

1381

#11A 30-039-22203

E

#89 30-039-82367

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. 9 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #11A, #89

cps 1607w

Elevation 6448 Completion Date 7/20/81 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. 160' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 6200 lbs.

Depths anodes placed: 470', 460', 450', 370', 355', 345', 215', 205', 180', 170'

Depths vent pipes placed: 495'

Vent pipe perforations: 360'

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) ☐

(2" x 60" DURATION)

Completion Date 7/20/81

Well Name S.J. 28-6 #11A S.J. 28-6 #89		Location SE 9-27-6		CPS No. 1607 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57853-21-50-20 40527-21-50-20	
Anode Hole Depth 500' T.D. 495'	Total Drilling Rig Time	Total Lbs. Coke Used 6,200#	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 470'	# 2 460'	# 3 450'	# 4 370'	# 5 355'	# 6 345'
# 7 215'	# 8 205'	# 9 180'	# 10 170'		
Anode Output (Amps)					
# 1 3.9	# 2 3.6	# 3 3.3	# 4 2.2	# 5 2.6	# 6 2.5
# 7 3.7	# 8 3.7	# 9 4.5	# 10 4.7		
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 12.1	Amps 16.6	Ohms .73			

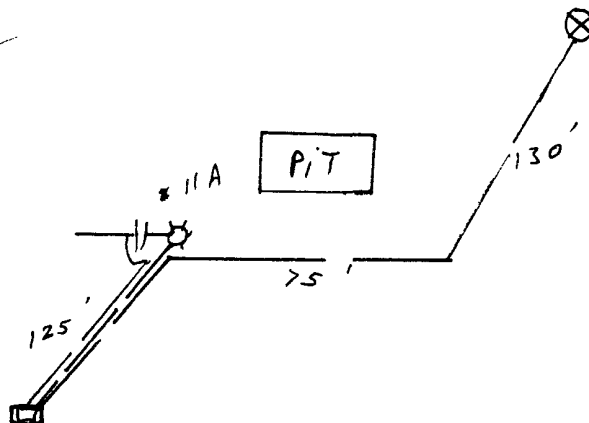
Remarks: STATIC ON S.J. 28-6 #11A 600' N. = .95V STATIC ON S.J. 28-6 #89 600' E. = .90V
(UNIONS CHECKED OK.) DRILLER SAID WATER AT 160'. APPROX. 1/2 GAL/MIN DRILLED TO 170'
ON FRIDAY. WATER STANDING IN HOLE ON MONDAY AT 150'. TOOK WATER SAMPLE.
DRILLED TO 500'. LOGGED 495'. INSTALLED 495' OF 1" P.V.C. VENT PIPE PERFORATED
360'.

Hauled coke breeze in bulk, EST. 6200 LB. OF COKE IN HOLE

All Construction Completed

DITCH #1 CABLE = 330' ✓
EXTRA CABLE = 270' ✓
60V 30A RECT. ✓
STUB POLE ✓
HOLE DEPTH - 5' ✓

GROUND BED LAYOUT SKETCH



	Req.	O.T.
H.A.	8	4

DISTRIBUTION:

WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File #89

6448

S1 28-6 F11A

295 1607 W

W. 3 27-23-21-50-20

32 28-6 F11A

295 1607 W

10527-21-50-20

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

160 - 1.4 330 - .4
 1.3 .4
 70 - 1.6 - ⑩ 40 - .4
 1.9 1.2 - ⑥
 80 - 1.6 - ⑨ 50 - 1.2
 1.0 1.0 - ⑥
 90 - .8 60 - .9
 .8 1.0
 200 - 1.0 70 - 1.0 - ④
 1.5 - ⑧ 1.0
 10 - 1.7 80 - .9
 1.5 - ⑦ .8
 20 - .7 90 - .7
 .6 .8
 30 - .4 400 - .8
 .3 .8
 40 - .3 10 - 1.0
 .2 .7
 50 - .3 20 - .7
 .5 .8
 60 - .3 30 - .6
 .4 .6
 70 - .4 40 - .5
 .7 1.0
 80 - .4 50 - 1.0 - ③
 .4 1.2
 90 - .4 60 - 1.1 - ②
 .4 1.1
 300 - .4 70 - 1.2 - ①
 .4 1.2
 10 - .4 80 - 1.1
 .5 1.3
 30 - .4 90 - 1.3
 .4 495 T.D
 .4 500 - Drilled To

Driller said water AT 160'.
 Approx 1/2 gal/min. Drilled To 170'
 ON Friday, WATER STANDING IN Hole
 ON MON. AT 150'. Took WATER
 SAMPLE, Drilled To 500'.
 Logged 495'. INSTALLED 495' of
 1" P.V.C. VENT Pipe Perforated
 360'.

