

107-30-039-60093

174-30-039-06952

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator Union Oil Company of California Location: Unit Sec. 19 Twp 27N Rng 6WName of Well/Wells or Pipeline Serviced Rincon Unit #107 MV, Rincon Unit #174 DKElevation 6592' Completion Date 7/9/1970 Total Depth 610' Land Type* FCasing, Sizes, Types & Depths NoneIf Casing is cemented, show amounts & types used None

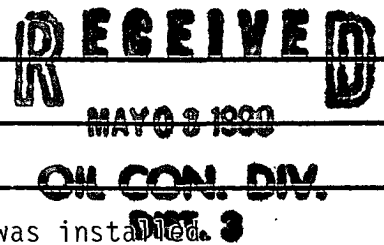
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 340' deep Thickness ?

Depths gas encountered: NAType & amount of coke breeze used: 8100 lbs Kind knownDepths anodes placed: 410' - 575'Depths vent pipes placed: ?Vent pipe perforations: 400'Remarks: El Paso Natural Gas was operator when this ground bed was installed.Second ground bed installed at this location.

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

Drilling Log (Attach Hereto). ☐

#2 GND BED
Contractor CPS.

Completion Date 7-9-70

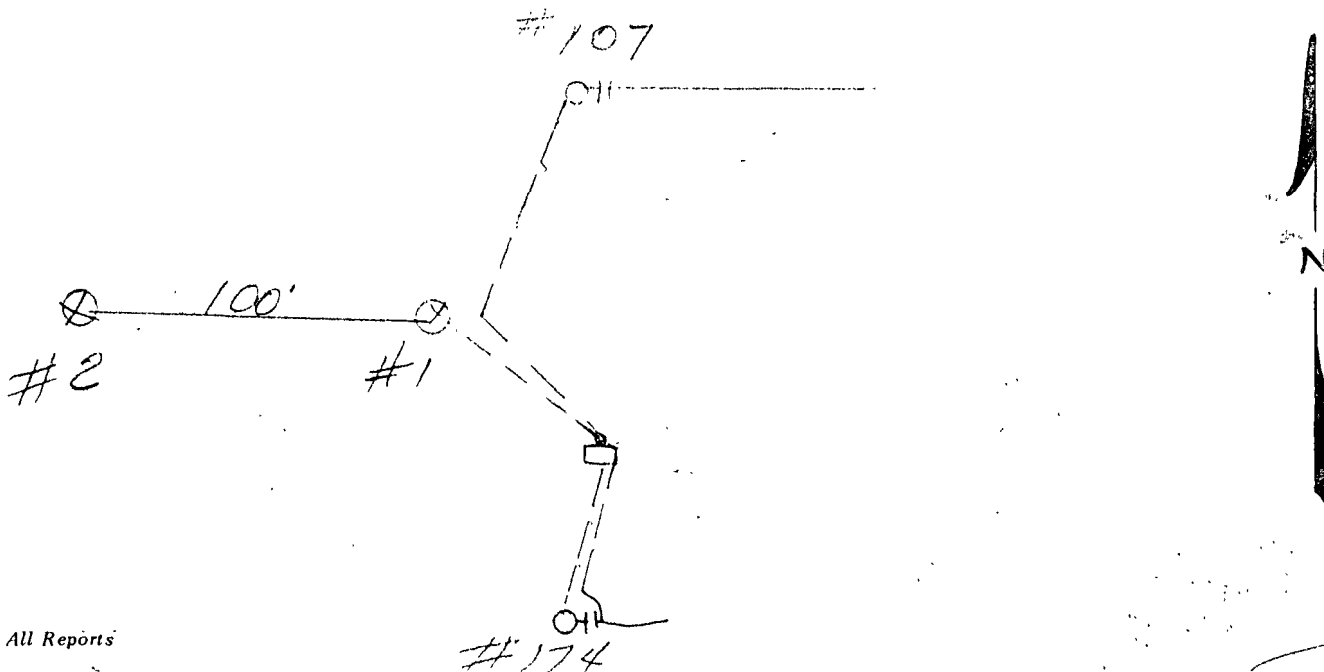
Well Name Rincon #174		Location SW 19-27-6		CPS No. 689W	
Type & Size Bit Used 6 3/4		Work Order No. 184-33447-50-20			
Anode Hole Depth 610	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 575	#2 525	#3 515	#4 490	#5 480	#6 470
#7 460	#8 450	#9 440	#10 430		
Anode Output (Amps)					
#1 1.38	#2 3.7	#3 3.7	#4 1.32	#5 4.0	#6 4.0
#7 2.5	#8 2.5	#9 3.7	#10 3.7		
Anode Depth					
#11 420	#12 410	#13	#14	#15	#16
#17	#18	#19	#20		
Anode Output (Amps)					
#11 3.8	#12 3.8	#13	#14	#15	#16
#17	#18	#19	#20		
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts 12.5	Amps 10.8	Ohms 1.15			

