

1025

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30-045-22390

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. 31 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced ATLANTIC C #4A

cps 1200w

Elevation 6013' Completion Date 6/23/78 Total Depth 360' Land Type* N/A

Casing, Sizes, Types & Depths 20'

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. 90' - 100'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 325', 315', 305', 300', 285', 265', 245', 235', 225', 210'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

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). ☐

Completion Date 6-23-78

Well Name <u>ATLANTIC C #4A</u>				Location <u>NW 31-31-10</u>				CPS No <u>1200 W</u>			
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>57217-21</u>							
Anode Hole Depth		Total Drilling Rig Time		Total Lbs. Coke Used		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth											
1 <u>335</u>	2 <u>325</u>	3 <u>315</u>	4 <u>300</u>	5 <u>285</u>	6 <u>265</u>	7 <u>245</u>	8 <u>235</u>	9 <u>225</u>	10 <u>210</u>		
Anode Output (Amps)											
1 <u>3.5</u>	2 <u>4.4</u>	3 <u>4.0</u>	4 <u>3.6</u>	5 <u>3.6</u>	6 <u>3.2</u>	7 <u>3.5</u>	8 <u>4.0</u>	9 <u>5.0</u>	10 <u>4.2</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>4.8</u>		Amps <u>10.5</u>		Chms <u>83</u>							

Remarks: STATIC = .89 CABLE TOOLS DRILLED 16'
BOULDERS. RAN 20' PIPE. 20' PIPE LEFT OVER. (33 HRS.)
WATER SAND 85 TO 100'. DRILLED TO 140' BLEW WATER
NEXT AM. DRILLED T 360 LOGGED TO 355' HOLE FILLER
W/ NATURAL WATER TO 195'

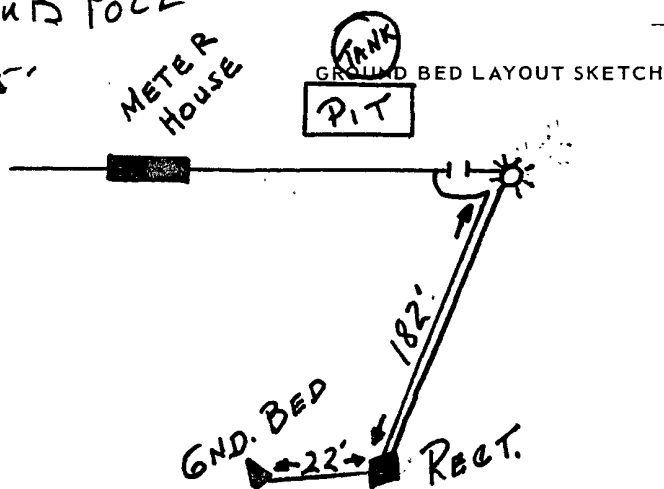
DITCH + 1 WIRE = 204'

EXTRA WIRE = 182'

All Construction Completed

B.T.
(Signature)

40/16 + STUB POLE
HOLE = -145'



DISTRIBUTION:

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

6013

57217-21

1200 W

STATIC = .89

ATLANTIC "C" #4A

NW 31-31-10

WATER SAND 85' TO 100' DRILLED TO 140' BLEW WATER
NEXT AM DRILLED TO 360' LOGGED TO 355' HOLE
FILLED 195' W/ NATURAL WATER.
HOLE = -145'

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

ALL 2" X 48" GRAPHITE ANODES.

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

100	60	1.8	
		1.6	⑩
10	70	1.0	
		1.8	
20	80	2.5	
		3.2	⑤
30	90	2.8	
		2.4	
40	300	2.8	④
		2.8	
50	10	3.0	
		3.0	③
60	20	2.8	
		2.6	②
70	30	2.4	
		2.2	①
80	40	2.4	
		2.2	
90	50	2.0	
		2.0	
200	60		
		2.6	
10	70	2.4	⑩
		2.4	
20	80	2.4	
		2.4	⑨
30	90	2.4	
		2.4	⑧
40	100	2.4	
		2.4	⑦
50		1.9	
		1.9	

$$8.8 \text{ V } 10.5 \text{ A} = .83 \text{ n}$$

$$1 = 335 - 2.4 = 3.5$$

$$2 = 325 - 3.4 = 4.4$$

$$3 = 315 - 3.2 = 4.0$$

$$4 = 300 - 3.0 = 3.6$$

$$5 = 285 - 3.0 = 3.6$$

$$6 = 265 - 2.6 = 3.2$$

$$7 = 245 - 2.6 = 3.5$$

$$8 = 235 - 2.8 = 4.0$$

$$9 = 225 - 3.4 = 5.0$$

$$10 = 210 - 3.2 = 4.2$$

DAILY DRILLING REPORT

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE

978

(Rev. 1-61)

