

#52 30-039-07664

#101 30-039-20082

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

Operator MERIDIAN OIL Location: Unit NE Sec. 7 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #52, #101

cps 297w

Elevation 6177 Completion Date 9/7/83 Total Depth 560' Land Type* N/A

Casing, Sizes, Types & Depths 13' OF 8" 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. 110' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 5570 lbs.

Depths anodes placed: 540', 530', 520', 480', 455', 430', 420', 405', 370', 355'

Depths vent pipes placed: 560' OF 1" PVC VENT PIPE

Vent pipe perforations: 470'

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) ☒

Redrill

Completion Date 9-7-83

CPS # <u>297-W</u> <u>279-W</u>	Well Name, Line or Plant: <u>S.J. 29-7 # 52</u>	Work Order # <u>40059-19-50-20-63</u>	Static:	Ins. Union Check ☐ Good ☐ Bad																																																																		
Location: <u>NE 7-29-7</u>	Anode Size: <u>2" X 60"</u>	Anode Type: <u>Nuricon</u>	Size Bit: <u>6 3/4"</u>																																																																			
Depth Drilled <u>560</u>	Depth Logged <u>557</u>	Drilling Rig Time	Total Lbs. Coke Used <u>approx 5,570</u>	Lost Circulation Mat'l Used																																																																		
<table border="1"> <tr> <td>Anode Depth</td> <td># 1 <u>540</u></td> <td># 2 <u>530</u></td> <td># 3 <u>520</u></td> <td># 4 <u>480</u></td> <td># 5 <u>455</u></td> <td># 6 <u>430</u></td> <td># 7 <u>420</u></td> <td># 8 <u>405</u></td> <td># 9 <u>370</u></td> <td># 10 <u>355</u></td> </tr> <tr> <td>Anode Output (Amps)</td> <td># 1 <u>2.6</u></td> <td># 2 <u>3.4</u></td> <td># 3 <u>2.7</u></td> <td># 4 <u>2.2</u></td> <td># 5 <u>1.8</u></td> <td># 6 <u>2.9</u></td> <td># 7 <u>2.5</u></td> <td># 8 <u>1.8</u></td> <td># 9 <u>2.8</u></td> <td># 10 <u>2.4</u></td> </tr> <tr> <td>Anode Depth</td> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> <td># 19</td> <td># 20</td> </tr> <tr> <td>Anode Output (Amps)</td> <td># 11</td> <td># 12</td> <td># 13</td> <td># 14</td> <td># 15</td> <td># 16</td> <td># 17</td> <td># 18</td> <td># 19</td> <td># 20</td> </tr> <tr> <td>Total Circuit Resistance</td> <td colspan="4">Volts <u>12.4</u></td> <td colspan="4">Amps <u>12.5</u></td> <td colspan="2">Ohms <u>1.0</u></td> </tr> <tr> <td colspan="4">No. 8 C.P. Cable Used</td> <td colspan="2">No. 2 C.P. Cable Used</td> <td colspan="2"></td> <td colspan="2"></td> <td></td> </tr> </table>					Anode Depth	# 1 <u>540</u>	# 2 <u>530</u>	# 3 <u>520</u>	# 4 <u>480</u>	# 5 <u>455</u>	# 6 <u>430</u>	# 7 <u>420</u>	# 8 <u>405</u>	# 9 <u>370</u>	# 10 <u>355</u>	Anode Output (Amps)	# 1 <u>2.6</u>	# 2 <u>3.4</u>	# 3 <u>2.7</u>	# 4 <u>2.2</u>	# 5 <u>1.8</u>	# 6 <u>2.9</u>	# 7 <u>2.5</u>	# 8 <u>1.8</u>	# 9 <u>2.8</u>	# 10 <u>2.4</u>	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 <u>12.4</u>				Amps <u>12.5</u>				Ohms <u>1.0</u>		No. 8 C.P. Cable Used				No. 2 C.P. Cable Used						
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Remarks: Drilled 13' of 10" hole, set 13' of 8" casing. Drilled to 140'.
Blew water from hole at 110' next morning. Got water sample.
Installed 560' of 1" PVC vent pipe, of which 470' with perforations.
Slurried approx 5,570 lbs Coke down hole. Driller Estimates
50+ g.p.m.

