

1530 #2A 30-045-21659
#302 30-045-26934

E

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

Operator MERIDIAN OIL INC. Location: Unit F Sec. 22 Twp. 30 Rng. 8

Name of Well/Wells or Pipeline Serviced HOWELL K #2A, #302

cps 210lw

Elevation 5832' Completion Date 3/16/89 Total Depth 360' Land Type* N/A

Casing, Sizes, Types & Depths 100'

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. 110'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 285', 275', 265', 255', 245', 145', 135', 125', 116', 108'

Depths vent pipes placed: 360'

Vent pipe perforations: 300'

RECEIVED
MAY 31 1991

Remarks: * gb #2 LOST 40' HOLE WITH 30' OF CASING(CAVED).

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.

Completion Date 3-16-89

Remarks: Drilled 40', set 30' of Csg., lost Csg + hole, moved over and drilled new hole at 360' logged 340', set 100' of Csg. Driller said damp at 40' and making water about 110', installed 360' of 1" PVC vent pipe, perforated bottom 300'.

Flow AC from 1046-w.

Surface casing 100' 1 hour

502982

L. L. Ehrlich
(Signature)

SCOTT DRILLING, INC.

~~P.O. Box 269~~ 1802 LANE 10

POWELL, WY. 82435

(307) 754-2056

WELL NO. Powell-302

FORMATION:

0 - 93 sand - wet at 36'

set casing 100' 8"

93 - 106 clay-sand

106-²²⁰ sandstone - shale ledges

220 - 340 shale sandstone ledges

1 bar. to set Csg.

DRILL: GARDNER DENVER

MAYHEW 1000 - ROTARY

PRICE \$ PER FOOT

TOTAL INVOICE:

PERFORATIONS:

STATIC WATER TABLE 36'

GRAVEL PACKING

CASED WITH PVC 100'

160 PSI

1529

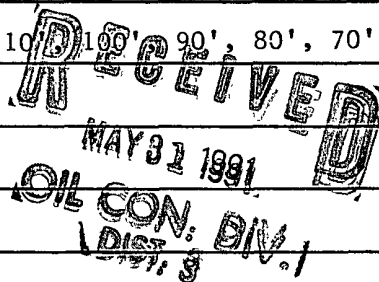
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit NW Sec. 22 Twp 30 Rng 8Name of Well/Wells or Pipeline Serviced HOWELL K #2A, #302

cps 210lw

Elevation 5832' Completion Date 10/6/75 Total Depth 280' Land Type* N/ACasing, Sizes, Types & Depths 44'If Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 20'Depths gas encountered: N/AType & amount of coke breeze used: 47 SACKSDepths anodes placed: 250', 240', 135', 120', 110', 100', 90', 80', 70', 60'Depths vent pipes placed: 250'Vent pipe perforations: 200'Remarks: gb #1

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) ☐ # 302

Completion Date 10/6/75

Well Name Howell K² 2A		Location 4W 22-30-8		CPS No. 1046 N 21010	
Type & Size Bit Used 6 3/4"				Work Order No. 184-57007.19-50-20	
Anode Hole Depth 280'	Total Drilling Rig Time	Total Lbs. Coke Used 47 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5
	250'	240'	135'	120'	110'
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5
	4.4	4.0	4.0	3.4	3.5
Anode Depth	# 6	# 7	# 8	# 9	# 10
	100'	90'	80'	70'	60'
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
	3.9	3.8	4.0	4.5	3.7
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts 12.5V Amps 14.5A Ohms .86	1,555				

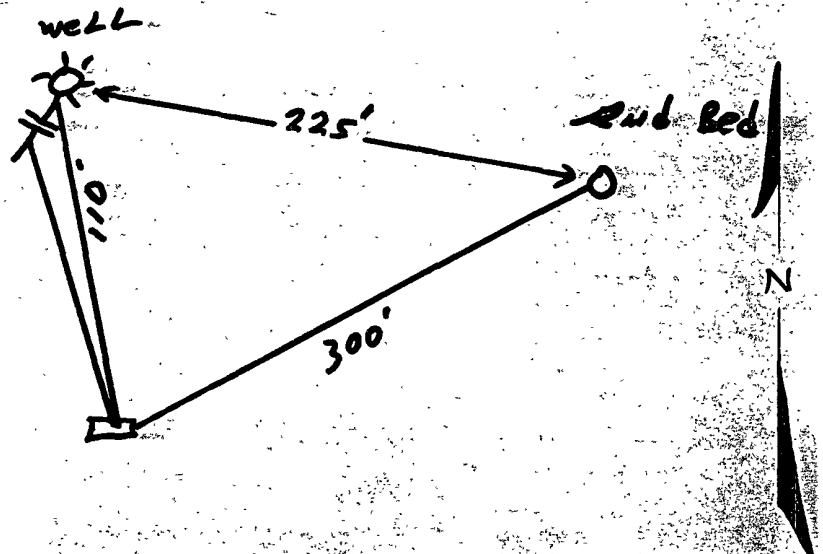
Remarks: Driller said water AT 20'. Put 44' of casing in hole. Perforated 200' of vent, installed on #1 Anode.

16 hrs

All Construction Completed

JC Stone
(Signature)

GROUND BED LAYOUT SKETCH



5832

CPS-1046W

MW	gas/mol
16	C ₁ 6.4
30	C ₂ 10.12
44	C ₃ 10.42
58	IC ₄ 12.38
72	NC ₄ 11.93
86	IC ₅ 13.85
100	NC ₅ 13.71
114	IC ₆ 15.50
128	CA 15.97
142	IC ₇ 17.2
156	C ₇ 17.46
170	C ₈ 18.29
184	C ₉ 19.64
198	C ₁₀ 20.97

60 - 1.5 -	40 - 1.6 -				
1.6	1.6				
70 - 1.6 -	50 - 1.5 -				
1.5	1.2				
80 - 1.4 -	60 - 1.2				
1.3	1.0				
90 - 1.4 -	70 - 1.2				
1.4	1.2				
100 - 1.4 -	80 -				
1.2					
10 - 1.2 -	90 -				
1.2					
20 - 1.2 -	300 -				
1.2					
30 - 1.2 -	1 = 250' - 1.6 - 4.4				
1.4 -	2 = 240' - 1.6 - 4.0				
40 - 1.4	3 = 135' - 1.5 - 4.0				
1.2	4 = 120' - 1.3 - 3.4				
50 - 1.0	5 = 110' - 1.3 - 3.5				
.6	6 = 100' - 1.7 - 3.9				
60 - .6	7 = 90' - 1.6 - 3.8				
.6	8 = 80' - 1.7 - 4.0				
70 - .6	9 = 70' - 2.0 - 4.5				
.6	10 = 60' - 1.8 - 3.7				
80 - .6					
.7					
90 - .8					
.9					
200 - 1.0					
1.0					
10 - 1.0					
.9					
20 - .8					
.8					
30 - .7					
.7					

Driller said water at 20 ft.
 Hole depth 280'
 Vent perforated 200' on Bottom end

MW	MISC	gas/mol
44	IC ₄	12.38
58	NC ₄	11.93
72	IC ₅	13.85
86	NC ₅	13.71

15

Company Supervisor