

1208

E

B #1-A 30-045-23157  
B #10-E 30-045-26401  
B #224 30-045-27077

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

Operator MERIDIAN OIL Location: Unit SE Sec. 27 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced RIDDLE B #1A, #10E, #224

cps 1466w

Elevation 6037 Completion Date 9/22/80 Total Depth 265' Land Type\* N/A

Casing, Sizes, Types & Depths 80' OF 8" CASING, 84' OF 7" CASING + 21' OF 7" CASING (105' of 7" casing inside 80' of 8" casing.)

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. 60' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: 20 SACKS

Depths anodes placed: 225', 190', 183', 176', 169', 144', 138', 132', 126', 120'

Depths vent pipes placed: 265'

Vent pipe perforations: 225'

Remarks: gb #1 FIRST HOLE (320') CAVED.

**RECEIVED**  
MAY 31 1981  
**OIL CON. DIV.**  
**WELLS**

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)  10/6/80 (2" X 60" DURATION) Completion Date 9/22/80

Well Name Riddle R #1 A		Location SE 27-30-10				CPS No. 1466 W													
Type & Size Bit Used 6 3/4" 6 1/4"						Work Order No. 57478-21													
Anode Hole Depth 265' T.D. 265'		Total Drilling Rig Time		Total Lbs. Coke Used 20 SACKS		Lost Circulation Mat'l Used		No. Sacks Mud Used											
Anode Depth																			
# 1	225'	# 2	190'	# 3	183'	# 4	176'	# 5	169'	# 6	144'	# 7	138'	# 8	132'	# 9	126'	# 10	120'
Anode Output (Amps)																			
# 1	3.3	# 2	2.9	# 3	3.3	# 4	3.8	# 5	3.3	# 6	2.6	# 7	2.7	# 8	2.9	# 9	2.9	# 10	2.5
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 12.1		Amps 13.3		Ohms .91															

Remarks: STATIC 600' S = .81V INSULATED UNIONS CHECKED OK  
DRILLER SAID WATER AT 60' APPROX. 10 GAL/MIN. COULD NOT GET WATER SAMPLE.  
DRILLED 200' WITH AIR, HAD TO SWITCH TO MUD. DRILLED 320'. NOTE CAVED IN.  
MOVED TO OTHER SIDE OF LOCATION. SET 84' OF 7" PIPE CASING. (6 HR. RIG TIME)  
CABLE TOOL RIG SET 21' OF 7" PIPE CASING. CLEANED HOLE OUT WITH  
CABLE TOOL RIG. TO 265'. LOGGED 265'. INSTALLED 265' OF 1" P.V.C. VENT PIPE  
PERFORATED TO 225'.

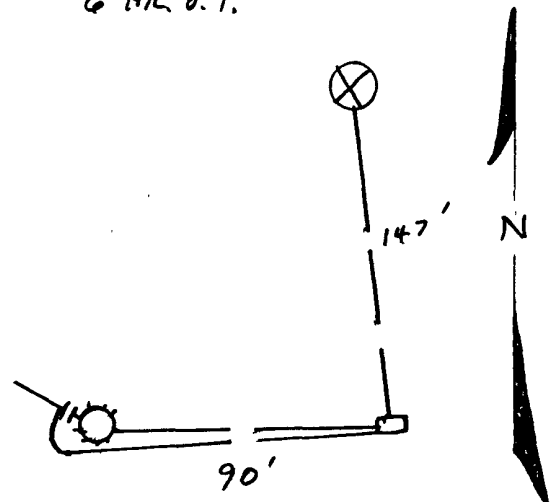
All Construction Completed

NOTE -  
CHANGED RECT.  
NOW 40-16

GROUND BED LAYOUT SKETCH

*JC Stotts*  
(Signature)

24 Hr. Rig. Time  
6 Hr. O.T.



- Ditch #1 cable = 237' ✓
- EXTRA cable = 120' ✓
- 60V 30A RECT. ✓
- 10' stub pole ✓
- Hole depth - 256' ✓
- (6 Hr. Rig Time setting casing) ✓
- 21' casing set by cable tool rig. ✓

