

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. 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)

Completion Date 9-21-78

Well Name <b>SJ 28-6 #77 + #169</b>		Location <b>SW 2-27-6</b>				CPS No. <b>1278W</b>					
Type & Size Bit Used <b>6 3/4</b>		CONTRACT #2				Work Order No. <b>53290.19 + 55200.19</b>					
Anode Hole Depth <b>440'-429'</b>		Total Drilling Rig Time		Total Lbs. Coke Used <b>50 sacks</b>		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	<b>400</b>	<b>390</b>	<b>380</b>	<b>335</b>	<b>325</b>	<b>245</b>	<b>235</b>	<b>220</b>	<b>205</b>	<b>195</b>	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	<b>3.2</b>	<b>2.8</b>	<b>3.3</b>	<b>3.1</b>	<b>3.0</b>	<b>3.5</b>	<b>3.7</b>	<b>3.3</b>	<b>3.4</b>	<b>3.5</b>	
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 <b>11.9</b>				Amps <b>15.3</b>		Ohms <b>.77</b>		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used

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

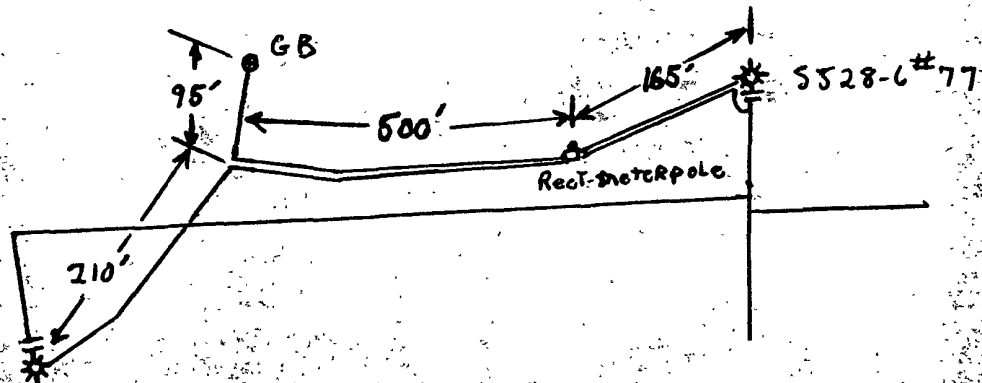
Hole depth = -71'  
CABLE + DITCH = 970'  
EXTRA CABLE = 665'

60030A Rect.  
20' meter loop pole

All Construction Completed

Robert J. Babnick  
(Signature)

GROUND BED LAYOUT SKETCH



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

5528-6 #169

665'

1278W SW 2-27-6

SAN JUAN 28-6# 77 53290.19

STATIC 9/8 600'NW = .85 u=OK

SAN JUAN 28-6# 169 55200.19

STATIC 9/8 600'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 <sup>+</sup>	9.64
42.08	C3 <sup>+</sup>	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

Depth	Pressure	Flow	Notes
100	300	.7	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' 60V 30A RECT. 20' meter Loop pole
.8		.5	
110	310	.5	
1.2		.6	
120	320	1.3	
1.5		1.6-	
130	330	1.8	
.9		1.6-	
140	340	.8	
.7		.7	
150	350	.7	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
.7		.6	
160	360	.5	
1.0		.5	
170	370	.7	
1.7		1.2	
180	380	1.6-	
1.9		1.9	
190	390	1.5-	
1.7		1.5	
200	400	1.9-	TOTAL 11.9 V 15.3 A = .77 ohms
2.3		1.8	
210	410	1.9	
2.3-		1.8	
1.9	420	1.1	
2.0		1.0	
220	430	1.0	
1.9-		FD 429	
1.6	440	Drilled	
230			
1.4			
2.1-			
240			
2.2			
2.0-			
250			
1.5			
1.1			
260			
.9			
.7			
270			
.7			
.6			
280			
.6			
1.1			
290			
1.0			
.8			

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. 4278W 35 GPM

Date Sampled \_\_\_\_\_ BY 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 Carbonate 0 0

H<sub>2</sub>S ABSENT Hydroxide 0 0

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

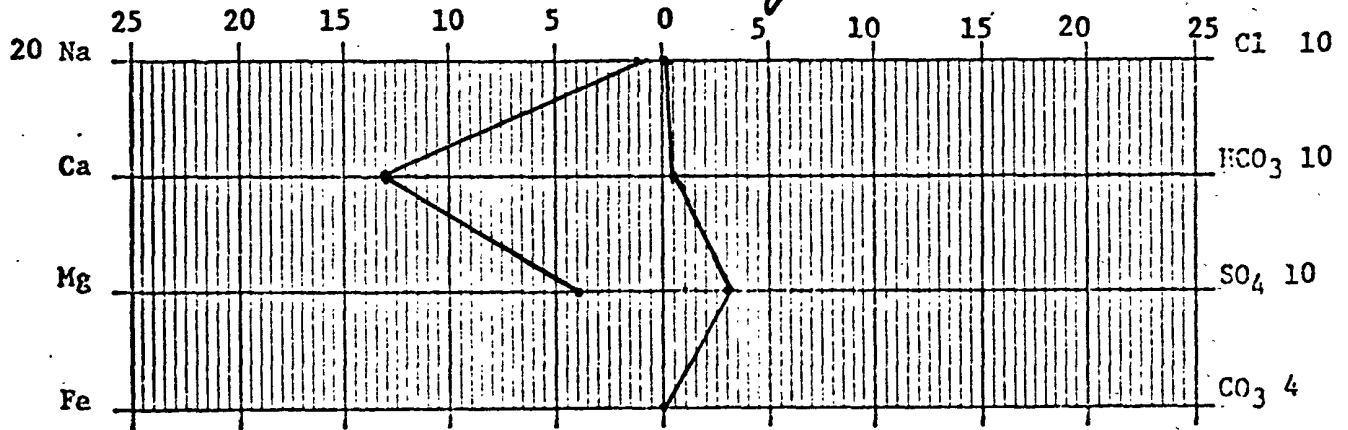
Total Solids Dissolved 2212

pH 8.0

Sp. Gr. 1.0028 at 60°F

Resistivity 440 ohm-cm at 71 °F

Joe Barnett RZE  
 Chemist



Scale: epm

LEASE 1228 W WELL NO. 1228 W CONTRACTOR Obrien Drilling RIG NO. 1 REPORT NO. \_\_\_\_\_ DATE Aug 31 19 28  
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.

TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY	TYPE	DOWN ON KELLY

MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MAKE	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED

TIME	WT.	VIS.	TIME BREAKDOWN	TIME	WT.	VIS.	TIME BREAKDOWN	TIME	WT.	VIS.	TIME BREAKDOWN
0	10		Drill pipe	165	70		Shale	165	185		Shaly shale
10	33		Sandstone	90	115		Sandstone (Water)	185	190		Sandy shale
33	37		Shale	115	130		Shale	190	210		Shale
37	48		Sandstone	130	135		Sandstone with shale	210	235		Sandstone
48	55		Shale	135	155		Sandstone	235	250		Shale
55	65		Sandstone (Damp)	155	165		Sandy shale	250	290		Sandstone (Water)

SIGNED: Toolpusher Bill Rennie

Company Supervisor \_\_\_\_\_

REMARKS - Drilled 134 hole to 440

logged to 429

Est. water 35 GPM

REMARKS - 290-295 Shaly shale

295-300 Shale

300-320 Sandstone

320-335 Sandy shale

335-345 Shale

345-385 Sandstone

385-420 Shale

420-440 Sandy shale