

#2 = 30-045-07538

#8 = 30-045-21146

4781

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

Operator MERIDIAN OIL Location: Unit SW Sec. 9 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced HARDIE E #2, #8

cps 649w

Elevation 6227' Completion Date 8/5/87 Total Depth 500' 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. 280' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 465', 455', 430', 420', 405', 395', 340', 330', 320', 310'

Depths vent pipes placed: N/A

Vent pipe perforations: 150'

Remarks: gb #2

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

already in computer

Drilling Log (Attach Hereto) ☐

m.m.

Completion Date 8-5-87

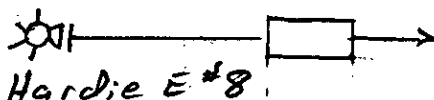
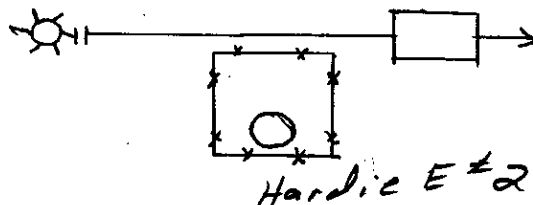
CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
649W	Hardie E#2 Hardie E#8	M 09-28-08 M 09-28-08	.82 E .82 E	☒ Good ☐ Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
SW9-28-8	2" x 60"	Derison	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Gels Used	Lost Circulation Mat'l Used
500	480'	8 hrs		
No. Sacks Mud Used				
Elev. 6227				
Anode Depth				
# 1 465	# 2 455	# 3 430	# 4 420	# 5 405
# 6 395	# 7 340	# 8 330	# 9 320	# 10 310
Anode Output (Amps)				
# 1 2.6	# 2 2.3	# 3 1.7	# 4 1.6	# 5 2.6
# 6 3.1	# 7 2.8	# 8 3.9	# 9 3.5	# 10 3.2
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				
Volts 12.85	Amps 12.1	Ohms 1.06	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

Remarks: Driller said water was at 280'. Vent pipe is perforated up to 150', from slight trace of water at 150'. Water sample was taken at an earlier date

Rectifier Size: _____ V _____ A 4300.00 ✓
 Addn'l Depth _____ - 80.00 ✓
 Depth Credit: 20 ✓
 Extra Cable: 10' ✓ 2.50 ✓
 Ditch & 1 Cable: 30' ✓ 11.70 ✓
 Ditch & 2 Cable: _____ 40.00 ✓
 25' Meter Pole: _____ 4274.20 ✓
 20' Meter Pole: _____ 213.71 ✓
 10' Stub Pole: _____
 Junction Box: 40.00 ✓ 4487.91 ✓

All Construction Completed

Randy Smith
(Signature)



60#2
Δ
0.6
Δ
0.6
GB#1

649W

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

CPS 649 W

COMPANY Meridian DAILY DRILLING REPORT 8-3 1987

WELL NAME: <u>Hardie "E"</u>	WELL NUMBER: <u>2</u>	SECTION: <u>9</u>	TOWNSHIP: <u>28N</u>	RANGE: <u>8E</u>
WATER AT: <u>approx. 200 ft</u>		FEET: <u>6 3/4</u>	HOLE MADE: <u>500 ft</u>	

DESCRIPTION OF FORMATION			
FROM	TO	FORMATION IS	COLOR
0	100	sandstone	tan
100	140	sandstone	Gray
140	180	Sandy shale	Grey
180	200	Sandstone	Grey
200	240 290	Sandy shale	Grey
240	240 290	Sandstone	Grey
240 290	240 310	Shale	Grey
310	320	Sandstone	Grey
320	420	Shale	Grey
420	440	Sandy shale	Grey
440	460	Sandstone	Grey
460	500	Shale	Grey

REMARKS: _____

Grant Burn Driller Tool Dresser

BURG CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141

AZTEC, NEW MEXICO 87410

DEEP WELL GROUND BED LOG

Date 8-5-87

Company Meridian Oil

Well No. _____

Location Hordice E27 E8

Volts Applied 12.85

Amperes 12.1

5		230		455	1.3	-	(2)	680	1	4	6	5	-	2.1
10		235		460	2.2			685	2	4	5	5	-	1.5
15		240		465	2.0	-	(1)	690	3	4	3	0	-	.9
20		245		470	2.2			695	4	4	2	0	-	.9
25		250		475	2.2	-		700	5	4	0	5	-	1.5
30		255		480		-	T.D	705	6	3	9	5	-	1.7
35		260		485				710	7	3	4	0	-	1.5
40		265		490				715	8	3	3	0	-	1.8
45		270		495				720	9	3	2	0	-	1.6
50		275		500				725	10	3	1	0	-	1.8
55		280		505				730						
60		285	1.5	510				735	(1)	2.1				2.6
65		290	3.3	515				740	(2)	1.5				2.3
70		295	2.3	520				745	(3)	.9				1.7
75		300	2.3	525				750	(4)	.9				1.6
80		305	5.7	530				755	(5)					2.6
85		310	1.3	535				760	(6)					3.1
90		315	2.1	540				765	(7)					2.8
95		320	1.2	545				770	(8)					3.9
100		325	1.3	550				775	(9)					3.5
105		330	1.3	555				780	(10)					3.2
110		335	1.3	560				785						
115		340	1.3	565				790						
120		345	1.0	570				795						
125		350	1.5	575				800						
130		355	1.6	580				805						
135		360	1.5	585				810						
140		365	1.3	590				815						
145		370	1.0	595				820						
150		375	.8	600				825						
155		380	.7	605				830						
160		385	.8	610				835						
165		390	1.7	615				840						
170		395	1.7	620			(6)	845						
175		400	1.5	625				850						
180		405	1.5	630			(3)	855						
185		410	1.0	635				860						
190		415	1.7	640				865						
195		420	1.9	645			(4)	870						
200		425	1.9	650				875						
205		430	1.9	655			(3)	880						
210		435	1.9	660				885						
215		440	.8	665				890						
220		445	.8	670				895						
225		450	1.9	675				900						



aps 649w

API WATER ANALYSIS REPORT FORM

Company	MERIDIAN OIL COMPANY		Sample No.	3	Date Sampled	08-03-87
Field	Blanco	Legal Description	County or Parish San Juan		State	NM
Lease or Unit	M 9-28-8	Well	Hardie E 2	Depth'	200	Formation Mesa Verde
Type of Water (Produced, Supply, etc.)	Ground bed		Sampling Point	200'	Sampled By M. R. W.	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	147	6.4
Calcium, Ca	178	8.9
Magnesium, Mg	29	2.4
Barium, Ba		

OTHER PROPERTIES

pH _____
Specific Gravity, 60/60 F. _____
Resistivity (ohm-meters) 71.6 F. _____
Conductivity _____
Total Dissolved Solids (calc.) 1230 mg/l

ANIONS

Chloride, Cl	28	0.8
Sulfate, SO ₄	691	14.4
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	150	2.5
Hydrosulfide		

Iron, Fe (total)
Sulfide, as H₂S

REMARKS & RECOMMENDATIONS:

