

2672

#53 30-039-07118 E

#104 30-039-20840

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. 8 Twp 27 Rng 6
Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #53, #104
cps 1289w

Elevation 6203' Completion Date 9/7/78 Total Depth 320' 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' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 61 SACKS

Depths anodes placed: 290', 280', 270', 260', 195', 185', 175', 130', 95', 85'

Depths vent pipes placed: 300'

Vent pipe perforations: 260'

Remarks: gb #1 HOLE CAVED, RETRIEVED #4 ANODE. #1 & #2 DEPT. GET COKE
AROUND THEM.

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.

993

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. 8 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #53, #104
cps 1289w

Elevation 6203' Completion Date 9/7/78 Total Depth 160' 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'

Depths gas encountered: N/A

Type & amount of coke breeze used: 25 SACKS

Depths anodes placed: 120', 90', 80'

Depths vent pipes placed: 155'

Vent pipe perforations: 120'

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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐ # 104

Completion Date 9/7/78

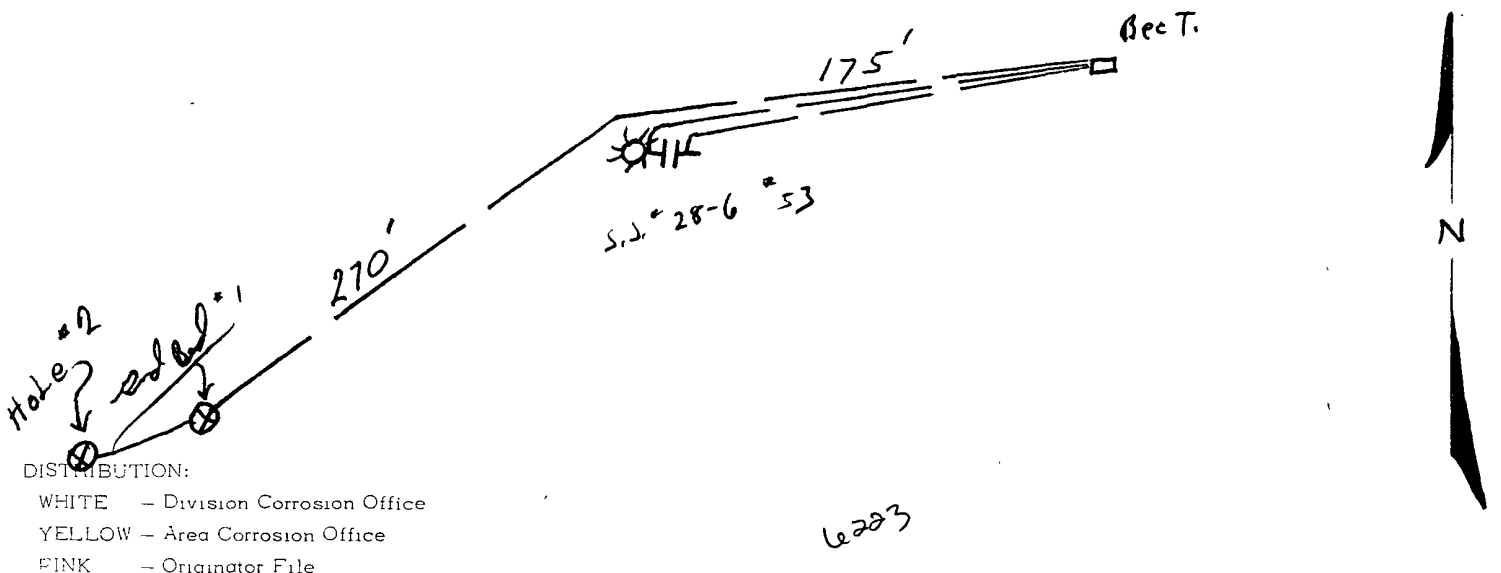
Well Name S.J. 28-6 #53				Location SW 8-27-6				CPS No. 1289 W			
Type & Size Bit Used 6 7/4"								Work Order No. 52955-19			
Anode Hole Depth 320 T.D-313		Total Drilling Rig Time		Total Lbs. Coke Used Hole #1 = 61 SACKS		Total Circulation Material Used Hole #2 = 25 SACKS		No. Sacks Mud Used			
Anode Depth											
#1 290	#2 280	#3 270	#4 260	#5 195	#6 185	#7 175	#8 130	#9 95	#10 85		
Anode Output (Amps)											
#1 1.3	#2 1.5	#3 3.9	PULLED	#5 2.03	#6 2.8	#7 2.6	#8 1.9	#9 1.5	#10 2.7		
Anode Depth											
#1 120	#2 90	#3 0	#4 80	#5 15	#6 16	#7 17	#8 18	#9 19	#10 20		
Anode Output (Amps)											
#1 2.0	#2 1.8	#3 1.3	#4 1.8	#5 15	#6 16	#7 17	#8 18	#9 19	#10 20		
Total Circuit Resistance				No. 8 C.P. Cable Used				No. 2 C.P. Cable Used			
Volts 12.1 V		Amps 10.7 A		Ohms 1.13							