ATLANTIC 2 4A = 1200 W

R Posey D

6-23

MORNING

DAYLIGHT

EVENING

[illegible]

JUL 1964	
FROM	TO
Drilled 360 <u>355</u> 5 Bldg. No. 1 SERIAL NO. T.D. SIZE	

	NO. DC _____ SIZE _____ LENG. _____		NO. DC _____ SIZE _____ LENG. _____	DRILL 31	NO. DC _____ SIZE _____ LENG. _____
BIT # _____	NO. DC _____ SIZE _____ LENG. _____	BIT NO. _____	NO. DC _____ SIZE _____ LENG. _____	T.D.	NO. DC _____ SIZE _____ LENG. _____
SERIAL NO. _____	STANDS _____	SERIAL NO. _____	STANDS _____		STANDS _____
SIZE _____	SINGLES _____	SIZE 6 3/4"	SINGLES _____		SINGLES _____
TYPE _____	DOWN ON KELLY _____	TYPE Rock	DOWN ON KELLY _____		DOWN ON KELLY _____
MAKE _____	TOTAL DEPTH _____	MAKE _____	TOTAL DEPTH _____		TOTAL DEPTH _____

[illegible][illegible]

REMARKS -

REMARKS -

0 - 25 ~~SA~~ Cable Tool

25 - 60 SHALE

60 - 85 SAND stone

85 - 90 SHALE

90 - 100 SAND M.W.

100 - 105 SHALE

105 - 140 SAND stone

REMARKS -

140 - 150 Shale
150 - 160 Sand Stone
160 - 280 Sandy Shale
280 - 285 Sand
285 - 360 Sandy Shale

REMARKS -

Inj 140
making water 1-2 gal min
90-100

SIGNED: Toolpusher

____ Company Supervisor

SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230

DATE COMPLETED 7-6-78

WELL NAME	LOCATION			DATE SECURED	GAL./ DAY	PPM T.D.S.	pH	PPM CHLORIDES	PPM SULFATE
	S	T	R						
Jones A #1A MV	10	28	8	6-20	24	7452	7.0	4320	7840
Jones A #1A PC	10	28	8	6-20	1	39	6.8	13	1000
Lughes #4A	20	29	8	6-20	54	6858	7.2	4830	1280
Lay A #5A	18	29	8	6-20	38	7632	7.1	6320	2500
Lay #1A	17	29	8	6-20	80	6670	7.4	6390	500
Lay A #1A	17	29	8	6-20	106	7527	7.4	7170	1000
Lay #3A	18	29	8	6-20	42	6913	6.7	7170	1000
Lay A #2A	7	29	8	6-20	96	5887	7.6	6320	64
El Paso #1A	20	29	9	6-17	8	9493	6.8	6745	7080
Lansfield #2A 1241W	19	30	9	6-19		1019	7.3	24	1520
Luigley #1A 1275W	6	30	9	6-19		430	7.1	20	600
Lorance #2A 1220W	21	30	9	6-19		1373	7.3	16	2520
San Juan #11A 1252W	11	30	10	6-19		636	6.4	24	800
San Ray A #1A 1263W	15	30	10	6-19		210	6.2	8	600
Atlantic D Com #5A 1209W	12	30	10	6-19		1493	6.6	16	3000
Bernaghan #4A 1237W	30	31	8	6-19		432	7.3	12	600
Bernaghan #2A 1235W	28	31	8	6-19		190	7.2	16	680
Bernaghan #1A 1234W	33	31	8	6-19		571	6.9	32	800
Walker 1A 1271W	31	31	9	6-19		1664	7.0	32	3520
Atlantic A #8A 1199W	29	31	10	6-19		2637	7.1	152	5560
Atlantic "C" 4A 1200W	31	31	10	6-19		6720	7.7	504	9800
Cott #4A 1258W	17	31	10	6-19		4506	7.0	186	7760
Brookhaven Com A-1 1212W	16	31	10	6-19		3979	6.7	270	6920