

103

30-045-12003

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Location: Unit M Sec. 26 Twp 29 Rng 11

Name of Well/Wells or Pipeline Serviced _____

CALVIN #1 6040WElevation _____ Completion Date 11/3/91 Total Depth 440' Land Type FCasing Strings, Sizes, Types & Depths Drilled 90' AND SET 8" PVCCASINGIf Casing Strings are cemented, show amounts & types used CementedWITH 28 SACKS

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

NONEDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FRESH WATER AT 110'Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: Drilled To440'. Used 32 SACKS OF LOVESCO, AND 70 SACKS OF ASBURYDepths anodes placed: 420, 410, 400, 375, 365, 355, 335, 325, 315, 230, 220, + 210'Depths vent pipes placed: SURFACE TO 440'Vent pipe perforations: BOTTOM 320' PERFORATED

Remarks: _____

RECEIVED

FEB 24 1992

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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(S), NUMBER(S)											
6040W	CALVIN #1											
* 2194A	TOTAL	VOLTS	AMPS	- OHMS	DATE	NAME						
		118	27.9	.42	11/3/91	JOHN L. MOSS						
REMARKS (notes for construction log)												
Drilled TO H40. Installed 440' of Vent Pipe, with the bottom 320' Perforated. Driller Reported Water at 110'. Set 90' of 8" PVC casing, and cemented with 28 sacks.												
DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
	ANODE	*		ANODE	*		ANODE	*		ANODE	*	
100	2.7		295	2.0		490			685			
105	2.7		300	1.6		495			690			
110	2.7		305	.7		500			695			
115	2.6		310	2.2		505			700			
120	2.9		315	2.4	9	510			ANODE	DEPTH	NO	FULLY
125	2.5		320	2.8		515			*		COKE	COK'D
130	2.3		325	2.9	8	520			1	420	2.8	5.8
135	2.3		330	2.7		525			2	410	2.6	6.6
140	2.4		335	3.2	7	530			3	400	2.4	6.1
145	2.2		340	2.3		535			4	375	2.9	6.4
150	2.1		345	2.3		540			5	365	2.9	6.5
155	2.0		350	2.1		545			6	355	2.5	6.1
160	2.1		355	2.6	6	550			7	335	3.2	7.5
165	1.7		360	2.8		555			8	375	2.9	7.2
170	1.9		365	2.8	5	560			9	315	2.5	5.9
175	2.1		370	2.4		565			10	230	2.6	6.5
180	2.1		375	2.6	H	570			11	220	2.9	7.1
185	2.1		380	2.2		575			12	210	2.9	6.5
190	2.1		385	2.0		580			13			
195	2.0		390	1.8		585			14			
200	1.9		395	1.9		590			15			
205	1.8		400	2.4	3	595			16			
210	2.3	12	405	2.8		600			17			
215	2.3		410	2.7	2	605			18			
220	2.6	11	415	2.6		610			19			
225	2.4		420	2.6	1	615			20			
230	2.4	10	425	2.3		620			21			
235	2.3		430	1.6		625			22			
240	2.2		435	1.6		630			23			
245	1.7		440			635			24			
250	1.8		445			640			25			
255	1.6		450			645			26			
260	1.6		455			650			27			
265	2.2		460			655			28			
270	2.2		465			660			29			
275	2.1		470			665			30			
280	2.2		475			670						
285	2.1		480			675						
290	1.9		485			680						

DISTRIBUTION - original - permanent CPS FILE

copy - Division Corrosion Supervisor

copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

60000 Laboratory No. 25-91108-11

Company MERIDIAN		Sample No.		Date Sampled 11-3-91	
Field CALVIN #X1		Legal Description M-26-29-11		County or Parish San Juan	
Lease or Unit		Well		State NM	
Type of Water (Produced, Supply, etc.) Produced		Depth 110'		Formation WATER TABLE	
Sampling Point		Water, B/D		Sampled By J. L. Moss	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	1,450	63
Calcium, Ca	174	8.7
Magnesium, Mg	15.8	1.3
Barium, Ba		

OTHER PROPERTIES

pH	7.35
Specific Gravity, 60/60 F.	1.0094
Resistivity (ohm-meters) @ 68 F.	1.35

Total Dissolved Solids (calc.)

5,200

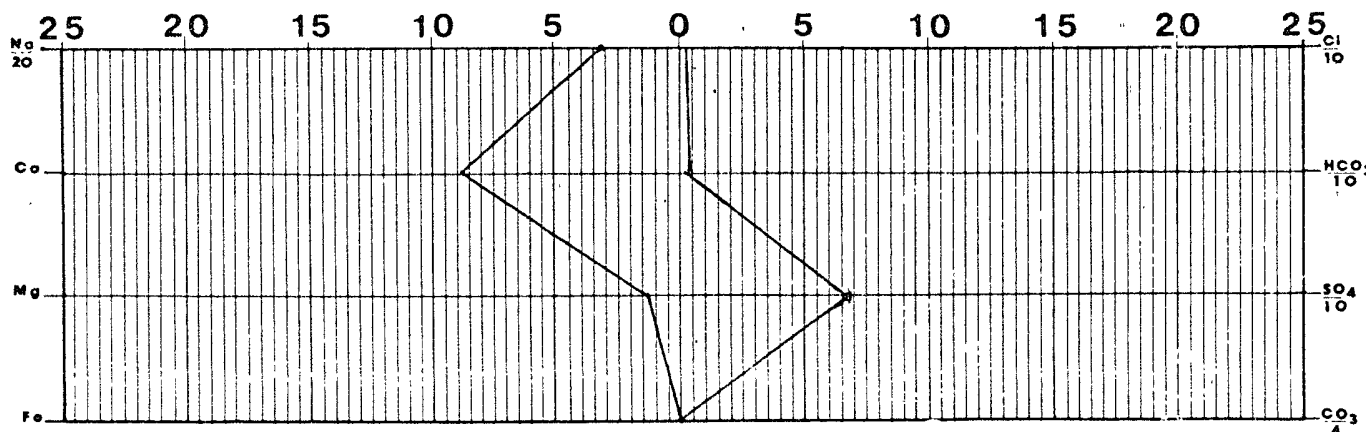
ANIONS

Chloride, Cl	99	2.8
Sulfate, SO_4	3,200	66
Carbonate, CO_3	4.9	0.16
Bicarbonate, HCO_3	260	4.3

