

1207

#3-A 30-045-23167
#6 30-045-20773
#11 30-045-11593

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

Operator MERIDIAN OIL Location: Unit NW Sec. 23 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced RIDDLE B #3A, #6, #11

cps 1467w

Elevation 6321 Completion Date 9/11/80 Total Depth 460' 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. 80' & 220'

Depths gas encountered: N/A

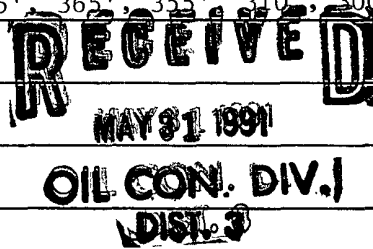
Type & amount of coke breeze used: 55 SACKS

Depths anodes placed: 415', 405', 395', 385', 375', 365', 355', 310', 300', 290'

Depths vent pipes placed: 455'

Vent pipe perforations: 380'

Remarks: gb #1



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) ☐ #11

(2" X 60" Durion)

Completion Date 9/11/80

Well Name <u>Riddle B #3A</u> <u>Riddle B #6</u>		Location <u>NW 23-30-10</u>		CPS No. <u>1467 W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57475-21</u> <u>54851-19</u>	
Anode Hole Depth <u>460' T.O. 455'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>55 SACKS</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 <u>415'</u>	# 2 <u>405'</u>	# 3 <u>395'</u>	# 4 <u>385'</u>	# 5 <u>375'</u>
Anode Output (Amps)	# 1 <u>2.7</u>	# 2 <u>3.0</u>	# 3 <u>3.1</u>	# 4 <u>3.8</u>	# 5 <u>3.7</u>
Anode Depth	# 6 <u>365'</u>	# 7 <u>355'</u>	# 8 <u>310'</u>	# 9 <u>300'</u>	# 10 <u>290'</u>
Anode Output (Amps)	# 6 <u>2.0</u>	# 7 <u>2.9</u>	# 8 <u>3.7</u>	# 9 <u>3.4</u>	# 10 <u>3.5</u>
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts <u>12.2</u>		Amps <u>17.2</u>		Ohms <u>.71</u>
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			

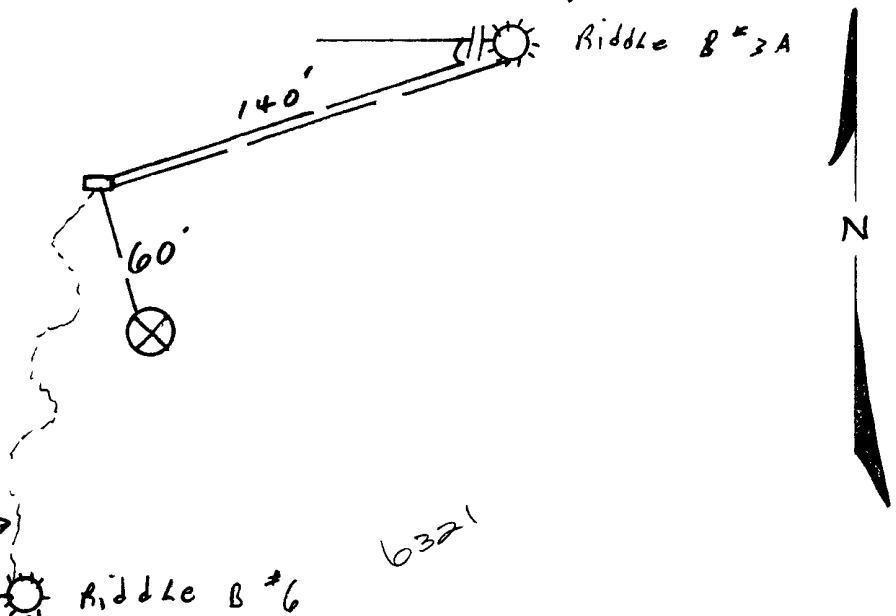
Remarks: STATIC ON Riddle B #3A 600' S = .84V INSULATED UNION OK
Riddle B #6 HAS BOND BOX #57-B INSULATED UNION OK
DRILLER SAID WATER AT 80'. APPROX. 4 GAL/MIN. HAD TO INS. TO GET THROUGH
SURFACE SAND. COULD NOT GET WATER SAMPLE. HIT MORE WATER AT 22'
DRILLED TO 460'. LOGGED 455'. INSTALLED 455' OF 1" P.V.C. VENT
PIPE, PERFORATED 380'.

