

#2 - 30-045-07474

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

#3 - 30-045-20919

Operator MERIDIAN OIL CO. Location: Unit K Sec. 14 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced Hardie D # 2 & D # 3

Elevation _____ Completion Date 8/23/90 Total Depth 520 Land Type _____

Casing Strings, Sizes, Types & Depths 20 ft. 8" PVC

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

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

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Wet at 250 no water.

Depths gas encountered: _____

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

500 ft. with 4500 lbs of Asbury Petroleum Coke.

Depths anodes placed: 490, 480, 470, 460, 450, 425, 335, 325, 315, 305

Depths vent pipes placed: 500 ft. 1" PVC

Vent pipe perforations: _____

Remarks: _____

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 8-23-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
506-W	HARDIE D#2			☒ Good ☐ Bad
	HARDIE D#3			
Location:		Anode Size:	Anode Type:	Size Bit:
K-14-28-8		2" X 6"	ANOTEC	6 3/4
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
520'	500'		4500 #	
Anode Depth				
# 1 490	# 2 480	# 3 470	# 4 460	# 5 450
# 6 425	# 7 335	# 8 325	# 9 315	# 10 305
Anode Output (Amps)				
# 1 2.2	# 2 2.5	# 3 2.6	# 4 2.6	# 5 2.1
# 6 2.1	# 7 3.6	# 8 4.5	# 9 4.1	# 10 4.3
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	
Volts	Amps	Ohms	No. 2 C.P. Cable Used	
12.3	11.4	1.1		

Remarks: SET 20' of 8" PVC CASING. DRILLER said wet at 250', waited 30 MINUTES, did NOT Blow WATER. STARTED INJECTING at 250'. did NOT get WATER sample. Ran 500' of 1" PVC VENT Pipe. Left coke Breeze at approximately 260'.

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 42'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

Willis Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH

⊗ HARDIE D#3

⊙ CB, #3
42' ⊠ RECTIFIER

⊗ HARDIE #2 D

N

Meridian Oil

CPS #: 506-W WELL NAME: Harbier #2 + D3 LOCATION: K4-28-8 DATE: 8-23-98

TOTAL VOLTS: 12.3 TOTAL AMPS: 11.4 OHMS RESISTANCE: 1.07

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	.30		365	.40		545			1	490	1.1	2.2
10			190	.30		370	.40		550			2	480	1.1	2.5
15			195	.20		375	.40		555			3	470	1.1	2.6
20			200	.10		380	.50		560			4	460	1.1	2.6
25			205	.10		385	.50		565			5	450	1.1	2.1
30			210	.10		390	.50		570			6	425	1.1	2.1
35			215	.10		395	.50		575			7	335	1.5	3.6
40			220	.10		400	.50		580			8	325	2.1	4.5
45			225	.20		405	.50		585			9	315	1.9	4.1
50			230	.40		410	.40		590			10	305	1.9	4.3
55			235	1.7		415	.30		595						
60			240	.70		420	.40		600						
65			245	.30		425	1.0	6	605						
70			250	.40		430	.90		610						
75			255	.50		435	.80		615						
80			260	.30		440	.90		620						
85			265	.40		445	.90		625						
90			270	.40		450	1.0	5	630						
95			275	.80		455	1.0		635						
100			280	1.0		460	1.0	4	640						
105			285	.50		465	.90		645						
110			290	.50		470	1.0	3	650						
115			295	.60		475	1.1		655						
120			300	1.0		480	.90	2	660						
125			305	1.5	10	485	.90		665						
130			310	1.5		490	1.0	1	670						
135			315	1.7	9	495	.90		675						
140			320	1.7		500	.90	10	680						
145			325	1.9	8	505			685						
150			330	1.8		510			690						
155			335	1.4	7	515			695						
160			340	.90		520			700						
165			345	.60		525			705						
170	.70		350	.50		530			710						
175	.40		355	.40		535			715						
180	.30		360	.40		540			720						

REMARKS: SET 20' of 8" PVC CASING. DRILLER SAID WATER AT 250'. WAITED 30 MINUTES, DID NOT BLOW WATER. STARTED INJECTING AT 250'. RAN 500' of 1" PVC VENT PIPE.

BURGE CORROSION SYSTEMS, INC.

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

COMPANY MERIDIAN OIL DAILY DRILLING REPORT 8-22 1990

WELL NAME: <u>HARDIE D</u>	WELL NUMBER: <u>2</u>	SECTION: <u>K 14</u>	TOWNSHIP: <u>28</u>	RANGE: <u>08</u>
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WATER AT:

FEET:

HOLE MADE:

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	18'	8" PVC CASING (CLAY-SANDSTONE)	
18'	40'	shale	
40'	60'	sandstone	
60'	80'	shale - SANDSTONE	
80'	150'	sand - SANDSTONE	
150'	170'	shale	
170'	230'	sandstone - SAND (BLUE	
230'	240'	went to injection - shale	
240'	250'	sand	
250'	310'	shale - sand mix	
310'	340'	shale	
340'	370'	shale - sand mix	
370'	410'	shale sand mix	
410'	520'	shale - Bentonite - sand mix	

REMARKS:

Set and cemented 20' 8" PVC casing. Went to
injection at 230'. Drilled to 520'

Driller

Brian E. Burge

Tool Dresser