

1021

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30-045-22428

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 22 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC #5A

cps 1197w

Elevation 6314' Completion Date 5/18/78 Total Depth 390' 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. 72' - 112' & 116' - 138'

SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 370', 360', 350', 340', 330', 320', 300', 290', 280', 270'

Depths vent pipes placed: 380'

Vent pipe perforations: 320'

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). ☐ 5

Completion Date: 5-18-78

Well Name <u>Atlantic #5A</u>		Location <u>SE 22-31-10</u>		CPS No. <u>1197W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57215-21</u>	
Anode Hole Depth <u>390 - 380</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>370</u>	# 2 <u>360</u>	# 3 <u>350</u>	# 4 <u>340</u>	# 5 <u>330</u>	# 6 <u>320</u>
# 7 <u>300</u>	# 8 <u>290</u>	# 9 <u>280</u>	# 10 <u>270</u>		
Anode Output (Amps)					
# 1 <u>4.0</u>	# 2 <u>4.1</u>	# 3 <u>4.1</u>	# 4 <u>3.7</u>	# 5 <u>3.1</u>	# 6 <u>3.0</u>
# 7 <u>1.6</u>	# 8 <u>1.8</u>	# 9 <u>2.0</u>	# 10 <u>2.5</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	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts <u>12.0</u>	Amps <u>14.8</u>	Ohms <u>0.81</u>			

Remarks: Static 600' E = 0.82. Drilled to 70' Blew water. Drilled to 225
waited 20 min blew water. water zones @ 72' to 112'. 116' to 138'.

All water zones making 7 Gals per min. Perforated 320' of 1" PVC
vent pipe installed 380' of 1" PVC vent pipe

40V 16A Rectifier Ditch 5/1 cable 310

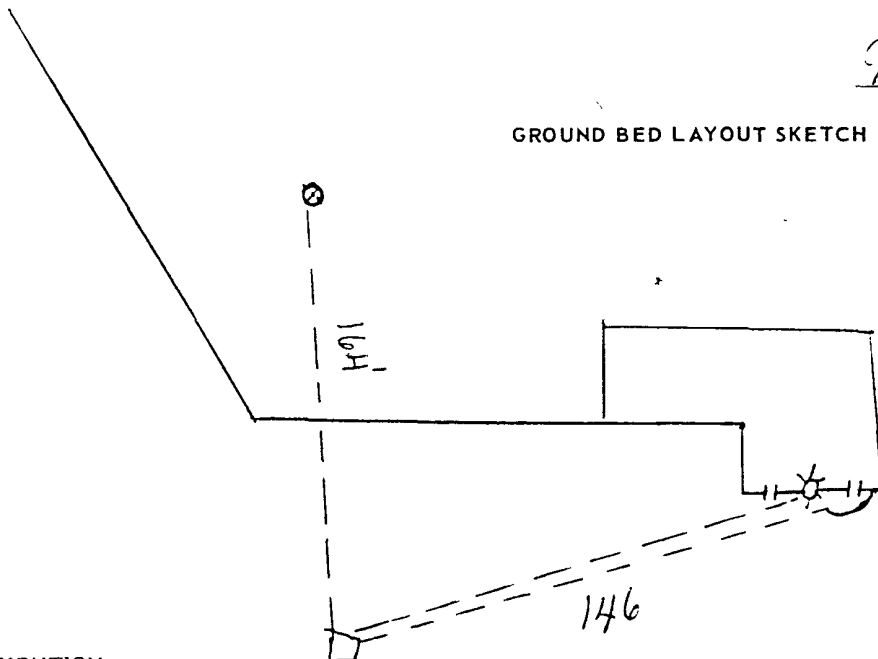
Stub Pole Extra cable = 146
Hole Depth = - 120

All Construction Completed

W. J. Lott

(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6314

11970'

LEASE

WELL NO. 11970'

CONTRACTOR E. Briant

RIG NO. 1

REPORT NO. 12

DATE May 18 1978

MORNING

DAYLIGHT

EVENING

Driller					Driller					Driller				
Total Men In Crew					Total Men In Crew					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.		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	16	Sandstone			72	112	Sandstone damp 2			225	240	Sandstone		
16	22	Shale			112	116	Shale			240	265	Sandy shale		
22	40	Sandstone			116	138	Sandstone damp 2			265	274	Shale		
4	42	Shale			138	165	Shale			274	315	Sandstone		
42	67	Sand water 39ppm			165	205	Sandstone			315	325	Shale		
67	72	Shale			205	225	Shale			325	340	Sandstone		

