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30-039-22251

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. 24 Twp 28 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #65A

cps 1613w

Elevation 6579' Completion Date 10/7/81 Total Depth 415' 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. 160' - 175' & 380'

SAMPLE TAKEN

Depths gas encountered: N/A

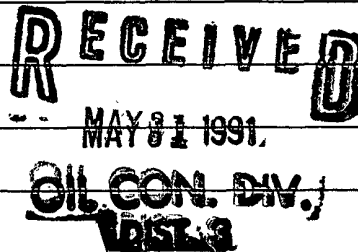
Type & amount of coke breeze used: 4000 lbs.

Depths anodes placed: 380', 320', 310', 290', 280', 270', 260', 245', 230', 210'

Depths vent pipes placed: 400'

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 10-7-81

Well Name SS 28-6 #65A		Location SE 24-28-6		CPS No. 1613W	
Type & Size Bit Used 6 3/4"		Work Order No. 57850-21-50-20			
Anode Hole Depth 415 Logged 400		Total Drilling Rig Time		Total Lbs. Coke Used 4000 lbs Approx	
Anode Depth		Lost Circulation Mat'l Used		No. Sacks Mud Used	
# 1 380	# 2 320	# 3 310	# 4 290	# 5 280	# 6 270
# 7 260	# 8 245	# 9 230	# 10 210		
Anode Output (Amps)					
# 1 2.2	# 2 2.4	# 3 3.1	# 4 2.7	# 5 3.1	# 6 4.5
# 7 3.8	# 8 2.9	# 9 2.9	# 10 3.1		
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 11.8		Amps 16.4		Ohms .72	

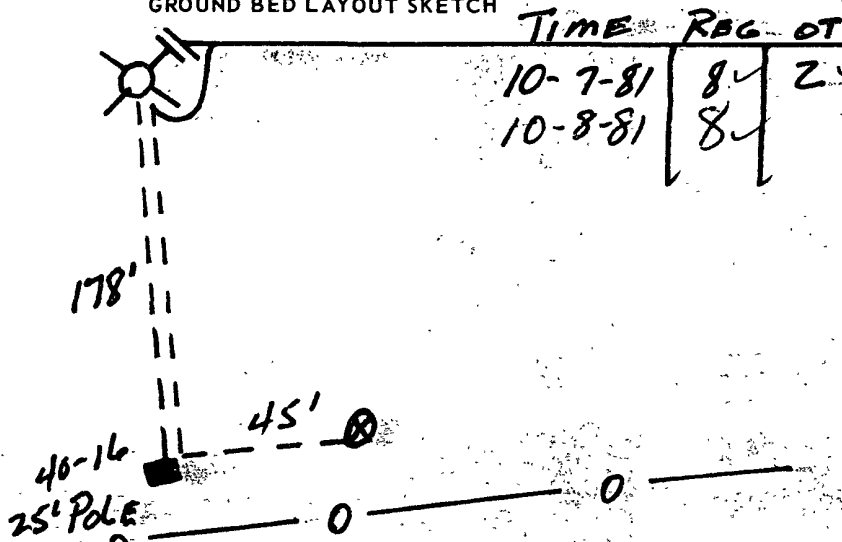
Remarks: DAMP AT 160'-175' SET 30 MIN Blow Sample
MORE WATER AT 380' - Hole bridged AFTER #1 Respond
Blew hole clean next A.M. - Slurried approx 4000 Lbs
total of bulk coke - Inst 600 FT of vent pipe
with 200 FT PERF

Hole depth = -100 ✓
EXTRA CABLE = 198 ✓
Ditch + CABLE = 223 ✓
25' meter Pole ✓
40V 16A Rect ✓

All Construction Completed

BT (Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

1613W

ST 28-6 #65A
SE 24-28-6

57850-21-50-2

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 9.62
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

DAMP AT 160-175' SET 30 MIN BLOW
 SAMPLE MORE WATER AT 380' DRILL TO
 415' LOG TO 400' hole bridged AT 155' Blow
 Bridge + CAVING shale out next AM - ~~blurred~~
 Approx 4000 Lbs Bulk coke. INST 400 FT vent
 P ~~155~~ WITH 200 FT PERF