DITCH + 1 CABLE = 200'
EXTRA CABLE = 170'
10' STUB POLE ✓
60V 30A RECT. ✓
HOLE DEPTH - 45' ✓

All Construction Completed

JE Stallo
(Signature)

GROUND BED LAYOUT SKETCH B-3A 4 Sln Reg. + Sln. O.T.
 B-6 4 Sln Reg. 1 Sln. O.T.



CPS# 1467W Riddle B#3-A & B#6

W.O.#'s 57475-21 ~~154851-19~~

DAILY DRILLING REPORT

LEASE WELL NO. CONTRACTOR 3-C Drilling RIG NO. #1 REPORT NO. DATE SEPT. 11 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.		
SER. NO. 634		NO. DC SIZE 4 1/2 LENG. 20'			SER. NO.		NO. DC SIZE LENG.			SER. NO.		NO. DC SIZE LENG.		
SIZE		STANDS			SIZE		STANDS			SIZE		STANDS		
TYPE rock		SINGLES 23			TYPE		SINGLES			TYPE		SINGLES		
MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY		
		TOTAL DEPTH 460' 455' T.D.					TOTAL DEPTH					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	80	blow sand - water 35 gpm			300	460	shale							
80	100	sand & shale												
100	120	shale												
120	160	sand												
160	180	sand & shale												
180	300	sand & bentonite												
REMARKS -					REMARKS - drilled to 40' on the 10th had to inject next A.M. waited on water at 100' had water approx 3-5 gallons per minute. hit another water zone at 220' making approx 35 gallons per min. Total shale depth 460' Total log depth 455'					REMARKS -				

SIGNED: Toolpusher Brian Burge Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

Riddle B * 3-A
Riddle B * 6

Q.P.S. 1467 W
NW 23-30-10

W.O. 57475-21
54851-19

MW	gals/mol
16.04	C ₁ 6.4
30.07	C ₂ 10.12
44.10	C ₃ 10.42
58.12	C ₄ 12.38
58.12	nC ₄ 11.93
72.15	C ₅ 13.85
72.15	nC ₅ 13.71
86.18	C ₆ 15.50
86.18	C ₆ 15.57
100.21	C 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

10 -	250 - .9	Driller said water at 80',
	1.0	Approx. 4 gal./min. HAD To
20 -	70 - 1.2	Inject. To get Through
	1.6	Surface SAND. Could not get
100 -	80 - 2.2	Water Sample. Hit more
	- 2.4	Water at 220'. Drilled To
10 -	90 - 2.5 - ⑩	460'. Logged 455'. Installed
	- 2.3	455' of 1" P.V.C VENT pipe
20 -	200 - 2.4 - ⑨	Perforated 380'.
	- 2.6 W	
20 -	10 - 2.2 - ⑧	
	- 2.1 W	
40 -	20 - 1.7	12.2 V 17.2 A = .71 R
	1.2	9/11/80
50 -	30 - 1.2	jl
	1.1	
60 -	40 - .9	
	1.4	
70 -	50 - 1.9	
	2.0 - ⑦	
80 -	60 - 1.9	
	- 2.2 - ⑥	
90 -	70 - 2.5	
	2.6 - ⑤	
200 -	80 - 2.3	1 - 415' - 2.4 - 2.7
	2.5 - ④	2 - 405' - 2.7 - 3.0
10 -	90 - 2.2	3 - 395' - 2.6 - 3.1
	- 2.1 - ③	4 - 385' - 2.8 - 3.8
20 - .7	400 - 1.7	5 - 375' - 3.0 - 3.7
	2.2 - ②	6 - 365' - 2.5 - 3.0
30 - .9	10 - 2.3	7 - 355' - 2.3 - 2.9
	2.0 - ①	8 - 310' - 2.2 - 2.7
40 - .9	20 - 1.9	9 - 300' - 2.9 - 3.4
	- 1.9	10 - 290' - 3.2 - 3.5
50 - .9	30 - 1.7	
	1.5	
	40 - 1.4	
	1.6	
	50 - 1.6	
	455 - T.D.	
	60 - Drilled T.	