Remarks: Wet at 340 Drill with air to 360
Pump 55 Bags Coke Slurry 26 Bags 81 Total
1" Hose perforated approx 400' to No 1 Anode
Anodes 1 & 4 are Single - others Dual

All Construction Completed

Farrils
(Signature)

GROUND BED LAYOUT SKETCH



689W Drill To 610

Drill 360 with air used at 340

Pump
55 Bags

12.5 V

10.8 A

MW	gas/mol
16	6.4
20	8.0
44	10.4
58	12.8
72	15.2
86	17.6
100	20.0
114	22.4
128	24.8
142	27.2
156	29.6
170	32.0
184	34.4
198	36.8
212	39.2
226	41.6
240	44.0
254	46.4
268	48.8
282	51.2
296	53.6
310	56.0
324	58.4
338	60.8
352	63.2
366	65.6
380	68.0
394	70.4
408	72.8
422	75.2
436	77.6
450	80.0
464	82.4
478	84.8
492	87.2
506	89.6
520	92.0
534	94.4
548	96.8
562	99.2
576	101.6
590	104.0
604	106.4
618	108.8
632	111.2
646	113.6
660	116.0
674	118.4
688	120.8
702	123.2
716	125.6
730	128.0
744	130.4
758	132.8
772	135.2
786	137.6
800	140.0
814	142.4
828	144.8
842	147.2
856	149.6
870	152.0
884	154.4
898	156.8
912	159.2
926	161.6
940	164.0
954	166.4
968	168.8
982	171.2
996	173.6
1010	176.0
1024	178.4
1038	180.8
1052	183.2
1066	185.6
1080	188.0
1094	190.4
1108	192.8
1122	195.2
1136	197.6
1150	200.0
1164	202.4
1178	204.8
1192	207.2
1206	209.6
1220	212.0
1234	214.4
1248	216.8
1262	219.2
1276	221.6
1290	224.0
1304	226.4
1318	228.8
1332	231.2
1346	233.6
1360	236.0
1374	238.4
1388	240.8
1402	243.2
1416	245.6
1430	248.0
1444	250.4
1458	252.8
1472	255.2
1486	257.6
1500	260.0
1514	262.4
1528	264.8
1542	267.2
1556	269.6
1570	272.0
1584	274.4
1598	276.8
1612	279.2
1626	281.6
1640	284.0
1654	286.4
1668	288.8
1682	291.2
1696	293.6
1710	296.0
1724	298.4
1738	300.8
1752	303.2
1766	305.6
1780	308.0
1794	310.4
1808	312.8
1822	315.2
1836	317.6
1850	320.0
1864	322.4
1878	324.8
1892	327.2
1906	329.6
1920	332.0
1934	334.4
1948	336.8
1962	339.2
1976	341.6
1990	344.0
2004	346.4
2018	348.8
2032	351.2
2046	353.6
2060	356.0
2074	358.4
2088	360.8
2102	363.2
2116	365.6
2130	368.0
2144	370.4
2158	372.8
2172	375.2
2186	377.6
2200	380.0
2214	382.4
2228	384.8
2242	387.2
2256	389.6
2270	392.0
2284	394.4
2298	396.8
2312	399.2
2326	401.6
2340	404.0
2354	406.4
2368	408.8
2382	411.2
2396	413.6
2410	416.0
2424	418.4
2438	420.8
2452	423.2
2466	425.6
2480	428.0
2494	430.4
2508	432.8
2522	435.2
2536	437.6
2550	440.0
2564	442.4
2578	444.8
2592	447.2
2606	449.6
2620	452.0
2634	454.4
2648	456.8
2662	459.2
2676	461.6
2690	464.0
2704	466.4
2718	468.8
2732	471.2
2746	473.6
2760	476.0
2774	478.4
2788	480.8
2802	483.2
2816	485.6
2830	488.0
2844	490.4
2858	492.8
2872	495.2
2886	497.6
2900	500.0
2914	502.4
2928	504.8
2942	507.2
2956	509.6
2970	512.0
2984	514.4
2998	516.8
3012	519.2
3026	521.6
3040	524.0
3054	526.4
3068	528.8
3082	531.2
3096	533.6
3110	536.0
3124	538.4
3138	540.8
3152	543.2
3166	545.6
3180	548.0
3194	550.4
3208	552.8
3222	555.2
3236	557.6
3250	560.0
3264	562.4
3278	564.8
3292	567.2
