

E

763

1A-30-045-21727

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. 13 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced PIERCE A #1A

cps 1078w

Elevation 6374' Completion Date 5/20/77 Total Depth 500' 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. 250'

Depths gas encountered: N/A

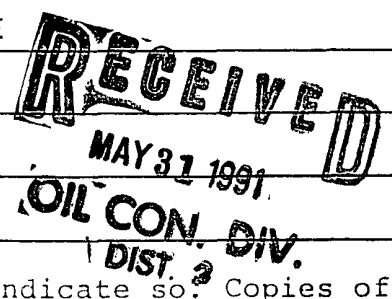
Type & amount of coke breeze used: 71 SACKS

Depths anodes placed: 500', 490', 480', 470', 445', 435', 315', 405', 375', 290'

Depths vent pipes placed: 500' OF 1" PVC VENT PIPE

Vent pipe perforations: 400'

Remarks: qb #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

Handwritten: HWT File

Handwritten: logged

Drilling Log (Attach Hereto). ☐

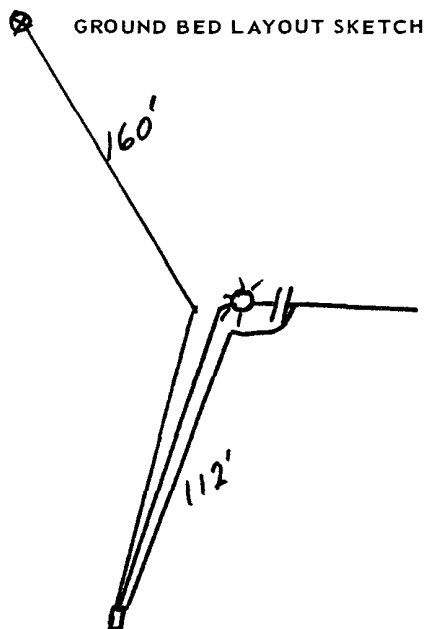
Completion Date 5/20/77

Well Name Pierce A #1A		Location SE-13-30-10		CPS No. 1078 W																																																					
Type & Size Bit Used 6 3/4"				Work Order No. 52039-19-50-20																																																					
Anode Hole Depth 560' X 551'	Total Drilling Rig Time	Total Lbs. Coke Used 71 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used																																																					
<table border="1"> <tr> <td colspan="2">Anode Depth</td> <td colspan="2">Anode Output (Amps)</td> <td colspan="2">Anode Depth</td> <td colspan="2">Anode Output (Amps)</td> </tr> <tr> <td># 1 500'</td> <td># 2 490'</td> <td># 3 480'</td> <td># 4 470'</td> <td># 5 445'</td> <td># 6 435'</td> <td># 7 415'</td> <td># 8 405'</td> </tr> <tr> <td># 1 4.7</td> <td># 2 6.7</td> <td># 3 5.5</td> <td># 4 4.3</td> <td># 5 3.4</td> <td># 6 4.7</td> <td># 7 4.2</td> <td># 8 4.3</td> </tr> <tr> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> </tr> <tr> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> </tr> <tr> <td colspan="2">Total Circuit Resistance</td> <td colspan="2">No. 8 C.P. Cable Used</td> <td colspan="2">No. 2 C.P. Cable Used</td> </tr> <tr> <td>Volts 11.46V</td> <td>Amps 22.0A</td> <td>Ohms .52 Ω</td> <td colspan="2"></td> <td></td> </tr> </table>						Anode Depth		Anode Output (Amps)		Anode Depth		Anode Output (Amps)		# 1 500'	# 2 490'	# 3 480'	# 4 470'	# 5 445'	# 6 435'	# 7 415'	# 8 405'	# 1 4.7	# 2 6.7	# 3 5.5	# 4 4.3	# 5 3.4	# 6 4.7	# 7 4.2	# 8 4.3	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		Volts 11.46V	Amps 22.0A	Ohms .52 Ω			
Anode Depth		Anode Output (Amps)		Anode Depth		Anode Output (Amps)																																																			
# 1 500'	# 2 490'	# 3 480'	# 4 470'	# 5 445'	# 6 435'	# 7 415'	# 8 405'																																																		
# 1 4.7	# 2 6.7	# 3 5.5	# 4 4.3	# 5 3.4	# 6 4.7	# 7 4.2	# 8 4.3																																																		
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18																																																		
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18																																																		
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used																																																					
Volts 11.46V	Amps 22.0A	Ohms .52 Ω																																																							

Remarks: Driller SAID moisture AT 80', good water AT 250'. Drilled To 500', started injecting AT 250. WATER standing in Hole AT 245' NEXT A.M. Logged Hole, logging Anode stopped AT #51', Did NOT HAVE enough Hole. Drilled To 560', Hole CAVED To 551' T.D. INSTALLED 500' of 1" P.V.C. VENT pipe, perforated 400'. Slurried 71 sacks of coke.

