

1012

30-039-07182
30-039-20477

8

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. 2 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #77, #169

cps 1278w

Elevation 6485 Completion Date 9/21/78 Total Depth 440' 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. 105' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 50 SACKS

Depths anodes placed: 400', 390', 380', 335', 325', 245', 235', 220', 205', 195'

Depths vent pipes placed: 420'

Vent pipe perforations: 220'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 2

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 9-21-78

Well Name SJ 28-6 #77 + #169		Location SW 2-27-6		CPS No. 1278W	
Type & Size Bit Used 6 3/4		Contract # CONTRACT #2		Work Order No. 53290.19 + 55200.19	
Anode Hole Depth 440'-429'	Total Drilling Rig Time	Total Lbs. Coke Used 50 sacks	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 400	# 2 390	# 3 380	# 4 335	# 5 325	# 6 245
# 7 235	# 8 220	# 9 205	# 10 195		
Anode Output (Amps)					
# 1 3.2	# 2 2.8	# 3 3.3	# 4 3.1	# 5 3.0	# 6 3.5
# 7 3.7	# 8 3.3	# 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				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.9	Amps 15.3	Ohms .77			

Remarks: STATIC C/S #77-600'NW=.85 #169-600'NE=.75

Driller said water at 105' 2 water zones TOTAL WATER = 35 GPM

Drilled 440' Logged 429' INSTALLED 420 FT VENT PIPE PERFORATED 220'

SLURRIED 50 bags of coke

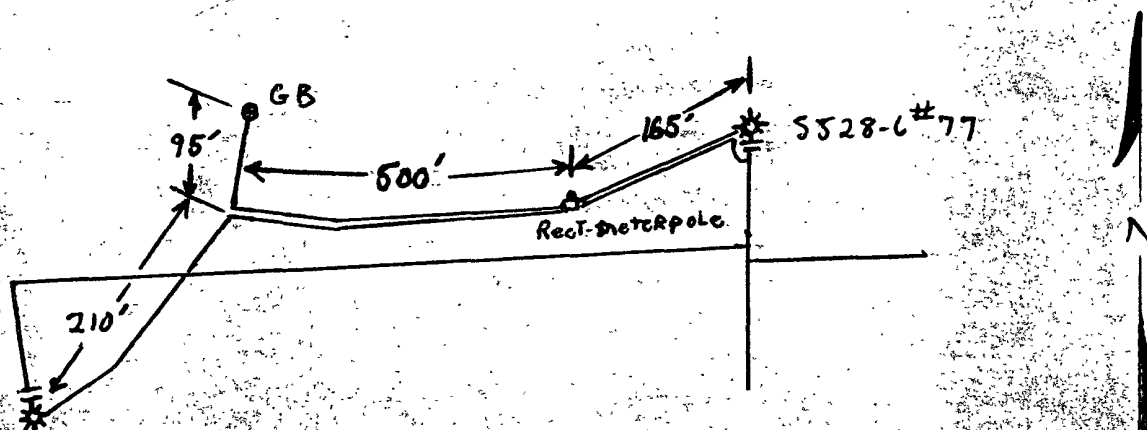
Hole depth = -71'
Cable + Ditch = 970'
EXTRA CABLE = 665'

60030A Rect.
20' Meter Loop pole

All Construction Completed

Robert J. Balnick
(Signature)

GROUND BED LAYOUT SKETCH:



DISTRIBUTION:

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

SS28-6 #169

6485'

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 1 of 1
Date: 9-21-78
By: RLB
File: 1278W

1278W

SW 2-27-6

SAN JUAN 28-6# 77

53290.19

STATIC $\frac{1}{2}$ s 600'NW = .85

U = OK

SAN JUAN 28-6# 169

55200.19

STATIC $\frac{1}{2}$ s 600'NE = .75

U = OK

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 ⁱ	9.64
42.08	C3 ⁱ	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

