

1288

3E- 30-045-23881
8 - 30-045-20842
14 - 30-045-21453

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

Operator MERIDIAN OIL Location: Unit NE Sec. 18 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced HUBBELL #3E, #8, #14
cps 156lw

Elevation 5604' Completion Date 9/8/81 Total Depth 400' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/o

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 120' - 140' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 380', 355', 340', 320', 280', 265', 245', 220', 195', 180'

Depths vent pipes placed: 400'

Vent pipe perforations: 300'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

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) ☐

Completion Date 9-8-81

Well Name HUBBELL #8		Location NE 18-29-10		CPS No. 1561 W	
Type & Size Bit Used HUBBELL #14		Work Order No. 57813-21-50-2		54936-19 ✓ ✓	
Anode Hole Depth 400'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used 55729-21-✓ ✓	
Anode Depth	# 1	# 2	# 3	# 4	# 5
	380	355	340	320	280
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5
	4.58	4.23	5.55	5.63	3.70
Anode Depth	# 6	# 7	# 8	# 9	# 10
	265	245	220	195	180
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
	3.88	3.81	3.95	5.52	5.49
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts		Amps		Ohms
	11.7		23.0		.50
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

Remarks: WET 120-140' 15 MIN BLOW SAMPLE
STATIC ON HUBBELL "E" # 3 = .83 W
100' 1" PLAIN VENT PIPE BALANCE PERFORATED

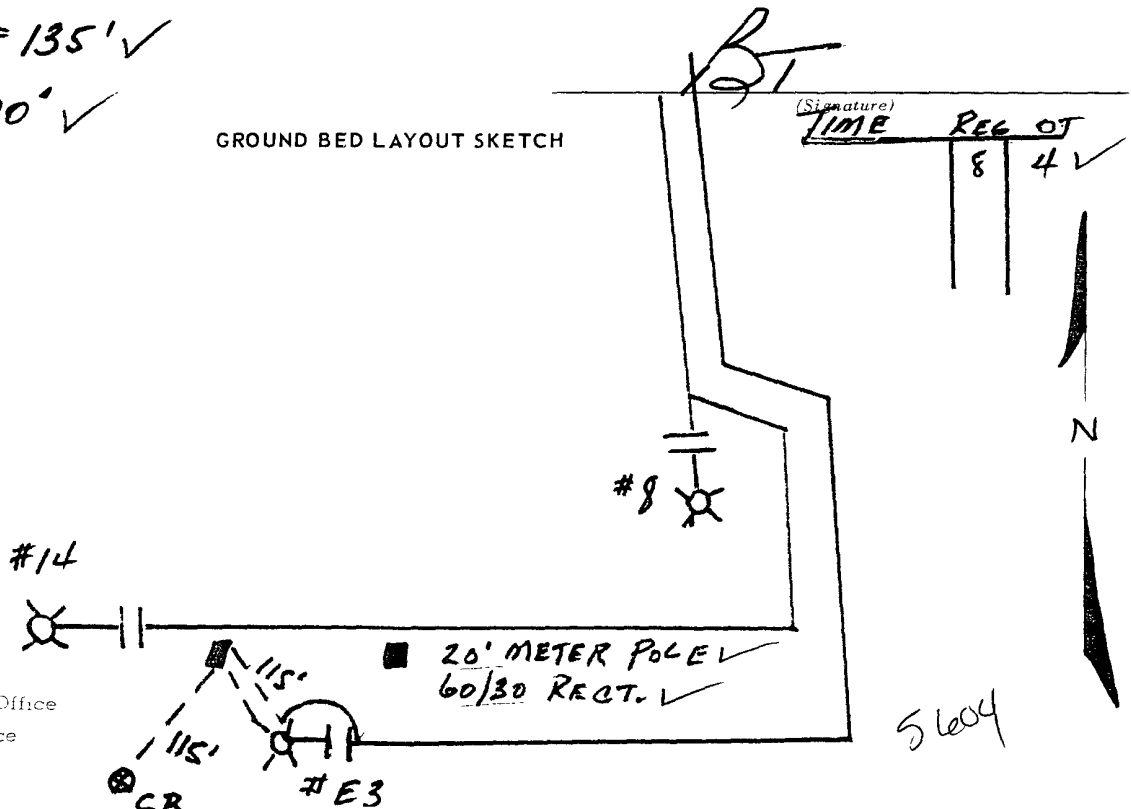
DITCH #1 CABLE = 230' ✓
XTRA CABLE = 135' ✓
HOLE = -100' ✓

All Construction Completed

GROUND BED LAYOUT SKETCH

DISTRIBUTION

WHITE - Division Corrosion Office
 YELLOW - Area Corrosion Office
 PINK - Originator File



HUBBELL E #3 1561 W
 ✓ #8
 ✓ #14

57813-21-50-2
 54936-19-50-2
 55729-21-50-2

WET 120' - 140' 15 MIN BLOW SAMPLE
 100' PLAIN VENT PIPE BALANCE PERFORATED

DRILLED 400' LOG 400'

MW	gals/mol
16 04	C ₁ 6.4
30 07	C ₂ 10.12
44 10	C ₃ 10.42
58 12	iC ₄ 12.38
58.12	nC ₄ 11.93
72 15	iC ₅ 13.85
72 15	nC ₅ 13.71
86 18	iC ₆ 15.50
86 18	C ₆ 15.57
100 21	iC ₇ 17.2
100 21	C ₇ 17.46
114 23	C ₈ 19.39
28 05	C ₂ 9.64
42 08	C ₃ 9.67

MW	MISC	gals/mol
32 00	O ₂	3.37
28 01	CO	4.19
44 01	CO ₂	6.38
64 06	SO ₂	5.50
34 08	H ₂ S	5.17
28 01	N ₂	4.16
2 02	H ₂	3.38