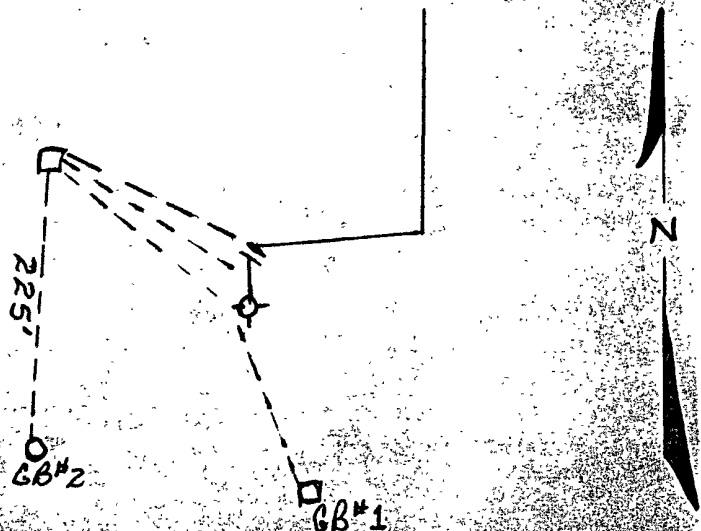
Rectifier Size: 40 V 16 A
 Addn'l Depth: 57
 Depth Credit: _____
 Extra Cable: 5'
 Ditch & 1 Cable: 225
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____

Redrill

All Construction Completed

C. W. Somohue
(Signature)

GROUND BED LAYOUT SKETCH



Req. Time	over-Time
8	2

DAILY DRILLING REPORT

SJ 29-7 #52

NE 7-29-7

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE

19

MORNING

DAYLIGHT

EVENING

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.	
0	235	sandstone			380	395	sand			485	510	sand			
235	252	shale			395	435	shale			510	540	shale			
252	350	sand			435	470	sand			540	560	sand			
350	380	shale			470	485	shale								
BIT				NO. DC				NO. DC				NO. DC			
SERIAL NO.				SIZE				SIZE				SIZE			
SIZE				STANDS				STANDS				STANDS			
TYPE				DOWN ON KELLY				DOWN ON KELLY				DOWN ON KELLY			
MAKE				TOTAL DEPTH				TOTAL DEPTH				TOTAL DEPTH			
MUD RECORD				MUD, ADDITIVES USED AND RECEIVED				MUD RECORD				MUD, ADDITIVES USED AND RECEIVED			
Time				Time				Time				Time			
WT.				WT.				WT.				WT.			
V.S.				V.S.				V.S.				V.S.			
FROM				TO				FROM				TO			
TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN			
REMARKS -				REMARKS -				REMARKS -				REMARKS -			

50+ gal per min

SIGNED: Toolpusher

Company Supervisor

Ray Strull
W. Donohue

C.P.S. 297-W Re
~~279-W~~
 S.J. 29-7 #52
 W.O. #40059-19-50-20-63
 NE7-29-7

Redrill

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 ²	9.64
42.08	C ₃ ²	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

Drilled 13' of 10" Hole. Set
of 8" Cas. ng. Drilled to 140'. Blew
water from Hole at 110' next morning.
Got water sample. Installed 560'
of 1" PVC vent pipe, of which
470' with perforations.

Drilled 560
Logged 557

Slurred approx 5,570 lb
Coke Down hole

Dr. Her Estimates
50+ g.p.m.

①	540	1.5	2.6
②	530	1.6	3.4
③	520	1.6	2.7
④	480	1.3	2.2
⑤	455	1.0	1.8
⑥	430	1.5	2.9
⑦	420	1.4	2.5
⑧	405	1.2	1.8
⑨	370	1.5	2.8
⑩	355	1.5	2.4

12.4V 12.5A 1.0Ω

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

Analysis No. 1-10836 Date September 14, 1983

Operator El Paso Natural Gas Well Name San Juan 29-7 #52 CPS 297W

Location NE 7-29-7 County Rio Arriba State New Mexico

Field Blanco Formation

Sampled From 110 feet

Date Sampled September 7, 1983 By Bill Donahue

Tbg. Press. Csg. Surface Csg. Press.

	ppm	epm		ppm	epm
Sodium	<u>165</u>	<u>7.2</u>	Chloride	<u>18</u>	<u>0.5</u>

Calcium	<u>540</u>	<u>27.0</u>	Bicarbonate	<u>156</u>	<u>2.6</u>
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Magnesium	<u>39</u>	<u>3.2</u>	Sulfate	<u>1,650</u>	<u>34.3</u>
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Iron	<u></u>	<u></u>	Carbonate	<u>0</u>	<u>0</u>
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H ₂ S	<u></u>	<u></u>	Hydroxide	<u>0</u>	<u>0</u>
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cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

