615 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28	Yates Pet. 6-1-77 2357 U.S. 27
Geo Globe 11-1-79 10588 U.S. 35	Hand Oil 3-17-80 14283 324 U.S. 36	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-80 25473 KGS 615 U.S. 30	Yates Pet. 6-1-77 2357 U.S. 29	Yates Pet. 6-1-77 2357 U.S. 28
Yates Pet. 1-1-85 16242 122 U.S. 2	C.A. Schallinger 10-1-85 28304 U.S. 1	J.J. Sorenson 6-1-77 2359 U.S. 3	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-77 2357 U.S. 30	Yates Pet. 6-1-77 2357 U.S. 29
J.J. Grynberg 1/2 I.F. Deemer 6-1-77 2349 U.S. 11	C.Schallinger 11-5-84 U.S. 12	D.J. Sorenson 6-1-77 2359 U.S. 31	Yates Pet. 6-1-77 2357 U.S. 31	Yates Pet. 6-1-77 2357 U.S. 30	Yates Pet. 6-1-77 2357 U.S. 29
U.S. 11	U.S. 12	U.S. 31	U.S. 31	U.S. 30	U.S. 29