

#69 30-039-06957

#146 30-039-20274

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. 24 Twp. 27 Rng. 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #69, #146
cps 130lw

Elevation 6611' Completion Date 9/1/78 Total Depth 440' 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. 305' SAMPLE TAKEN

Depths gas encountered: N/A

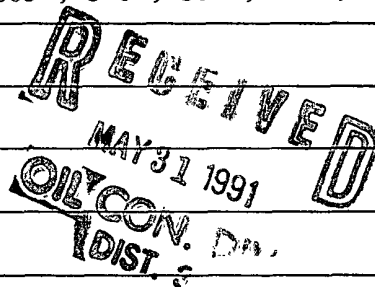
Type & amount of coke breeze used: 55 SACKS

Depths anodes placed: 415', 405', 395', 385', 375', 365', 310', 300', 275', 265'

Depths vent pipes placed: 440'

Vent pipe perforations: 200'

Remarks: gb #1



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 9/1/78

Well Name <u>S.J. #28-6 #69</u> <u>S.J. #28-6 #146</u>		Location <u>SW 24-27-6</u>		CPS No <u>1301W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>53148-19</u> <u>54711-19</u>	
Anode Hole Depth <u>440' - T.D. 440'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>55 SACKS</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>415'</u>	# 2 <u>405'</u>	# 3 <u>395'</u>	# 4 <u>385'</u>	# 5 <u>375'</u>	# 6 <u>365'</u>
# 7 <u>310'</u>	# 8 <u>300'</u>	# 9 <u>275'</u>	# 10 <u>265'</u>		
Anode Output (Amps)					
# 1 <u>2.7</u>	# 2 <u>2.8</u>	# 3 <u>3.1</u>	# 4 <u>3.0</u>	# 5 <u>2.9</u>	# 6 <u>3.2</u>
# 7 <u>3.1</u>	# 8 <u>4.7</u>	# 9 <u>3.1</u>	# 10 <u>4.4</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			No. 8 C.P. Cable Used		No. 2 C.P. Cable Used
Volts <u>12.1 V</u>	Amps <u>16.5 A</u>	Ohms <u>.73</u>			

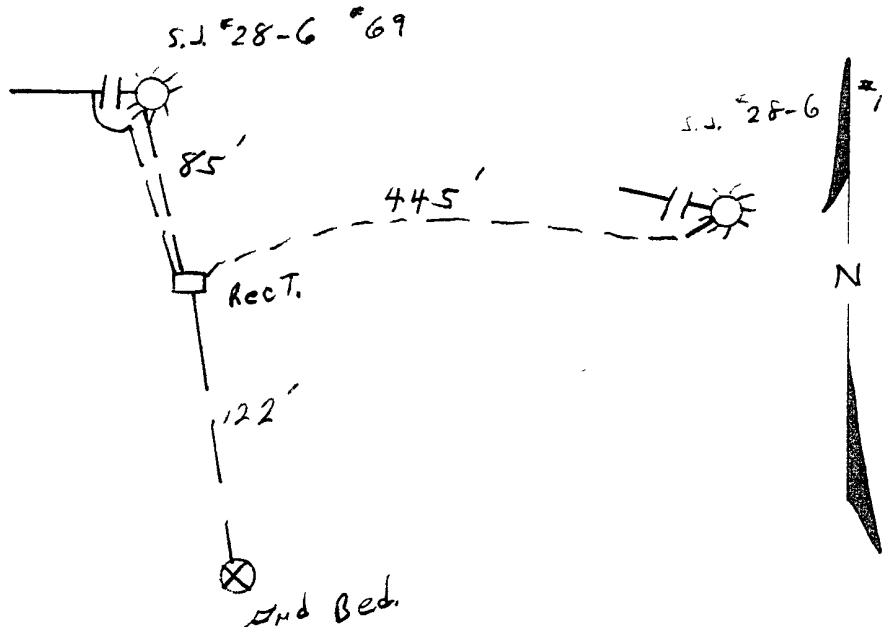
Remarks: (STATIC 600' south = .81V. well #69) (STATIC 600' south = .79V. well #146)
Drilled 320', HIT WATER AT 305', WATER STANDING IN HOLE NEXT A.M.
AT 250', HOLE MAKING APPROX 35 GAL/MIN. DRILLED TO 440', LOGGING ANODE
STOPPED AT 440'. INSTALLED 440' of 1" P.V.C. VENT PIPE PERFORATE
TO 200'.

