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30-045-22944

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

Operator TENNECO Location: Unit NW Sec. 33 Twp 31 Rng 10
Name of Well/Wells or Pipeline Serviced ATLANTIC B #6A
cps 1446w
Elevation 6167' Completion Date 7/12/79 Total Depth 300' 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. 100' SAMPLE TAKEN
RECEIVED
MAY 31 1991
Depths gas encountered: N/A
OIL CON. DIV.
Type & amount of coke breeze used: 39 SACKS **DIST. 3**
Depths anodes placed: 270', 260', 245', 230', 220', 210', 200', 190', 145', 135'
Depths vent pipes placed: 300'
Vent pipe perforations: 200'
Remarks: gb #1 NOT A MERIDIAN WELL. FIRST HOLE(300') CAVED. LOST 2 ANODES
AND 300' OF VENT PIPE.

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). ☐

CONTRACT #2

2" X 60" DURATION

Completion Date 7/12/79

Well Name ATLANTIC B #6A		Location NW 33-31-10		CPS No. 1446 W	
Type & Size Bit Used 6 3/4"		Total Drilling Rig Time		Work Order No. 57325-21	
Anode Hole Depth 300' T.D. 300'		Total Lbs. Coke Used 39 SACKS		Lost Circulation Mat'l Used	
Anode Depth		No. Sacks Mud Used			
# 1 270'	# 2 260'	# 3 245'	# 4 230'	# 5 220'	# 6 210'
# 7 200'	# 8 190'	# 9 145'	# 10 135'		
# 1 2.3	# 2 2.9	# 3 1.4	# 4 1.9	# 5 2.5	# 6 4.0
# 7 4.2	# 8 3.2	# 9 3.5	# 10 3.9		
Anode Depth					
# 11 120'	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11 2.6	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance				No. 8 C.P. Cable Used	
Volts 11.8 V		Amps 13.7 A		Ohms .86	
				No. 2 C.P. Cable Used	

Remarks: **STATIC 600' N = .96 V** Driller said WATER AT 100' APPROX. 10-15 GAL/MIN. Drilled To 300'. Logged 300'. INSTALLED 300' of 1" P.V.C. VENT pipe, Perforated 200'. HAD A BRIDGE ABOVE #3 ANODE. INSTALLED #11 ANODE TO REPLACE IT.

Pitch & 1 cable = 151'

EXTRA cable = 96'

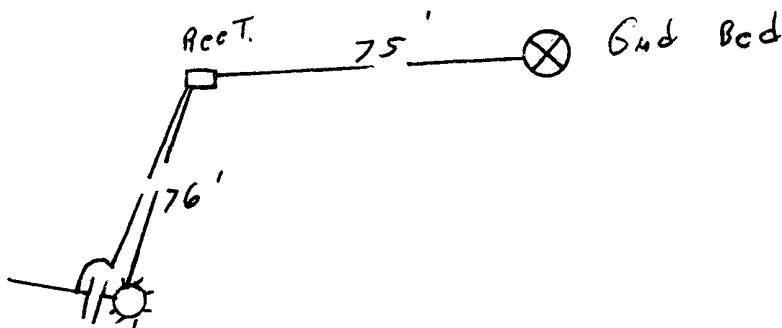
Hole Depth - 200'

Stub Pole & 40V 16A Rect.

All Construction Completed

JE Ratto
(Signature)

GROUND BED LAYOUT SKETCH



6/67

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

ATLANTIC B*6A

CPS - 446W

NW 33-31-10

W.O. 57325-21

DRILLER SAID WATER AT 100'.
 Approx. 10-15 gAL./min.
 Drilled To 300' Logged 300'.
 INSTALLED 300' of 1" PVC.
 VENT Pipe, Perforated 200'.
 HAD A Bridge Above #3
 Anode. INSTALLED #11 Anode
 To Replace it.

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

100 -
 10 -
 20 - 2.0 -
 30 - 1.1
 40 - 2.3
 50 - 1.7
 60 - 1.3
 70 - 1.0
 80 - .9
 90 - 2.0 -
 200 - 2.8 -
 10 - 2.5 -
 20 - 1.7 -
 30 - 1.6 -
 40 - 1.4
 50 - 1.3
 60 - 2.0 -
 70 - 1.8 -
 80 - 1.8
 90 - 1.0
 300 - T.D.

7/12/79
JH

20 Hrs To TAC

1 - 270 - 1.9 - 2.3
 2 - 260 - 2.4 - 2.9
 3 - 245 - 1.5 - 1.4
 4 - 230 - 1.6 - 1.9
 5 - 220 - 2.2 - 2.5
 6 - 210 - 3.4 - 4.0
 7 - 200 - 4.0 - 4.2
 8 - 190 - 2.5 - 3.2
 9 - 145 - 2.4 - 3.5
 10 - 135 - 3.0 - 3.9
 11 - 120 - 2.5 - 2.6

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
ENGINEERING CALCULATION

Sheet: _____ of _____

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File: _____

ATLANTIC B #6A

CPS-1446 W

NW 33-31-10

W.O. 57325-21

MW	gals/mol
16.04	C ₁ 6.4
30.07	C ₂ 10.12
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100 - .7
 .8
 10 - .6
 .7
 20 - .8
 .8
 30 - 1.0
 1.3
 40 - 2.1
 2.0 -
 50 - 1.2
 1.3
 60 - 1.2
 1.3
 70 - 1.4 -
 1.3
 80 - 1.1
 1.1
 90 - 1.7
 2.6 -
 200 - 2.8
 2.6 -
 10 - 2.6
 2.5 -
 20 - 1.8
 1.7 -
 30 - 1.6
 1.7 -
 40 - 1.6
 1.4
 50 - 1.1
 1.0
 60 - 1.9 -
 2.0
 70 - 1.9 -
 1.9
 80 - 1.9 -
 1.7
 90 - 1.2
 .6
 200 - - T.D.

