

1212
#1-A 30-045-22743

#20 30-045-22071

E
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. 29 Twp 32 Rng 10

Name of Well/Wells or Pipeline Serviced SCOTT #1A, #20

cps 1456w

Elevation 5988' Completion Date 7/17/79 Total Depth 400' 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. 110' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 42 SACKS

Depths anodes placed: 360', 350', 340', 305', 295', 285', 250', 240', 225', 210'

Depths vent pipes placed: 400'

Vent pipe perforations: 220'

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). ☐

CONTRACT #2 (2" X 60" DURATION)

Completion Date 7/17/79

Well Name SCOT #1A SCOT #20		Location NW 29-32-10		CPS No. 1456-W	
Type & Size Bit Used 6 3/4"				Work Order No. 57401-21 57102-31	
Anode Hole Depth 400' T.D. 400'	Total Drilling Rig Time	Coke Used 42 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 360'	# 2 350'	# 3 340'	# 4 305'	# 5 295'
Anode Depth	# 6 285'	# 7 250'	# 8 240'	# 9 225'	# 10 210'
Anode Output (Amps)	# 1 3.2	# 2 3.5	# 3 3.4	# 4 3.4	# 5 3.5
Anode Depth	# 6 3.2	# 7 4.2	# 8 4.0	# 9 3.8	# 10 4.3
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Anode Depth	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	Volts 11.5V		Amps 17.2 A		Ohms .67 Ω
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

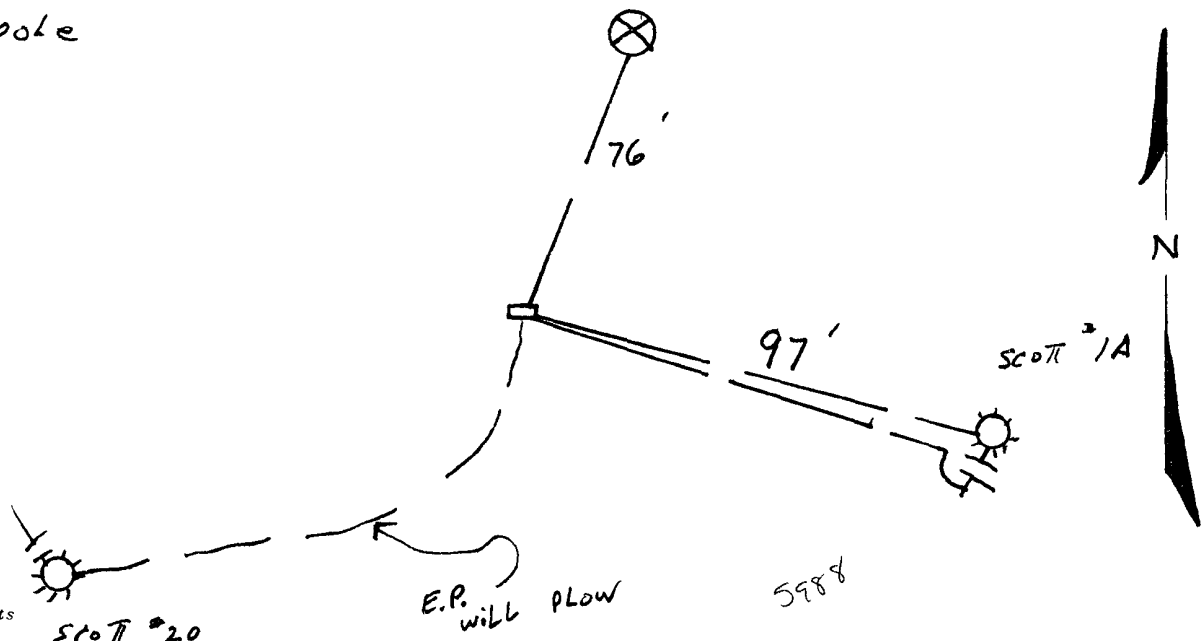
Remarks: STATIC 600' N = .78V ON SCOT #1A
STATIC 600' N = .79V ON SCOT #20 Driller SAID WATER AT 110', Drilled To 140', weighted 30 min. Could NOT BLOW WATER out of Hole. Drilled To 240'. WATER STANDING in hole next A.M. AT 180'. TOOK WATER sample. Hole MAKING APPROX. 5 GAL./MIN. Drilled 400'. Logged 400'. INSTALLED 400' of 1" P.V.C. VENT Pipe, Perforated 220'.

