

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

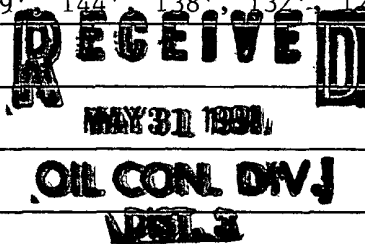
Type & amount of coke breeze used: 20 SACKS

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 24}

(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 <u>225'</u>	# 2 <u>190'</u>	# 3 <u>183'</u>	# 4 <u>176'</u>	# 5 <u>169'</u>	# 6 <u>144'</u>
# 7 <u>138'</u>	# 8 <u>132'</u>	# 9 <u>126'</u>	# 10 <u>120'</u>		
Anode Output (Amps)					
# 1 <u>3.3</u>	# 2 <u>2.9</u>	# 3 <u>3.3</u>	# 4 <u>3.8</u>	# 5 <u>3.3</u>	# 6 <u>2.6</u>
# 7 <u>2.7</u>	# 8 <u>2.9</u>	# 9 <u>2.9</u>	# 10 <u>2.5</u>		
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'. NO LE 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'.

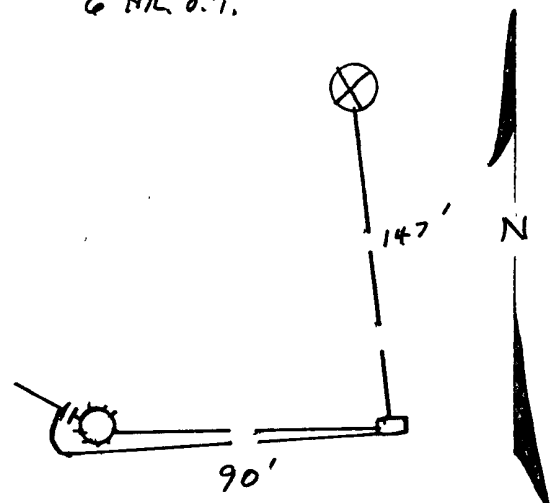
All Construction Completed

NOTE -
CHANGED RECT.
NOW 40-16

GROUND BED LAYOUT SKETCH

(Signature)
24 Hr. Ry. Time
6 Hr. O.T.

PITCH 41 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. _____
 S L NO. _____ NO. DC _____ SIZE *4 1/2* LENG. *20*
 SIZE *6 3/4 x 12"* STANDS _____
 TYPE _____ SINGLES *23 1/2*
 MAKE _____ DOWN ON KELLY
 TOTAL DEPTH *265' TD. 265'*

BIT NO. _____ NO. DC _____ SIZE _____ LENG. _____
 SERIAL NO. _____ NO. DC _____ SIZE _____ LENG. _____
 STANDS _____
 SIZE _____ SINGLES _____
 TYPE _____ DOWN ON KELLY
 MAKE _____ TOTAL DEPTH _____

BIT NO. _____ NO. DC _____ SIZE _____ LENG. _____
 SERIAL NO. _____ NO. DC _____ SIZE _____ LENG. _____
 STANDS _____
 SIZE _____ SINGLES _____
 TYPE _____ DOWN ON KELLY
 MAKE _____ TOTAL DEPTH _____

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

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

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

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

FROM	TO	TIME BREAKDOWN

FROM	TO	TIME BREAKDOWN

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

Riddle B²/A

SE 27-30-10

W.O. 57478-21

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
1.8
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 V. 13.3 A. = .91 Ω

9/22/80

JS