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30-045-22498

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. 11 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SAN JUAN #11A

cps 1252w

Elevation 6589' Completion Date 6/27/78 Total Depth 535' 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. DAMP AT 98' WATER AT 125'

Depths gas encountered: N/A HOLE MAKING GAS.

Type & amount of coke breeze used: N/A

Depths anodes placed: 504', 498', 492', 486', 480', 474', 468', 462', 456', 450', 200'

Depths vent pipes placed: 520'

Vent pipe perforations: 440'

Remarks: gb #1 FIRST HOLE 650'-ABANDONED.

RECEIVED
MAY 31 1991

OIL CON. DIV.
DIS

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 6-27-78

Well Name <u>SAN JUAN #11-A</u>		Location <u>SE 11-30-10</u>		CPS No. <u>1252W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57206-21</u>	
Anode Hole Depth <u>535</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 <u>504</u>	#2 <u>498</u>	#3 <u>492</u>	#4 <u>486</u>	#5 <u>480</u>	#6 <u>474</u>
#7 <u>468</u>	#8 <u>462</u>	#9 <u>456</u>	#10 <u>450</u>		
Anode Output (Amps)					
#1 <u>3.2</u>	#2 <u>3.7</u>	#3 <u>3.9</u>	#4 <u>3.7</u>	#5 <u>2.9</u>	#6 <u>2.8</u>
#7 <u>2.6</u>	#8 <u>3.2</u>	#9 <u>3.0</u>			
Anode Depth					
#11 <u>200</u>	#12	#13	#14	#15	#16
#17	#18	#19	#20		
Anode Output (Amps)					
#11 <u>1.8</u>	#12	#13	#14	#15	#16
#17	#18	#19	#20		
Total Circuit Resistance				No. 8 C.P. Cable Used	
Volts <u>11.5</u>	Amps <u>12.8</u>	Ohms <u>0.90</u>			No. 2 C.P. Cable Used

Remarks: STATIC 600' SE = 0.84. DRILLED 630'. while Logging. Logging Anode Stopped @ 567'. HAD ROOM FOR 10 ANODES. Went in with first Anode. Anode stopped 460'. Abandoned Hole. DRILLED 600'. Logging Anode stopped @ 535. Spaced Anode @ 6' instead of 10'. Anode #1 Did not Respond. Installed Anode #11. DRILLER SAID DAMP @ 98'. WATER @ 125'. 1 GAL. PER MIN. WATER @ 450'. 2 GAL. PER MIN. PERFORATED 440' of 1" PVC vent Pipe. Installed 520' of vent pipe. Gnd Bed MAKING GAS.

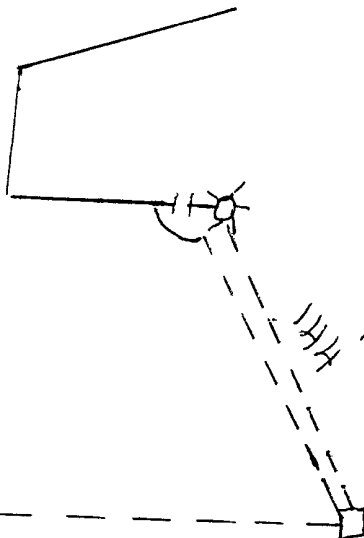
40V16A Rectifier
Stub Pole

All Construction Completed

Ditch for cable = 264
Extra cable = 144
Hole Depth = +35

W. I. Lott
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

145'
120'

6589

1252 W

LEASE

WELL NO. 1252 W

CONTRACTOR

O'Brian

RIG NO.

1

REPORT NO. 30

DATE

June 27 19 18

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.		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.	Time	WT.	Vis.	Time	WT.	Vis.	Time	WT.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	31	Sandstone	105	125	Sandstone water 1gpm	213	455	Sandstone water 2gpm
31	37	Shale	125	133	Shale	455	465	Shale
37	75	Sandstone	133	195	Sandstone	465	470	Sandstone
	78	Shale	195	200	Sandy Shale	470	512	Shale
78	98	Sandstone damp	200	210	Sandstone	512	525	Sandstone
98	105	Shale	210	213	Shale	525	600	Shale

REMARKS -	REMARKS -	REMARKS -
	Redrill	6 3/4 to 600 water @ 380 overnite estimate on water 3gpm
		logged to 535
		Shale caved.

