

#3 30-045-20084
#9 30-045-20491
#260 30-045-27135

#4

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp. 30 Rng. 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, #9

Elevation _____ Completion Date 8/20/90 Total Depth 65 ft. Land Type _____

Casing Strings, Sizes, Types & Depths 47 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. 30 to 40 ft.

Depths gas encountered: _____

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

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 58ft, 50 ft.

Depths vent pipes placed: 65 ft.

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.

#1

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

Operator MERIDIAN OIL CO. **Location: Unit** N **Sec.** 34 **Twp.** 30 **Rng.** 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

Elevation _____ **Completion Date** 8/20/90 **Total Depth** 102 **Land Type** _____

Casing Strings, Sizes, Types & Depths 50 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. 30 to 40 ft., 102 artesian

Depths gas encountered: 102 ft.

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

Depths anodes placed: _____

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: Well # 1 Abandoned- cemented/ redrilled/ cemented - drilled with mud

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.

#1A

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, # 9

Elevation _____ Completion Date 8/20/90 Total Depth 65 Land Type _____

Casing Strings, Sizes, Types & Depths 47 ft. 8" PVC Casing

If Casing Strings are cemented, show amounts & types used attempted to
cement

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. 35 ft. & 102' artesian

Depths gas encountered: _____

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

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 60, 53

Depths vent pipes placed: 65 ft.

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.

#2

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp. 30 Rng 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

Elevation _____ Completion Date 8/20/90 Total Depth 65 Land Type _____

Casing Strings, Sizes, Types & Depths 47ft. 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. 30 ft. to 40 ft.

Depths gas encountered: _____

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

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 60ft., 53 ft.

Depths vent pipes placed: 65 ft.

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.

#3

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

Operator MERIDIAN OIL CO. **Location: Unit** N **Sec.** 34 **Twp.** 30 **Rng** 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, #9

Elevation _____ **Completion Date** 8/20/90 **Total Depth** 65ft. **Land Type** _____

Casing Strings, Sizes, Types & Depths 47 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. 30 to 40 ft.

Depths gas encountered: _____

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

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 53 ft. 45 ft.

Depths vent pipes placed: 65 ft.

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.

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp. 30 Rng. 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

Elevation _____ Completion Date 8/20/90 Total Depth 65 Land Type _____

Casing Strings, Sizes, Types & Depths _____

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. _____

Depths gas encountered: _____

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

Depths anodes placed: _____

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: Lost - drilled up 1 anode & wire, due to gravel & sand running

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.

#51

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

Operator MERIDIAN OIL CO. **Location: Unit** N **Sec.** 34 **Twp.** 30 **Rng.** 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

Elevation _____ **Completion Date** 8/20/90 **Total Depth** 65 **Land Type** _____

Casing Strings, Sizes, Types & Depths 47 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. 30 to 40 ft.

Depths gas encountered: _____

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

65 ft. 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 55 ft. & 48 ft.

Depths vent pipes placed: 65 ft.