3306	569.6
3320	572.0
3334	574.4
3348	576.8
3362	579.2
3376	581.6
3390	584.0
3404	586.4
3418	588.8
3432	591.2
3446	593.6
3460	596.0
3474	598.4
3488	600.8
3502	603.2
3516	605.6
3530	608.0
3544	610.4
3558	612.8
3572	615.2
3586	617.6
3600	620.0
3614	622.4
3628	624.8
3642	627.2
3656	629.6
3670	632.0
3684	634.4
3698	636.8
3712	639.2
3726	641.6
3740	644.0
3754	646.4
3768	648.8
3782	651.2
3796	653.6
3810	656.0
3824	658.4
3838	660.8
3852	663.2
3866	665.6
3880	668.0
3894	670.4
3908	672.8
3922	675.2
3936	677.6
3950	680.0
3964	682.4
3978	684.8
3992	687.2
4006	689.6
4020	692.0
4034	694.4
4048	696.8
4062	699.2
4076	701.6
4090	704.0
4104	706.4
4118	708.8
4132	711.2
4146	713.6
4160	716.0
4174	718.4
4188	720.8
4202	723.2
4216	725.6
4230	728.0
4244	730.4
4258	732.8
4272	735.2
4286	737.6
4300	740.0
4314	742.4
4328	744.8
4342	747.2
4356	749.6
4370	752.0
4384	754.4
4398	756.8
4412	759.2
4426	761.6
4440	764.0
4454	766.4
4468	768.8
4482	771.2
4496	773.6
4510	776.0
4524	778.4
4538	780.8
4552	783.2
4566	785.6
4580	788.0
4594	790.4
4608	792.8
4622	795.2
4636	797.6
4650	800.0
4664	802.4
4678	804.8
4692	807.2
4706	809.6
4720	812.0
4734	814.4
4748	816.8
4762	819.2
4776	821.6
4790	824.0
4804	826.4
4818	828.8
4832	831.2
4846	833.6
4860	836.0
4874	838.4
4888	840.8
4902	843.2
4916	845.6
4930	848.0
4944	850.4
4958	852.8
4972	855.2
4986	857.6
5000	860.0
5014	862.4
5028	864.8
5042	867.2
5056	869.6
5070	872.0
5084	874.4
5098	876.8
5112	879.2
5126	881.6
5140	884.0
5154	886.4
5168	888.8
5182	891.2
5196	893.6
5210	896.0
5224	898.4
5238	900.8
5252	903.2
5266	905.6
5280	908.0
5294	910.4
5308	912.8
5322	915.2
5336	917.6
5350	920.0
5364	922.4
5378	924.8
5392	927.2
5406	929.6
5420	932.0
5434	934.4
5448	936.8
5462	939.2
5476	941.6
5490	944.0
5504	946.4
5518	948.8
5532	951.2
5546	953.6
5560	956.0
5574	958.4
5588	960.8
5602	963.2
5616	965.6
5630	968.0
5644	970.4
5658	972.8
5672	975.2
5686	977.6
5700	980.0
5714	982.4
5728	984.8
5742	987.2
5756	989.6
5770	992.0
5784	994.4
5798	996.8
5812	999.2
5826	1001.6
5840	1004.0
5854	1006.4
5868	1008.8
5882	1011.2
5896	1013.6
5910	1016.0
5924	1018.4
5938	1020.8
5952	1023.2
5966	1025.6
5980	1028.0
5994	1030.4
6008	1032.8
6022	1035.2
6036	1037.6
6050	1040.0
6064	1042.4
6078	1044.8
6092	1047.2
6106	1049.6
6120	1052.0
6134	1054.4
6148	1056.8
6162	1059.2
6176	1061.6
6190	1064.0
6204	1066.4
6218	1068.8
6232	1071.2
6246	1073.6
6260	1076.0
6274	1078.4
6288	1080.8
6302	1083.2
6316	1085.6
6330	1088.0
6344	1090.4
6358	1092.8
6372	1095.2
6386	1097.6
6400	1100.0
6414	1102.4
6428	1104.8
6442	1107.2
6456	1109.6
6470	1112.0
6484	1114.4
6498	1116.8
6512	1119.2
6526	1121.6
6540	1124.0
6554	1126.4
6568	1128.8
6582	1131.2
6596	1133.6
6610	1136.0
6624	1138.4
6638	1140.8
6652	1143.2
6666	1145.6
6680	1148.0
6694	1150.4
6708	1152.8
6722	1155.2
6736	1157.6
6750	1160.0
6764	1162.4
6778	1164.8

