

2 = 30-045-10160
200 = 30-045-26887

3505

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

Operator MERIDIAN OIL INC. Location: Unit H Sec. 36 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC D COM A #2, #200

cps 2086w

Elevation 6640' Completion Date 10/30/70 Total Depth 620' 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. 90', 220', 260'

Depths gas encountered: N/A

Type & amount of coke breeze used: 75 SACKS

Depths anodes placed: 575', 565', 530', 520', 510', 495', 425'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #3

RECEIVED
MAY 21 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

Page 1 of 2

Grid Bed #2

[Signature]

Drilling Log (Attach Hereto). ☐ *Installed By GPS.*

Completion Date 9-18-70

Well Name <i>Atlantic # Dcom A-2</i>		Location <i>36-31-10</i>		CPS No. <i>383W 2086</i>																																																																																					
Type & Size Bit Used <i>6 3/4</i>				Work Order No. <i>184-52282-50-20</i>																																																																																					
Anode Hole Depth <i>660</i>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used																																																																																					
<table border="1"> <tr> <td colspan="6">Anode Depth</td> </tr> <tr> <td>#1 <i>590</i></td> <td>#2 <i>580</i></td> <td>#3 <i>570</i></td> <td>#4 <i>535</i></td> <td>#5 <i>525</i></td> <td>#6 <i>515</i></td> <td>#7 <i>505</i></td> <td>#8 <i>495</i></td> <td>#9 <i>425</i></td> <td>#10 <i>415</i></td> </tr> <tr> <td colspan="6">Anode Output (Amps)</td> </tr> <tr> <td>#1 <i>3.0</i></td> <td>#2 <i>3.0</i></td> <td>#3 <i>1.9</i></td> <td>#4 <i>2.5</i></td> <td>#5 <i>2.5</i></td> <td>#6 <i>5.0</i></td> <td>#7 <i>5.0</i></td> <td>#8 <i>4.4</i></td> <td>#9 <i>1.27</i></td> <td>#10 <i>1.27</i></td> </tr> <tr> <td colspan="6">Anode Depth</td> </tr> <tr> <td>#11</td> <td>#12</td> <td>#13</td> <td>#14</td> <td>#15</td> <td>#16</td> <td>#17</td> <td>#18</td> <td>#19</td> <td>#20</td> </tr> <tr> <td colspan="6">Anode Output (Amps)</td> </tr> <tr> <td>#11</td> <td>#12</td> <td>#13</td> <td>#14</td> <td>#15</td> <td>#16</td> <td>#17</td> <td>#18</td> <td>#19</td> <td>#20</td> </tr> <tr> <td colspan="4">Total Circuit Resistance</td> <td colspan="2">No. 8 C.P. Cable Used</td> <td colspan="4">No. 2 C.P. Cable Used</td> </tr> <tr> <td colspan="2">Volts</td> <td colspan="2">Amps</td> <td colspan="2">Ohms</td> <td colspan="4"></td> </tr> </table>						Anode Depth						#1 <i>590</i>	#2 <i>580</i>	#3 <i>570</i>	#4 <i>535</i>	#5 <i>525</i>	#6 <i>515</i>	#7 <i>505</i>	#8 <i>495</i>	#9 <i>425</i>	#10 <i>415</i>	Anode Output (Amps)						#1 <i>3.0</i>	#2 <i>3.0</i>	#3 <i>1.9</i>	#4 <i>2.5</i>	#5 <i>2.5</i>	#6 <i>5.0</i>	#7 <i>5.0</i>	#8 <i>4.4</i>	#9 <i>1.27</i>	#10 <i>1.27</i>	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		Amps		Ohms					
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Remarks: *Anodes Placed in Hole 9-18-70 - output reading 10-30-70*
Pump hose stuck in hole - Drilled out, stuck again, Drilled out &
thin Down, slurry 30 sacks of coke & bridged, Moved off - Rig Back
on Hole 10-28-70 - Jet 1 1/2" Drill pipe to 450' unable to free anodes
Moved & started New hole. (see page 2 of 2) Connect this Grid Bed
to #3

