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30-039-23794

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

Operator MERIDIAN OIL INC. Location: Unit 0 Sec. 21 Twp 28 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #67M

cps 1887w

Elevation 6713' Completion Date 6/26/87 Total Depth 400' 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. 500, 120' & 180' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 315', 305', 295', 285', 245', 235', 225', 205', 195', 185'

Depths vent pipes placed: 395'

Vent pipe perforations: 300'

Remarks: (gb #1)

RECEIVED

MAY 31 1991

OIL CON. DIV.
LOST

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 Herein)

Completion Date 6-26-87

Micro Log 9563401

CPS #	Well Name, Line or Plant	Work Order #	State	Ins. Unins. Check
188710 1888-W	28-5 * 67M	584A A 6821	.91 3.	☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
0-21-28-5	2" X 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Type	Total Lbs. Coke Used	Loss Circulation Mat'l Used
400'	395'			
Anode Depth				
#1 315'	#2 305'	#3 295'	#4 285'	#5 245'
#6 235'	#7 225'	#8 205'	#9 195'	#10 185'
Anode Output (Amps)				
#1 4.3	#2 4.9	#3 4.0	#4 4.2	#5 4.2
#6 3.6	#7 3.9	#8 3.9	#9 4.5	#10 4.6
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 12.42	Amps 16.9	Ohms .73		

Remarks: Hot moisture at 50', 120' and 180'. Took water sample next A.M. Drilled 400', logged 395' installed 395' of 1" P.V.C. Vent pipe. Perforated 300' of pipe.

D.B. 4300.00

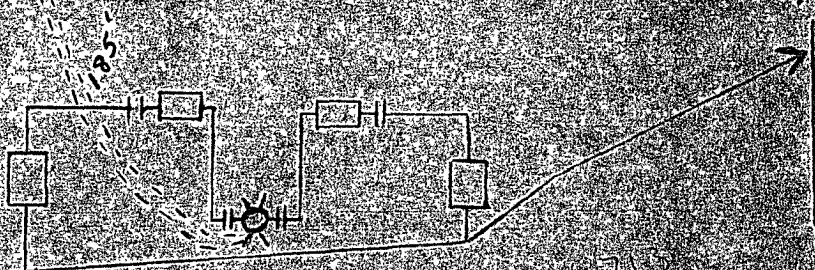
Rectifier Size:	40 V 16 A	750.00
Add'l Depth		
Depth Credit	-105'	-420.00
Extra Cable	30'	7.50
Ditch & 1 Cable	42'	16.38
Ditch & 2 Cable	185'	96.20
25' Meter Pole	1	305.00
20' Meter Pole	1	150.00
10' Stub Pole	1	40.00
Junction Box	1	

All Construction Completed

John d. Eshel
(Signature)

5245.08
Tax 262.25
Total 5507.33

B.B.
Q. J. R. R.



BURGT CORROSION SYSTEMS, INC.

P.O. BOX 1359, PHONE 334-6141

AZTEC, NEW MEXICO 87410

DEEP WELL GROUNDRED LOG

Date 6-26-87

Company Murphy

Well No. 28-5620 Location 0-21-28-5

Volts Applied 12.9 Amperes 16.1

5		230	1.7		455		680	2.5 2.1 2.0
10		235	1.8 - (6)		460		685	2.5 2.0 2.0
15		240	1.9		465		690	1.8 1.8 1.8
20		245	2.2 - (5)		470		695	
25		250	1.7		475		700	
30		255	1.3		480		705	
35		260	1.1		485		710	
40		265	1.9		490		715	
45		270	1.6		495		720	
50		275	1.2		500		725	
55		280	2.0		505		730	
60		285	2.3 - (4)		510		735	
65		290	2.4		515		740	
70		295	1.9 - (3)		520		745	
75		300	1.8		525		750	
80		305	2.0 - (2)		530		755	
85		310	2.3		535		760	
90		315	2.0 - (1)		540		765	
95		320	1.6		545		770	
100		325	1.0		550		775	
105		330	1.4		555		780	
110		335	1.4		560		785	
115		340	1.3		565		790	
120		345	1.5		570		795	
125		350	1.3		575		800	
130		355	1.2		580		805	
135		360	1.3		585		810	
140		365	1.2		590		815	
145		370	1.2		595		820	
150		375	1.5		600		825	
155		380	2.1		605		830	
160	2.5	385	2.3		610		835	
165	2.2	390			615		840	2.5 2.2 2.0
170	1.6	395	3.95 T.D.		620		845	2.5 2.2 2.0
175	1.4	400			625		850	2.5 2.2 2.0
180	1.9	405			630		855	2.5 2.2 2.0
185	2.2 - (10)	410			635		860	2.5 2.2 2.0
190	2.7	415			640		865	2.5 2.2 2.0
195	2.5 - (9)	420			645		870	2.5 2.2 2.0
200	2.0	425			650		875	2.5 2.2 2.0
205	2.1 - (8)	430			655		880	2.5 2.2 2.0
210	2.0	435			660		885	2.5 2.2 2.0
215	1.6	440			665		890	
220	2.1	445			670		895	
225	2.0 - (7)	450			675		900	

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DAILY DRILLING REPORT

June 26

87
19

WELL NAME:

S.J. 28-5

WELL NUMBER:

#67M

SECTION

TOWNSHIP:

RANGE

WATER AT:

FEET:

HOLE MADE

[illegible]

REMARKS:

Brian E. Burger

Driller

Tool Dresser



425 188-1225

API WATER ANALYSIS REPORT FORM

Company <u>Morden Oil Co.</u>	Sample No. <u>1</u>	Date Sampled <u>6/20/87</u>
Field <u>0-21-28-5</u>	Legal Description <u>#67m</u>	County or Parish <u>Quinn</u>
Lease or Unit <u>Well</u>	Depth <u>120</u>	State <u>NM</u>
Type of Water (Produced, Supply, etc.) <u>G.P.</u>	Sampling Point <u>120'</u>	Water, B/D <u>NM</u>
		Sampled By. <u>John Chalk</u>

DISSOLVED SOLIDS

CATIONS

Sodium, Na (calc.)	mg/l	me/l
Calcium, Ca	1710	77
Magnesium, Mg	104	57
Barium, Ba	2	16

ANIONS

Chloride, Cl	305	.9
Sulfate, SO ₄	3540	80
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	114	1.4

Total Dissolved Solids (calc.) 5860

Iron, Fe (total)
Sulfide, as H₂S 0

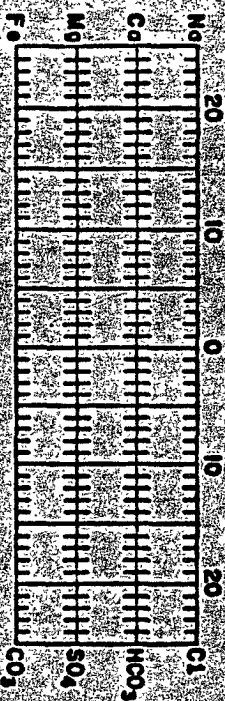
REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

pH 8.13
Specific Gravity, 60/60 F. 1.0078
Resistivity (ohm-meters) 125

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC

