

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 5Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #3, #123, #180cps. 1709wElevation 6421 Completion Date 9/21/83 Total Depth 290' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf 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 TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths 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.

RECEIVED
MAY 31 1984
OIL CON. DIV
DIST. 3

1041

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123-
180-

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 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 }

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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

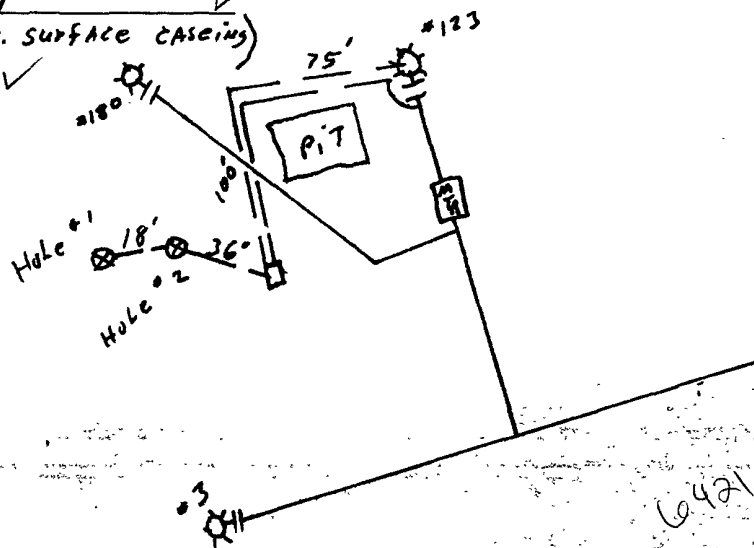
CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1709W	S.J. 27-5 #3	52400-19-50-20-64	600.5 = .86V	☒ Good ☐ Bad
	S.J. 27-5 #123	54902-19-50-20-64	600.4 = .83V	
Location: SW 17-27-5	Anode Size: 2" X 60"	Anode Type: Durion	Size Bit: 6 3/4"	
Depth Drilled: 305'	Depth Logged: 303'	Drilling Rig Time	Total Lbs. Core Used SLUR 3000 LB	Lost Circulation Mat'l Used
Anode Depth Hole #1 260'	Hole #2 →			
Anode Output (Amps) #1 3.16	#2 3.67	#3 4.4	#4 2.8	#5 4.28
Anode Depth #11	#12	#13	#14	#15
Anode Output (Amps) #11	#12	#13	#14	#15
Total Circuit Resistance Volts 12.07V	Amps 14.26A	Ohms .85	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

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" P.V.C. SURFACE CASING ✓
 3 Hr. Rig Time. ✓

All Construction Completed

GROUND BED LAYOUT SKETCH



Time	Res	O.T.
20hr.	16	4

N

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	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	C7 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 - 3	Moved 18' From Hole #1, Started
		Hole #2, SET 60' of 8" P.O.C.
90' - 1.0	60' - 1.88	SURFACE CASING, 3 in. Rig Time
1.28	2.34 - ③	HIT WATER AT 80', MORE WATER
100' - .72	70' - 2.12	BETWEEN 100' & 110'. APPROX 50 GPM
.64	1.49 - ②	Drilled To 303'. Logged 303'.
10' - .5	80' - 1.59	INSTALLED 303' of 1" P.V.C.
.5	1.69	VENT PIPE, PERFORATED 220'
20' - .92	90' - 1.71	
2.21	1.31	
30' - 2.02 - ⑩	300' -	
1.96	303' - T.D.	
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		