WELL TYPE GROUNDBED DATA

DATA SHEET NO. 1

COMPANY EL PASO NATL GAS Co. JOB NO. 5664 DATE: 7-9-70
 WELL: RINCON # 107 & 174 PIPELINE: CPS # 689-W
 LOCATION: SEC. 19 TWP. 27 RGE. 6 CO. RIO ARRIAR STATE NEW MEXICO
 ELEV. 6526 FT. ROTARY 610 FT. CABLE TOOL ✓ FT. CASING ✓ FT.
 GROUNDBED: DEPTH 610 FT. DIA. 6 3/4 IN. GAB 8500 LBS. ANODES 12-CDD-051

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
5	SURFACE SOIL (0'-5')							
10	SANDSTONE (5'-32')							
20								
30								
40	SANDSTONE (32'-71')							
50								
60								
70								
80	SANDSTONE (71'-108')							
90								
100								
110	SHALE (108'-132')							
120								
130								
140	SANDSTONE (132'-165')							
150								
160								
170	SANDY SHALE (165'-172')							
180	SANDSTONE & SHALE							
190	STRINGERS (172'-394')							
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								
310								
320								
330								
340								
350								
360								
370								
380								
390								
400								
410								
420								
430								
440								
450								
460								
470								
480								
490								
500								
510								
520								
530								
540								
550								
560								
570								
580								
590								
600								
610								

GROUNDBED RESISTANCE: (1) VOLTS _____ - AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS



cathodic protection service

WELL TYPE GROUNDBED DATA

DATA SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC. _____ TWP. _____ RGE. _____ CO _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAB _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
20								
30								
40								
50								
60								
70								
80								
90								
300						.65		
10						.67		
20						.67		
30						.38		
40						.36		
50						.60		
60						.52		
70						.68		
80						.88		
90						.66		
30						.64		
40	(Light wire R.)					.66		
50						.26		
60						.68		
70						.69		
80						.23		
90						.23		
30						.71		
40						.72		
50						.82		
400	SHALE & SILTY SAND (394-612)					1.13		
10						1.02		
20						1.55 ✓		410 12
30						1.65		
40						1.23 ✓		420 11
50						1.64		
60						2.00 ✓		430 10

GROUNDBED RESISTANCE: (1) VOLTS _____ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS



cathodic protection service

DATA SHEET NO. _____

GROUND BED: DEPTH _____ FT. DIA. _____ IN. GAB _____ LBS. ANODES _____

