

1286

1A- 30-045-23684

9- 30-045-21153

E

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

Operator MERIDIAN OIL Location: Unit NW Sec. 17 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced RIDDLE F #1A, #9
cps 1566w

Elevation 5809' Completion Date 8/25/81 Total Depth 340' 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. 80' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 305', 285', 265', 245', 225', 205', 185', 165', 145', 125'

Depths vent pipes placed: 340'

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.

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

8 HRS RE
2 V 07

Drilling Log (Attach Hereto). ☐

Completion Date 8-25-81

Well Name RIDDLE F 1A		Location NW 17-28-8		CPS No. 1566 W	
Type & Size Bit Used RIDDLE F 9				Work Order No. 57654-21-50-2	
Anode Hole Depth 340' LOG 331'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used 55273-19-50-2	
Anode Depth					
# 1 305	# 2 285	# 3 265	# 4 245	# 5 225	# 6 205
# 7 185	# 8 165	# 9 145	# 10 125		
Anode Output (Amps)					
# 1 4.12	# 2 5.52	# 3 4.28	# 4 4.00	# 5 5.82	# 6 4.95
# 7 5.17	# 8 6.34	# 9 2.43	# 10 3.20		
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 11.51	Amps 23.5	Ohms .48			

Remarks: **STATIC ON F 1A = .95E** **STATIC ON F 9 = .**
NEGATIVE TO # F9 WAS PLOWED W/ DOZIER
ESTIMATE 5 GAL WATER PER MIN AT 80'
40' 1" PLAIN VENT PIPE BALANCE PERI

