

1253

E

30-039-21864

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. 10 Twp 28 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #96

cps 1540w

Elevation 6712' Completion Date 6/2/80 Total Depth 430' 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. 40' SAMPLE TAKEN

Depths gas encountered: N/A

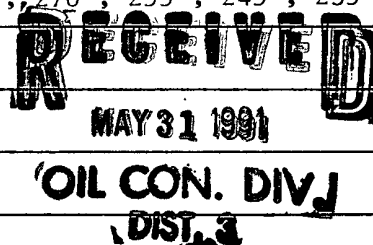
Type & amount of coke breeze used: 44 SACKS

Depths anodes placed: 375', 355', 340', 320', 290', 270', 255', 245', 235', 210'

Depths vent pipes placed: 420'

Vent pipe perforations: 360'

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) ☐

2" x 60" Anodes

Completion Date 6-2-80

Well Name S.J. 28-5 #96		Location SE 10-28-5		CPS No. 1540 W	
Type & Size Bit Used 6 3/4"				Work Order No. 57505-21	
Anode Hole Depth 430' 1099ed 420'	Total Drilling Rig Time	Total Lbs. Coke Used 44 Sacks	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 375'	# 2 355'	# 3 340'	# 4 320'	# 5 290'	# 6 270'
# 7 255'	# 8 245'	# 9 235'	# 10 210'		
Anode Output (Amps)					
# 1 3.3	# 2 3.1	# 3 3.0	# 4 3.8	# 5 4.6	# 6 3.2
# 7 3.25	# 8 3.85	# 9 4.70	# 10 3.65		
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		
Volts 11.3			Amps 11.9		
Ohms .60			No. 2 C.P. Cable Used		

Remarks: STATIC 600' N = .98. INSULATED UNION - OK. DRILLER SAID HOT WATER AT 40' INSTALLED 420' OF 1" VENT PIPE. PERFORATE 360' OF VENT PIPE

Nothing has been INSTALLED

1 STUB Pole

1 40V 16A RECT

DITCH + 1 cable - 275'

EXTRA cable - 214'

HOLE - 80'

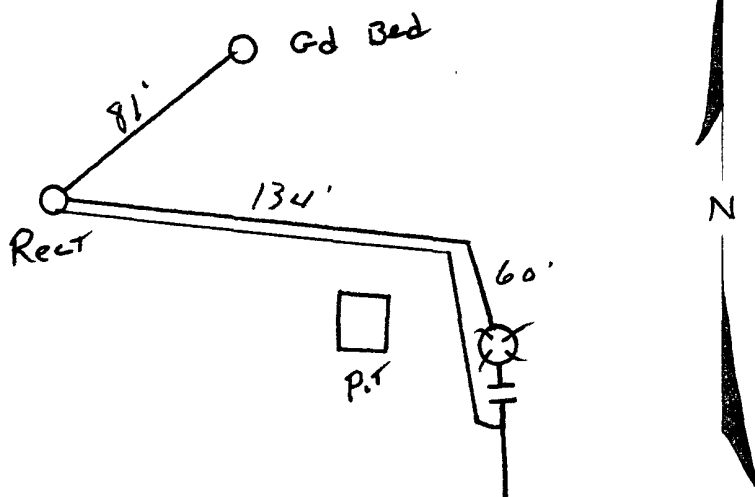
Time - 19 hrs.

All Construction Completed

W. L. Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH

14 Hrs. REG.
5 Hrs. O.T.



DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File

6712

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 6-2-8 of 8
Date: 6-2-8
By: WK
File: 19 hrs.

S.J. 28-5 #96
SE 10-28-5
CPS 1540 W
W/O 57505-21

STATIC 600' N = .98
INSULATED UNION - OK

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

1 STUB POLE
1 40V 16A RECT
DITCH & 1 COBIE
EXTRA COBIE
Hole

DRILLER SAID HIT WATER AT
40'. CAUGHT WATER SAMPLE
DRILLED TO 200' NOT ENOUGH
SHAIR DRILLED TO 430'.
INSTALLED 420' OF 1" VENT PIPE
PERFORATED 360' OF VENT PIPE
STIRRIED 44 SACK OF COKE
Breeze

40	1.0	1.9	220	2.0
45	1.0	2.8	225	1.7
50	1.20	2.4	230	2.7
55	1.20	1.8	235	2.9 ①
60	1.10	1.9	240	2.7
65	.80	1.5	245	2.4 ①
70	.80	1.5	250	2.0
75	.80	1.7	255	2.0 ①
80	.80	1.7	260	1.5
85	.60	1.4	265	1.7
90	.65	1.10	270	2.2 ①
95	.65	1.0	275	2.1
100	.60	1.0	280	1.7
105	.45	1.0	285	1.8
110	.40	1.0	290	2.7 ①
115	.45	1.0	295	3.1
120	.65	1.7	300	3.3
125	1.45	2.4	305	3.2
130	.70	2.0	310	3.1
135	.85	2.3	315	2.4
140	.85	2.7	320	2.3 ①
145	1.00	2.6	325	2.4
150	1.45	2.6	330	.4
155	1.40	2.4	335	1.5
160	.80	2.2	340	2.2 ①
165	.45	1.0	345	1.6
170	.40	.50	350	1.3
175	1.00	1.1	355	2.1 ①
180		1.4	360	1.6
185		.9	365	1.6
190		.8	370	1.8
195		.9	375	2.0 ①
200		2.5	380	1.1
210		2.6 ①	385	.6
215		1.8	390	.4

