

LUCERNE A #1-A 30-045-23137
SCOTT #11 30-045-21820

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. 9 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #1A, SCOTT #11

cps 1383w

Elevation 6007' Completion Date 7/13/79 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths 64' 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. WATER AT 110' & 130'

Depths gas encountered: N/A

Type & amount of coke breeze used: 36 SACKS

Depths anodes placed: 210', 200', 190', 180', 170', 160', 150', 140', 130', 120'

Depths vent pipes placed: 230'

Vent pipe perforations: 200'

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). ☐

CONTRACT #2 (2"X60" Durion)

Completion Date 7/13/79

Well Name Lucerne A #1A SCOTT #11		Location NW 9-31-10		CPS No. 1383 W																																																													
Type & Size Bit Used 6 3/4"				Work Order No. 57397-21 55915-21																																																													
Anode Hole Depth 300' T.D. 230'	Total Drilling Rig Time	_____ Coke Used 36 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used																																																													
<table border="1"> <tr> <td colspan="2">Anode Depth</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>#1 210'</td> <td>#2 200'</td> <td>#3 190'</td> <td>#4 180'</td> <td>#5 170'</td> <td>#6 160'</td> </tr> <tr> <td colspan="2">Anode Output (Amps)</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>#1 4.6</td> <td>#2 5.1</td> <td>#3 4.5</td> <td>#4 5.5</td> <td>#5 4.9</td> <td>#6 4.4</td> </tr> <tr> <td colspan="2">Anode Depth</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>#11</td> <td>#12</td> <td>#13</td> <td>#14</td> <td>#15</td> <td>#16</td> </tr> <tr> <td colspan="2">Anode Output (Amps)</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>#11</td> <td>#12</td> <td>#13</td> <td>#14</td> <td>#15</td> <td>#16</td> </tr> <tr> <td colspan="2">Total Circuit Resistance</td> <td colspan="2"></td> <td colspan="2">No. 8 C.P. Cable Used</td> </tr> <tr> <td>Volts 11.5 V</td> <td>Amps 16.5 A</td> <td>Ohms .7</td> <td colspan="2"></td> <td>No. 2 C.P. Cable Used</td> </tr> </table>						Anode Depth						#1 210'	#2 200'	#3 190'	#4 180'	#5 170'	#6 160'	Anode Output (Amps)						#1 4.6	#2 5.1	#3 4.5	#4 5.5	#5 4.9	#6 4.4	Anode Depth						#11	#12	#13	#14	#15	#16	Anode Output (Amps)						#11	#12	#13	#14	#15	#16	Total Circuit Resistance				No. 8 C.P. Cable Used		Volts 11.5 V	Amps 16.5 A	Ohms .7			No. 2 C.P. Cable Used
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Remarks: STATIC 600'S. = .88 V Driller said water at 110' + 130' approx. 2 gal./min. Drilled to 160'. Water standing in hole next A.M. AT 120'. Water sample would not settle out. Drilled to 300'. Logged 230'. Installed 230' of 1" P.V.C. vent pipe. Perforated 200'. When Driller first moved on location, Drilled ~~50'~~ ^{44'} HIT BOULDERS. Cable Tool Rig Drilled 75', set 64' of 8" casing. (Steel Pipe)

Ditch + 1 cable = 677'

extra cable = 140'

Hole Depth = ~~285'~~ 301'