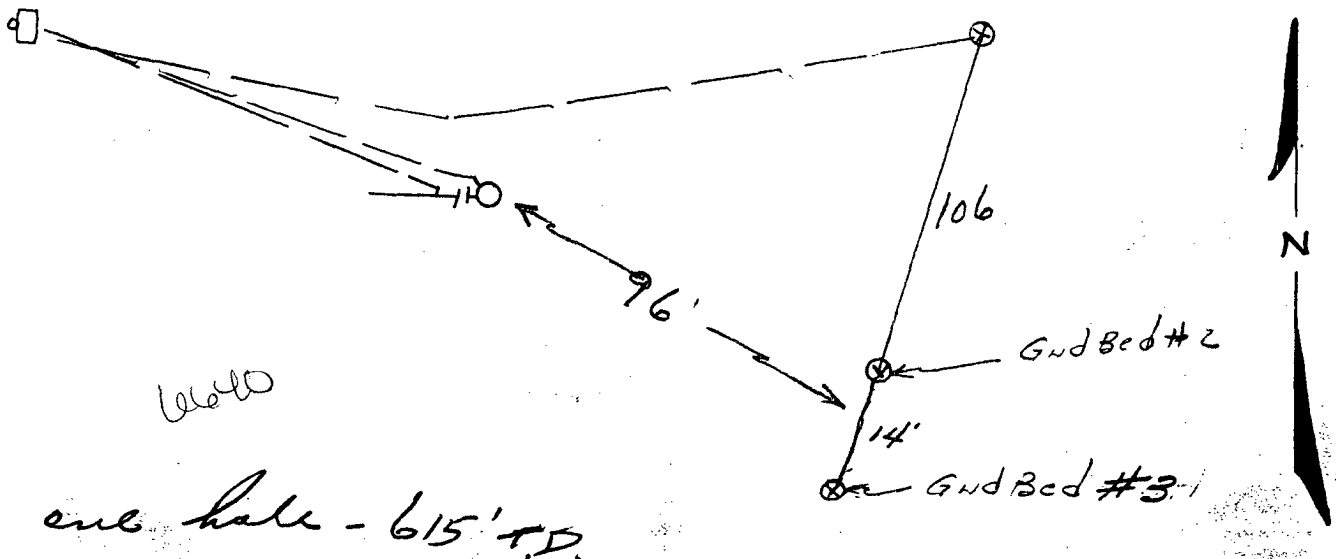
COKE BRIDGE NEAR 500' - NO EVIDENCE
THAT COKE EVER WENT BELOW
ANODE #6

All Construction Completed

[Signature]

(Signature)

GROUND BED LAYOUT SKETCH



Pay one hole - 615' T.D.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Page 2 of 2

Grid Bed No 3

Drilling Log (Attach Hereto). ☐ Installed By C.P.S.

Completion Date 10-30-70

Well Name <u>Atlantic Dcom A-2</u>		Location <u>NE 36-31-10</u>		CPS No. <u>383W</u>	
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>184-52282-50-20</u>	
Anode Hole Depth <u>620</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>575</u>	# 2 <u>565</u>	# 3 <u>530</u>	# 4 <u>520</u>	# 5 <u>510</u>	# 6 <u>495</u>
# 7 <u>425</u>	# 8	# 9	# 10		
Anode Output (Amps)					
# 1	# 2	# 3	# 4	# 5	# 6
# 7	# 8	# 9	# 10		
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 <u>11.5</u>	Amps <u>14.0</u>	Ohms <u>282</u>	<u>Two Grid Beds Per C.P.S.</u>		

Remarks: Anodes 8 & 9 lodged in Hole at 322' - pulled cable apart trying to dislodge - left pump base & 7 anodes in Hole & Filled hole with coke