$$12.07 V, 14.26 A = .85 \Omega$$

$$1 - 260' \text{ IN Hole \#1} - 1.95 - 3.16$$

$$2 - 275' - 1.5 - 3.67$$

$$3 - 265' - 2.4 - 4.4$$

$$4 - 210' - 1.55 - 2.8$$

$$5 - 200' - 2.45 - 4.28$$

$$6 - 190' - 1.78 - 3.20$$

$$7 - 160' - 1.43 - 2.48$$

$$8 - 150' - 2.52 - 4.35$$

$$9 - 140' - 2.18 - 3.83$$

$$10 - 120' - 2.3 - 3.35$$

Hole #2

Hole a-1

CPS 1709W

SJ 27-5-83

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

SW 17-27-5

*123

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 -	Driller said water at 80'
1.08	.4	& 100-110. Drilled to 110'
90 - 1.39 - ①	60 - 1.98 - ①	Took water sample, water
1.17	1.9	standing in hole next AM
100 - .66	70 - 274 T.D.	at 80'. Driller said hole
.52		making approx. 50 gals/min.
10 - .55	80 -	Installed 274' of 1" P.V.E.
.38		vent pipe perforated 200'.
20 - 1.08 - ①	90 -	Drilled 290', logged 274'.
2.14		Coke around 1" mode,
30 - 1.98 - ①	300 -	Hole fell in, at 40'.
1.79		
40 - 1.89 - ①		
2.43		
50 - 2.24 - ①		
.6		
60 - 1.03 - ①		
.7		
70 - .6		
.5		
80 - .5		1 - 260' - 1.95 -
.56		2 - 210' - 1.59 -
90 - 1.48 - ①		3 - 200' - 2.29 -
2.18		4 - 190' - 1.54 -
200 - 2.38 - ①		5 - 160' -
1.87		6 - 150' -
10 - 1.33 - ①		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

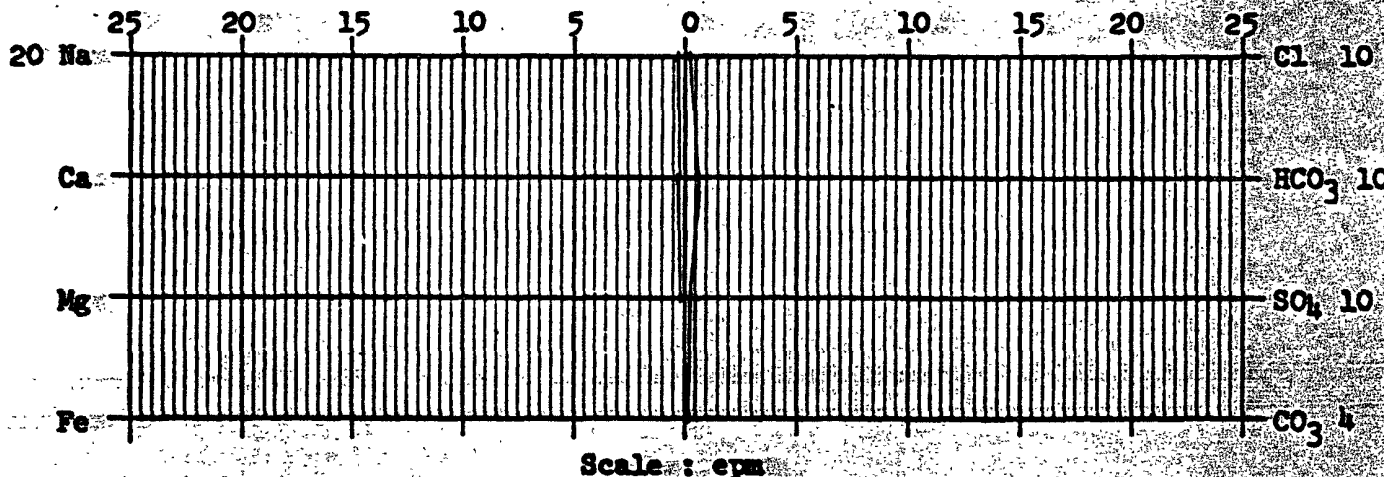
Total Solids Dissolved 616

pH 8.4

Sp. Gr. 0.9974 At 60°F

Resistivity 870 ohm-cm at 74°F

Dennis P. Bird GC/K
 Chemist



LEASE SPW JhW WELL NO. 27-5 #123 #3 CONTRACTOR SR Drilling RIG NO. 3 REPORT NO. 1709 - DATE 9-21-1983

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.
					60	300	8" PVC							
							SANDSTONE							
							SHALE							
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 -				
					waited 90' more 100' to 110									
					50 gal a minute									
					3 hrs Rig time for setting									
					8" PVC									

SIGNED: Toolpusher

Billy Soudue

Company Supervisor

J. E. Slatts