400	1.1
405	1.5
410	.4
415	.4
420	1099ed
425	
430	T.D.
435	
440	
445	

① 375	2.15	3.3
② 355	2.10	3.1
③ 340	2.10	3.0
④ 320	2.35	3.8
⑤ 290	2.70	4.6
⑥ 270	2.10	3.2
⑦ 255	2.00	3.25
⑧ 245	2.40	3.85
⑨ 235	2.95	4.70
⑩ 210	2.60	3.65

11.3 V 18.9 A .60 n

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

Analysis No. 1-9913 Date 6-23-80

Operator El Paso Natural Gas Well Name San Juan 28-5 #96

Location SE 10-28-5 County Rio Arriba State New Mexico

Field Basin Formation Dakota

Sampled From GP-10-28-5

Date Sampled 6-2-80 By

Tbg. Press. Csg. Surface Csg. Press.

Sodium <u>1035</u> ppm	<u>45</u> epm	Chloride <u>10</u> ppm	<u>.3</u> epm
------------------------	---------------	------------------------	---------------

Calcium <u>204</u> ppm	<u>10</u> epm	Bicarbonate <u>137</u> ppm	<u>2</u> epm
------------------------	---------------	----------------------------	--------------

Magnesium <u>16</u> ppm	<u>1</u> epm	Sulfate <u>2600</u> ppm	<u>54</u> epm
-------------------------	--------------	-------------------------	---------------

Iron <u>No Test</u>		Carbonate <u>0</u>	<u>0</u>
---------------------	--	--------------------	----------

H ₂ S <u>Present</u>		Hydroxide <u>0</u>	<u>0</u>
---------------------------------	--	--------------------	----------

cc: C.B. O'Nan Total Solids Dissolved 4066

R.A. Ullrich pH 7.9

E.R. Paulek

J.W. McCarthy Sp. Gr. 1.0046 At 60°F

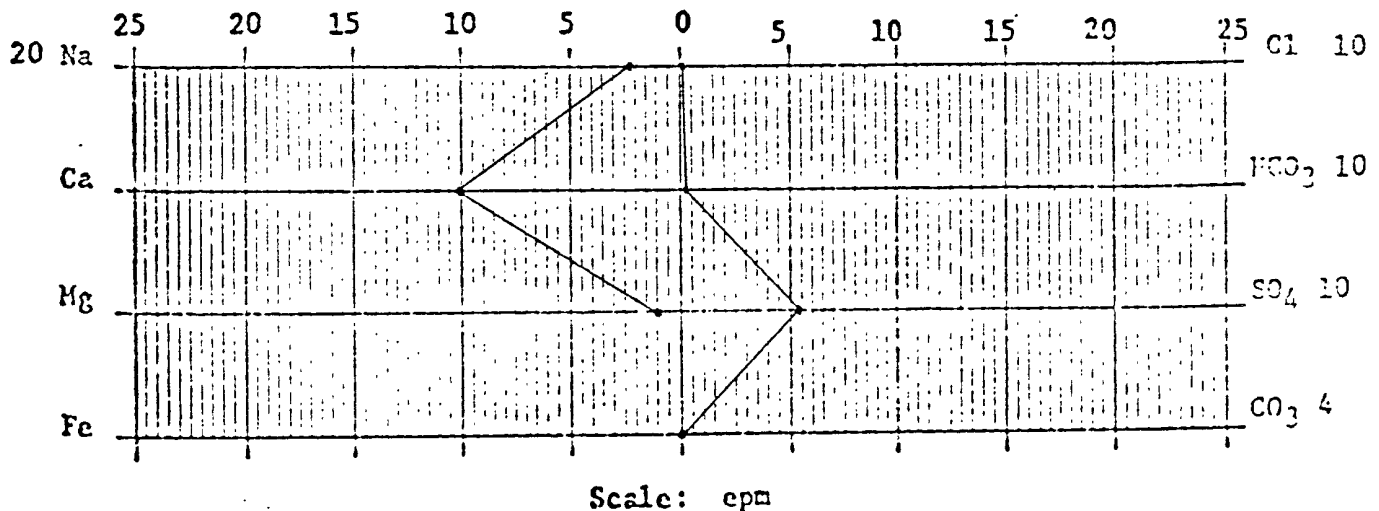
A.M. Smith

W.B. Shropshire Resistivity 211 ohm-cm at 77°F

D.C. Adams

File

Deborah L. Smetana
Chemist RZE



San Juan 28-5 No. 96 Three C Drilling

2

CPS 1540W DAILY DRILLING REPORT

LEASE SE 10-28-5

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO. 57505-2A DATE June 2 1980

MORNING

DAYLIGHT

EVENING

Driller Kevin Burge

Total Men In Crew 2

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 6 3/4	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.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
20	100	sandstone + shale + bentonite						
100	180	shale + sandstone shale						
180	240	sandstone bentonite						
240	330	shale + sandstone bentonite						
330	390	shale						
390	430	sandstone + bentonite						

REMARKS - Water was at 40' feet
110' feet 2 gallons a minute

REMARKS -

REMARKS -

SIGNED: Toolpusher

Kevin Burge

Company Supervisor