SIGNED: Toolpusher

Tom O'Brian

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 513 of 513

Date: 10-10-80

By: [Signature]

File: 57206-21

SAN JUAN #11-A

SE 11-30-10

1252 W

57206-21

Static 600' SE = 0.84

40V 16A Rectifier

Stub Pole

Ditch cable = 264'

Extra cable = 144'

Hole depth +35

DRILLER SAID wet @ 98' water @ 125' 16 gal per min
Drilled to 400' next A.M. blow water @ 450' 2 gal
MORE water @ 450' 3 Gals per min

Perforated 440' 0.51" PVC vent pipe

Installed 520' 0.51" PVC vent pipe

Gnd Bed MAKING GAS.

First Hole CAVED. Drilled offset to 600'

Hole CAVED @ 535 spaced anodes 6' instead of 10' to save hole.

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

420	80	125 .6	90 .2
		.9	.8
30	90	30 .4	200 1.0
.5		.3	1.0
40 .6	600	40 .2	10 .4
.8		.2	.8
50 1.1	10	50 .1	20 .7
1.6		.2	.6
60 1.6	20	60 .1	30 .3
1.4		.1	
70 1.4	30	70 .2	
1.5		.3	
80 1.7	40	80 .4	
1.6		.3	
90 1.6	50		

1.6	504	1.0	1.0
500 1.5	498	1.7	3.2
1.4	492	1.6	3.7
10 .7	486	1.6	3.9
.5	480	1.8	3.7
200 .9	474	1.4	2.9
.8	468	1.5	2.8
30 .8	462	1.6	2.6
T.D.	456	1.7	3.2
40	450	.9	3.0
50	200	1.0	1.8

Volts = 11.5

Amps = 12.8

ohms = 0.90

SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230

DATE COMPLETED 7-6-78

WELL NAME	LOCATION S T R	DATE SECURED	GAL./ - DAY	PPM T.D.S.	pH	PPM CHLORIDES	PPM SULFATE
Jones A #1A MV	10-28-8	6-20	24	7452	7.0	4320	7840
Jones A #1A PC	10-28-8	6-20	1	39	6.8	13	1000
Lughes #4A	20-29-8	6-20	54	6858	7.2	4830	1280
Day A #5A	18-29-8	6-20	38	7632	7.1	6320	2500
Day #1A	17-29-8	6-20	80	6670	7.4	6390	500
Day A #1A	17-29-8	6-20	106	7527	7.4	7170	1000
Day #3A	18-29-8	6-20	42	6913	6.7	7170	1000
Day A #2A	7-29-8	6-20	96	5887	7.6	6320	64
El Paso #1A	20-29-9	6-17	8	9493	6.8	6745	7080
Wansfield #2A 1241W	19-30-9	6-19		1019	7.3	24	1520
Wigley #1A 1275W	6-30-9	6-19		430	7.1	20	600
Worance #2A 1220W	21-30-9	6-19		1373	7.3	16	2520
San Juan #11A 1252W	11-30-10	6-19		636	6.4	24	800
San Ray A #1A 1263W	15-30-10	6-19		210	6.2	8	600
Atlantic D Com #5A 1209W	12-30-10	6-19		1493	6.6	16	3000
Wernaghan #4A 1237W	30-31-8	6-19		432	7.3	12	600
Wernaghan #2A 1235W	28-31-8	6-19		190	7.2	16	680
Wernaghan #1A 1234W	33-31-8	6-19		571	6.9	32	800
Walker 1A 1271W	31-31-9	6-19		1664	7.0	32	3520
Atlantic A #8A 1199W	29-31-10	6-19		2637	7.1	152	5560
Atlantic "C" 4A 1200W	31-31-10	6-19		6720	7.7	504	9800
Cott #4A 1258W	17-31-10	6-19		4506	7.0	186	7760
Brookhaven Com A-1 1212W	16-31-10	6-19		3979	6.7	270	6920