

2684

#64 30-039-07032

E

#168 30-039-20480

#197 30-039-20957

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 14 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #64, #168, #197

cps 1299w

Elevation 6471' Completion Date 7/29/87 Total Depth 440' 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. 170' & 280' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 412', 404', 396', 390', 382', 285', 253', 243', 240', 225', 215', 205'Depths vent pipes placed: 430'Vent pipe perforations: 260'Remarks: gb #2**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.

2685

E

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 14 Twp 27 Rng 6Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #64, #168, #197

cps 1299w

Elevation 6471 Completion Date 8/29/78 Total Depth 480' 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. 170' & 280'Depths gas encountered: N/AType & amount of coke breeze used: 64 SACKSDepths anodes placed: 430', 420', 410', 395', 385', 255', 245', 235', 210', 200'Depths vent pipes placed: 440'Vent pipe perforations: 330'Remarks: gb #1**RECEIVED**
MAY 31 1991
OIL CON. DIV. I
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.

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If Federal or Indian, add Lease Number.

1299 W	S.J. 28-6 # 64 (M) Prop. 71-43901	☐ Good ☐ Bad								
	" " # 168 (N) 87-44001									
	" " # 197 (L) 89-14801									
Location: SW 14-27-6	Anode Size: 2" X 60"	Anode Type: DUTION	Size Bit: 6 3/4"							
Depth Drilled: 440'	Depth Logged: 430	Drilling Rig Time	Total Lbs. Coke Used	Loss Circulation Mat'l Used	No. Sacks Mud Used					
Anode Depth	# 1 412	# 2 404	# 3 396	# 4 390	# 5 382	# 6 285	# 7 255	# 8 248	# 9 240	# 10 225
Anode Output (Amps)	# 1 2.1	# 2 2.2	# 3 2.5	# 4 2.5	# 5 2.6	# 6 1.9	# 7 2.5	# 8 3.7	# 9 3.8	# 10 2.0
Anode Depth	# 11 215	# 12 205	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)	# 11 2.1	# 12 2.5	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	Volts 12.0 V Amps 12.4 A Ohms .97					No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		

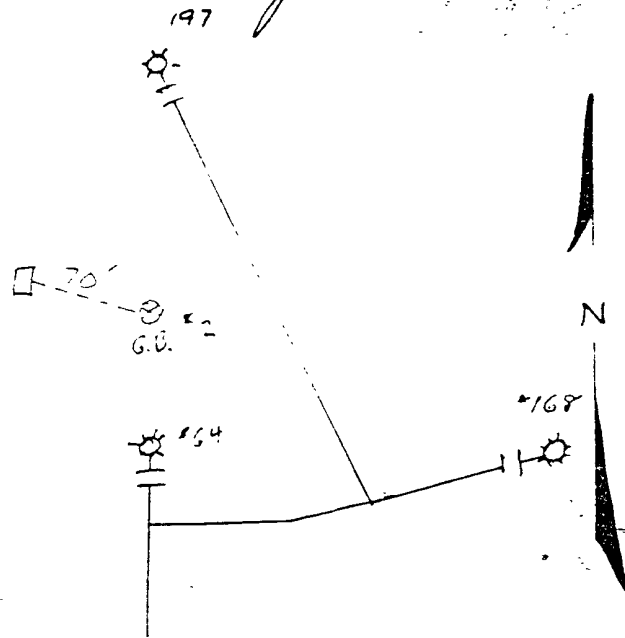
Remarks: HIT WATER AT 180'. (TOOK WATER SAMPLE) HIT LOTS OF WATER AT 300'. INSTALLED 430' of VENT pipe (1" P.V.C.) Perforated 260'.

G.B. \$4300.00 ✓
 Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: -70'
 Extra Cable: 440'
 Ditch & 1 Cable: 70'
 Ditch & 2 Cable: _____
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1
 2 EXTRA ANODES

(EXTRA ANODE LEAD WIRE + HOOKS UP ALL CONSTRUCTION COMPLETED WIRE)
 280.00 ✓
 110.00 ✓
 27.30 ✓

40.00 ✓
 139.50 ✓
 G.B. + 1
 4336.80

TAX 216.84
 TOTAL \$4553.64 ✓



6471

CDS 12994

COMPANY Meridian Oil DAILY DRILLING REPORT _____ 19____

DESCRIPTION OF FORMATION

REMARKS: _____

Tool Dresser

BURGL CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

DEEP WELL GROUND BED LOG

Date 7/29/87

Company CPS 1299 W Meridian Co.