75 Bags of coke used on Grid Bed 2 & 3

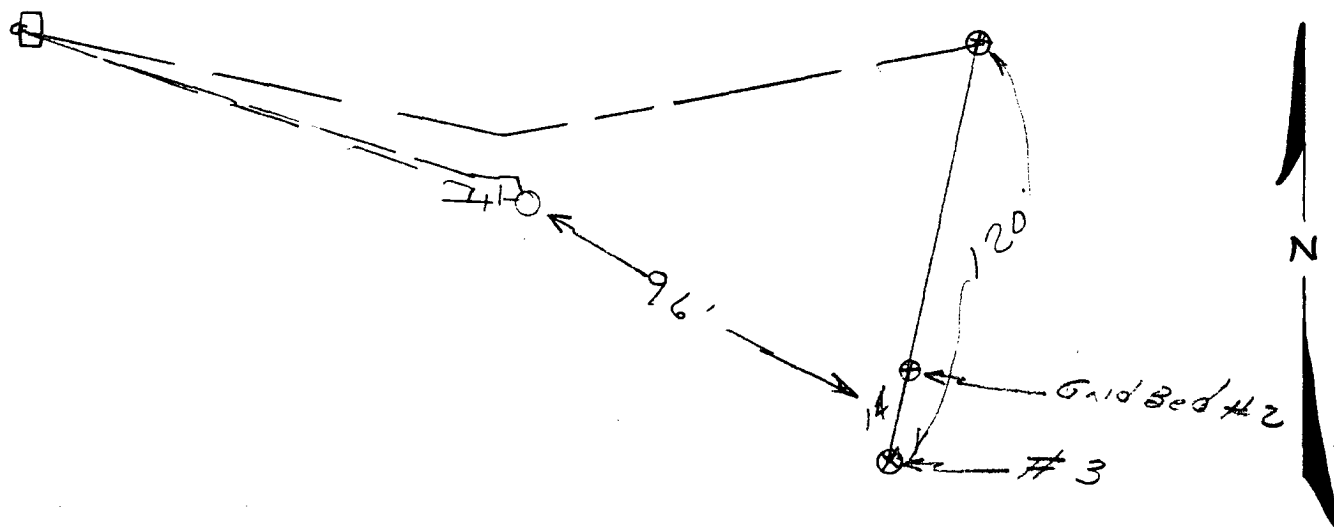
75 Bags of coke left on location

All Construction Completed

Forrester

(Signature)

GROUND BED LAYOUT SKETCH



383w -

wet at 90-220-265
Slurry 30 sks - & Bridged -

air to 265 -

Perf. 485

100	2.10	80	1.40	60	.75				
	2.10		1.00		.75				
10	1.80	90	.50	70	.90				
	2.30		.50		.90				
20	2.40	300	.55	80	.9				
	2.40		1.00		.70				
30	1.90	10	1.20	90	.80				
	1.00		.75		2.0				
40	.60	20	.60	500	2.0	2.0			
	.60		.50		1.9	1.7	1	590	1.6 3
50	.50	30	.50	10	2.0	1.7	2	580	
	.40		.45		1.9	1.75	3	570	1.2 1
60	.60	40	.50	20	1.9	1.65	4	535	1.8 2
	.45		.55		1.99	1.6	5	525	
70	.55	50	.50	30	1.8	1.6	6	515	1.8 - 5
	.65		.45		1.9	1.6	7	505	
80	.60	60	.90	40	1.55	1.0	8	495	1.0 - 4
	.50		.75		.95	.75	9	425	1.9 - 12
90	.40	70	.60	50	.8	.8	10	415	
	.40		.55		1.0	1.2			
200	.70	80	.60	60	1.3	1.2			
	1.20		1.15		1.2	1.3			
10	.90	90	1.30	70	1.9	1.9			
	1.20		.75	75	2.13	1.7			
20	1.25	400	.40	80	1.7				
	.90		.50		2.1				
30	1.50	10	1.60	90	1.9				
	.60		1.70		1.7				
40	.40	20	1.80	60	1.3				
	.35		1.80		.7				
50	.30	30	1.00	10	.75				
	.25		.40		1.00				
60	.25	40	.4	20	1.3				
	.50		.25		1.1				
70	.95	50	.9	30	1.3				
	1.70		.8		1.00				

A node & 80 coke
& Bridge - 9-18-70

Gud Bed #3

10-30-70

MW	gate/mol
16	C ₁ 6.4
30	C ₂ 9.56
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 13.83
86	IC ₅ 15.50
100	NC ₅ 17.2
114	C ₆ 19.46
128	C ₇ 21.64
142	C ₈ 23.61

MW	MSC	gate/mol
44	CO ₂	9.18
58	N ₂	9.17
28	N ₂	4.16
2	H ₂	3.38

100	1.1	80	87	60	.47		
	1.05		65		.5		
10	1.0	90	40	70	.53		
	1.13		38		.52		
20	1.18	300	.40	80	.51		
	1.25		.50		.35		
30	.9	10	.70	90	.87	1	585
	.6		.68		1.05	2	575
40	.4	20	.55	500	.94	3	565
	.37		.40		.99	4	530
50	.32	30	.38	10	1.0	5	520
	.35		.38		1.0	6	510
60	.40	40	.38	20	.98	7	495
	.38		.40		.98	8	425
70	.45	50	.40	30	1.00	9	415
	.45		.35		.84	10	390
80	.40	60	.4	40	.59		
	.35				.49		
90	.30	70	.40	50	.58	1	575
	.29		.40		.80	2	565
200	.40	80	.45	60	.54	3	530
	.44		.50		1.00	4	520
10	.47	90	.90	70	.98	5	510
	.45		.73		1.07	6	495
20	.50	400	.45	80	1.07	7	425
	.60		.35		1.26	8	415
30	.78	10	.63	90	1.21	9	390
	.45		.98		1.10		
40	.32	20	.98	600	.97		
	.24		.98				
50	.22	30	.97	10			
	.20		.50				
60	.20	40	.20	20			
	.38		.13				
	.45	50	.6				
	.90		.5				