

1042

3-30-039-07038

E

123-30-039-20401-

180-30-039-20819

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. 17 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #3, #123, #180

cps 1709w

Elevation 6421 Completion Date 9/21/83 Total Depth 290' 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: N/A

Depths anodes placed: 260'

Depths vent pipes placed: 274'

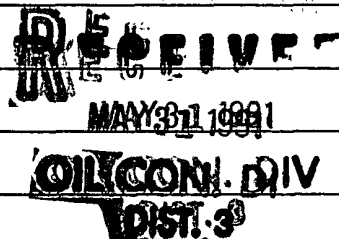
Vent pipe perforations: 200'

Remarks: gb #1 HOLE FELL IN AT 40'

* Gb #1 + Gb #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.



1041

3-
123-
180-

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
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(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 17 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #3, #123, #180
cps 1709w

Elevation 6421' Completion Date 9/21/83 Total Depth 305' Land Type* N/A

Casing, Sizes, Types & Depths 60' OF 8" PVC CASING

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: 3000 lbs.

Depths anodes placed: 275', 265', 201', 200', 190', 160', 150', 140', 130'

Depths vent pipes placed: 303'

Vent pipe perforations: 200'

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) ☐Completion Date: 9/21/83

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1709W	S.J. 27-5 #3	52400-19-50-20-64	600'S = 2.86V	☒ Good ☐ Bad
	S.J. 27-5 #123	54902-19-50-20-64	600'S = .83V	
Location:	Anode Size:	Anode Type:	Size Bit:	
SW 17-27-5	2" X 60"	Durion	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Core Used	Lost Circulation Mat'l Used
305'	303'		SLUR 3000 LB	
Anode Depth	Hole #2 →			
#1 260'	#2 275'	#3 265'	#4 210'	#5 200'
#6 190'	#7 160'	#8 150'	#9 140'	#10 130'
Anode Output (Amps)				
#1 3.16	#2 3.67	#3 4.4	#4 2.8	#5 4.28
#6 3.20	#7 2.48	#8 4.35	#9 1.83	#10 3.35
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 12.07V	Amps 14.26A	Ohms .85		

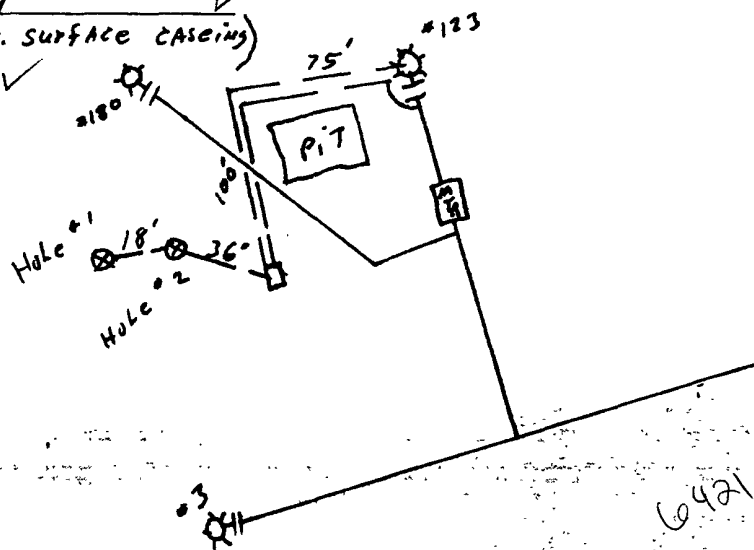
Remarks: Driller said water at 80' & 100-110, Approx 50 GAL./min. Drilled Hole #1 To 290', Logged 274', Core went Around #1 Anode, Hole fell in at 40'. Moved Rig 18', Drilled Hole #2, To 305' Logged 303'. Installed 274' of 1" P.V.C. VENT in Hole #1 Perforated 200'. Installed 303' of 1" P.V.C. VENT pipe in Hole #2, Perforated 220'. Installed 60' of 1" P.V.C. VENT Pipe in Hole #2. (3 Hr. Rig Time)