12.1 V, 16.6A = .73 R

7/20/81

JR

1 - 470' - 1.7 - 3.9
 2 - 460' - 1.9 - 3.6
 3 - 450' - 1.7 - 3.3
 4 - 370' - 1.3 - 2.2
 5 - 355' - 1.7 - 2.6
 6 - 345' - 1.6 - 2.5
 7 - 215' - 1.7 - 3.7
 8 - 205' - 1.7 - 3.7
 9 - 180' - 1.8 - 4.5
 10 - 170' - 1.8 - 4.7

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

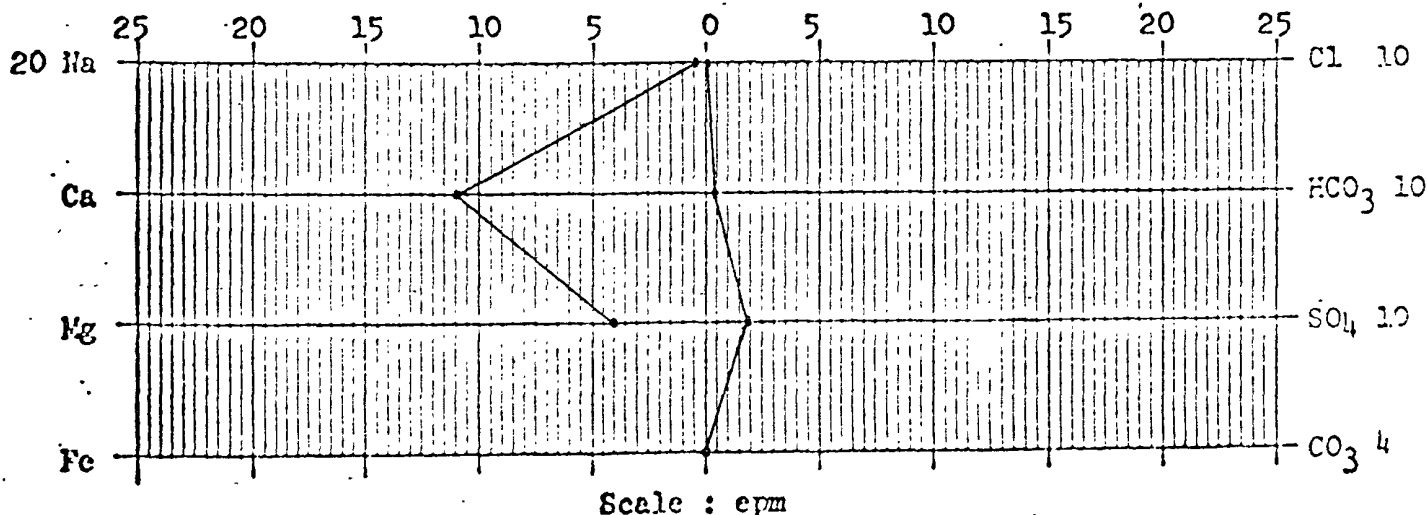
Analysis No. 1-10277 Date 7-28-81
Operator El Paso Natural Gas Well Name S.J. 28-6 #11A CPS 1607 W
Location SE 9-27-6 County Rio Arriba State New Mexico
Field Blanco Formation _____
Sampled From 160'
Date Sampled 7-20-81 By J. E. Stotts

Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>191</u>	<u>8.3</u>	Chloride <u>15</u>
Calcium <u>220</u>	<u>11</u>	Bicarbonate <u>266</u>
Magnesium <u>49</u>	<u>4</u>	Sulfate <u>890</u>
Iron <u>Absent</u>		Carbonate <u>0</u>
H ₂ S <u>Absent</u>		Hydroxide <u>0</u>

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

Total Solids Dissolved 1,678
pH 7.6
Sp. Gr. 1.0035 At 60°F
Resistivity 444 ohm-cm at 75°F

Debbie Denzel P28
Chemist



LEASE SJ 28-6 #11* WELL NO. SJ 28-6 #89 CONTRACTOR Henry Drilling RIG NO. 2 REPORT NO. CP5 160741 DATE July 20 1981

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.

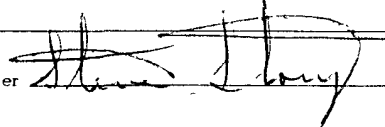
BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
S AL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.
SIZE		STANDS			SIZE		STANDS			SIZE		STANDS		
TYPE		SINGLES			TYPE		SINGLES			TYPE		SINGLES		
MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY		
TOTAL DEPTH					TOTAL DEPTH					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	100	Sandy shale	400	440	Sand			
100	160	Sandy shale	440	500	Shale			
160	190	Shale						
190	240	Sandy shale						
240	350	Sand						
350	400	Sandy shale						

REMARKS -			REMARKS -			REMARKS -		
Water 160 1/2 Gallons Min.								
Drilled 500 TD 495								

SIGNED: Toolpusher



Company Supervisor