

1208

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

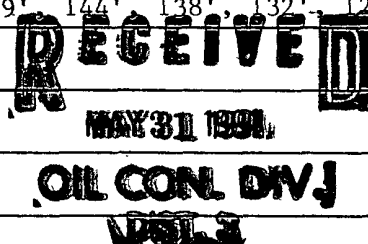
Type & amount of coke breeze used: 20 SACKS

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.



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 <u>Riddle R #1 A</u>		Location <u>SE 27-30-10</u>		CPS No. <u>1466 W</u>	
Type & Size Bit Used <u>6 1/4" 6 1/4"</u>				Work Order No. <u>57478-21</u>	
Anode Hole Depth <u>265' T.D. 265'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>20 SACKS</u>	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 <u>12.1</u>	Amps <u>13.3</u>	Ohms <u>.91</u>			

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'. NOLE 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 PP
PERFORATED TO 225'.

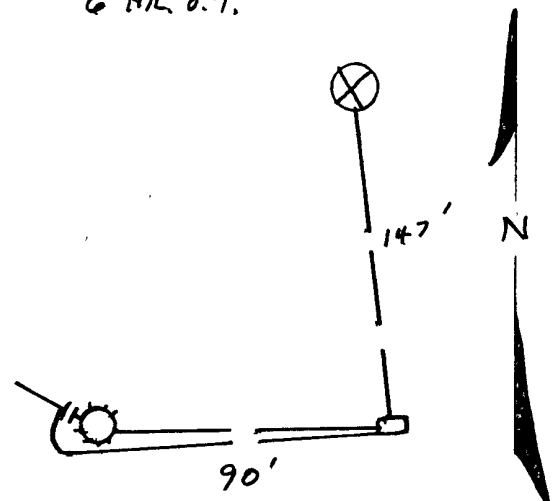
All Construction Completed

NOTE -
CHANGED RECT.
NOW 40-16

GROUND BED LAYOUT SKETCH

jc [Signature]
(Signature)
24 Hr. Ry. 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 23 1988

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 L NO.		STANDS		SERIAL NO.		STANDS		SERIAL NO.		STANDS		SERIAL NO.		STANDS
SIZE 6 3/4 x 12"		SINGLES 23 1/2		SIZE		SINGLES		SIZE		SINGLES		SIZE		SINGLES
TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY
MAKE		TOTAL DEPTH 265' TO 265'		MAKE		TOTAL DEPTH		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.			

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 -	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'.	REMARKS -

SIGNED: Toolpusher

Brian Barger

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

CPS 1466 W
SE 27-30-10

W.O. 57478-21

Riddle B²/A

MW		gals/mol
16.04	C ₁	6.4
30.07	C ₂	10.12
44.10	C ₃	10.42
58.12	iC ₄	12.38
58.12	nC ₄	11.93
72.15	iC ₅	13.85
72.15	nC ₅	13.71
86.18	iC ₆	15.50
86.18	C ₆	15.57
100.21	iC ₇	17.2
100.21	C ₇	17.46
114.23	C ₈	19.39
28.05	C ₂	9.64
42.08	C ₃	9.67

MW	MISC	gals/mol
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

80-	3.4	
	3.0	
90-	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	

265 Drilled to F.T.D.

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

$$12.1 \text{ V. } 13.3 \text{ A.} = .91 \Omega$$

9/22/80

js