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30-039-07207

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. 3 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #21

cps 1544w

Elevation 6683' Completion Date 6/5/80 Total Depth 540' 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. 260' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 53 SACKS

Depths anodes placed: 500', 490', 480', 470', 450', 410', 400', 390', 380', 320'

Depths vent pipes placed: 525'

Vent pipe perforations: 300'

Remarks: gb #1

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 6-5-80

Well Name <u>SJ27-5 #21</u>		Location <u>SE3-27-5</u>		CPS No. <u>1544W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57591-21</u>	
Anode Hole Depth <u>540'</u> <u>logged 525'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>53 Sacks</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>500</u>	# 2 <u>490</u>	# 3 <u>480</u>	# 4 <u>470</u>	# 5 <u>450</u>	# 6 <u>410</u>
# 7 <u>400</u>	# 8 <u>390</u>	# 9 <u>380</u>	# 10 <u>320</u>		
Anode Output (Amps)					
# 1 <u>2.2</u>	# 2 <u>3.1</u>	# 3 <u>3.7</u>	# 4 <u>2.5</u>	# 5 <u>2.2</u>	# 6 <u>4.4</u>
# 7 <u>3.9</u>	# 8 <u>2.9</u>	# 9 <u>1.8</u>	# 10 <u>2.1</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>13.1</u>	Ohms <u>.95</u>			
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

Remarks: DRILLER SAID HIT WATER AT 260' GOT WATER SAMPLE.
STATIC 600' S = .84, INSULATED UNION - NOT TIED IN
INSTALLED 525' OF 1" VENT PIPE, PERFORATED 300' OF VENT PI.
MAKING 19 GALS/MIN

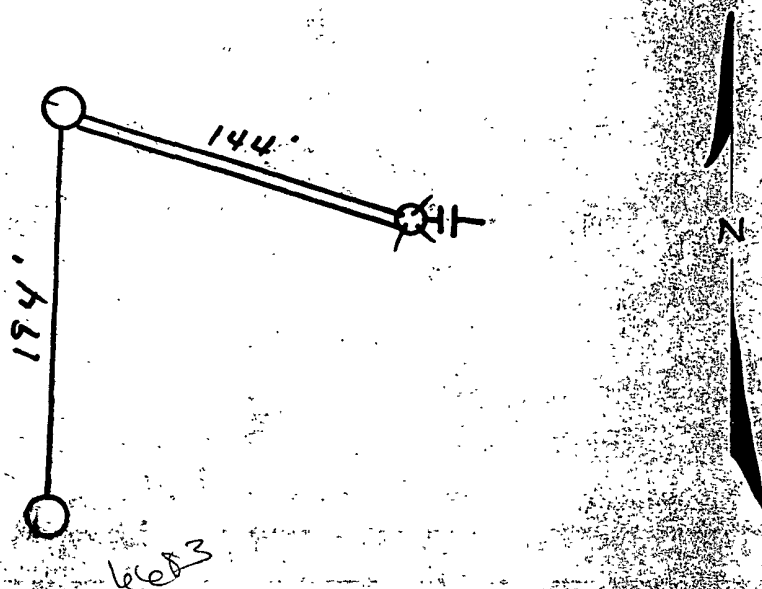
All Construction Completed

1 20' METER Pole - N.I.
 1 40V 16A RECT. - N.I.
 1 FCT. BOX - N.I.
 DITCH + 1 cable - 338'
 EXTRA cable - 164'
 Hole + 25'

GROUND BED LAYOUT SKETCH

Hills Knight Jr.
(Signature)

Time
 6-4-80 - 3 HRS. OT
 6-5-80 - 8 "
 6-6-80 - 8 "
 6-9-80 - 9 " 1 HR. OT



DISTRIBUTION:

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

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1
Date: 6-9-80
By: WK
File: _____S.S. 27-5-#21A
SE 3-27-5
CPS 1544W
W/o 57591STATIC 600' S = .84
INSULATED UNION - NOT Tied IN

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 20' METER Pole
1 40V 16A Rect.
1 Jet Box
Ditch + 1 cable - 338'
EXTRA cable - 164'
Hole + 25'DRILLER said HIT WATER
AT 260'. Blew water, got
sample. Drilled to 540'
10990d 525' INSTALLED 525'
of 1" VENT Pipe. Perforated
300' of VENT Pipe.
Slurried 53 SACKS of coke
Breeze

260	.9	435	.3
265	.8	440	.3
270	.65	445	.3
275	.55	450	1.3 ⑤
280	.50	455	1.0
285	.55	460	.6
290	.50	465	1.75
295	.85	470	1.3 ④
300	1.35	475	1.35
305	1.5	480	1.4 ③
310	1.5	485	1.6
315	1.4	490	1.5 ②
320	1.5 ⑩	495	1.2
325	1.2	500	1.1 ①
330	.9	505	1.1
335	.7	510	1.85
340	.6	515	1.3
345	.4	520	1.3
350	.4	525	1.1 10990d
355	.65	530	
360	.55	535	
365	.65	540	T.D
370	.50		
375	1.0		
380	1.15 ⑨		
385	1.3		
390	1.5 ⑧		
395	1.7		
400	1.85 ⑦		
405	1.6		
410	1.3 ⑥		
415	.9		
420	.9		
425	.6		
430	.6		