All Construction Completed

Ditch #1 cable = 173'
extra cable = 117'
Hole Depth - 100'

GROUND BED LAYOUT SKETCH

20' meter Loop pole
40/16 Rect.



LEASE			WELL NO.			CONTRACTOR			RIG NO.			REPORT NO.			DATE			19		
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.			
STANDS		STANDS		STANDS		STANDS		STANDS		STANDS		STANDS		STANDS		STANDS				
SINGLES		SINGLES		SINGLES		SINGLES		SINGLES		SINGLES		SINGLES		SINGLES		SINGLES				
DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY		DOWN ON KELLY				
TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH		TOTAL DEPTH				
MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED					
Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.			
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN						
0	10	SURFACE SANDSTONE				100	110	SHALE				205	300	SHALE						
10	30	SANDSTONE				110	140	SAND (WET)				300	310	SANDY SHALE						
30	35	SHALE				140	150	SHALE				310	315	SHALE						
35	45	SAND (WET)				150	152	SANDY SHALE				315	385	SANDY SHALE						
45	70	SHALE				152	170	SHALE				385	400	SHALE						
70	100	SAND (WET)				170	205	SAND (WET)												
REMARKS -						REMARKS -						REMARKS -								
												MAKING 5 gal per min @								
												200'								

SIGNED: Poolpusher Posky Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
 Date: _____
 By: _____
 File: _____

SCOTT * 1A

SCOTT = 20

NW 29-32-10

57401-21

57102-21

CPS = 1456 W

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

180 - 2.0

2.0

90 - 1.9

2.2

200 - 2.4

2.3

10 - 2.4 — (10)

2.3

20 - 2.2

2.2 — (13)

30 - 2.2

2.2

40 - 2.6 — (9)

2.2

50 - 2.8 — (3)

3.4

60 - 2.0

1.5

70 - 1.4

1.4

80 - 1.7

2.2 — (6)

90 - 2.3

2.7 — (3)

300 - 2.1

2.3 — (4)

10 - 2.2

1.8

20 - 2.1

2.1

30 - 2.0

2.5

40 - 2.4 — (3)

2.3

50 - 2.3 — (2)

2.1

60 - 2.2 — (1)

2.0

70 - 2.0

2.2

80 - 2.2

2.0

90 - 1.7

1.7

+00 - Drilled To T.D.

Driller said WATER AT 110'. Drilled To 140'; Weighted 30 min. could not blow WATER out of Hole. Drilled To 240'. WATER standing in hole next A.M. AT 180'. Drilled 400', Logged 400'. Installed 400' of 1" P.V.C. Vent Pipe Perforated 220'. Driller said Hole making approx. 5 gal/min.

11.5 ✓ 17.2A = 167 ²
 7/17/79 *jl*

1 = 360' - 2.3 - 3.2
 2 = 350' - 2.6 - 3.5
 3 = 340' - 2.6 - 3.4
 4 = 305' - 2.6 - 3.4
 5 = 295' - 2.7 - 3.5
 6 = 285' - 2.5 - 3.2
 7 = 250' - 3.2 - 4.2
 8 = 240' - 2.8 - 4.0
 9 = 225' - 2.4 - 3.8
 10 = 210' - 2.8 - 4.3

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

Analysis No. 1-9662 Date 8-3-79

Operator EPNG Well Name SCOTT 1A

Location NW 29-32-11 County SAN JUAN State NM

Field Formation

Sampled From CPS 1456 W 200'

Date Sampled By

Tbg. Press. <u></u>	Csg. Press. <u></u>	Surface Csg. Press. <u></u>	
ppm	epm	ppm	epm

Sodium <u>5635</u>	245	Chloride <u>3621</u>	102
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Calcium <u>280</u>	14	Bicarbonate <u>117</u>	2
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Magnesium <u>7</u>	1	Sulfate <u>7500</u>	156
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Iron <u>PRESENT</u>		Carbonate <u>0</u>	0
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H ₂ S <u>ABSENT</u>		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

Total Solids Dissolved 15832

pH 7.0

Sp. Gr. 1.0067 at 60°F

Resistivity 75 ohm-cm at 75 °F

5 gal/min

Cheryl Terwilliger
Chemist *JWS*

