

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 10Name 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/ACasing, Sizes, Types & Depths N/AIf 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/AType & amount of coke breeze used: 55 SACKSDepths anodes placed: 415', 405', 395', 385', 375', 365', 355', 340', 300', 290'Depths vent pipes placed: 455'Vent pipe perforations: 380'Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
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) ☐ #11

(2" X 60" Durion)

Completion Date 9/11/80

Well Name Riddle B #3A Riddle B #6		Location NW 23-30-10		CPS No. 1467 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57475-21 54851-19	
Anode Hole Depth 460' TO 455'	Total Drilling Rig Time	Total Lbs. Coke Used 55 JACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 415'	# 2 405'	# 3 395'	# 4 385'	# 5 375'	# 6 365'
# 7 355'	# 8 310'	# 9 200'	# 10 290'		
Anode Output (Amps)					
# 1 2.7	# 2 3.0	# 3 3.1	# 4 3.8	# 5 3.7	# 6 2.0
# 7 2.9	# 8 3.7	# 9 3.4	# 10 3.5		
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					
Volts 12.2	Amps 17.2	Ohms .71			
			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

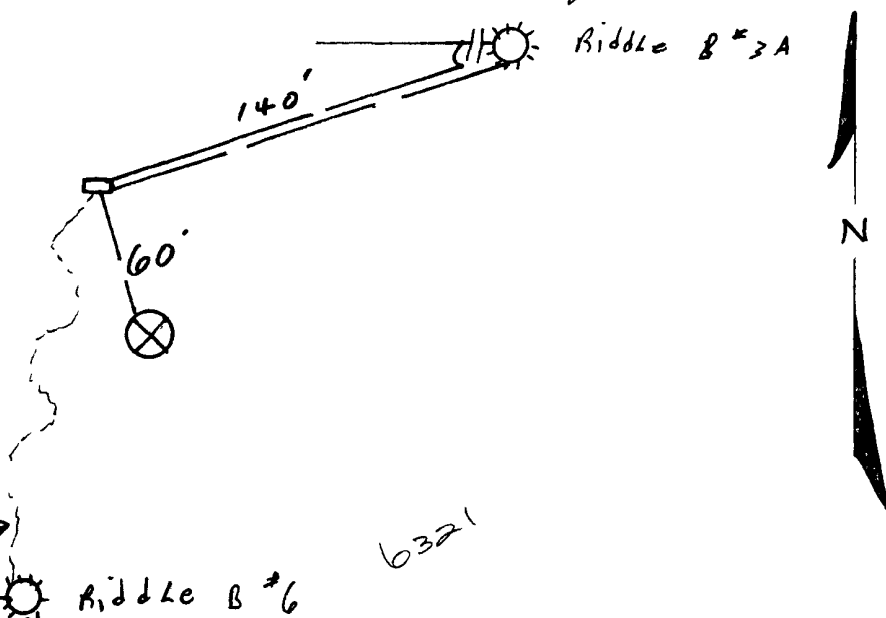
Remarks: STATIC ON Riddle B #3A 600'S = .84V INSULATED UNION OK
Riddle B #6 HAS BOND BOX #57-B INSULATED UNION OK
DRILLER SAID WATER AT 80'. APPROX. 4 GAL/MIN. HAD TO INS. TO GET THROUGH
SURFACE SAND. COULD NOT GET WATER SAMPLE. HIT MORE WATER AT 22'
DRILLED TO 460'. LOGGED 455'. INSTALLED 455' OF 1"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

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



EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

CPS# 1467W

Riddle B#3-A & B#6

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

DAILY DRILLING REPORT

LEASE

WELL NO.

CONTRACTOR

3-C

Drilling

RIG NO. #1

REPORT NO.