All Construction Completed

Handwritten Signature
(Signature)



Handwritten: 6374

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet. _____ of _____
Date. _____
By. _____
File. _____

CPS-1028W

Pierce A #1A

SE-13-30-10

N.D.²

57039-19-50-20

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

30 — —			
40 — —			
245 — .7	50 — 1.6	— 1.6	
250 — .6	151' — T.D.	1.5	
60 — .6	60 —	1.5	
70 — .6	70 —	2.0	
70 — .9	70 —	2.2	
70 — 1.6	80 —	2.2	
80 — 1.9 1.4	80 —	2.4	
80 — 1.6 — 1.3	90 —	2.6	
90 — 1.6 1.4	90 —	2.7	
90 — 1.6 — 1.5	500 —	2.7	
900 — 1.2 1.2	500 —	2.2	
10 — .6 .8		1.6	
10 — .6 — .6	10 —	1.5	
20 — .7 .7	20 —	1.4	Driller said moisture
20 — .6 — .7	20 —	1.3	AT 80' good water
30 — .6 .6	30 —	1.2	AT 250' water
30 — .9 — .8	30 —	1.2	standing in hole next
40 — .7 .8	40 —	.9	A.M. AT 245'
40 — .8 — .7	40 —	1.0	Drilled to 500' hole
50 — .8 .8	50 —	1.2	caved to 451' logged
50 — .6 — .6	50 —	551' — T.D.	hole, not enough.
60 — .7 .7	60 —	Drilled	
60 — .8 — .8			
70 — .9 .8			
70 — 1.7 — 1.3			
80 — 1.4 — 1.7			
80 — 1.0 — 1.2			
90 — .7 .9			
90 — .6 — .7			
400 — .2 .4			
400 — 1.6 — .2			
10 — 2.1 2.0			
10 — 1.8 — 1.7			
20 — 1.8 1.8			
20 — 1.3 — 1.6			
30 — 1.4 1.3			
30 — 2.0 — 1.6			
40 — 1.9 1.9			
40 — 1.9 — 1.8			
40 — 1.7 1.9			
	1 = 500 — 2.6 — 4.7		
	2 = 490 — 3.5 — 6.7		
	3 = 480 — 3.0 — 5.5		
	4 = 470 — 2.6 — 4.3		
	5 = 445 — 2.2 — 3.4		
	6 = 435 — 2.4 — 4.7		
	7 = 415 — 2.2 — 4.2		
	8 = 405 — 2.5 — 4.3		
	9 = 375 — 2.2 — 3.6		
	10 = 290 — 2.0 — 3.8		
	22.0 A		
	11.46		
	52 R		

DAILY DRILLING REPORT

LEASE			WELL NO. 1078 W			CONTRACTOR Posey			RIG NO.			REPORT NO.			DATE 5-19			19 77									
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.		STANDS		SINGLES		TYPE		DOWN ON KELLY		MAKE		TOTAL DEPTH		SER. NO.		STANDS		SINGLES		TYPE		DOWN ON KELLY		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.													
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN													
0	25	Surface				125	150	Sand				270	275	Sand													
25	65	Soft Sandstone				150	160	Shale				275	340	Shale													
65	75	Sand Wet				160	175	Wet Sand				340	350	Sand													
75	90	Shale				175	205	Shale				350	375	Shale													
90	115	Wet Sand				205	245	Wet Sand (Injected Water)				375	425	Sand													
115	125	Shale				245	270	Shale				425	460	Sandy Shale													
REMARKS -						REMARKS -						REMARKS -															
												460-485 Shale															
												485-525 Sandy Shale															
												525-560 Sand															

SIGNED: Toolpusher

____ Company Supervisor