Well No. 5J-28-6 Location SW 14-27-6 Volts Applied 12.0 V Amperes 12.4 A

5		230	.7	455		680	
10		235	.8	460		685	
15		240	1.5 - (6)	465		690	
20		245	1.6 - (6)	470		695	
25		250	1.2 - (6)	475		700	
30		255	1.1 - (7)	480		705	
35		260	.5	485		710	
40		265	.4	490		715	
45		270	.4	495		720	
50		275	.4	500		725	
55		280	.4	505		730	
60		285	1.0 - (6)	510		735	1-412-1.1-2.1
65		290	.7	515		740	2-404-1.1-2.2
70		295	.5	520		745	3-398-1.3-2.5
75		300	.5	525		750	4-390-1.5-2.5
80		305	.4	530		755	5-382-1.4-2.6
85		310	.5	535		760	6-285-1.0-1.9
90		315	.5	540		765	7-285-1.2-2.5
95		320	.5	545		770	8-248-1.7-3.7
100		325	.5	550		775	9-440-1.8-3.8
105		330	.7	555		780	10-225-1.0-2.0
110		335	.5	560		785	11-215-1.0-2.1
115		340	.5	565		790	12-205-1.4-2.5
120		345	.4	570		795	
125		350	.5	575		800	
130		355	.5	580		805	
135		360	.4	585		810	
140		365	.5	590		815	
145		370	.5	595		820	
150		375	.6	600		825	
155		380	1.1	605		830	
160		385	1.2 - (5)	610		835	
165		390	1.3 - (4)	615		840	
170		395	1.2 - (3)	620		845	
175		400	1.0	625		850	
180	Water	405	1.0 - (2)	630		855	
185	.6	410	1.0	635		860	
190	.7	415	1.0 - (1)	640		865	
195	.8	420	1.0	645		870	
200	.7	425	.9	650		875	
205	.9 - (12)	430	T.D.	655		880	
210	1.0	435		660		885	
215	.9 - (11)	440	Drilled to	665		890	
220	.8	445		670		895	
225	.8 - (10)	450		675		900	

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-9354 Date 11-8-78

Operator _____ Well Name San Juan 28-6 #64, 168, 197

Location SW 14-27-6 County _____ State _____

Field _____ Formation _____

Sampled From C.P.S. 1298 W WTR @ 170' 280' 256 P.H.

Date Sampled _____ By T.D. - 250

Tbg. Press.	Csg. Press.	Surface	Csg. Press.
ppm	epm	ppm	epm

Sodium	<u>331</u>	<u>14</u>	Chloride	<u>12</u>	<u>.3</u>
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Calcium	<u>9</u>	<u>.5</u>	Bicarbonate	<u>503</u>	<u>8</u>
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Magnesium	<u>2</u>	<u>.2</u>	Sulfate	<u>287</u>	<u>6</u>
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Iron	<u>PRESENT</u>	Carbonate	<u>24</u>	<u>.8</u>
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H ₂ S	<u>ABSENT</u>	Hydroxide	<u>0</u>	<u>0</u>
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cc: D.C.Adams
 R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File