			DRILLER SAID WATER AT 105'		
			2 WATER ZONES		
			TOTAL WATER APPROX 35 GPM		
			DRILLED 440' Logged 429'		
			INSTALLED 420 FT OF VENT		
			PIPE PERFORATED 220'		
			SLURRIED 50 BAGS OF COKE		
			Hole Depth = -71		
			Cable + Patch = 970'		
			EXTRA CABLE = 665'		
			600 30A Rect.		
			20' meter Loop pole		
100		300 .7			
	.8				
110	1.2	310 .5			
	1.2				
120	1.2	320 1.3			
	1.5				
130	.9	330 1.8			
	.7				
140	.7	340 .8			
	.6				
150	.7	350 .7			
	1.0				
160	1.7	360 .5			
	1.9				
170	2.5	370 .7			
	2.4				
180	1.9	380 1.6 -			
	1.7				
190	1.8	390 1.5 -			
	1.9 -				
200	2.3	400 1.9 -			
	2.3 -				
210	1.9	410 1.9			
	2.0				
220	1.9 -	420 1.1			
	1.6				
230	1.4	430 1.0 TO 429			
	2.1 -				
240	2.2	440 DRILLED			
	2.0 -				
250	1.5				
	1.1				
260	.9				
	.7				
270	.7				
	.6				
280	.6				
	1.1				
290	1.0				
	.8				
			TOTAL 11.9 V / 15.3 A = .77 ohms		

- ① 400 - 2.0 - 3.2
- ② 390 - 1.6 - 2.8
- ③ 380 - 1.9 - 3.3
- ④ 335 - 1.7 - 3.1
- ⑤ 325 - 1.7 - 3.0
- ⑥ 245 - 2.1 - 3.5
- ⑦ 235 - 2.3 - 3.7
- ⑧ 220 - 2.0 - 3.3
- ⑨ 205 - 2.3 - 3.4
- ⑩ 195 - 2.2 - 3.5

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

Analysis No. 1-9353 Date 11-8-78

Operator _____ Well Name San Juan 28-6 #77 & 169

Location SW 2-27-6 County Rio Arriba State NM

Field _____ Formation _____

Sampled From C.P.S. 1278W 35 GPM

Date Sampled _____ DEPTH -105'

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

Sodium 391 17 Chloride 16 0.5

Calcium 254 13 Bicarbonate 254 4

Magnesium 47 4 Sulfate 1400 29

Iron PRESENT 0 Carbonate 0 0

H₂S ABSENT 0 Hydroxide 0 0

cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File

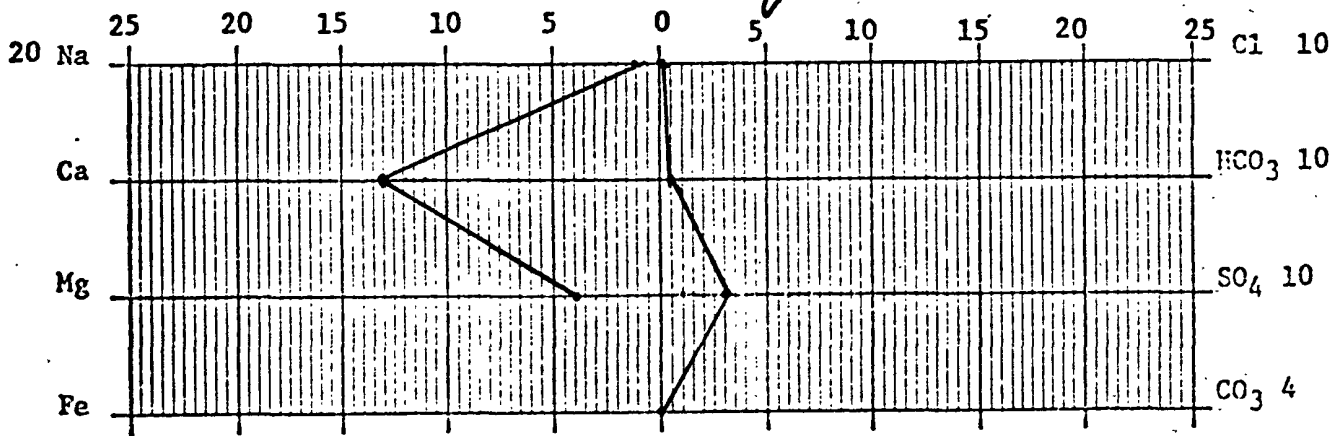
Total Solids Dissolved 2212

PH 8.0

Sp. Gr. 1.0028 at 60°F

Resistivity 440 ohm-cm at 71 °F

Joe Barnett RLS
Chemist



Scale: epm

