

100 - 30 - 039 - 07404
57 - 30 - 039 - 07405

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator MERIDIAN OIL CO. Location: Unit M Sec. 13 Twp. 28 Rng. 6

Name of Well/Wells or Pipeline Serviced San Juan 28 - 6 # 100 & # 57

Elevation _____ Completion Date 9/11/90 Total Depth 240 Land Type _____

Casing Strings, Sizes, Types & Depths 20 ft. 8" PVC Casing

If Casing Strings are cemented, show amounts & types used _____

If Cement or Bentonite Plugs have been placed, show depths & amounts used _____

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. water at 60 ft. got sample

Depths gas encountered: _____

Ground bed depth with type & amount of coke breeze used: _____

230 ft. with 3900 lbs. of Ashbury Petroleum Coke

Depths anodes placed: 190, 180 170, 160, 150, 140, 130, 120, 110, 100

Depths vent pipes placed: 240 ft. 1" PVC Vent Pipe

Vent pipe perforations: Perforated 180 ft.

Remarks: _____

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

28

Drilling Log (Attach Hereto) ☐Completion Date 9-11-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins Union Check
721-W	SJ 28-6 # 100			☐ Good ☐ Bad
	SJ-28-6 # 57			
Location:	Anode Size:	Anode Type:	Size Bit:	
M13-28-6	2" x 60"	ANOTEC	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
240'	230'		3900#	
Anode Depth				
# 1 190	# 2 180	# 3 170	# 4 160	# 5 150
# 6 140	# 7 130	# 8 120	# 9 110	# 10 100
Anode Output (Amps)				
# 1 3.2	# 2 3.8	# 3 4.8	# 4 5.4	# 5 5.9
# 6 5.4	# 7 5.2	# 8 5.8	# 9 5.2	# 10 5.1
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used
Volts 12.3	Amps 16.4	Ohms 175		

Remarks: DRILLER SAID WATER AT 60'. GOT SAMPLE. SET 20' OF 8" PVC COUPLER
WATER STANDING AT 40' NEXT A.M. - RAN 240' OF 1" PVC VENT PIPE. PERFORM
180' OF VENT PIPE - LEFT COKE APPROXIMATELY 75'

Rectifier Size: _____ V _____ A
 Addn'l Depth _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 80'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: _____

All Construction Completed

Willis Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH

✱ New location

✱ 28-6 # 100
OG.B. # 2
80'
Rect.
✱ 28-6 # 57

OG.B. # 1

N

CONSTRUCTION LOGGING READINGS

Meridian 011

CPS #: 721-W WELL NAME: SJ 28-6 #10057 LOCATION: M13-286 DATE: 9-11-90

TOTAL VOLTS: 12.3 TOTAL AMPS: 16.4 OHMS RESISTANCE: .75

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO	WITH
	ANODE	NO.		ANODE	NO.		ANODE	NO.		ANODE	NO.			COKE	COKE
5			185	1.2		365			545			1	190	1.2	3.2
10			190	1.2	1	370			550			2	180	1.5	3.8
15			195	.90		375			555			3	170	1.9	4.8
20			200	.70		380			560			4	160	2.1	5.4
25			205	.60		385			565			5	150	2.2	5.9
30			210	.60		390			570			6	140	2.2	5.4
35			215	.70		395			575			7	130	2.1	5.2
40			220	1.3		400			580			8	120	2.4	5.8
45			225	1.3		405			585			9	110	1.9	5.2
50			230	1.2	TD	410			590			10	100	2.2	5.1
55			235			415			595						
60	.70		240			420			600						
65	.80		245			425			605						
70	.40		250			430			610						
75	.40		255			435			615						
80	.80		260			440			620						
85	.40		265			445			625						
90	.40		270			450			630						
95	.40		275			455			635						
100	1.9	10	280			460			640						
105	2.1		285			465			645						
110	1.8	9	290			470			650						
115	1.5		295			475			655						
120	2.2	8	300			480			660						
125	2.1		305			485			665						
130	1.8	7	310			490			670						
135	1.6		315			495			675						
140	2.0	6	320			500			680						
145	2.3		325			505			685						
150	1.9	5	330			510			690						
155	2.3		335			515			695						
160	1.8	4	340			520			700						
165	1.9		345			525			705						
170	1.8	3	350			530			710						
175	1.0		355			535			715						
180	1.3	2	360			540			720						

REMARKS: SET 20' OF 8" PVC CASING. DRILLER SAID WATER AT 60' WATER STANDING AT 40' NEXT A.M. GOT WATER Sample.

Laboratory No.

DISSOLVED SOLIDS

CATIONS

mg/l

me/l

Sodium, Na (calc.)

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3-18

Calcium, Ca

63

2.13

Magnesium, Mg

16

1.32

Barium, Ba

Abstract

1999

OTHER PROPERTIES

pH

Specific Gravity, 60/60 F.

Resistivity (ohm-meters) 66.2 F.

Total Dissolved Solids (calc.)

ANIONS

Chloride, Cl

28

0.20

Sulfate, SO_4

14

3.08

Carbonate, CO_3

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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, 26

Bicarbonate, HCO_3^-

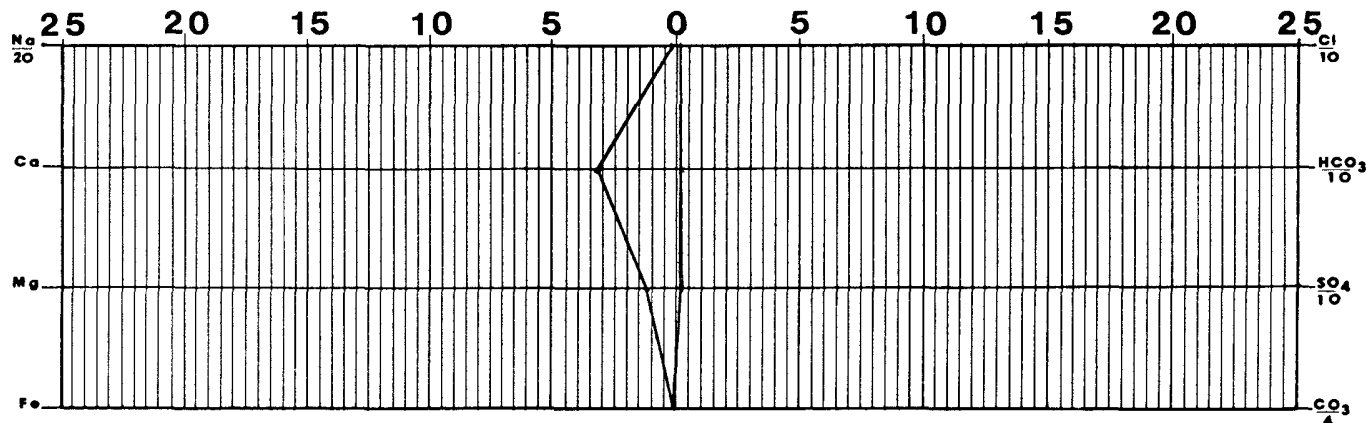
229

3.75

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received 17th Sept., 1990.	Preserved	Date Analyzed 18th Sept., 1990.	Analyzed By R.H.
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