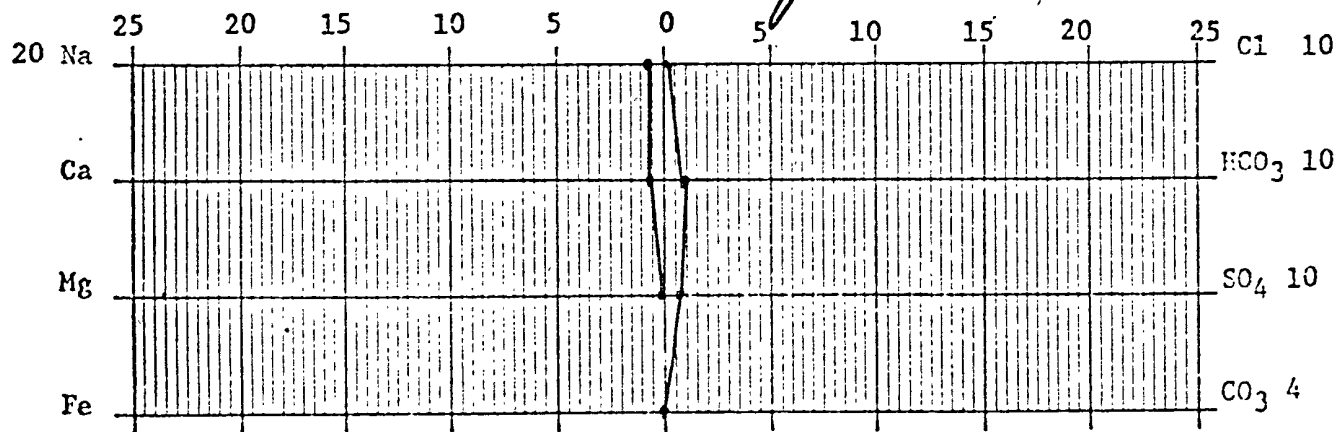
Total Solids Dissolved 1150

pH 8.7

Sp. Gr. 1.0013 at 60° F

Resistivity 720 ohm-cm at 71° F

Je Barnett RZE
 Chemist



Scale: epm

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐

Completion Date 8-29-78

Well Name <u>S.J. 28-6</u>		Location <u>SW 14-27-6</u>		CPS No. <u>1299W</u>	
Type & Size Bit Used <u>6 3/4"</u>		Work Order No. <u>#64-52853-19</u> <u>#168-55199-19</u>			
Anode Hole Depth <u>480 - 470</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used <u>197-55830-21</u>	
Anode Depth					
#1 <u>430</u>	#2 <u>420</u>	#3 <u>410</u>	#4 <u>395</u>	#5 <u>385</u>	#6 <u>255</u>
#7 <u>245</u>	#8 <u>235</u>	#9 <u>210</u>	#10 <u>200</u>		
Anode Output (Amps)					
#1 <u>2.0</u>	#2 <u>2.1</u>	#3 <u>2.0</u>	#4 <u>2.4</u>	#5 <u>3.2</u>	#6 <u>2.9</u>
#7 <u>4.1</u>	#8 <u>2.5</u>	#9 <u>2.8</u>	#10 <u>2.9</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					
Volts <u>12.1</u>	Amps <u>13.3</u>	Ohms <u>0.91</u>	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

Remarks: Static #64 600' NW = 0.81. Static #168 600' NW = 0.78. Static #197 600' W = 0.76
Driller said Damp @ 110'. Water @ 170'. More water @ 280'. Water sample taken
is from both water zones. 2.5 Gals per min. Both water zones. Perforated 33
of 1" PVC vent pipe. Installed 440' of 1" PVC vent pipe. Slurried 64 sacks of coke