GROUND BED LAYOUT SKETCH

All Construction Completed

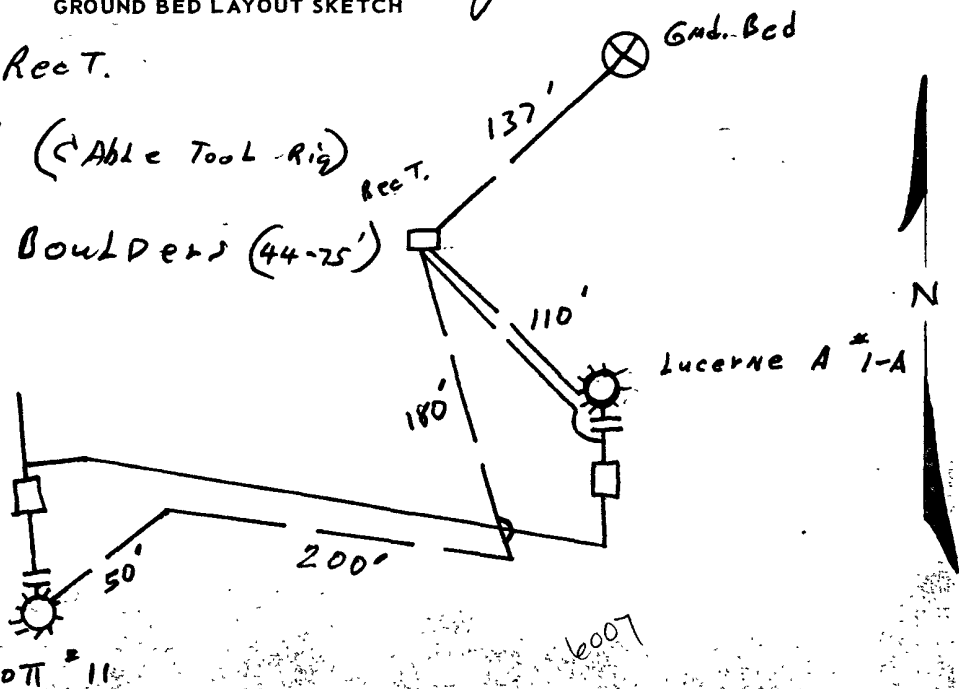
JE Stotts
(Signature)

Stub Pole & 40V 16A Rect.

7 Hr. Reaming 0-44' (Cable Tool Rig)

31' Drilling thru boulders (44-75')

25



DRILLING DEPARTMENT

DAILY DRILLING REPORT

1383 W

DRILLING DEPT
Contract #2

Posey

LEASE			WELL NO.			CONTRACTOR			RIG NO.			REPORT NO.			DATE			1979		
MORNING						DAYLIGHT						EVENING								
Driller						Driller						Driller								
Total Men In Crew						Total Men In Crew						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.			
SER. NO.		STANDS				SER. NO.		STANDS				SER. NO.		STANDS						
SIZE		SINGLES				SIZE		SINGLES				SIZE		SINGLES						
TYPE		DOWN ON KELLY				TYPE		DOWN ON KELLY				TYPE		DOWN ON KELLY						
MAKE		TOTAL DEPTH				MAKE		TOTAL DEPTH				MAKE		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.						
FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN				FROM	TO	TIME BREAKDOWN						
0	44	Hit Boulders				120	130	Shale				205	225	Shale						
44	75	Cable Tool				130	150	Sand wet				225	230	Sandy Shale						
75	110	Shale				150	160	Shale				230	260	Shale						
?	120	Sand wet.				160	162	Sandy Shale				260	290	Sandy Shale						
						162	180	Shale				290	300	Shale						
						180	205	Sandy Shale												
REMARKS -						REMARKS -						REMARKS -								
												Drilled To 300								
												Logged To 230								
												Water approx 29pm @ 110.								

SIGNED: Toolpusher

Posey

____ Company Supervisor

so Jerry Langley

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____

Date: _____

By: _____

File: _____

Lucerne A #1A
SCOTT #11
NW 9-31-10

W.O. 57397-2.

W.O. 55915-2.

CPS #1383-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

Driller said water at 110' & 130'. Approx. 2 gal./min. Drilled to 160'. Water standing in hole next AM at 120'. Water sample would not settle out. Drilled to 300'. Logged 230'. Installed 230' of 1" P.V.C. vent pipe perforated 200'. Driller drilled 44 hit boulders. Cable tool rig drilled 75'. Set 64' of 8" casing.

100 -

10 -

20 - 2.5 - ⑩

2.1

30 - 1.7 - ⑨

1.4

40 - 1.5 - ⑧

2.2

50 - 2.3 - ⑦

2.3

60 - 2.5 - ⑥

2.6

70 - 2.7 - ⑤

2.9

80 - 2.8 - ④

2.7

90 - 2.6 - ③

2.9

200 - 2.9 - ②

3.0

10 - 2.8 - ①

3.0

20 - 2.9

2.4

30 - T.D. 230.

40 -

50 -

60 -

70 -

80 -

90 -

300 -

1 - 210 - 2.5 - 4.6
2 - 200 - 3.9 - 5.1
3 - 190 - 3.3 - 4.5
4 - 180 - 3.8 - 5.5
5 - 170 - 3.5 - 4.9
6 - 160 - 3.1 - 4.4
7 - 150 - 2.9 - 4.3
8 - 140 - 1.8 - 3.2
9 - 130 - 2.4 - 3.8
10 - 120 - 3.5 - 4.6

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

10 HRS
0 HRS

7/13/79

JL

11.5 ✓ 16.4 A