DATE SEPT. 11

1980

MORNING

DAYLIGHT

EVENING

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			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	140	sand												
140	160	sand & shale												
160	180	sand & bentonite												
REMARKS -					REMARKS - drilled to 40' on the 10th					REMARKS -				
					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 choke depth 460'									
					Total log depth 455'									

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

G.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	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

10 -	250 - .9	Driller said WATER AT 80',
	1.0	Approx. 4 gal./min. HAD To
90 -	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 A
	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
.9	2.2 - ②	6 - 365' - 2.5 - 3.0
30 - .9	10 - 2.3	7 - 355' - 2.3 - 2.9
.9	2.0 - ①	8 - 310' - 2.2 - 2.7
40 - .9	20 - 1.9	9 - 300' - 2.9 - 3.4
.9	- 1.9	10 - 290' - 3.2 - 3.5
50 - .9	30 - 1.7	
.9	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.

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*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 1/8 61014-275, FFS10 295-4 3/4 #404-190</u>		Work Order No. <u>184-90092-58-28-24</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>	

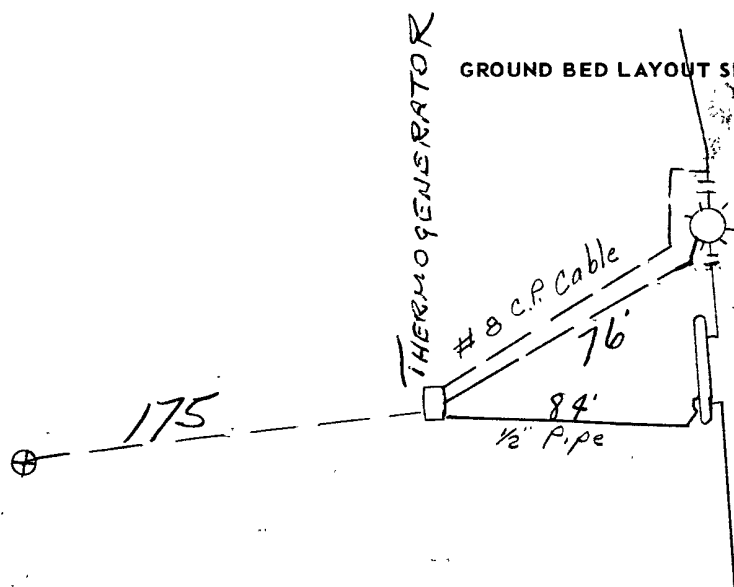
Remarks: Static 0.84

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

Amels
(Signature)

GROUND BED LAYOUT SKETCH



6321

DAILY DRILLING REPORT

Drum # 404 (190 ft)

LEASE: WELL NO. 815 W. CONTRACTOR: Murdoch Const. Co. RIG NO. 146 REPORT NO. DATE: 19

MORNING										DAYLIGHT										EVENING									
Driller					Total Men In Crew					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.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.					
0	80	Shale / S shale			280	300	Shale																						
80	105	Shale			300	310	SS																						
105	140	SS + Brown shale			310	330	Shale																						
140	280	Shale + SS shale			330	570	SS																						
BIT NO.					NO. DC					NO. DC					NO. DC					NO. DC					NO. DC				
					SIZE					SIZE					SIZE					SIZE					SIZE				
					STANDS					STANDS					STANDS					STANDS					STANDS				
SERIAL NO.					SINGLES					SINGLES					SINGLES					SINGLES					SINGLES				
SIZE					DOWN ON KELLY					DOWN ON KELLY					DOWN ON KELLY					DOWN ON KELLY					DOWN ON KELLY				
TYPE					TOTAL DEPTH					TOTAL DEPTH					TOTAL DEPTH					TOTAL DEPTH					TOTAL DEPTH				
MAKE					MUD, ADDITIVES USED AND RECEIVED					MUD, ADDITIVES USED AND RECEIVED					MUD, ADDITIVES USED AND RECEIVED					MUD, ADDITIVES USED AND RECEIVED					MUD, ADDITIVES USED AND RECEIVED				
MUD RECORD					TIME					TIME					TIME					TIME					TIME				
					Vis.					Vis.					Vis.					Vis.					Vis.				