①	500 - 1.34	2.2
②	490 - 1.80	3.1
③	480 - 2.0	3.7
④	470 - 1.4	2.5
⑤	450 - 1.3	2.2
⑥	410 - 2.1	4.4
⑦	400 - 2.0	3.9
⑧	390 - 1.6	2.9
⑨	380 - 1.3	1.8
⑩	320 - 1.6	2.1

12.4V 13.1A 1.95W

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

Analysis No. 1-9912 Date 6-23-80
Operator El Paso Natural Gas Well Name San Juan 27-5 #21A
Location SE 3-27-5 County Rio Arriba State New Mexico
Field Blanco Formation Mesa Verde
Sampled From CPS 1544W

Date Sampled 6-5-80 By Willis Knight

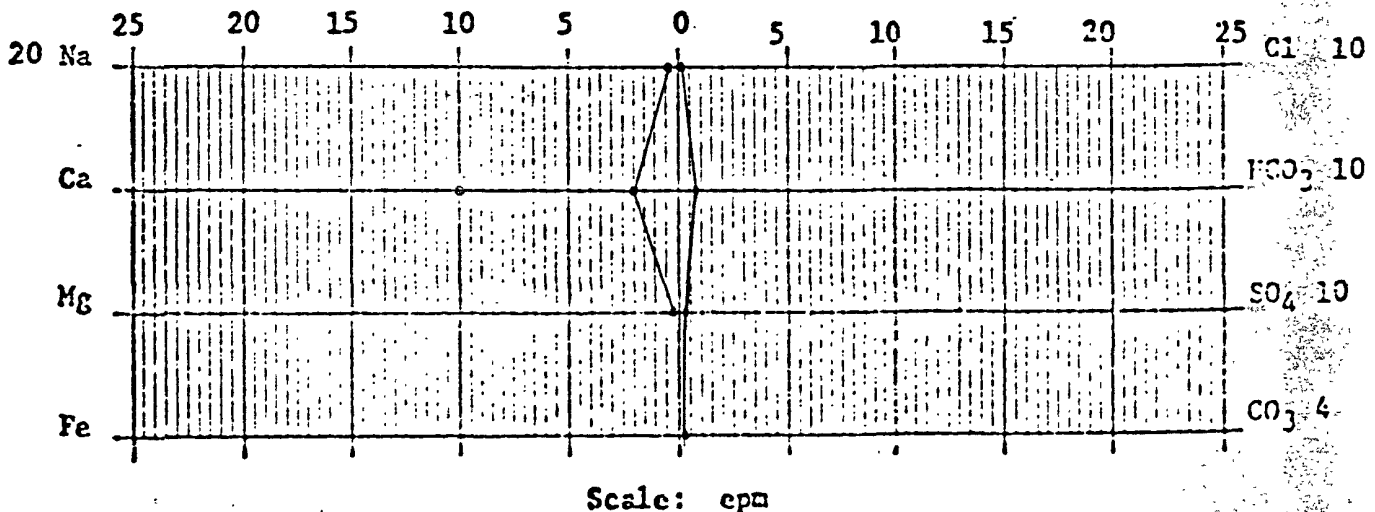
Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>207</u>	<u>9</u>	Chloride <u>10</u>
Calcium <u>40</u>	<u>2</u>	Bicarbonate <u>439</u>
Magnesium <u>3</u>	<u>.3</u>	Sulfate <u>150</u>
Iron <u>No Test</u>		Carbonate <u>36</u>
H ₂ S <u>Absent</u>		Hydroxide <u>0</u>

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

Total Solids Dissolved 988
pH 9.3
Sp. Gr. 1.0056 At 60°F
Resistivity 1235 ohm-cm at 77°F

Deborah Denetclaw
Chemist

RZE



SAN Juan 27-5

21A

Three C Drilling
CONTRACTOR

2

CPS-1544-W DAILY DRILLING REPORT

LEASE SE 3-27-5

WELL NO..

CONTRACTOR

RIG NO.

REPORT NO. 57591-21 DATE June 6 1980

MORNING

DAYLIGHT

EVENING

Driller Kevin Burge

Total Men in Crew: 2

Driller

Total Men In Crew

Driller

Total Men In Crew

[illegible]

	NO. DC	SIZE	LENG.		NO. DC	SIZE	LENG.		NO. DC	SIZE	LENG.
BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.	BIT NO.	NO. DC	SIZE	LENG.
SERIAL NO.	STANDS			SERIAL NO.	STANDS			SERIAL NO.	STANDS		
SIZE 6 3/4	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		

[illegible][illegible][illegible]

SIGNED: Toolpusher

Kevin Burge

____ Company Supervisor