170	54	55	2.25	7	40	.64
75	47	60	2.44	-⑧	45	.50
80	87	65	2.27	-6	50	.44
85	1.65	70	2.35	-⑦	55	.59
90	1.94	75	2.67	-5	60	.52
95	1.88	80	1.88	-⑥	65	.50
200	2.58	85	1.38	-4	70	.48
5	2.40	90	1.54	-⑤	75	.55
10	1.86	-10	95	1.69	80	1.02
15	1.12	300	2.33	-④	85	.90
20	.88	5	1.67	-3	90	1.57
25	.74	10	1.97	-③	95	1.90
30	1.02	15	1.92	-2	400	T.D.
35	2.25	20	1.15	-②	5	
40	1.52	25	1.06	-1	10	
45	1.37	30	.90			
50	1.62	35	.84			

#1	380'	1.02 - 2.2
2	320'	1.31 - 2.4
3	310'	1.92 - 3.4
4	300' 290	1.38 - 2.7
5	290' 280	1.59 - 3.1
6	280' 270	2.19 - 4.5
7	270' 260	2.20 - 3.8
8	260' 245	1.36 - 2.9
9	245' 230	1.26 - 2.9
10	230' 210	1.59 - 3.1

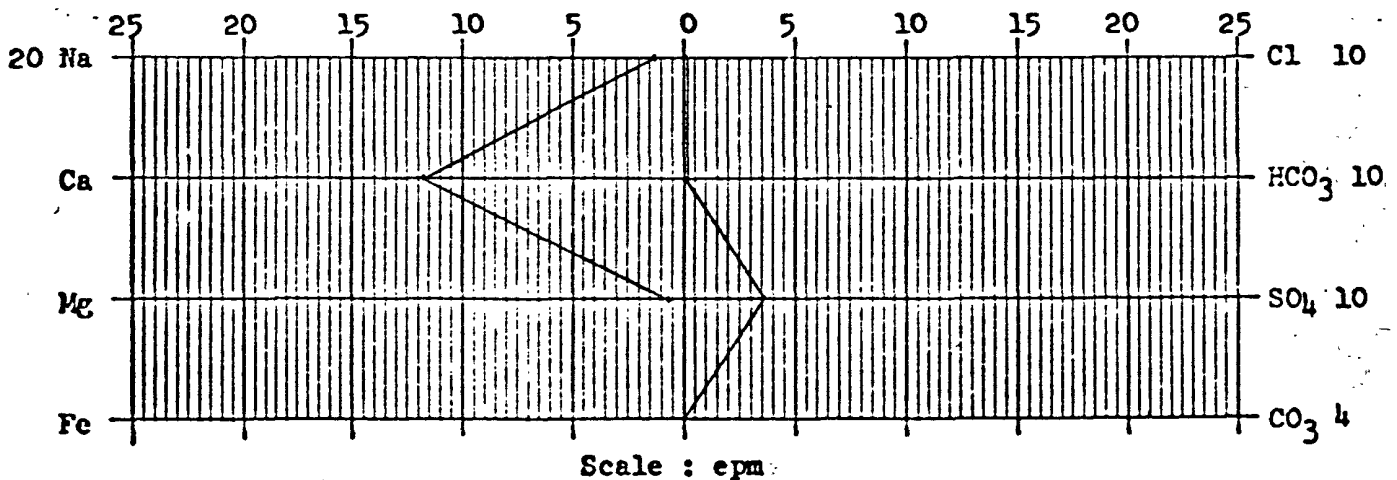
$$11.8V / 6.4A = .72$$

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

Analysis No. 1-10416 Date 11-3-81
Operator EPNG Well Name SAN JUAN 28-6#65A CPS-1613W
Location SE 24-28-6 County RIO ARRIBA State NEW MEXICO
Field CEDAR HILL Formation _____
Sampled From 170'
Date Sampled 10-14-81 By _____
Tbg. Press. _____ Csg. _____ Surface Csg. Press. _____
Sodium 586 ppm 25.5 epm Chloride 22 ppm 0.6 epm
Calcium 237 ppm 11.8 epm Bicarbonate 88 ppm 1.4 epm
Magnesium 8 ppm 0.6 epm Sulfate 1725 ppm 35.9 epm
Iron _____ Carbonate 0 ppm 0 epm
H₂S _____ Hydroxide 0 ppm 0 epm
cc: R. A. Ullrich Total Solids Dissolved 2776
E. R. Paulek
J. W. McCarthy pH 7.6
J. D. Evans
W. B. Shropshire Sp. Gr. 1.0010 At _____ 60°F
D. C. Adams
File Resistivity 286 ohm-cm at _____ 70 °F

DENNIS P. BIRD
Chemist

RZE



Savage Drilling Co.

DATE 10-6-81 19

EVENING

REMARKS -	REMARKS -	REMARKS -
	Water @ 170' + 380'	

Company Supervisor

John Blake Vincent