

#2 30-045-10880 E.

#713 30-045-27655

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

6209W

Operator David D Ashworth Location: Unit 4 Sec. 11 Twp 31 Rng 9

Name of Well/Wells or Pipeline Serviced Nordhaus #713, Nordhaus #2

Elevation 6482 Completion Date 6-28-91 Total Depth 375' Land Type F

Casing Strings, Sizes, Types & Depths 100' 8" PVC

If Casing Strings are cemented, show amounts & types used yes -

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

NA

Depths & thickness of water zones with description of water: Fresh Clear,
Salty, Sulphur, Etc. 160' - Fresh

RECEIVED

FEB 24 1992

OIL CON. DIV.
DIST. 3

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 375' - Gr. Bed Depth

Loresco SW - Coke to 100' From Surface

Depths anodes placed: #1-355', #2-345', #3-336', #4-326', #5-316', #6-306', #7-296', #8-286', #9-270', #10-210'

Depths vent pipes placed: 375' #11-206', #12-190'

Vent pipe perforations: 75' to 375'

Remarks: Water at 160' - No gas encountered anywhere
in hole.

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 GROUT BED CONSTRUCTION WORKSHEET

CPS# 6207-4	P/L NAME(s), NUMBER(s) Nordhaus #713					
* L950	TOTAL	VOLTS 12.1	AMPS 19.7	- OHMS .61	DATE 6-28-91	NAME David Ashworth
REMARKS (notes for construction log)						
Logging Anode was on 2500' Spool						
H ₂ O at 160						

DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	DEPTH	LOG ANODE	ANODE #	
100	.8		295	2.0	7	490			685			
105	.8		300	2.1		495			690			
110	.9		305	2.2	6	500			695			
115	.9		310	2.2		505			700			
120	1.1		315	2.1	5	510			ANODE	DEPTH	NO	FULLY
125	1.6		320	2.4		515			*		COKE	COK'D
130	1.8		325	2.4	4	520			1	355	3.5	5.3
135	1.8		330	2.3		525			2	345	3.2	5.4
140	1.3		335	2.2	3	530			3	336	3.0	5.0
145	1.0		340	2.1		535			4	326	3.6	5.8
150	1.1		345	2.1	2	540			5	316	3.8	6.1
155	1.2		350	2.2		545			6	306	3.2	5.3
160	1.9		355	2.3	1	550			7	296	3.0	5.2
165	2.2		360	1.9		555			8	286	3.0	4.9
170	2.5		365	1.4		560			9	270	2.2	3.3
175	1.9		370	.9		565			10	210	3.0	4.9
180	1.7		375	TD-375		570			11	200	3.2	5.4
185	2.3		380			575			12	190	3.1	5.1
190	2.2	12	385			580			13			
195	2.2		390			585			14			
200	2.2	11	395			590			15			
205	2.1		400			595			16			
210	2.0	10	405			600			17			
215	1.8		410			605			18			
220	1.5		415			610			19			
225	.9		420			615			20			
230	.8		425			620			21			
235	1.1		430			625			22			
240	1.2		435			630			23			
245	1.1		440			635			24			
250	1.0		445			640			25			
255	1.0		450			645			26			
260	1.1		455			650			27			
265	1.4		460			655			28			
270	1.6	9	465			660			29			
275	1.3		470			665			30			
280	1.1		475			670						
285	1.0	8	480			675						
290	1.7		485			680						

DISTRIBUTION - original - permanent CPS FILE

copy - Division Corrosion Supervisor

copy - Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No 25910710-1H

Company <u>Meridian Oil</u>		Sample No.		Date Sampled <u>6-28-91</u>	
Field		Legal Description <u>SW-11 31-9</u>		County or Parish <u>San Juan</u>	
Lease or Unit		Well <u>NORDHAUS #713</u>		State <u>N.M.</u>	
Type of Water (Produced, Supply, etc) <u>Deep Well Gr. Bed</u>		Sampling Point		Sampled By <u>D. ASHWORTH</u>	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>6400</u>	<u>280</u>
Calcium, Ca	<u>28</u>	<u>1.4</u>
Magnesium, Mg	<u>24</u>	<u>2.0</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>7.6</u>
Specific Gravity, 60/60 F.	<u>1.0092</u>
Resistivity (ohm-meters) <u>50</u> F.	<u>.48</u>

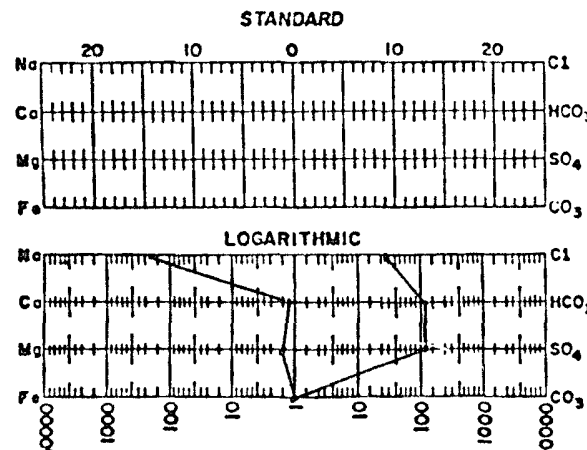
ANIONS

Chloride, Cl	<u>1300</u>	<u>38</u>
Sulfate, So ₄	<u>5800</u>	<u>120</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
Bicarbonate, HCO ₃	<u>7400</u>	<u>120</u>

Total Dissolved Solids (calc.)
21000

Iron, Fe (total)
Sulfide, as H₂S

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS:

Date Received <u>7-10-91</u>	Preserved <u>No</u>	Date Analyzed <u>7-11-91</u>	Analyzed By <u>ES</u>
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