

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

30-045-20560

Operator MERIDIAN OIL CO. Location: Unit K Sec. 24 Twp. 29 Rng. 8

Name of Well/Wells or Pipeline Serviced HARDIE A # 2 R

Elevation _____ Completion Date 8/28/90 Total Depth 500 Land Type _____

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

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 35 ft, 95ft & 210 ft no sample

Depths gas encountered: _____

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

7700 lbs of Ashbury petroleum coke

Depths anodes placed: 470, 463, 456, 445, 435, 428, 421, 417, 307, 300

Depths vent pipes placed: 500 ft. 1" vent pipe

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

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Drilling Log (Attach Hereto) ☐

Completion Date 8-28-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
871-W	HARDIE A #2R			☒ Good ☐ Bad
Location:	Anode Size:	Anode Type:	Size Bit:	
K-24-29-8	2' X 60'	ANOTEC	6 3/4	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
500'	490'		77.00 #	
Anode Depth				
# 1 470'	# 2 463'	# 3 456'	# 4 445'	# 5 435'
# 6 428'	# 7 421'	# 8 417'	# 9 307'	# 10 300'
Anode Output (Amps)				
# 1 2.4	# 2 2.6	# 3 2.6	# 4 2.2	# 5 2.0
# 6 2.1	# 7 2.0	# 8 2.2	# 9 2.4	# 10 2.3
Anode Depth				
# 11 240'	# 12 215'	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11 1.7	# 12 2.0	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used
Volts 12.4	Amps 8.8	Ohms 1.4		

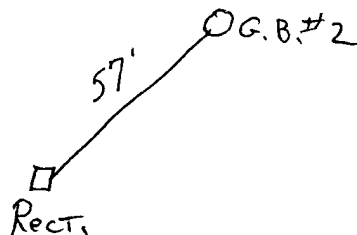
Remarks: Set 20' of 8" PVC casing. DRILLER said wet at 35', 95', + 210'. Set overnight, did not blow water next A.M. Did not get water sample, started inspecting at 260'. Ran 500' of 1" vent pipe. Left coke breeze approx. 190'. Ran 2 extra anodes to try lower ground bed resistance. Lowered resistance .27 ohm

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: _____ 10'
 Ditch & 1 Cable: _____ 57'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: _____

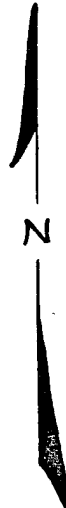
All Construction Completed

Willis Knight Jr
(Signature)

GROUND BED LAYOUT SKETCH



⊗ HARDIE A #2R



CONSTRUCTION LOGGING READINGS

Meridan Oil

CPS #: 871-W WELL NAME: Hardie A²R LOCATION: K24-29-8 DATE: 8-28-90

TOTAL VOLTS: 72.4 TOTAL AMPS: 8.8 OHMS RESISTANCE: 1.40

												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.	ANODE	ANODE	NO.	ANODE	NO.	COKE	COKE	COKE
5			185	.40		365	.60		545			1	470	.80	2.4
10			190	.40		370	.50		550			2	463	.90	2.6
15			195	.40		375	.50		555			3	456	1.2	2.6
20			200	.40		380	.40		560			4	445	1.2	2.2
25			205	.40		385	.50		565			5	435	.90	2.0
30			210	.60		390	.60		570			6	428	.80	2.1
35			215	.90	12	395	.60		575			7	421	.80	2.0
40			220	.70		400	.70		580			8	417	1.1	2.2
45			225	.60		405	.70		585			9	307	1.2	2.4
50			230	.60		410	.70		590			10	300	1.1	2.3
55			235	.50		415	1.0		595			11	240	.70	1.7
60			240	.80	11	420	.90	8	600			12	215	1.0	2.0
65			245	.40		425	.80	7	605						
70			250	.30		430	.80	6	610						
75			255	.30		435	.80	5	615						
80			260	.30		440	1.0		620						
85			265	.30		445	1.1	4	625						
90			270	.30		450	1.0		630						
95			275	.30		455	1.1	3	635						
100	.50		280	.40		460	1.0	2	640						
105	.50		285	.40		465	.80		645						
110	.30		290	.40		470	.80	1	650						
115	.40		295	.60		475	.70		655						
120	.50		300	1.0	10	480	.80		660						
125	.70		305	1.3		485	.70		665						
130	.70		310	.90	9	490	—	TD	670						
135	.40		315	.60		495			675						
140	.40		320	.70		500			680						
145	.50		325	.80		505			685						
150	.60		330	.50		510			690						
155	.70		335	.40		515			695						
160	.60		340	.50		520			700						
165	.40		345	.60		525			705						
170	.40		350	.70		530			710						
175	.40		355	.70		535			715						
180	.40		360	.70		540			720						

REMARKS: Set 20' of 8" PVC casing. Driller said water at 35', 75' and 210'. Drilled 240', set overnight Next AM. could NOT Blow water. NO WATER SAMPLE. Started injecting at 260'.