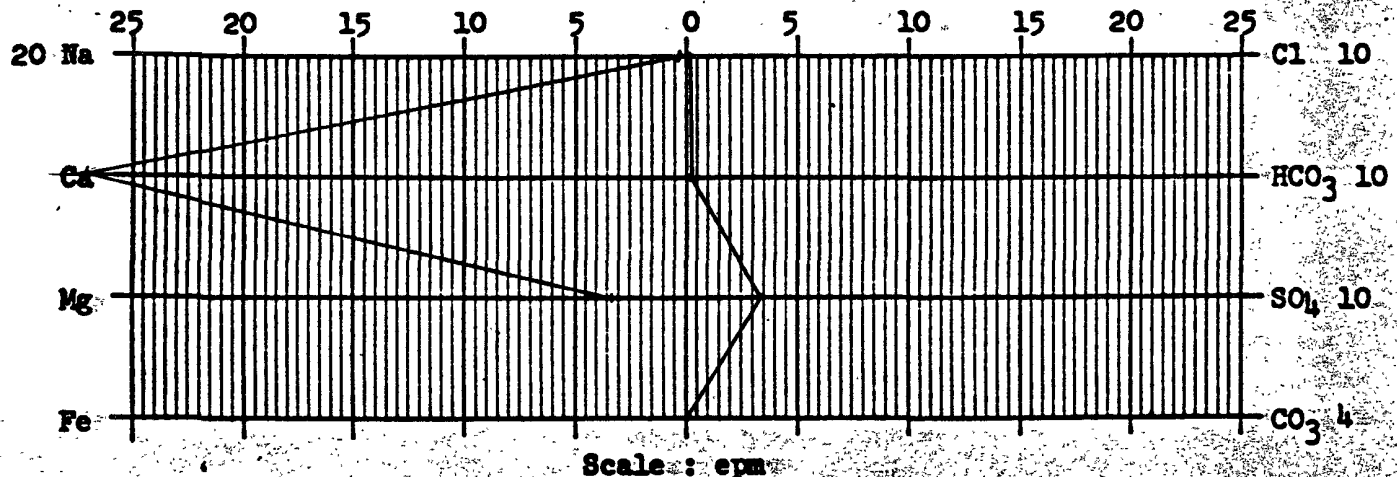
Total Solids Dissolved 2,590

pH 8.0

Sp. Gr. 1.0016 At 60°F

Resistivity 303 ohm-cm at 76°F

Dennis P. Bird *GCK*
Chemist



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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NE Sec. 7 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #52, #101

cps 297w

Elevation 6177' Completion Date 3/9/63 Total Depth 160' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 1190 lbs.

Depths anodes placed: 137', 131', 125', 85', 75', 65'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: qb.#1

RECEIVED

MAY 31 1991

OIL CON. D

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

DATE 3-9-63

WELL NAME SAN JUAN 29-7 # 52 CPS NO. 297W

LOCATION 7 - 29N - 7W

WORK ORDER NUMBER 184-40542-50-02

ANODE HOLE DEPTH 160'

TOTAL DRILLING RIG TIME 6 hrs

DRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED _____

NUMBER SACKS MUD USED 0

NUMBER SACKS LOST CIRCULATION MAT'L USED 0

ANODE DEPTHS #1 137', #2 131', #3 125', #4 85' 5.75 6.65'

TOTAL LBS. COKE USED 1190 lbs

ANODE OUTPUTS 12.2 VOLTS, #1 1.8, #2 2.2, #3 2.7, #4 2.2 5.3 6.3

TOTAL CIRCUIT RESISTANCE: VOLTS 11.9 AMPERES 6.6 OHMS 1.82

NUMBER FEET SURFACE CABLE CONDUIT 665'

DRILLING LOG (ATTACH HERETO).

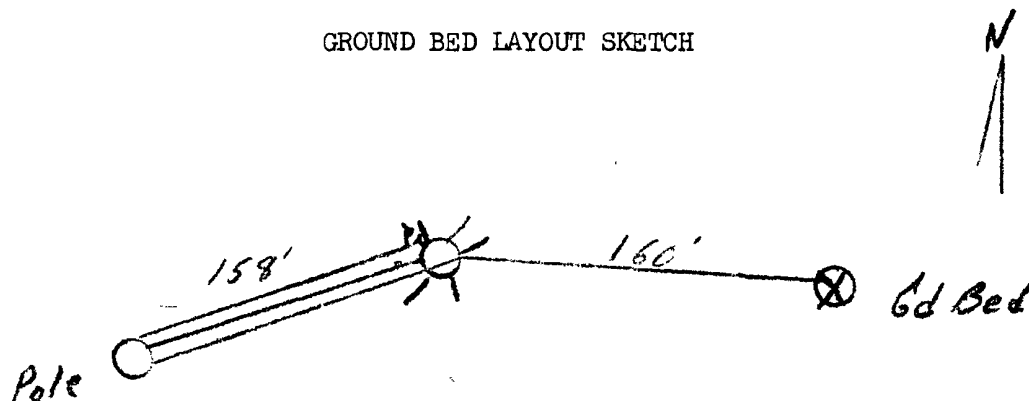
FORMATION LOG (ATTACH HERETO).

REMARKS: Static 9/5 = .79 R 600' NE

ALL CONSTRUCTION COMPLETED

E. Paulk
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

MORNING

[illegible]

BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.
SERIAL NO. 62210	STANDS			SERIAL NO.	STANDS		
SIZE 6 3/4	SINGLES			SIZE	SINGLES		
TYPE 100K	DOWN ON KELLY			TYPE	DOWN ON KELLY		
MAKE Hughes	TOTAL DEPTH 160'			MAKE	TOTAL DEPTH		

[illegible][illegible]

REMARKS -

3-8-63	Drilled to 100'	Load water	3 hrs
3-9-63	"	From 100 to 160'	Load water 3 hrs.

Company Supervisor

10