40	1.30								
45	1.72								
50	1.87		30	1.02	5	1.32		20	1.85
55	1.87		35	.84	10	1.61		25	1.80
60	1.81		40	.84	15	1.76	4	30	1.96
65	1.79		45	1.36	20	1.85		35	1.93
70	1.64		50	1.34	25	1.90		40	1.84
75	1.68		55	1.16	30	1.97			
80	1.80	- 10	60	.95	35	2.08			
85	1.78		65	1.36	40	2.00	3		
90	1.77		70	1.35	45	2.05			
95	1.73	- 9	75	1.35	50	1.91			
200	1.57		80	1.25	55	1.75	2		
5	1.30		85	1.12	60	1.64			
10	1.32		90	.58	65	1.55			
15	1.30	- 8	95	1.07	70	1.57			
20	1.43		300	1.25	75	1.85			
25	1.13								

1	380'	3.60	4.58
2	355'	3.16	4.23
3	340'	4.30	5.55
4	320'	4.15	5.63
5	280'	2.32	3.70
6	265'	2.50	3.88
7	245'	2.58	3.81
8	220'	2.77	3.95
9	195'	3.90	5.52
10	180'	4.20	5.49

11.7 Volts
 230 Amps
 .50 Ω

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10327 Date 9-21-81

Operator El Paso Natural Gas Well Name Hubbel E #3 CPS 1561 W

Location NE 18-29-10 County San Juan State New Mexico

Field Cedar Hill Formation

Sampled From 120 - 140'

Date Sampled 9-8-81 By B.T.

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	<u>1,212</u>	<u>52.7</u>	Chloride	<u>36</u>	<u>1.0</u>

	ppm	epm		ppm	epm
Calcium	<u>448</u>	<u>22.4</u>	Bicarbonate	<u>117</u>	<u>1.9</u>

	ppm	epm		ppm	epm
Magnesium	<u>27</u>	<u>2.2</u>	Sulfate	<u>3,575</u>	<u>74.4</u>

	ppm	epm		ppm	epm
Iron	<u></u>	<u></u>	Carbonate	<u>0</u>	<u>0</u>

	ppm	epm		ppm	epm
H ₂ S	<u></u>	<u></u>	Hydroxide	<u>0</u>	<u>0</u>

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

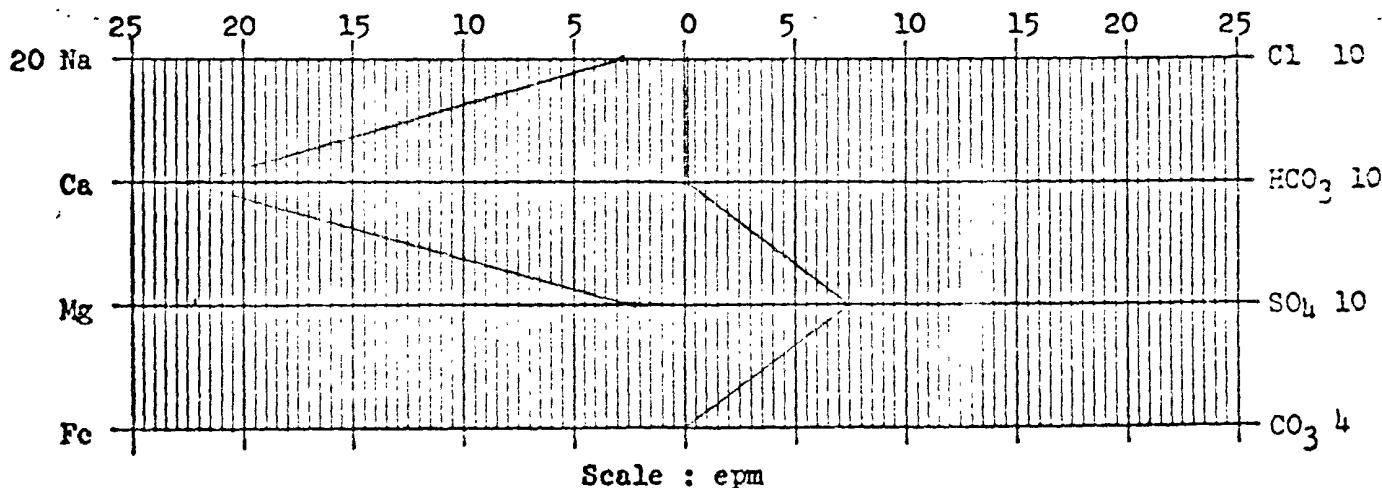
Total Solids Dissolved 5,244

pH 7.6

Sp. Gr. 1.0415 At 60°F

Resistivity 169 ohm-cm at 75 °F

Joe P. Barnett & Dennis P. Bird
Chemist



DAILY DRILLING REPORT

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE 4.1.67 1967

MORNING

DAYLIGHT

EVENING

Driller

Total Men In Crew

Drillèr

17 Total Men In Crew

Driller

Total Men In Crew

[illegible]

	NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____
BIT NO.	NO. DC _____ SIZE _____ LENG. _____	BIT NO.	NO. DC _____ SIZE _____ LENG. _____	BIT NO.	NO. DC _____ SIZE _____ LENG. _____
STAND NO.	STANDS	SERIAL NO.	STANDS	SERIAL NO.	STANDS
SIZE	SINGLES	SIZE	SINGLES	SIZE	SINGLES
TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY
MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH

[illegible]

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	100	sand	370	400	sand			
100	140	sand						
140	200	shale						
200	220	sand						
220	300	shale						
300	370	shale						

REMARKS -	REMARKS -	REMARKS -
Water 140		
Dilled 400 TD 400		

SIGNED: Toolpusher

____ Company Supervisor