Ditch + 1 cable = 652'
EXTRA cable = 85'
Stub Pole + 60V 30A Rect.
Hole Depth - 60'

All Construction Completed

JE Stoltz
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

Well

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
Date: _____
By: _____
File: _____

CPS #1301 W 4.0-53148-19-S.J. 28-6-69
W.O.-54711-19- " " -2146

SW 24-27-6

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

250-2.5 40-1.2 F.D.
2.7
60-2.4 50-
2.0-⑬
70-2.1 60-
1.4-⑨
80-1.1 70-
.9
90-.5 80-
.9
300-1.6-⑧ 90-
1.7
10-1.5-① 500-
.9
20-.4
.3
30-.5
.3
40-.3
.3
50-1.2
1.0
60-1.7
1.9-⑥
70-1.6
1.6-⑤
80-1.5
1.6-④
90-1.6
1.6-③
400-1.7
1.7-②
10-1.5
1.4-①
20-1.3
1.1
30-1.4
-1.2

Drilled 320 HIT WATER
AT 305. WATER STANDING IN
hole NEXT A.M. AT 250'.
Took WATER SAMPLE, Drilled To
440'. Logged hole. Logging
ANODE STOPPED AT 440'.
440' of 1" P.V.C. VENT PIPE
PERFORATED TO 200'.
Hole MAKING APPROX. 35 g/h

1-415-1.5-2.7
2-405-1.7-2.8
3-395-1.8-3.1
4-385-1.8-3.0
5-375-1.8-2.9
6-365-1.9-3.2
7-310-1.5-2.1
8-300-2.1-4.7
9-275-1.5-3.1
10-265-2.2-4.4

16.5 A 12.1 V = .73

9/1/78
JL

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

Analysis No. 1-9334 Date SEPTEMBER 19, 1978

Operator EPNG Well Name SAN JUAN 28-6 #69 & #146

Location 24-27-6 County RIO ARRIBA State NM

Field CPS 1301 Formation

Sampled From CPS ~~1301W~~ 305' 9 gal/m

Date Sampled By

Tbg. Press. Csg. Press. Surface Csg. Press.

ppm epm ppm epm

Sodium 278 12.1 Chloride 10 .3

Calcium 5 0.3 Bicarbonate 354 5.8

Magnesium 1.5 0.1 Sulfate 250 5.2

Iron PRESENT Carbonate 36 1.2

H₂S ABSENT Hydroxide 0 0

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

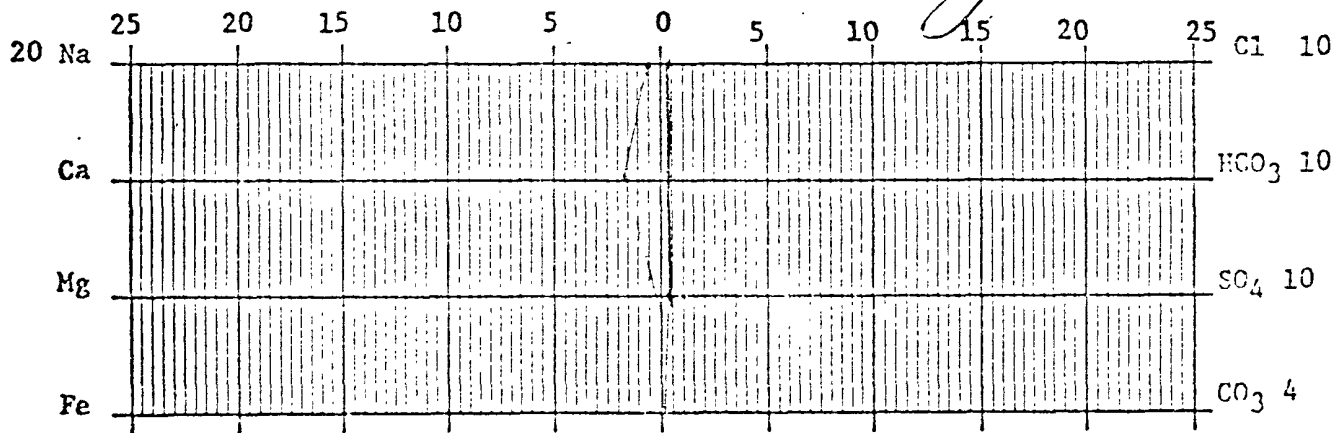
Total Solids Dissolved 358

pH 9.25

Sp. Gr. at 60°F

Resistivity 850 ohm-cm at °F

Alton Jones
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE			WELL NO. 1301 W			CONTRACTOR D. H. Dyer			RIG NO. 2			REPORT NO.			DATE Sep 1			19 78		
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.						
BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.			
SERIAL NO.		STANDS		SINGLES		SERIAL NO.		STANDS		SINGLES		SERIAL NO.		STANDS		SINGLES				
TYPE		DOWN ON KELLY		TOTAL DEPTH		TYPE		DOWN ON KELLY		TOTAL DEPTH		TYPE		DOWN ON KELLY		TOTAL DEPTH				
MAKE		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		MAKE		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		MAKE		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED				
Time	SL	Vis.			Time	SL	Vis.			Time	SL	Vis.								
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN								
0	20	Surface			80	90	Shale			300	305	Sandy shale (water)								
20	40	Sandy shale			90	120	Sandstone			305	315	Shale								
40	45	Sandstone			120	140	Shale			315	340	Shale								
4	60	Shale			140	150	Shale & sandstone			340	360	Sandy shale								
60	70	Shale			150	200	Sandy shale			360	395	Shale								
70	80	Shale & sandstone			200	300	Sandy shale			395	440	Sandy shale								
REMARKS -					REMARKS -					REMARKS -										
										Spilled 6 PM to 440 Logger in 440 Est water 35 gal. M.										

SIGNED: Toolpusher

D. F. M. Donald

... (a) ... my ...