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

#15

Drilling Log (Attach Hereto) ☐Completion Date 8-20-90

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins. Union Check																
54-W	Riddle A com #260			☒ Good ☐ Bad																
	Riddle A com #3																			
	Riddle A com #9																			
Location: N34-30-9	Anode Size: 2" x 60"	Anode Type: ANOTEC	Size Bit: 6 3/4"																	
Depth Drilled #1	Depth Logged #2	Drilling Rig Time	Total Lbs. Coke Used #3	Lost Circulation Mat'l Used #4																
No. Sacks Mud Used #5																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Anode Depth</td> <td colspan="2">Anode Output (Amps)</td> </tr> <tr> <td>#1 60</td> <td>#2 53</td> <td>#3 60</td> <td>#4 53</td> </tr> <tr> <td>#5 53</td> <td>#6 45</td> <td>#7 58</td> <td>#8 50</td> </tr> <tr> <td>#9 55</td> <td>#10 48</td> <td colspan="2"></td> </tr> </table>					Anode Depth		Anode Output (Amps)		#1 60	#2 53	#3 60	#4 53	#5 53	#6 45	#7 58	#8 50	#9 55	#10 48		
Anode Depth		Anode Output (Amps)																		
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#19	#20																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Total Circuit Resistance</td> <td colspan="2">No. 8 C.P. Cable Used</td> </tr> <tr> <td>Volts</td> <td>Amps</td> <td>Ohms</td> <td>No. 2 C.P. Cable Used</td> </tr> </table>					Total Circuit Resistance		No. 8 C.P. Cable Used		Volts	Amps	Ohms	No. 2 C.P. Cable Used								
Total Circuit Resistance		No. 8 C.P. Cable Used																		
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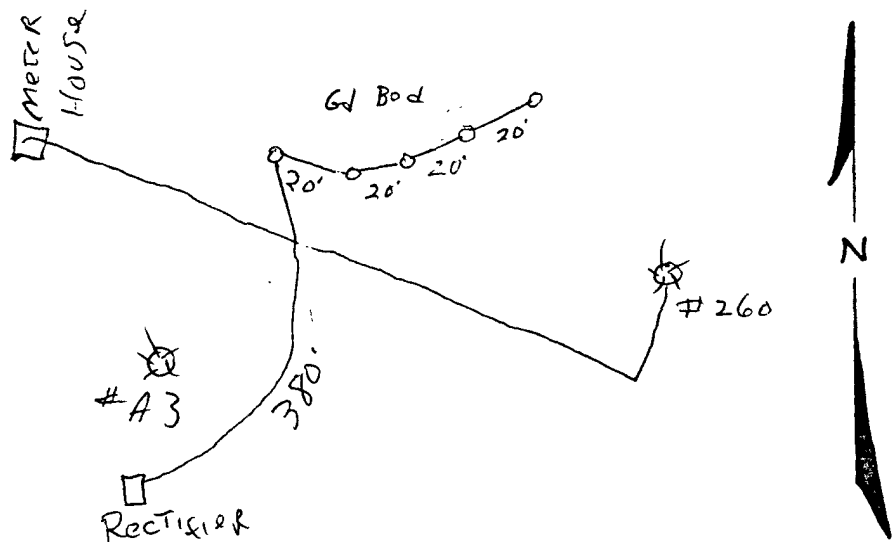
Remarks: DRILLED 5 holes and loaded 2 ANODE PER hole. INSTALLED 1" PVC VENT PIPE IN EACH hole. AVERAGE hole depth APPROXIMATELY 65'. APPROXIMATELY 500 lbs. COKE PER hole. WATER STANDING AT APPROXIMATELY 40' IN hole. PERFORATED 20' ON EACH VENT PIPE.

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 20'
 Ditch & 1 Cable: 460'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Sub Pole: _____
 Junction Box: 1

All Construction Completed

Willis L. Wright, Jr.
(Signature)

GROUND BED LAYOUT SKETCH



RECEIVED
SEP 19 1990
OIL CON. DIV
DIST. 3

#A9

CONSTRUCTION LOGGING READINGS

Meridian Oil

CIS #: 54-W WELL NAME: Riddle A Comp 260 LOCATION: N2430-9 DATE: 8-16-98

TOTAL VOLTS: 2.9 TOTAL AMPS: 8.6 OHMS-RESISTANCE: 1.6

Hole #1 of 5

Hole #1 of 5												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			365			545			1	60	3.5	3.9
10			190			370			550			2	53	3.8	7.0
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45			225			405			585						
50	23		230			410			590						
55	3.0	2	235			415			595						
60	2.9	1	240			420			600						
65	2.2	TD	245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 48' of 8" PVC casing

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

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Riddle A - Comm. No. 260	260 260	24	30	9

35'

102' #1

[illegible]

REMARKS: Tried to drill with air, lost returns altogether
Set 50' 8" plastic casing in 12 1/4" Bore hole. Drilled with
mud with 6 3/4" Drill Bit until water and gas were encountered

