

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 1561w

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. 57813-21-50-20		No. Sacks Mud Used 54936-19 ✓ ✓	
Anode Hole Depth 400'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Material 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: NET 120-140' 15 MIN BLOW SAMPLE
STATIC ON HUBBELL "E" # 3 = .83' W
100' 1" PLAIN VENT PIPE BALANCE PERFORATED

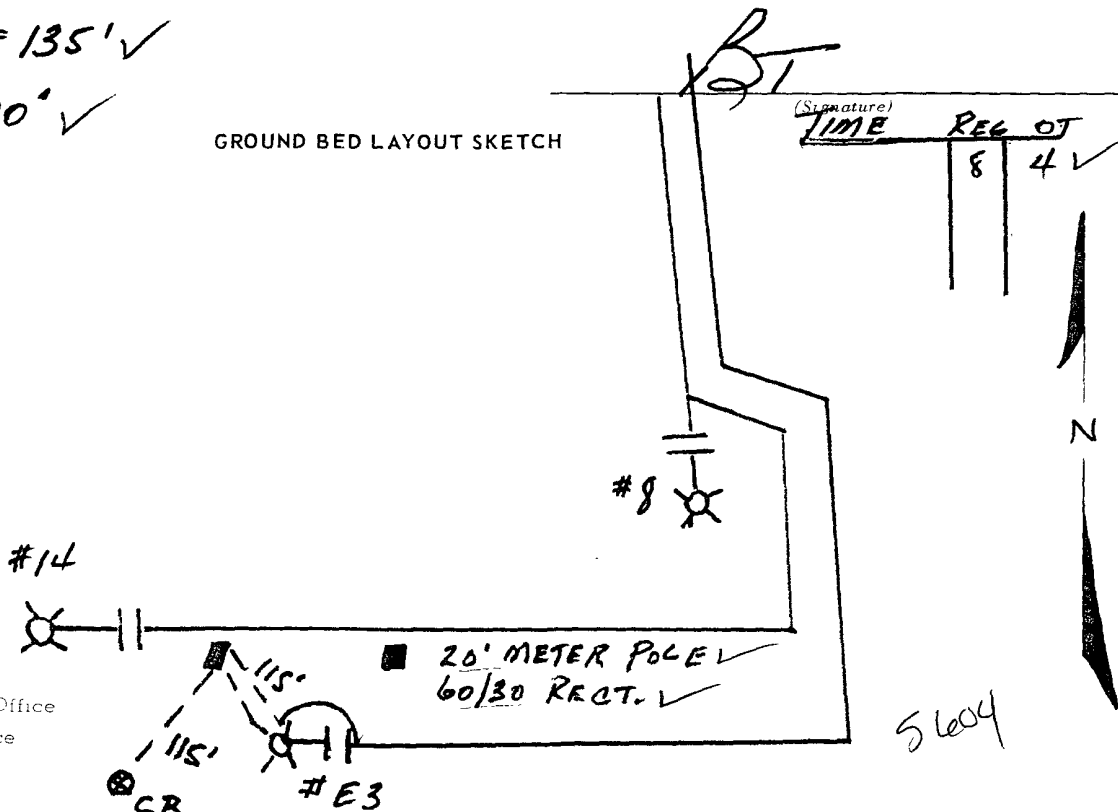
DITCH #1 CABLE = 230' ✓
 XTRA CABLE = 135' ✓
 HOLE = -100' ✓

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

NE 18-29-10

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

MW	gals/mol
16 04	C1 6.4
30 07	C2 10.12
44 10	C3 10.42
58 12	iC4 12.38
58.12	nC4 11.93
72 15	iC5 13.85
72 15	nC5 13.71
86 18	iC6 15.50
86 18	C6 15.57
100 21	iC7 17.2
100 21	C7 17.46
114 23	C8 19.39
28 05	C2 9.64
42 08	C3 9.67

DRILLED 400' LOG 400'

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								

MW	MISC	gals/mol
32 00	O2	3.37
28 01	CO	4.19
44 01	CO2	6.38
64 06	SO2	5.50
34 08	H2S	5.17
28 01	N2	4.16
2 02	H2	3.38

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>

Calcium	<u>448</u>	<u>22.4</u>	Bicarbonate	<u>117</u>	<u>1.9</u>
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Magnesium	<u>27</u>	<u>2.2</u>	Sulfate	<u>3,575</u>	<u>74.4</u>
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Iron	_____	_____	Carbonate	<u>0</u>	<u>0</u>
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H ₂ S	_____	_____	Hydroxide	<u>0</u>	<u>0</u>
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cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

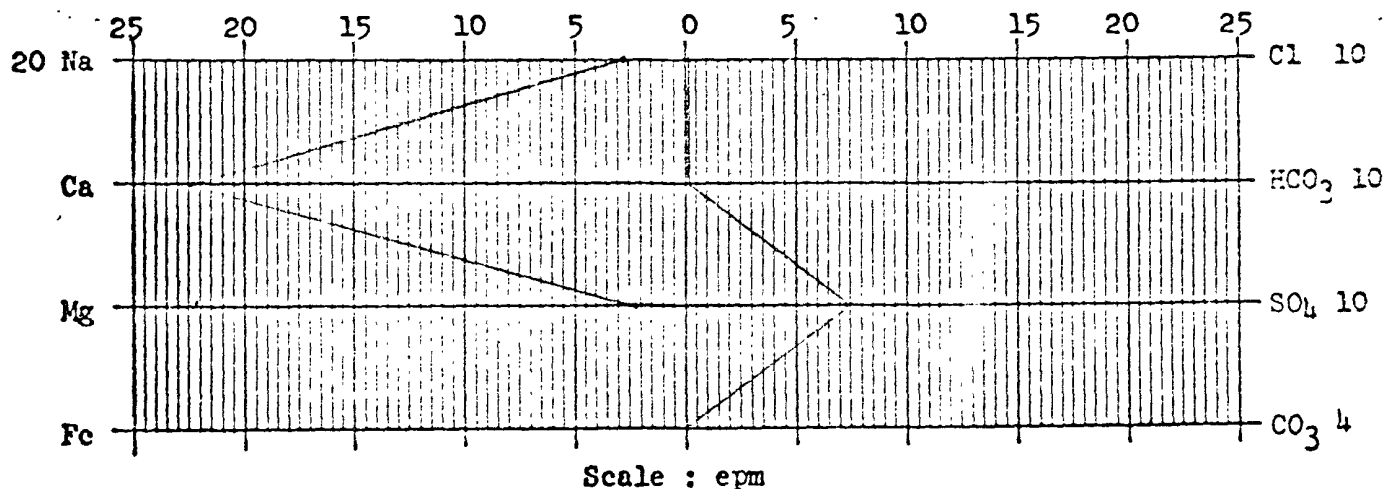
Total Solids Dissolved 5,244

pH 7.6

Sp. Gr. 1.0415 At 60°F

Resistivity 169 ohm-cm at 75 °F

Joe P. Barnett & Dennis P. Bird
Chemist



Hubbell E #3
#8
#14
CPS 156114
LEASE WELL NO. CONTRACTOR *Henry Drilling* RIG NO. REPORT NO. DATE *Sept 198*

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

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

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

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		
Drilled 400 TD 400		

SIGNED: Toolpusher

Henry Henry

Company Supervisor