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received 8th Nov, 1991	Preserved	Date Analyzed 27th Dec, 1991	Analyzed By K. H.
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TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

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

Operator Meridian Location: Unit M Sec. 26 Twp 29 Rng 11

Name of Well/Wells or Pipeline Serviced _____

CALVIN #1

6040W

Elevation _____ Completion Date 11/3/91 Total Depth 440' Land Type F

Casing Strings, Sizes, Types & Depths Drilled 90' AND SET 8" PVC

CASING

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

WITH 28 SACKS

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

NONE

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. HIT FRESH WATER AT 110'

Depths gas encountered: NONE

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

440'. Used 32 SACKS OF LORESCO, AND 70 SACKS OF ASBURY

Depths anodes placed: 420, 410, 400, 375, 365, 355, 335, 325, 315, 230, 220, + 210

Depths vent pipes placed: SURFACE TO 440'

Vent pipe perforations: BOTTOM 320' PERFOINTED

RECEIVED

FEB 24 1992

Remarks: _____

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.

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If Federal or Indian, add Lease Number.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS#	P/L NAME(s), NUMBER(s)					
6040W	CALVIN #1					
* 2194A	TOTAL	VOLTS	AMPS	- OHMS	DATE	NAME
		118	279	.42	11/3/91	JOHN L. MOSS

REMARKS (notes for construction log)

Drilled TO 440. Installed 440' of Vent Pipe, WITH THE BOTTOM 320' Perforated. Driller Reported WATER AT 110' Set 90' of 8" PVC CASING, AND Cemented WITH 28 SACKS.

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
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			485			680						

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60000
Laboratory No. 85-91108-11

Company MERIDIAN		Sample No.		Date Sampled 11-3-91	
Field CALVIN #X1		Legal Description M-26-29-11		County or Parish San Juan	
Lease or Unit		Well		State NM	
Depth 110'		Formation Waters Table		Water, B/D	
Type of Water (Produced, Supply, etc.) Produced		Sampling Point		Sampled By J. L. Moss	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>1,450</u>	<u>63</u>
Calcium, Ca	<u>174</u>	<u>8.7</u>
Magnesium, Mg	<u>15.8</u>	<u>1.3</u>
Barium, Ba		

ANIONS

Chloride, Cl	<u>99</u>	<u>2.8</u>
Sulfate, SO_4	<u>3,200</u>	<u>66</u>
Carbonate, CO_3	<u>4.9</u>	<u>0.16</u>
Bicarbonate, HCO_3	<u>260</u>	<u>4.3</u>

OTHER PROPERTIES

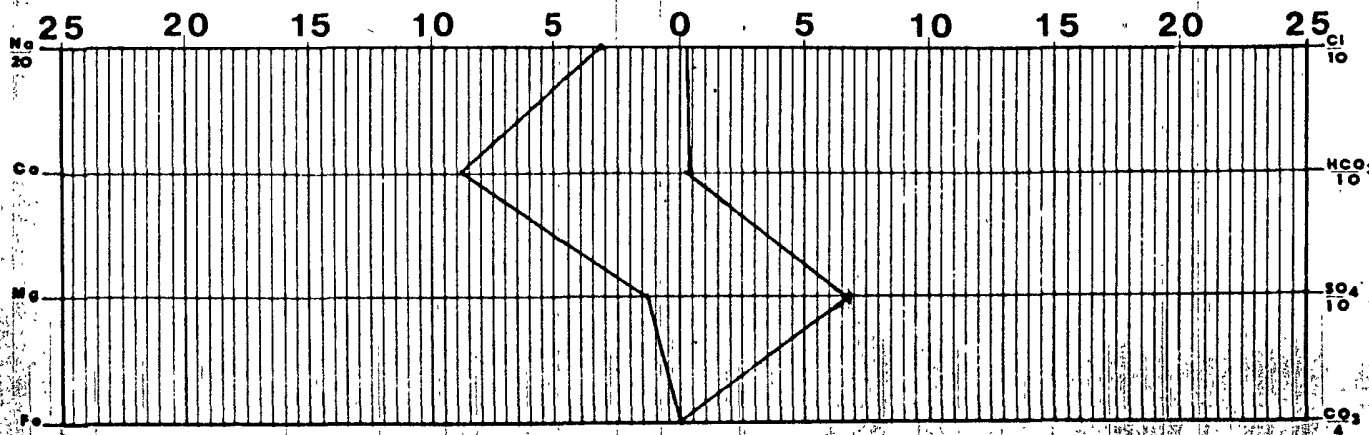
pH	<u>7.35</u>
Specific Gravity, 60/60 F.	<u>1.0094</u>
Resistivity (ohm-meters) <u>68</u> F.	<u>1.35</u>

Total Dissolved Solids (calc.)

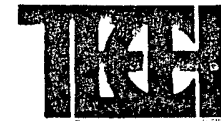
5,200

Iron, Fe (total)
Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received 8th Nov. 1991.	Preserved	Date Analyzed 27th Dec. 1991.	Analyzed By K.H.
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