

1056

91-30-045-21424

E

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

Operator MERIDIAN OIL Location: Unit NW Sec. 30 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT COM #91

cps 1735w

Elevation 5960' Completion Date 11/7/84 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/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 130' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3940 lbs.

Depths anodes placed: 360', 290', 275', 264', 210', 200', 190', 170', 160', 150'

Depths vent pipes placed: 400'

Vent pipe perforations: 320'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV. I
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 11-7-84

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins. Union Check
1735-W	Huerfano Com # 91	57565-2150-20	71 600 NW	☒ Good ☐ Bad 64 mat
Location	Anode Size	Anode Type	Size Bit	
NW30-27-10	2" X 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
400	394		3,940	
Anode Depth				
# 1 360	# 2 290	# 3 275	# 4 265	# 5 210
# 6 200	# 7 190	# 8 170	# 9 160	# 10 150
Anode Output (Amps)				
# 1 3.73	# 2 4.25	# 3 3.65	# 4 3.16	# 5 3.14
# 6 3.73	# 7 3.71	# 8 3.97	# 9 4.23	# 10 3.95
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.0	Amps 16.9	Ohms .71		

Remarks: Drilled to 80' found wet sand. Could not blow water from hole next morning. Found additional water at 130', making 5 to 10 gpm. Started injection at 90'. Blew hole dry waited for 1 min to prove water. found only streaks of shale & sand to bottom of Hole. Installed 400 of 1" p.v.c vent pipe, 80' solid, 320' with perforations. Slurried approx. 3,940 lbs coke down hole. got water sample

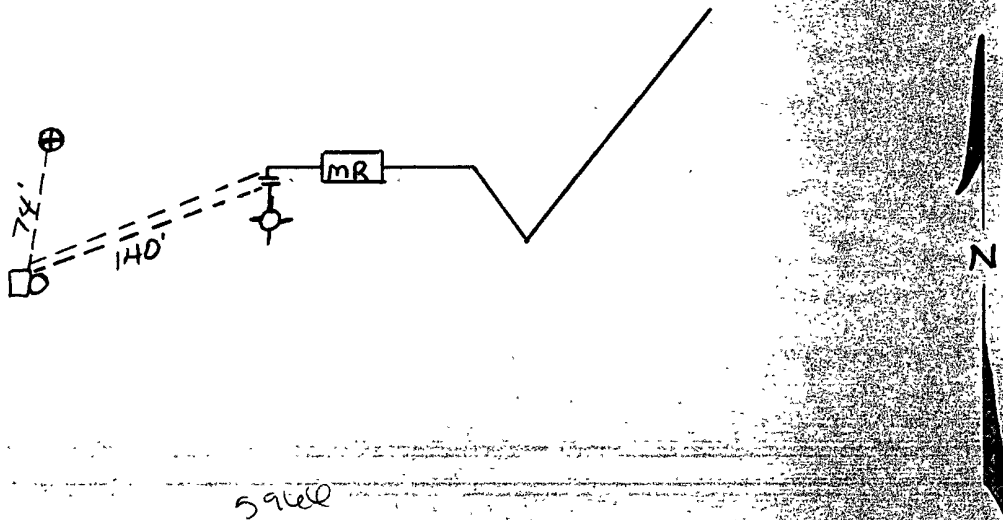
Rectifier Size: 40 V 16 A
 Addn'l Depth: 106' ✓
 Depth Credit: 160' ✓
 Extra Cable: 214' ✓
 Ditch & 1 Cable: 214' ✓
 25' Meter Pole: _____
 20' Meter Pole: 1
 10' Stub Pole: _____

Overtime 2 hrs
 Reg. Time 8 hrs

All Construction Completed

C. W. Donohue
 (Signature)

GROUND BED LAYOUT SKETCH



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

ANALYSIS NO.: 1-11495
OPERATOR: EL PASO NATURAL GAS
LOCATION: 30-27-10
FIELD: ANCEL PEAK
SAMPLED FROM: CPS 1735W @ 130 FT.
DATE SAMPLED: 11-7-84
TUBING PRESSURE:
SURFACE CASING PRESSURE:

