

30-045-2197S

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. 7 Twp 30 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL G #2A

cps 1379w

Elevation 5889' Completion Date 9/28/79 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths 40' OF 8" CASING

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' & 280' SAMPLE TAKEN

Depths gas encountered: N/A

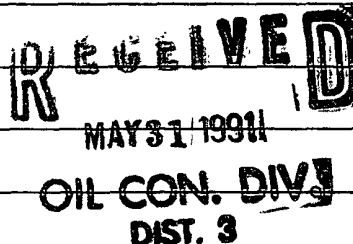
Type & amount of coke breeze used: 6100 lbs.

Depths anodes placed: 255', 245', 230', 220', 210', 200', 190', 180', 170', 160'

Depths vent-pipes placed: 360'

Vent pipe perforations: 300'

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

CONTRACT 2

Drilling Log (Attach Hereto). ☐

Completion Date 9-28-79

Well Name Howell G# 2A		Location NW 7-30-8		CPS No. 1379 W	
Type & Size Bit Used 6 3/4"		2" X 60" Dariron		Work Order No. 57293.21	
Anode Hole Depth 380-380	Total Drilling Rig Time	Total Lbs. Coke Used 6100	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 255	# 2 245	# 3 230	# 4 220	# 5 210	# 6 200
# 7 190	# 8 180	# 9 170	# 10 160		
Anode Output (Amps)					
# 1 4.3	# 2 4.6	# 3 3.4	# 4 6.4	# 5 5.7	# 6 5.1
# 7 4.9	# 8 3.5	# 9 4.3	# 10 4.6		
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 11.7	Amps 17.7	Ohms .66			

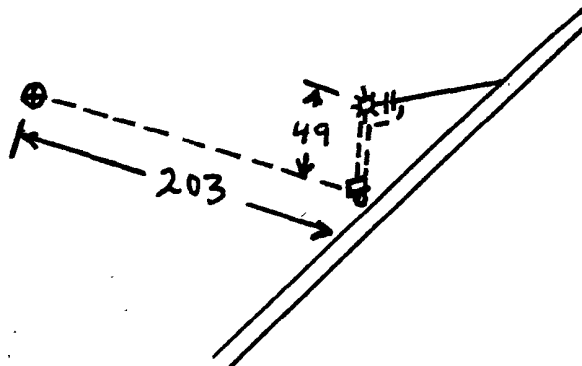
Remarks: ST%SW = .81 Drilled TO 100 FT Reamed TO 40 FT +
Set 40 FT OF 8" plastic casing, 2 1/2 hours setting casing
Drilled TO 220' water standing 75 FT next A.M. Believe
water AT 100 FT + 280 FT Drilled 380 Logged 380 INST
360 FT OF VENT pipe WITH 300 FT PERFORATED. Slurried
61 sacks of coke.

Hole depth = -120
meter pole
40V16A Rect
Ditch + cable = 252
EXTRA cable = 74
2 1/2 hrs setting casing

All Construction Completed

Robert J. Balrich
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

5889

1379 W

Contract # 2

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE

1979

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.	NO. DC	SIZE	LENG.	SERIAL NO.	NO. DC	SIZE	LENG.	SERIAL NO.	NO. DC	SIZE	LENG.
SIZE	STANDS	SINGLES	DOWN ON KELLY	SIZE	STANDS	SINGLES	DOWN ON KELLY	SIZE	STANDS	SINGLES	DOWN ON KELLY
MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH	MAKE	TOTAL DEPTH

Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED	Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED	Time	Wt.	Vis.	MUD, ADDITIVES USED AND RECEIVED
0	40		Loose Silt								
40	48		Sandstone								
48	65		Shale								
65	120		Sand water								

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
120	140	Shale						
140	155	Sandstone						
155	225	Shale						
225	250	Sandstone - shaley						
250	280	Shale						
280	380	Sand						

REMARKS -

Drilled 13 3/4 hole to 40 ft
 Installed 40 ft 9 in CSG.
 2 1/2 Hrs.

REMARKS -

Drilled to 380
 Logged to 380
 Water @ 100 + 280
 Water @ 75 ft overnite
 Estimate water @ 30 gpm

REMARKS -

SIGNED: Toolpusher

Loren O'Brian

Company Supervisor

Kurt Westmeland

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1 of 1
Date: 9-27-79
By: EAB
File: 1379W1379W Howell G#2A NW7-30-8
57293.21
STATIC % 600'SW = .81 UNION = OK9-27-79 = 8hrs
9-28-79 = 10hrs

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

100	.9	325 .7
5	1.0	30 .8
10	.9	5 .8
5	.9	40 .9
20	1.3	5 .8
5	1.5	50 .8
30	2.3	5 .8
5	1.3	10 .7
40	1.3	5 .6
5	1.1	70 .5
50	1.0	5
5	2.0	80
60	2.3 - 10	
5	2.5	
70	2.3 - 9	
5	2.0	
80	1.9 - 8	
5	1.7	
90	2.1 - 7	
5	2.5	
200	2.6 - 6	
5	2.5	
10	2.7 - 5	
5	2.9	
20	2.8 - 4	
5	2.5	
30	1.8 - 3	
5	.9	
40	1.3	
5	2.1 - 2	
50	2.4	
5	2.1 - 1	
60	1.2	
5	.6	
70	.6	
5	.6	
80	.7	
5	.7	
90	.8	
5	.8	
300	.8	
5	.9	
10	.8	
5	.8	
20	.7	

2 1/2 hrs set 45 FT OF 8" PLASTIC
CASING Drilled TO 100 FT
Reamed TO 45 FT TO SET CASING
Drilled TO 220 FT WATER
STANDING AT 75 FT NEW AM
Believe WATER AT 100 FT
4280' WATER 30 BPM
360' VENT pipe 300' PERF
6 SACKS OF COKE

Hole depth = -120
meter Pole
400' LA Rect
DITCH + cable = 252
EXTRA cable = 74

- ① 255 - 2.8 - 4.3
- ② 245 - 3.0 - 4.6
- ③ 230 - 2.4 - 3.4
- ④ 220 - 3.6 - 5.4
- ⑤ 210 - 4.1 - 5.7
- ⑥ 200 - 3.4 - 5.1
- ⑦ 190 - 2.9 - 4.9
- ⑧ 180 - 2.2 - 3.5
- ⑨ 170 - 2.8 - 4.3
- ⑩ 160 - 3.1 - 4.6

11.7 v 17.7 A = .66 ohms

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

Analysis No. 1-9786 Date 12-18-79

Operator El Paso Natural Gas Well Name Howell 6 #2A

Location NW 7-30-8 County San Juan State New Mexico

Field _____ Formation _____

Sampled From C.P.S. 1379W

Date Sampled _____ By _____

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

Sodium <u>943</u>	41	Chloride <u>16</u>	.5
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Calcium <u>70</u>	4	Bicarbonate <u>195</u>	3.2
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Magnesium <u>4</u>	.3	Sulfate <u>1980</u>	41
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Iron _____	_____	Carbonate <u>0</u>	0
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H ₂ S Absent	_____	Hydroxide <u>0</u>	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
Water at 280'

Total Solids Dissolved 3356

pH 7.9

Sp. Gr. 0.9988 at 60°F

Resistivity 200 ohm-cm at 70 °F

Je Barnett GCK
Chemist