CPS # 1466 W Riddle B #1-A

W.O. # 57478-21

LEASE WELL NO. CONTRACTOR 3-C Drilling RIG NO. #1 REPORT NO. DATE Sept 22 1980

MORNING					DAYLIGHT					EVENING				
Driller Brian		Total Men In Crew 3			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.
S											
SIZE	6 3/4	12"									
TYPE	DOWN ON KELLY				DOWN ON KELLY				DOWN ON KELLY		
MAKE	TOTAL DEPTH 265 TD. 265'			MAKE	TOTAL DEPTH			MAKE	TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	90	sand-rock-water 60'						
90	230	shale & bentonite & sand						
230	265	sand						

REMARKS - Had to set 80' plastic 8" pvc - 3 hours rig time. Had to set 84' of steel 7" casing in side - 3 hours rig time. Hole producing approx 10 gallons per minute. no water sample. total log depth 265', total hole depth 265'

SIGNED: Toolpusher Brian Barger Company Supervisor

Riddle B #1A

CPS #1466 W  
 SE 27-30-10

W.O. 57478-21

MW		gals/mol
16.04	C1	6.4
30.07	C2	10.12
44.10	C3	10.42
58.12	nC4	12.38
58.12	nC4	11.93
72.15	iC5	13.85
72.15	nC5	13.71
86.18	iC6	15.50
86.18	C6	15.57
100.21	iC7	17.2
100.21	C7	17.46
114.23	C8	19.39
28.05	C2	9.64
42.08	C3	9.67

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

80 -	3.4	
	3.0	
70 -	2.8	
	2.1	
100 -	1.4	CASED
	1.2	
10 -	1.1	
	1.1	
20 -	1.2	⑩
	1.5	
30 -	1.3	⑨
	1.3	⑧
40 -	1.6	⑦
	1.1	⑥
50 -	.9	
	.8	
60 -	.9	
	1.7	
70 -	2.4	⑤
	2.1	
80 -	1.7	④
	1.4	③
90 -	1.4	②
	1.2	
200 -	1.3	
	.7	
10 -	.8	
	1.1	
20 -	1.7	
	2.6	①
30 -	1.0	
	1.0	
40 -	1.0	
	.8	
50 -	.8	
	.8	
60 -	.8	

DRILLER SAID WATER AT 60', APPROX. 10 GAL./MIN. COULD NOT GET WATER SAMPLE. SAND & CLAY IN TOP OF HOLE HAD TO INJ. TO DRILL. DRILLED 200' WITH AIR, HAD TO SWITCH TO MUD. DRILLED 320'. LOGGED 297'. HOLE FELL IN AFTER 4' ANODE & VENT PIPE WERE IN HOLE. RETRIEVED ANODE & VENT PIPE MOVED TO OTHER SIDE OF LOCATION. SET 80' OF 8" P.V.C. SURFACE CASING (3 Hr. Rig Time) DRILLED 240'. HOLE FELL IN AT BOTTOM OF CASING. SET 84' OF 7" PIPE INSIDE OF 8" P.V.C. CASING. (3 Hr. Rig Time) CLEANED HOLE WITH 6 1/4" BIT TO 220'. LOGGED 205'. HAD TIGHT SPOT AT 130'. WENT BACK IN HOLE TO CLEAN TIGHT SPOT & CAME OUT, LOGGING ANODE STOPPED AT 156'. HOLE WAS FILLING IN. PUT CABLE TOOL RIG ON HOLE TO DRIVE CASING DOWN. DROVE 21' MORE 7" PIPE IN HOLE (TOTAL 105' OF 7" PIPE IN HOLE) CLEANED HOLE WITH CABLE TOOL RIG TO 265'. LOGGED. 265'

INSTALLED 265' OF 1" P.V.C. VENT PIPE PERFORATED 225'

1 -	225'	2.8	3.3
2 -	190'	1.6	2.9
3 -	183'	2.0	3.3
4 -	176'	2.7	3.8
5 -	169'	2.2	3.3
6 -	144'	1.8	2.6
7 -	138'	1.6	2.7
8 -	132'	1.5	2.9
9 -	126'	1.6	2.9
10 -	120'	1.3	2.5

12.1 V. 13.3 A. = .91 Ω

9/22/80

JS

265' DRILLED TO F.T.D.