Remarks: STATIC 600' W. = .91 V. Driller said WATER AT 80' APPROX.
12 GAL/MIN. TOOK WATER SAMPLE. DRILLED TO 280'. NOT ENOUGH HOLE
DRILLED TO 320'. LOGGED 313'. HOLE CAVED, RETRIEVED #4 ANODE
#1 + #2 DID NOT GET COKE AROUND THEM. INSTALLED 300' OF
1" P.V.C. VENT PIPE PERFORATED 260'. ANODES #11, #12, & #13 ARE IN #2
HOLE, 20' FROM #1 HOLE. 155' OF 1" P.V.C. VENT PERFORATED 120'.
DITCH & 1 CABLE = 445'
EXTRA CABLE = 350'
Stub pole + 40V 16A RECT.
Hole depth - 187'

ALL WIRES IN ONE JCT. BOX
All Construction Completed

JE [Signature]
(Signature)

GROUND BED LAYOUT SKETCH



El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

CPS = 1289 W

Hole #1

S.J. 28-6 *53

SW 8-27-6

52955-19

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

80 - .9 .8	80 - 1.4 - ②	Driller said water AT 80'. Took water sample, Hole making approx. 12 gal/min
1.5 1.4 - ③	1.6	Drilled To 280' NOT enough hole. Drilled To 320'. Logged 313'. Hole Caved, Retrieved *4
90 - 1.7 1.6	90 - 1.4 - ①	313-T.D. A Node, *14 *2 Did NOT
1.0 1.0 - ④	.7	20 - Drilled To get cake around filter
100 - .9 .8	300 - .6	
.8 .7		
10 - .8 .7		
.6 .6		
20 - .6 .5		
1.1 1.0		
30 - 1.2 1.1 - ⑤		
.7 .7		
40 - .7 .7		
.8 .8		
50 - .7 .7		
.6 .6		
60 - .6 .6		
.7 .7		
70 - .7 .7		
1.6 1.6 - ⑥		
80 - 1.2 1.3		
1.4 1.4 - ⑦		
90 - 1.5 1.5	1 - 290 - 1.32 - 1.3	
.9 .9 - ⑧	2 - 280 - 1.5 - 1.5	
200 - .8 .8	3 - 270 - 2.0 - 3.9	
.7 .7	4 - 260 - 2.1	Pulled *4 out of hole
10 - .6 .6	5 - 195 - 1.0 - 2.03	
.6 .6	6 - 185 - 1.7 - 2.8	
20 - .5 .5	7 - 175 - 1.5 - 2.6	
.5 .5	8 - 130 - 1.4 - 1.9	
30 - .5 .5	9 - 95 - 1.0 - 1.5	
.5 .5	10 - 85 - 1.9 - 2.7	
40 - .6 .6		
.5 .5		
50 - .5 .5		
.8 .8		
60 - 2.2 2.2 - ⑨		
1.8 1.7		
70 - 2.0 1.9 - ⑩		
1.1 1.2		

$$10.7A \quad 12.1V = 1.13\Omega$$

9/1/78
JL

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 101
Date: _____
By: _____
File: _____

CPS * 1289 W

Hole #2

S.J. * 28-6 * 53

SW 8-27-6

S 29 S 5 - 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

80 - 1.0 - (13)

90 - 1.0 - (12)

100 - .6

10 - .6

20 - 1.2 - (11)

30 - .7

40 - .8

50 - .7

155' - T.D.