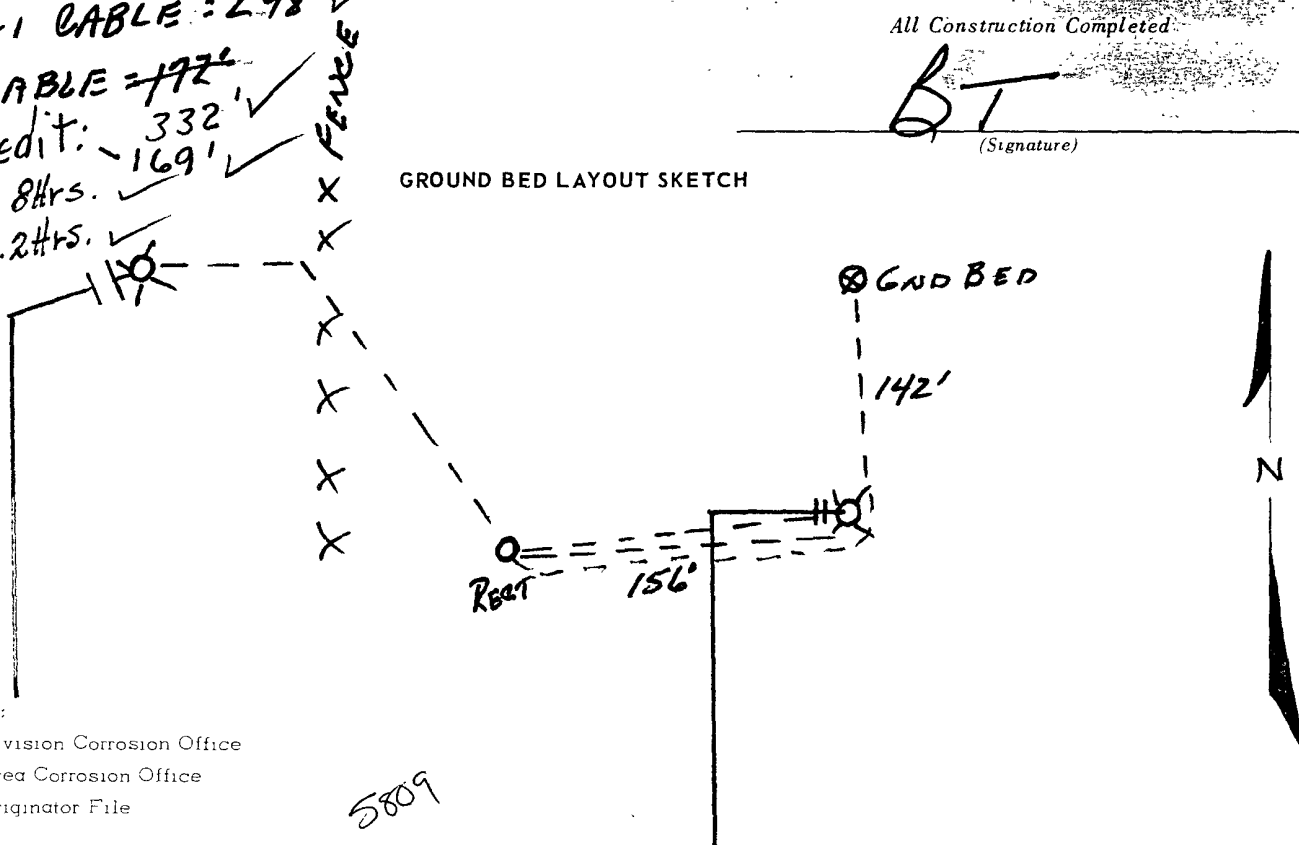
1-60V-30A RECT. ✓
1-20' METER ROLL ✓

DITCH + 1 CABLE = 298' ✓
XTRA CABLE = 192' ✓
Depth Credit: 332' ✓
169' ✓
Hrs. REG. = 8 Hrs. ✓
Hrs. D.T. = 2 Hrs. ✓

All Construction Completed

BT
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

5809

1566W

RIDDLE "F" 1A
✓ "F" 9

NW 17-28-8
57654-21-50-2
55273-19-50-2

WATER AT 80' UNABLE TO GET SAMPLE
HAD TO INJECT TO KEEP HOLE FROM
CAVING, DRILLED TO

MW		gals/mol
16.04	C1	6.4
30.07	C2	10.12
44.10	C3	10.42
58.12	IC4	12.38
58.12	nC4	11.93
72.15	IC5	13.85
72.15	nC5	13.71
86.18	IC6	15.50
86.18	C6	15.57
100.21	IC7	17.2
100.21	C7	17.46
114.23	C8	19.39
28.05	C2	9.64
42.08	C3	9.67

LOGGED TO 340' TD 331'
40' 1" PLAIN VENT PIPE BALANCE PERFORATED

MW	MISC.	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

80	1.89	80	1.95
85	1.76 - 7	85	1.97 - 2
90	1.79	90	1.95
95	1.77	95	1.92
100	1.70	300	1.81
5	1.75 - 6	5	1.69 - 1
10	1.77	10	1.73
15	1.75	15	1.64
20	1.90	20	1.52
25	1.85 - 5	25	1.25
30	1.89	30	1.45
35	1.82	35	TD 331
40	1.71	40	
45	1.67 - 4	45	
50	1.57	50	
55	1.51	55	
60	1.76	60	
65	1.80 - 3	65	
70	1.90	70	
75	1.93	75	

1 = 305'	1.73	- 3.29	4.12
2 = 285'	1.95	- 4.65	5.52
3 = 265'	1.90	- 3.65	4.28
4 = 245'	1.57	- 3.26	4.00
5 = 225'	1.89	- 4.10	5.82
6 = 205'	1.77	- 3.68	4.95
7 = 185'	1.79	- 3.74	5.17
8 = 165'	1.92	- 4.36	6.34
9 = 145'	1.23	- 1.82	2.43
10 = 125'	1.01	- 1.45	3.00

11.51 VOLTS
23.5 AMPS
1.48 Ω

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

Analysis No. 1-10307 Date 9-11-81

Operator El Paso Natural Gas Well Name Riddle F-1A CPS-1566W

Location NW 17-28-8 County San Juan State New Mexico

Field Blanco Formation _____

Sampled From 80'

Date Sampled 8-25-81 By B. T.