DATE: 11-27-84
WELL NAME: HUERFANO COM # 91 CPS 1735W
COUNTY: SAN JUAN STATE: NEW MEXICO
FORMATION:
SECURED BY: BILL DONAHUE
CASING PRESSURE:

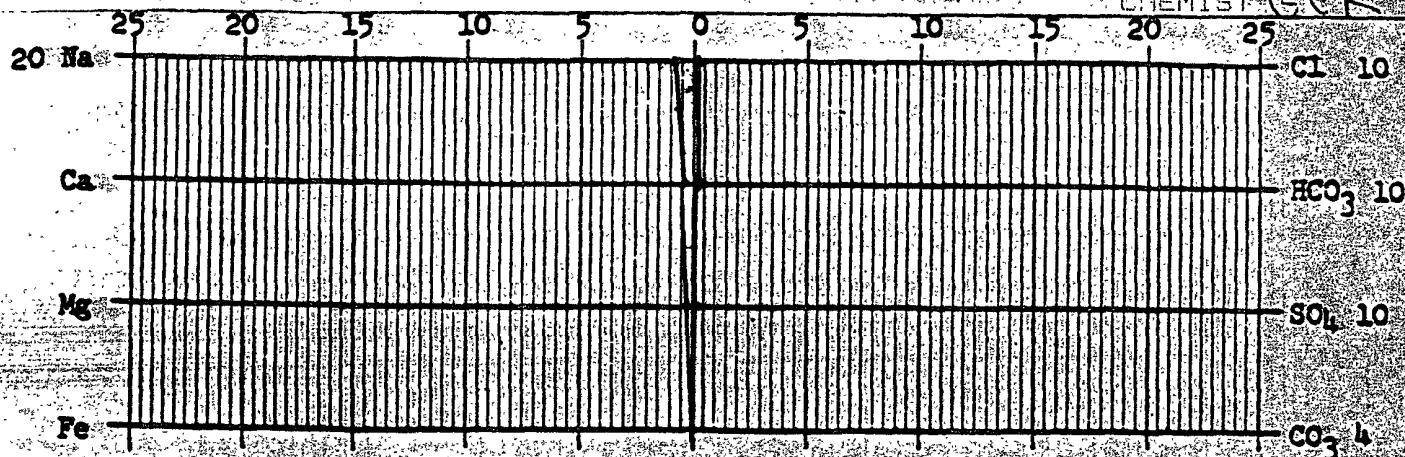
	SAMPLE SIZE	ml. TIT	AS CaCO ₃	AS ION	ppm
TOTAL ALKALINITY	50	11.4	228		
P. ALKALINITY	50	1	20		
BICARBONATE	50	10.4	208	254	4
CARBONATE	50	2	40	24	0
CHLORIDE	50	1		20	0
SULFATE				504	10
TOTAL HARDNESS	50	1.2	24		
CALCIUM	50	1	20	8	0
MAGNESIUM	50	2	4	1	0
IRON				NT	
SODIUM (CALCULATED)				357	15
H ₂ S				NT	
HYDROCARBONS				ND	
TOTAL DISSOLVED SOLIDS				1115	
pH				8.4	
SPECIFIC GRAVITY			AT 60F	1.0017	
RESISTIVITY			602 OHM-CM @ 25C		
CONDUCTIVITY			1660 MICROMHOS @ 25C		

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 ppm

CC: P. A. ULLRICH
D. EVANS
D. C. ADAMS
E. R. PAULEK
W. B. SHROPSHIRE
FILE

D. P. BIRD

CHEMIST: CCK



CPS #: 1735 WELL NAME: *Huerfano Com #91* LOCATION: *NW30-27-10* DATE: *11-7-84*

TOTAL VOLTS: *12.0* TOTAL AMPS: *116.9* OHMS RESISTANCE: *.71*
Readings Thru 1,100' spool