DRILLER SAID WATER AT
 100'. DRILLED TO 280' AND
 TWISTED OFF. DRILLED TO
 300'. LOGGED 300'
 HOLE MAKING 15-20 GAL/MIN
 INSTALLED 300' OF 1" P.V.C.
 VENT PIPE, PERFORATED 200'.
 RAN 4 ANODES IN HOLE
 STARTED COKEING. HOLE
 CAVED IN. RETRIEVED 2
 ANODES. LOST 2 ANODES + VENT
 PIPE IN HOLE.
 MOVED RIG + STARTED
 NEW HOLE

7/11/79
 JL

1 - 280 - 2.1
 2 - 270 -
 3 - 260 -
 4 - 235 -
 5 - 225 -
 6 - 215 -
 7 - 205 -
 8 - 195 -
 9 - 170 -
 10 - 145 -

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

Analysis No. 1-9660 Date 8-3-79

Operator EPNG Well Name ATLANTIC B6A

Location NW 33-31-10 County SAN JUAN State NM

Field Formation

Sampled From CPS 1446-W

Date Sampled By

Tbg. Press.	Csg. Press.	Surface Csg. Press
ppm	epm	ppm epm

Sodium	138	6	Chloride	28	1
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Calcium	568	28	Bicarbonate	73	1
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Magnesium	12	1	Sulfate	1600	33
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Iron	PRESENT	Carbonate	0	0
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H ₂ S	ABSENT	Hydroxide	0	0
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cc: D.C.Adams
 R.A.Ullrich
 E.R.Paulek
 J.W.McCarthy
 A.M.Smith
 W.B.Shropshire
 File
 C. B. O'Nan

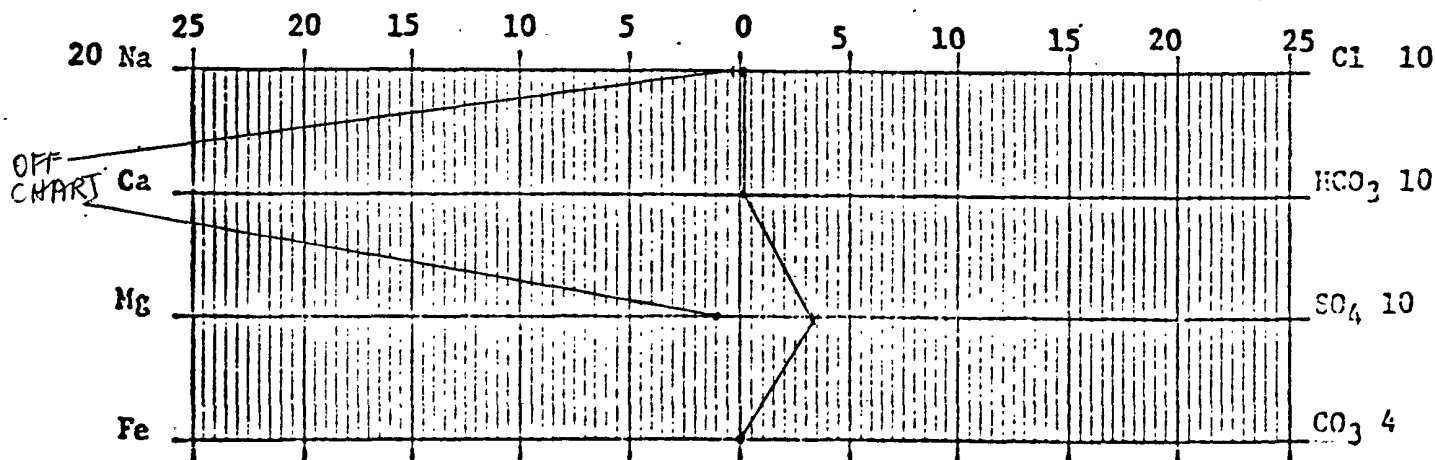
Total Solids Dissolved 2898

pH 7.2

Sp. Gr. 1.0035 at 60° F

Resistivity 330 ohm-cm at 75° F

Cheryl Terwilliger
 Chemist *MS*



Scale: epm

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE _____ WELL NO. #1446W Redrill CONTRACTOR Posey RIG NO. _____ REPORT NO. _____ DATE 7-12- 19 79

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.
SE. 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	10	SANDSTONE SURFACE	78	82	SANDSTONE	172	217	SHALE
10	30	SANDSTONE	82	100	SAND (Wet)	217	250	SANDY SHALE
30	35	SAND DAMP	100	110	SHALE	250	300	SHALE
35	65	SANDSTONE	110	140	SANDY SHALE			
65	70	SHALE	140	165	SHALE			
70	78	SAND (Wet)	165	172	SANDY SHALE			

REMARKS -			REMARKS -			REMARKS -		
						APPXIMATELY 15 gal per min		
						@ 100'		

SIGNED: Toolpusher

Posey

Company Supervisor

Jeff Murphy