

E

790

1- 30-045-09625

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. 11 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced MUNOZ #1

cps 1100w

Elevation 6189' Completion Date 6/4/77 Total Depth 700' 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. WET AT 155'

Depths gas encountered: N/A

Type & amount of coke breeze used: 74 SACKS

Depths anodes placed: 590', 560', 535', 525', 515', 505', 500'

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 6-4-77

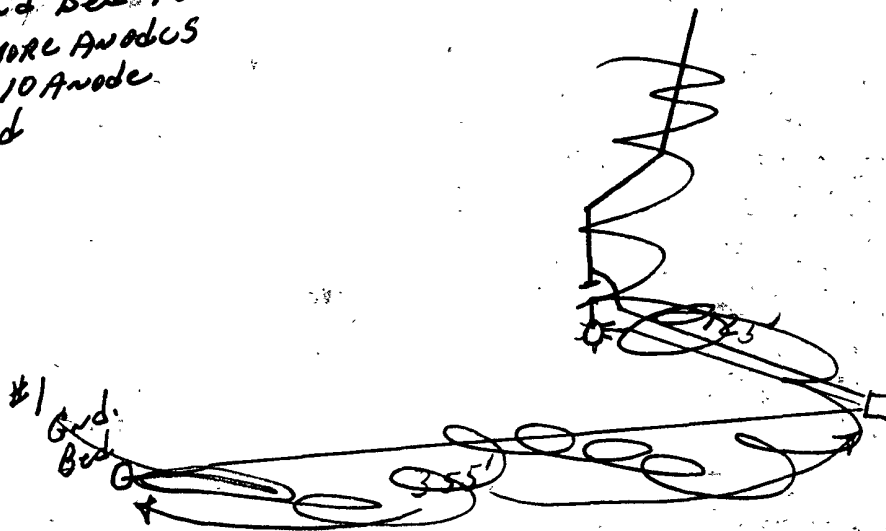
Well Name MUN 02 #1		Location NW 11-30-8		CPS No. 1100W	
Type & Size Bit Used 6 3/4"				Work Order No. 57057	
Anode Hole Depth 700 - 698	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 698	# 2 695	# 3 690	# 4 590'	# 5 585	# 6 560'
# 7 535'	# 8 525'	# 9 515'	# 10 505'		
Anode Output (Amps)					
# 1 1.9	# 2 2.0	# 3 2.1	# 4 4.6	# 5 1.7	# 6 1.7
# 7 3.5	# 8 3.0	# 9 3.0	# 10 3.5		
Anode Depth					
# 11 500'	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11 1.9	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 1.9	Amps 1.9	Ohms 0.81			

Remarks: DRILLER R said wet @ 155. started inj. @ 490'. DRILLED TO 620'. Logged Hole.
Needed more Hole. Next A.M. water standing @ 455'. DRILLED TO 700'. Logged Hole.
HAD trouble getting logging Anode Past 593'. HAD trouble getting Anodes #1, #2, #3 past 593'. HAD trouble getting Anode #4 ^{Past 593'} 650'. Put Anode #4 @ 645. Installed
Anodes #5, #6, #7, #8, #9, #10 Above 595'. NO Evidence of Coke getting Around #1, #2, #3
#4. Lost Hole & went back sat. NO Change. Installed Anode #11 Abandoned #4 Anode.
Did not try to Flush Hole. General coked Hole. ~~Slurried 74 sacks of coke~~ All Construction Completed Anode #12

Static 0.81 600' North

Moved back & DRILLED
Another Cnd Bed to
Install 3 MORE Anodes
TO MAKE A 10 Anode
Cnd Bed

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6189

19.77

Company Supervisor

SIGNED: Toolpusher

MUNOZ #1

#1 - 6' and 8' Bur

1100 W

Logged 6-3-77

Water standing @ 455
this AM.HAD trouble getting #1, #25, #3
Anodes past 593'. DR. Iker
said He probably had a

Cavity.

Did not try to Falsk Hole.

Added 1 Anode

74 SACKS

MW	gas/mol
16	C ₁ 6.4
36	C ₂ 9.56
44	C ₃ 10.42
58	ICA 12.38
72	ICA 13.85
86	ICA 15.30
100	ICA 16.72
114	C ₄ 17.46
128	C ₅ 18.38
142	C ₆ 19.07

MW	gas/mol
44	CO ₂ 6.38
34	H ₂ O 5.17
28	N ₂ 4.16
2	H ₂ 3.38

3 00	50	6 00	2.1
			2.1
10	60	10	2.1
			2.2
20	70	20	1.6
			1.3
30	80	30	1.3
			1.2
40	90	40	1.3
		X	1.3 ②
50	5 00	50	1.4
			1.8
60	10	X 60	1.8 ③
			1.5 ⑩
70	20	X 70	2.1 ②
			1.5 ⑨
80	30	X 80	1.8 ①
			1.5 ⑧
90	40	90	1.3
			1.3
4 00	50	7 00	698 TD
			2.4 X ① 680-2.6-2.4
10	60		3.7 X ② 670-3.6-3.4
			3.0 X ③ 660-3.2-2.9
20	70		4.8 X ④ 590-4.8-4.6
			1.7 X ⑤ 570-1.3-1.7
30	80		1.7 X ⑥ 560-1.4-1.4
			3.9 X ⑦ 535-1.1-3.5
40	90		3.8 X ⑧ 525-2.0-3.0
			3.8 X ⑨ 515-2.0-3.0
			3.9 X ⑩ 500-1.6-3.5

6-3-77 5

① 680-1.6-2.1-1.4

② 670-2.1-2.9-2.5

③ 660-2.2-2.9-2.5

④ 645-2.4-3.0-3.4

⑤ 590-2.3-2.9-2.5

⑥ 570-1.2-1.5-1.2

⑦ 560-1.2-1.5-1.2

⑧ 535-0.8-1.1-0.8

⑨ 525-1.8-2.0-1.8

⑩ 515-1.6-1.7-1.6

6-4-77

505'

11.9V 12.3 A 0.97m

MUNOZ #1

1100 W

Logged

6-2-77

DRILLER SAID DAMP @

WET @ 155'

STARTED INJ @ 490

PERFORATED 200' OF 1" PVC VENT PIPE

STARTED MAKING WATER @ 520

MW	gas/mol
16	C ₁ 5.4
30	C ₂ 9.56
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 13.85
86	NC ₅ 15.50
100	IC ₅ 17.2
114	C ₇ 19.38
128	C ₈ 21.64
142	C ₉ 24.07

MW	MISC	gas/mol
44	CO ₂	5.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.38

300-	450- .5	600- 1.6
	.6	1.6
10-	60- .6	10- 1.6
	.6	
20-	70- .6	20-
	.7	
30-	80- .7	30-
	.7	
40-	90- .7	40-
	.8	
50-	500- 1.0	50-
	1.6	
60-	10- 1.3	60-
	.8	
70-	20- .8	70-
	.8	
80-	30- .8	80-
	1.8	
90- 1.8	40- .8	90-
	.8	
400- 1.0	50- .9	700-
	.5	
10- .4	60- .9	
	.3	
20- .3	70- .5	
	.4	
30- .5	80- 1.4	
	.5	
40- .5	90- 1.8	
	.5	