

30-045-09093

4646

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

Operator MERIDIAN OIL Location: Unit SW Sec. 29 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced MANSFIELD #1

cps 55w

Elevation 5941' Completion Date 10/13/78 Total Depth 330' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 145', 138', 131', 124', 117', 110', 96', 89', 82'

Depths vent pipes placed: 175' OF 1" PVC VENT PIPE

Vent pipe perforations: 175'

Remarks: gb #2

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.

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST 3

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Graphite

Completion Date 10-13-78

Well Name MAN'S Field #1		Location SW 29-30-9		CPS No. 55W	
Type & Size Bit Used 6 3/4		Contract #2		Work Order No. 52100-19	
Anode Hole Depth Logged 240' - 170'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 145	# 2 138	# 3 131	# 4 124	# 5 117	# 6 110
# 7 103	# 8 96	# 9 89	# 10 82		
Anode Output (Amps)					
# 1 5.1	# 2 5.6	# 3 5.6	# 4 5.1	# 5 4.8	# 6 5.7
# 7 5.3	# 8 3.7	# 9 4.4	# 10 4.0		
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 11.2	Amps 17.6	Ohms 0.64			

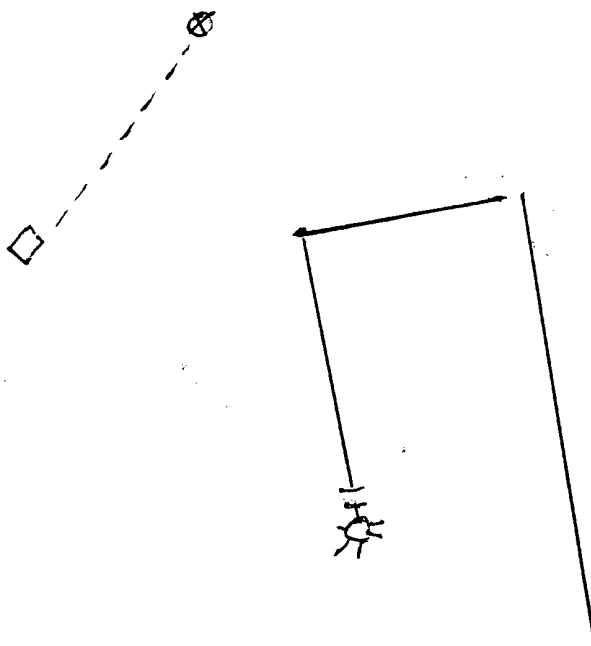
Remarks: Installed 10-2"x2"x48" Graphite Anodes. Drilled to 50'
waited 15 min. Blow water. Drilled to 240'. Logging Anode stopped @ 170'
Anodes spaced @ 7' spacing. Perforated 175' of 1" PVC vent pipe.
Installed 175' of 1" PVC vent pipe. Slurried 28 sacks of coke
Hole Depth = -330 Grd Bed MAKING 5-10 GALS PER MIN
Ditch Cable = 135'

All Construction Completed

W Z Luto
(Signature)

Grd Bed #2
GROUND BED LAYOUT SKETCH

Grd Bed #1



DISTRIBUTION:

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

Contract #2

DAILY DRILLING REPORT

LEASE

WELL NO. 55 W CONTRACTOR

D + J Enters

RIG NO. 2

REPORT NO.

DATE Oct 13 1978

MORNING

DAYLIGHT

EVENING

Total Man In Crew				Total Man In Crew				Total Man In Crew			
Driller	FROM	TO	FORMATION	WT-BIT	R.P.M.	Driller	FROM	TO	FORMATION	WT-BIT	R.P.M.

	NO. DC	SIZE	LENG.		NO. DC	SIZE	LENG.		NO. DC	SIZE	LENG.
BIT	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			
Time	WT.	Vis.						Time	WT.	Vis.					

TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN			
FROM	TO			FROM	TO			FROM	TO		
0	20	Sand Stone & Shale									
20	40	Sandy Shale									
40	50	Sandy Shale (water)									
50	100	Shale									
100	160	Sandy Shale									
160	175	Shale									

REMARKS -

REMARKS -

REMARKS -

Drilled 6 3/4" Hole to 175
logged 170
Got water 5 to 10 gpm

SIGNED: Tool user

A. T. Mac Donald

(Company Supervisor)

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

500
170
330

MANSSfield #1

SW 29-30-9
Contract #2

55W

52100-19

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

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

145
 7
 138
 7
 131
 7
 124
 7
 117
 7
 110
 7
 103
 7
 96
 7
 89
 7
 82

10-2"x2"x48" Graphite

Drilled to 50' waited 15 min Blow Water
5-10 Gals Per min.Perforated 175' of 1" PVC vent Pipe
Installed 175' of 1" PVC vent Pipe
Slurried 28 sacks of coke.NOTE: Different water source for
coking.

50 1.7 200

1.5

60 1.3 10

1.5

70 1.4 20

2.2

70 2.6 30

2.5

90 2.3 40

2.5

100 2.7

2.7

10 2.7

2.5

50 2.5

2.5

20 2.5

2.5

20 2.6

2.4

50 2.4

2.4

50

70

20

20

20

20

20

20

20

20

20

20

Hole Depth = -330

Ditch 5' cable = 135'

① 145 3.6 5.1

② 138 3.3 5.6

③ 131 3.3 5.6

④ 124 2.8 5.1

⑤ 117 2.5 4.8

⑥ 110 2.7 5.7

⑦ 103 2.4 5.3

⑧ 96 2.0 3.7

⑨ 89 2.1 4.4

⑩ 82 2.0 4.0

WBS = 11.2

FMS = 17.6

OBS = 0.64

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

Analysis No. 1-9414 Date 12-12-78

Operator _____ Well Name MANSFIELD #1 55W

Location SW29-30-9 County _____ State _____

Field _____ Formation _____

Sampled From 55W

Date Sampled _____ By _____

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

Sodium 391 17 Chloride 40 1

Calcium 568 29 Bicarbonate 225 4

Magnesium 142 12 Sulfate 2530 53

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

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

Total Solids Dissolved 3708

pH 7.7

Sp. Gr. 1.0044 at 60°F

Resistivity 270 ohm-cm at 75 °F

Barnett - Ellsberg
Chemist