60 - Drilled To

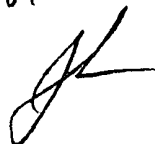
Driller said WATER AT 80'
Approx 12 gal/min. Drilled
160', Logged 155'. Installed
155' of 1" P.V.C. Vent Pipe
Perforated To 120'

11 - 120' - 1.4 - 2.0
12 - 90' - 1.1 - 1.8
13 - 80' - 1.0 - 1.8

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

BOTH HOLES
TOTAL 12.2 V. 12.2A = 1.0 ~

9/8/78



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

Analysis No. 1-9335 Date SEPTEMBER 18, 1978

Operator EPNG Well Name SAN JUAN 28-6 #53

Location SW 8-27-6 County RIO ARriba State NM

Field _____ Formation _____

Sampled From 1289W 80' 12gal/m

Date Sampled _____ By _____

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

Sodium <u>281</u>	12.2	Chloride <u>8</u>	.2
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Calcium <u>166</u>	8.3	Bicarbonate <u>251</u>	4.1
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Magnesium <u>31</u>	2.5	Sulfate <u>900</u>	18.7
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Iron <u>PRESENT</u>		Carbonate <u>0</u>	0
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H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u>	0
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cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File

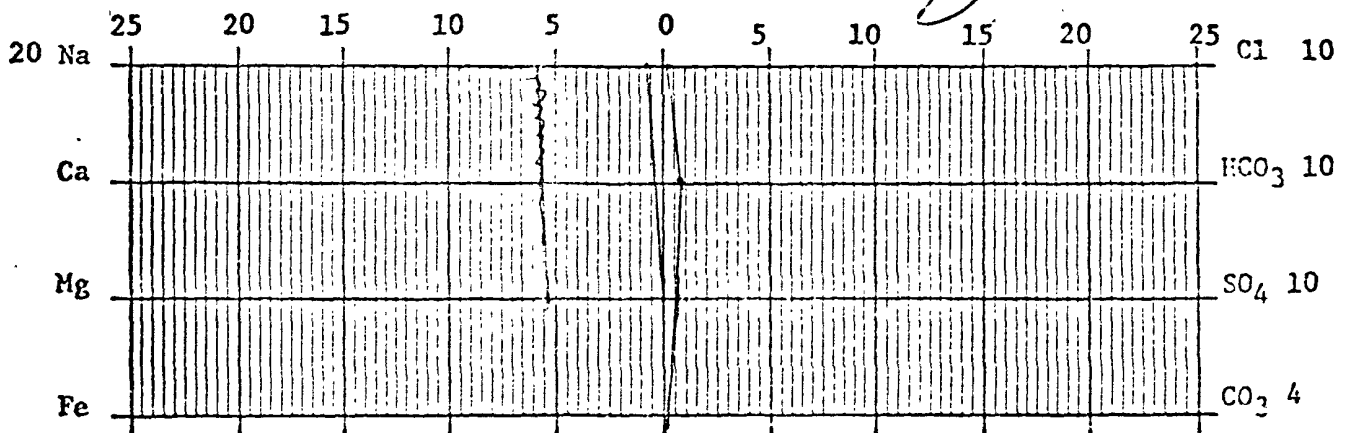
Total Solids Dissolved 660

pH 7.75

Sp. Gr. 1.0015 at 60°F

Resistivity 600 ohm-cm at 71 °F

Robert J. Jones
Chemist



Scale: epm

LEASE _____ WELL NO. 1289 CONTRACTOR D. K. Entp. RIG NO. 2 REPORT NO. _____ DATE Sep 6 1978

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.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			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.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	20	Sandy top Soil	85	100	Shale	240	260	Shale
20	25	Shale	100	120	Sandy Shale	260	300	Shale
25	40	Sandy Shale	120	140	Shale	300	320	Sandy Shale
4	60	Shale	140	170	Sandy Shale			
60	80	Sandy Shale	170	200	Shale			
80	85	(water) Sand	200	240	Sand Shale			

REMARKS -			REMARKS -			REMARKS -		

SIGNED: Toolpusher

D. K. McDonald

Company Supervisor

Drilled to 320
 Logged to 313
 Get water 12 g.t. in