60V 30A Rectifier

Stub Pole

Hole Depth = -30

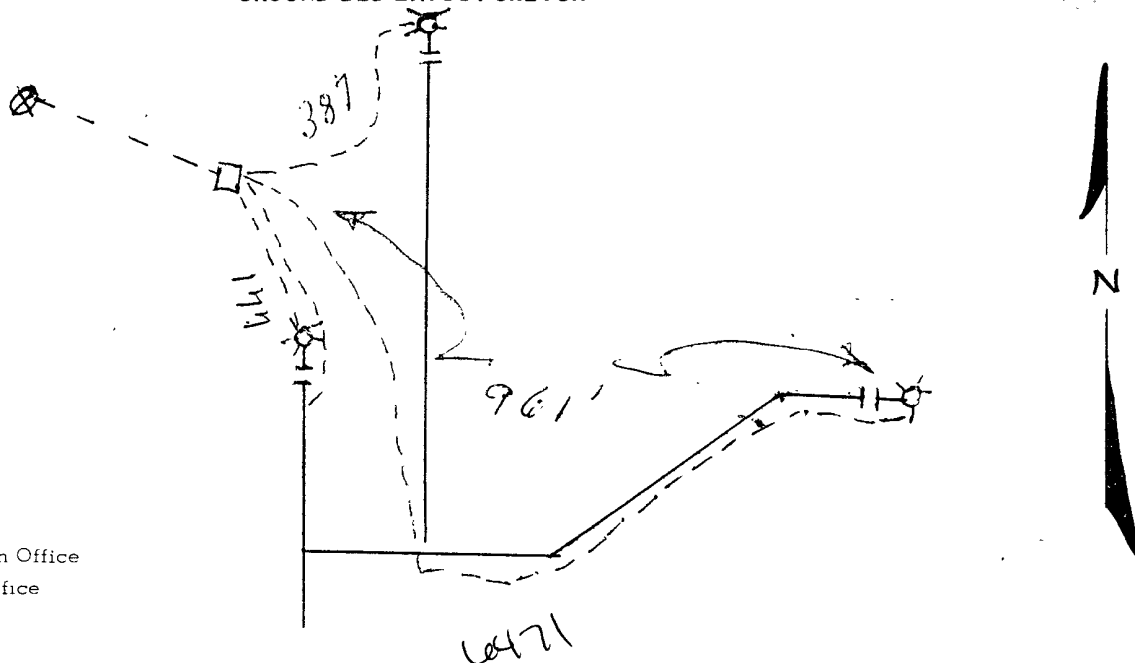
Ditch Cable = 1525

Extra Cable = 177

All Construction Completed

W 2 Louth
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

- WHITE - Division Corrosion Office
- YELLOW - Area Corrosion Office
- PINK - Originator File

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 1 of 1

Date: 10-1-77

By: J. J. 28-6# 64

File: 52853-19

S.J. 28-6# 168

SW14-27-6

1299W

55199-19

S.J. 28-6# 197

55830-21

MW	gals/mol
16.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	IC4 12.38
58.12	nC4 11.93
72.15	IC5 13.85
72.15	nC5 13.71
86.18	IC6 15.50
86.18	C6 15.57
100.21	IC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.84
42.08	C3 9.67

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

Static 600' #64 = 0.81 NW

Static 600' #168 = 0.78 NW

Static 600' #197 = 0.76 W

160.8

.7

170 2.0

2.1

80 2.0

1.6

90 1.5

1.5

200 1.6

1.5

10 1.5

1.1

20 1.0

.8

30 .8

1.0

40 1.8

2.0

50 1.5

1.5

60 .8

.6

70 .5

.5

80 .5

.5

90 .5

.5

3 1.0

.6

10 .5

.6

20 .6

.6

30 .5

.5

40 1.0

.5

50 .6

.6

60 .6

.6

70 .6

.6

80 .7

1.6

90 1.6

1.4

420 1.2

.9

10 1.1

1.2

20 1.2

1.2

30 1.3

1.1

40 .8

.6

50 .7

.6

60 .6

.7

70 .6

.6

80 .6

.6

90 .6

.6

100 .6

.6

110 .6

.6

120 .6

.6

DRILLER SAID DUMP @ 110' WATER @ 178' MARK

WATER @ 280' WATER SAMPLE FROM BOTH WATER

ZONES 25 GALS PER MIN. BOTH ZONES

PERFORATED 330' OF 1" PVC VENT PIPE

INSTALLED 440' OF 1" PVC VENT PIPE

SLURRIED SACKS OF COKE

VOLTS = 12.1

AMPS = 13.3

OHMS = 0.91

60V 30A Reel Size

Stub Pole

Hole Depth = -30

Pitch 8' / Cable = 1525

EXTRA CABLE = 177

① 430 1.3 2.0

② 420 1.3 2.1

③ 410 1.1 2.0

④ 395 1.5 2.4

⑤ 385 1.9 3.2

⑥ 255 1.6 2.9

⑦ 245 2.3 4.1

⑧ 235 1.1 2.5

⑨ 210 1.8 2.8

⑩ 200 1.8 2.9

DATE Aug 29 2019

EVENING

Company Supervision