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

ppm	epm
Sodium <u>2348</u>	<u>102.1</u>

ppm	epm
Chloride <u>32</u>	<u>2.3</u>

ppm	epm
Calcium <u>277</u>	<u>13.9</u>

ppm	epm
Bicarbonate <u>78</u>	<u>1.3</u>

ppm	epm
Magnesium <u>25</u>	<u>2.1</u>

ppm	epm
Sulfate <u>5,500</u>	<u>114.4</u>

ppm	epm
Iron _____	<u>0</u>

ppm	epm
Carbonate <u>0</u>	<u>0</u>

ppm	epm
H ₂ S _____	<u>0</u>

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

HCO₃ taken to pH 4.0

Total Solids Dissolved 7,912

pH 6.9

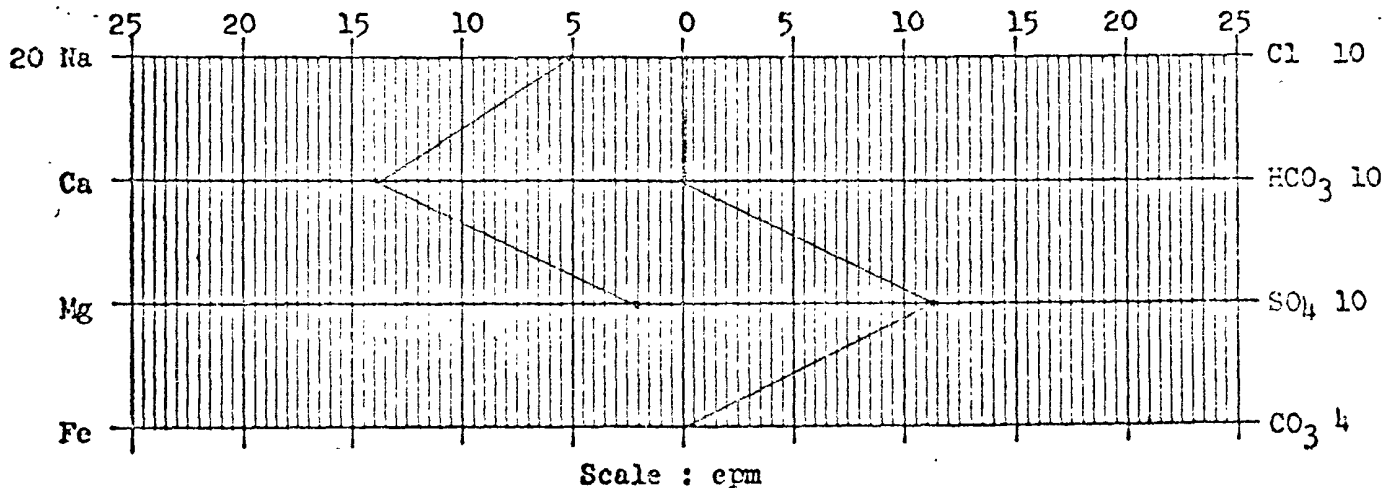
Sp. Gr. 1.0024 At 60°F

Resistivity 108 ohm-cm at 74°F

Dennis P. Bird

Chemist

RZC



Riddle F 1A F 9
 LEASE WELL NO. CONTRACTOR *Story Drilling* RIG NO. 2 REPORT NO. DATE *Aug 25* 1981
 MORNING DAYLIGHT EVENING

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			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.
S L NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		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		

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
0	90	Sand						
90	160	Sand						
160	340	Shale						

REMARKS	REMARKS	REMARKS
Water 80 5 gallon Min		
Drilled 340 TD 331		

SIGNED: Toolpusher

Steve Story

Company Supervisor

1430