#1 30-045-09385

#200 30-045-27076

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 NE Sec. 22 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced KING #1, #200

cps 2077w

Elevation 6321' Completion Date 2/17/69 Total Depth 570' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 8140 lbs.

Depths anodes placed: 532', 526', 520', 482', 449', 443', 437', 322', 316', 310'

Depths vent pipes placed: 526'

Vent pipe perforations: 526'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. 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

Drilling Log (Attach Hereto). ☒

Completion Date 2-17-69

Well Name <u>King #1 #200</u>		Location <u>NE 22-30-10</u>		CPS No. <u>815W 2077</u>	
Type & Size Bit Used <u>7 7/8 61014-275, FFS10 295-4 3/4 #404=190</u>		Work Order No. <u>184-90092-50-20-24</u>			
Anode Hole Depth <u>570</u>	Total Drilling Rig Time <u>44 Hrs</u>	Total Lbs. Coke Used <u>8140</u>	Lost Circulation Mat'l Used <u>0</u>	No. Sacks Mud Used <u>0</u>	
Anode Depth					
# 1 <u>532</u>	# 2 <u>526</u>	# 3 <u>520</u>	# 4 <u>482</u>	# 5 <u>449</u>	# 6 <u>443</u>
# 7 <u>437</u>	# 8 <u>322</u>	# 9 <u>316</u>	# 10 <u>310</u>		
Anode Output (Amps)					
# 1 <u>3.8</u>	# 2 <u>3.9</u>	# 3 <u>3.6</u>	# 4 <u>3.5</u>	# 5 <u>4.2</u>	# 6 <u>5.4</u>
# 7 <u>5.3</u>	# 8 <u>4.5</u>	# 9 <u>5.5</u>	# 10 <u>5.8</u>		
Anode Depth					
# 11 <u>304</u>	# 12 <u>298</u>	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11 <u>5.5</u>	# 12 <u>5.0</u>	# 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>12.2</u>	Amps <u>18.0</u>	Ohms <u>0.68</u>	<u>5596</u>	<u>0</u>	

Remarks:

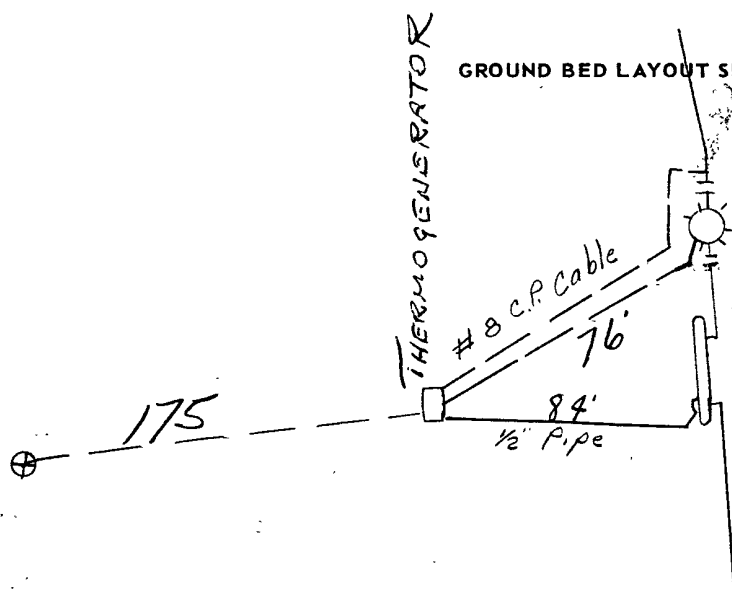
Static 0.84

Note Anodes 4, 5, 6 & 8 spliced about 4' From Anode (Tail 3/4" Hose to No 2 Anode - Perforated - Complete 50 lbs Borafos circ. thru. Hole after Thin Down

All Construction Completed

Asuelo
(Signature)

GROUND BED LAYOUT SKETCH



60321

Consent # 404 (190/11)

LEASE										WELL NO. 1915 W										CONTRACTOR Monarch Coal Co.										RIG NO. 146										REPORT NO.										DATE																			
MORNING										DAYLIGHT										EVENING																																																	
Driller										Driller										Driller																																																	
FROM										TO										FORMATION										WT. BIT										R.P.M.										Total Men In Crew																			
0										80										Sand / S. shale										280										500										Shale																			
80										105										Shale										300										310										SS																			
105										140										SS + Gravel / sh										310										330										Shale																			
140										280										Shale + ss sh										330										370										SS																			
BIT NO.										NO. DC										SIZE										LENG.										NO. DC										SIZE										LENG.									
1210																																																																					
SERIAL NO.										NO. DC										SIZE										LENG.										NO. DC										SIZE										LENG.									
45" (5 ft)																																																																					
SIZE										STANDS										SINGLES										DOWN ON KELLY										TOTAL DEPTH										MUD, ADDITIVES USED AND RECEIVED																			
TYPE										DOWN ON KELLY										DOWN ON KELLY										DOWN ON KELLY										DOWN ON KELLY										DOWN ON KELLY																			
MAKE										TOTAL DEPTH										TOTAL DEPTH										TOTAL DEPTH										TOTAL DEPTH										TOTAL DEPTH																			
MUD RECORD										MUD RECORD										MUD RECORD										MUD RECORD										MUD RECORD										MUD RECORD																			
Time										Time										Time										Time										Time										Time																			
Vis.										Vis.										Vis.										Vis.										Vis.										Vis.																			
30 lb Barite																																																																					
FROM										TO										FORMATION										WT. BIT										R.P.M.										Total Men In Crew																			
2-12-69										2-12-69										2-12-69										2-12-69										2-12-69										2-12-69																			
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REMARKS										REMARKS										REMARKS										REMARKS										REMARKS										REMARKS																			
2-12-69. Left job with rig 7 AM. Arrived 8 AM. 9 AM. Drilled 195 ft. 4 1/2" hole with air. First returns at 195 ft. 7 1/2" bit with water. Planned to 60 ft. Left rig 4 PM.										2-13-69. Left job 6 AM. Arrived 7 AM. Pumped pump & started running at 60 ft. Cleared to 275 ft. Left rig 5:30 PM.										2-14-69. Left job 6 AM. Arrived 7 AM. Changed out pump & pump & pump. Drilled 195 ft. 4 1/2" hole at 10 AM. Drilled from 275 ft to 370 ft. Left rig 5 PM.										2-15-69. Left job 6 AM. Arrived 7 AM. Drilled 195 ft. 4 1/2" hole at 10 AM. Drilled from 370 ft to 590 ft. Left rig 7 PM.										2-17-69. Left job 6 AM. Arrived 7 AM. Drilled 195 ft. 4 1/2" hole at 10 AM. Drilled from 590 ft to 740 ft. Left rig 1 PM.																													

SIGNED: Toolpusher
Company Supervisor
B. J. Jaramila