Driller

Driller Brian E. Burge

Tool Dresser

Meriden Oil

CPS #: 54-W WELL NAME: Riddle A Can 260 LOCATION: DATE: 8-16-90

TOTAL VOLTS: 12.5 TOTAL AMPS: 7.7 OHMS RESISTANCE: 1.62

Hole #2 of 5

												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			365			545			1	60	3.4	6.1
10			190			370			550			2	53	3.7	6.8
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45			225			405			585						
50	3.1	2	230			410			590						
55	2.9		235			415			595						
60	2.7	1	240			420			600						
65	2.0		245			425			605						
70	2.0	TD	250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS:

Set 47" of 8" PRC casing

CONSTRUCTION LOGGING READINGS

CPS #: 54-W WELL NAME: Riddle A cor² 260 LOCATION: N24-30-9 DATE: 8-17-90

TOTAL VOLTS: 12.46 TOTAL AMPS: 8.3 OHMS RESISTANCE: 1.5

Note #4 of 5

												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			365			545			1	58	2.8	5.2
10			190			370			550			2	50	3.8	6.8
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45	1.6		225			405			585						
50	2.9	2	230			410			590						
55	2.5		235			415			595						
60	2.0	1	240			420			600						
65	2.0		245			425			605						
70	6.6	7D	250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 45' of 8" PVC casing

CONSTRUCTION LOGGING READINGS

Meriden 011

CTS #: 54W WELL NAME: Riddle A com² 260 LOCATION: N24-30-9 DATE: 8-20-90

TOTAL VOLTS: 12.5 TOTAL AMPS: 7.0 OHMS RESISTANCE: 1.8

Hole # 5 at 5

												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			365			545			1	55	3.5	5.3
10			190			370			550			2	48	4.5	6.4
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45	1.2		225			405			585						
50	3.2		230			410			590						
55	2.6		235			415			595						
60	2.5		240			420			600						
65	62'	720	245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 45' of 8" PVC casing

Meriden 011

CPS #: 54-W WELL NAME: Riddle A Com #260 LOCATION: N24309 DATE: 8-17-90

TOTAL VOLTS: 12.4 TOTAL AMPS: 10.2 OHMS RESISTANCE: 1.2

Note # 3 of 5

												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			365			545			1	53	3.7	6.0
10			190			370			550			2	45	5.4	8.2
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40	3.5		220			400			580						
45	3.9	2	225			405			585						
50	3.1		230			410			590						
55	2.9	1	235			415			595						
60	2.6		240			420			600						
65	62'	TD	245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 40' of 8" PVC casing

BURGE CORROSION SYSTEMS, INC.

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

COMPANY MERIDIAN OIL DAILY DRILLING REPORT 8-20 19 90

WELL NAME: <u>Riddle A-Com</u>	WELL NUMBER: <u>260</u>	SECTION: <u>N 24</u>	TOWNSHIP: <u>30</u>	RANGE: <u>9</u>
WATER AT:		FEET:	HOLE MADE:	

DESCRIPTION OF FORMATION			
FROM	TO	FORMATION IS	COLOR
Well #1			
0	50'	8" PVC CASING (SAND-GRAVEL)	
50'	70'	shale	
70'	100'	SAND-GAS - ATTEMPTED TO CEMENT	
HAD TO DRILL CEMENT BACK TO 80' - B.J. HUGHES BACK TO SURFACE			
Well #2			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	70'	shale	
Well #3			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #4			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #5			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #6 - LOST DUE TO CASING SPLIT DUE TO GRAVEL			
(Well #7) 0 45' 8" PVC CASING (SAND-GRAVEL)			
45'	65'	shale	

REMARKS: Well #1 (ABANDONED - CEMENTED / REDRILLED / CEMENTED) DRILLED WITH MUD

Well #5 (LOST - DRILLED UP 1 ANODE & WIRE, DUE TO GRAVEL & SAND RUNNING)

REPLACED / RECOMPLETED) Well #6 (LOST DUE TO GRAVEL)

Driller Bruce E. Burge Tool Dresser

SET TWO ANODES IN 5 HOLES

TOTAL DAYS TO COMPLETE 7 days