												ANODE READINGS			
DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	DEEP	LOG	ANODE	NO.	DEPTH	NO	WITH
	ANODE	NO.		ANODE	NO.		ANODE	NO.		ANODE	NO.			COKE	COKE
5			185	1.44		365	1.75		545			①	360	2.50	3.73
10			190	2.16	⑦	370	1.45		550			2	290	2.53	4.25
15			195	2.35		375	1.47		555			3	275	2.24	3.65
20			200	2.31	⑥	380	1.31		560			4	265	2.11	3.16
25			205	1.93		385	1.19		565			5	210	2.14	3.14
30			210	1.92	⑤	390	.96		570			6	200	2.39	3.73
35			215	1.86		395	TD 394		575			7	190	2.48	3.71
40			220	1.78		400			580			8	170	2.53	3.97
45			225	1.04		405			585			9	160	2.58	4.23
50			230	.95		410			590			10	150	2.57	3.95
55			235	1.02		415			595						
60			240	.73		420			600						
65			245	.73		425			605						
70			250	.67		430			610						
75			255	.76		435			615						
80	2.33		260	1.06		440			620						
85	1.95		265	1.94	④	445			625						
90	1.94		270	2.06		450			630						
95	1.71		275	2.10	③	455			635						
100	1.64		280	1.81		460			640						
105	1.39		285	1.86		465			645						
110	1.32		290	2.19	②	470			650						
115	1.31		295	2.04		475			655						
120	1.09		300	1.77		480			660						
125	.70		305	1.63		485			665						
130	.86		310	1.58		490			670						
135	1.39		315	1.83		495			675						
140	1.78		320	1.82		500			680						
145	2.08		325	1.69		505			685						
150	2.20	⑩	330	1.77		510			690						
155	2.20		335	1.69		515			695						
160	2.27	⑨	340	1.33		520			700						
165	2.47		345	1.17		525			705						
170	2.26	⑧	350	1.43		530			710						
175	1.93		355	2.35		535			715						
180	1.87		360	2.26	①	540			720						

wet
zone

water
zone

REMARKS: *Drilled to 80', found wet sand. Could not blow water from hole next morning. Found additional water at 130' making 5 to 10 gpm. Started injection at 90'. Blew hole dry at 130', waited for 1 min to prove water. Found only streaks of shale & sand to bottom of hole. Installed 400' of 1" p.v.c. vent pipe, 80' solid, 320' with perforations. Slurried approx. 3,940 lbs coke down hole.*

LEASE HUERFANO COM WELL NO. 91 CONTRACTOR CORR. CONTROL RIG NO. 102 REPORT NO. _____ DATE Nov 7 1984

MORNING					DAYLIGHT					EVENING				
Driller <u>TERENCE LARGENT</u> Total Men In Crew <u>3</u>					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.
<u>0</u>	<u>40</u>	<u>SURFACE SAND</u>			<u>140</u>	<u>220</u>	<u>SHALE</u>							
<u>40</u>	<u>60</u>	<u>SANDSTONE</u>			<u>220</u>	<u>260</u>	<u>SAND</u>							
<u>60</u>	<u>120</u>	<u>SANDY SHALE</u>			<u>260</u>	<u>380</u>	<u>SANDY SHALE AND SHALE STRMS.</u>							
<u>120</u>	<u>140</u>	<u>SAND WATER</u>			<u>380</u>	<u>400</u>	<u>SAND</u>							

BIT NO. _____		NO. DC _____ SIZE _____ LENG. _____	BIT NO. _____		NO. DC _____ SIZE _____ LENG. _____	BIT NO. _____		NO. DC _____ SIZE _____ LENG. _____
S L 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 _____

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

REMARKS -	REMARKS - <u>DRILLED TO 80 FEET</u> <u>ON-11-6-84. NEXT MORNING</u> <u>BLEW OUT WET MUD. STRATED</u> <u>DRILLING WITH INJECTION</u> <u>at 130 FEET WENT INTO</u> <u>WATER SAND, MAKING 10 TO</u> <u>15 GALLONS PER MINUTE</u>	REMARKS -

SIGNED: Toolpusher

Terence Largent

Company Supervisor

C.W. Donohue