Rectifier Size: 60 V 30 A ✓
 Addn'l Depth: —
 Depth Credit: 197' + 60' = 257' ✓
 Extra Cable: 210' ✓
 Ditch & 1 Cable: 229' ✓
 25' Meter Pole: —
 20' Meter Pole: —
 10' Stub Pole: 1 ✓
 SET 60' 1" PVC. SURFACE CASING)
 3 Hr. Rig Time. ✓

All Construction Completed

JE Datta
 (Signature)

GROUND BED LAYOUT SKETCH



Time	Res	O.T.
20hr.	16	4

Hole #

CPS #1709W

S.J. 27-5 #3

W.O. 52400-19-50-20-64

SW 17-27-5

S.J. 27-5 #123

W.O. 54802-19-50-20-64

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' - 250 - 3

MOVED 18' FROM HOLE #1, STARTED

90' - 1.0

HOLE #2, SET 60' OF 8" P.V.C.

1.28

SURFACE CASING. 3" RIG TIME

100' - .72

HIT WATER AT 80', MORE WATER

.64

BETWEEN 100' & 110' APPROX 50 GPM

10' - .5

DILLED TO 305', LOGGED 303'

.5

INSTALLED 303' OF 1" P.V.C.

20' - .92

VENT PIPE, PERFORATED 220'

2.21

30' - 2.02 - (10)

1.96

40' - 1.97 - (9)

2.38

50' - 2.19 - (8)

1.68

60' - 1.11 - (7)

.72

70' - .64

.5

80' - .3

.3

90' - 1.07 - (6)

2.09

200' - 2.3 - (5)

2.1

10' - 1.39 - (4)

.86

20' - .47

.4

30' - .5

.4

40' - .34

.3

12.07 V, 14.26 A = 85 Ω

1 - 260' IN HOLE #1 - 1.95 - 3.16

2 - 275' - 1.5 - 3.67

3 - 265' - 2.4 - 4.4

4 - 210' - 1.55 - 2.8

5 - 200' - 2.45 - 4.28

6 - 190' - 1.78 - 3.20

7 - 160' - 1.43 - 2.48

8 - 150' - 2.52 - 4.35

9 - 140' - 2.18 - 3.83

10 - 120' - 2.3 - 3.35

Hole #2

Date: 9/20/83By: [Signature]Hole 2-1

CPS 1709W

S.J. 27-5-3

W.O. 52400-19-50-20-64

SW 17-27-5

" " " 123

54802-19-50-20-64

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 9.64
42.08	C3 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

80 -	250 - .7	Driller said water at 80'
1.08	.4	& 100-110. Drilled to 110'
90 - 1.39 - (10)	60 - 1.98 - (1)	Took water sample, water
1.17	1.91	standing in hole next AM
100 - .66	70 - 274 T.D.	at 80'. Driller said hole
.52		making approx. 50 gal/min.
10 - .55	80 -	Installed 274' at 1' per
.38		vert pipe perforated 200'.
20 - 1.08 - (1)	90 -	Drilled 290', logged 274'.
2.14		Coke around 1' node,
30 - 1.98 - (1)	300 -	Hole fell in, at 40'.
1.79		
40 - 1.89 - (1)		
2.43		
50 - 2.24 - (1)		
1.6		
60 - 1.03 - (5)		
.7		
70 - .6		
.5		
80 - .5		1 - 260' - 1.95 -
.56		2 - 210' - 1.59 -
90 - 1.48 - (4)		3 - 200' - 2.29 -
2.18		4 - 190' - 1.54 -
200 - 2.38 - (3)		5 - 160' -
1.87		6 - 150' -
10 - 1.33 - (2)		7 - 140' -
.7		8 - 130' -
20 - .4		9 - 120' -
.3		10 - 90' -
30 - .4		
.4		
40 - .3		
.3		