REMARKS -					REMARKS -					REMARKS -				
										540 - 390 Shale w/sandstone streaks				
					634 hole to 390									
					Logged to 380									
					Total water seepage estimate 79ppm									

SIGNED: Toolpusher

Tom O'Brian

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
Date _____
By _____
File _____

340
300
400

Atlantic #5A SE22-31-10 1197W 57215-21

Static 600' E = 0.82

Drilled to 70'. Blew water. Drilled
to 225 waited 20 min blew water.
Grid Bed Making. Gals Per min
Perforated 320' 0.5" PVC vent Pipe
Installed 380' 0.5" PVC vent Pipe

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

HOU 16A Rectifier

Stub Pole

Ditch 1 cable = 310

Extra cable = 146

Hole Depth = 120

130	90	1.5 = ⑧
		1.1
40 .7	300	1.5 = ⑨
.9		1.0
50 1.0	10	.5
		.5
60 1.0	20	1.7 = ⑥
.9		2.0
70 .8	30	2.0 = ⑤
.5		2.0
80 .4	40	1.9 = ④
.4		2.6
90 .4	50	2.7 = ③
.3		2.8
200 .4	60	2.8 = ②
		2.9
10 .4	70	2.8 = ①
.7		2.6
20 1.0	80	2.6 + ②
1.0		
30 .7	90	
.5		
40 .5		
.6		
50 .7		
.7		
60 .6		
.8		
70 1.5 = ⑩		
1.3		
80 1.2 = ⑨		
1.1		

①	370	2.8	4.0
②	360	2.8	4.1
③	350	2.9	4.1
④	340	2.6	3.7
⑤	330	2.1	3.1
⑥	320	2.1	3.0
⑦	300	1.0	1.6
⑧	290	1.1	1.8
⑨	280	1.1	2.0
⑩	270	1.5	2.5

Volts 12.0

Amps 14.8

Ohms 0.81

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

El Paso Natural Gas Company
San Juan Division
Farmington, New Mexico
Production Department Water Analysis

Analysis No. 1-9173 Date 5-31-78

Operator EPNG Well Name Atlantic #5A

Location SE 22-31-10 County San Juan State NM

Field _____ Formation _____

Sampled From CPS 1197 W

Date Sampled _____ by _____

Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>80.5</u>	<u>3.5</u>	Chloride	<u>18</u>	<u>0.5</u>
Calcium	<u>496</u>	<u>25</u>	Bicarbonate	<u>73</u>	<u>1</u>
Magnesium	<u>34</u>	<u>3</u>	Sulfate	<u>1450</u>	<u>30</u>
Iron	<u>Present</u>		Carbonate	<u>0</u>	<u>0</u>
H ₂ S	<u>Absent</u>		Hydroxide	<u>0</u>	<u>0</u>

Total Dissolved Solids 2494

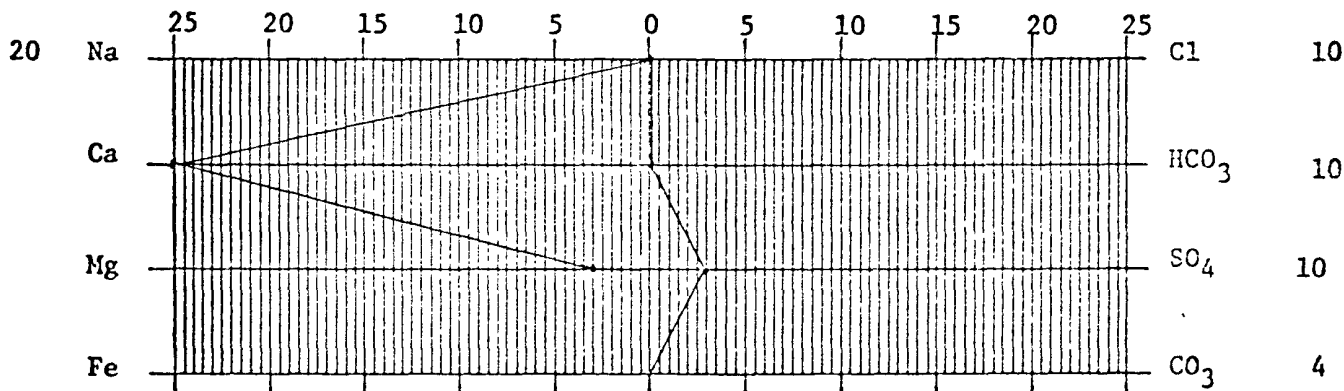
ph 7.7

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

Sp. Gr. 1.0032 at 60°F

Resistivity 380 ohm-cm at 74 °F

Cheryl T. Smith
Chemist



Scale: epm