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

Analysis No. 1-10899 Date October 26, 1983
 Operator El Paso Natural Gas Well Name San Juan 27-5 #123 CPS 1709W
 Location SW 17-27-5 County Rio Arriba State New Mexico
 Field Blanco Formation _____

Sampled From 110 feet

Date Sampled September 19, 1983 By Joe Stotts

Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>206</u>	<u>9.0</u>	Chloride <u>16</u>
Calcium <u>6</u>	<u>0.3</u>	Bicarbonate <u>356</u>
Magnesium <u>1</u>	<u>0.1</u>	Sulfate <u>130</u>
Iron <u>.</u>		Carbonate <u>10</u>
H ₂ S <u>.</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 _____

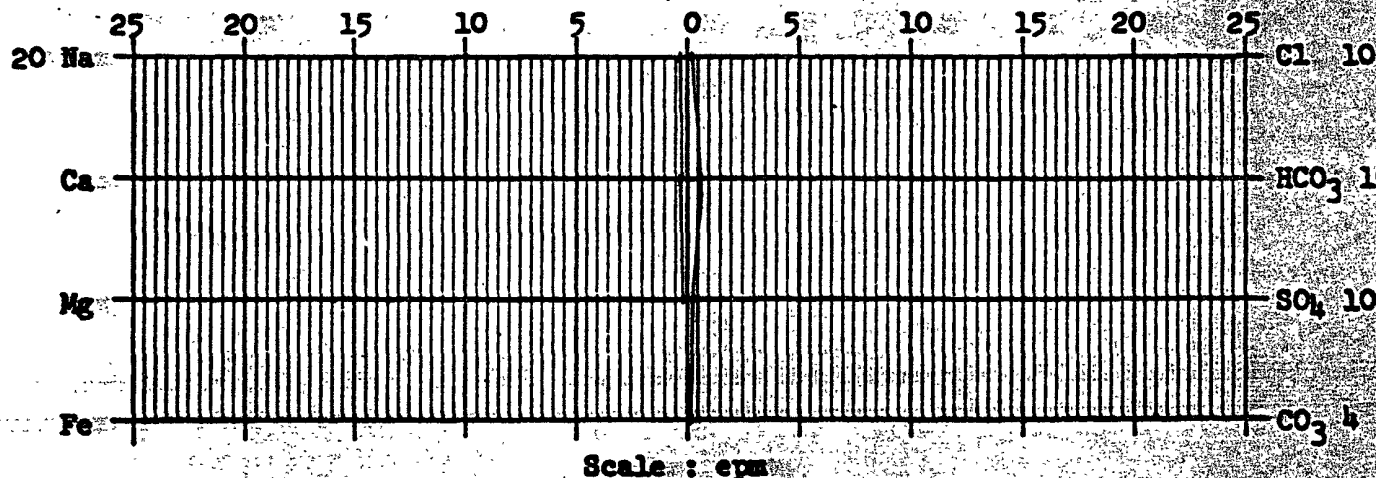
Total Solids Dissolved 616

pH 8.4

Sp. Gr. 0.9974 At 60°F

Resistivity 870 ohm-cm at 74°F

Dennis P. Bird *GCK*
 Chemist



LEASE *SAW JhN* WELL NO. *27-5 #123* CONTRACTOR *SR Drilling* RIG NO. *3* REPORT NO. *1709* - DATE *9-21-83*

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.
					<i>60</i>	<i>300</i>	<i>8" PVC</i>							
					<i>60</i>	<i>300</i>	<i>sand stone</i>							
							<i>shale</i>							

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SL L 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

REMARKS -	REMARKS -	REMARKS -
	<i>waited 90' more 100' to 110</i>	
	<i>50 gal a minute</i>	
	<i>3 hrs Rig time for setting</i>	
	<i>8" PVC</i>	

SIGNED: Toolpusher

Billy Sander

Company Supervisor

J. Stalks