

847

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30-045-22502

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

Operator MERIDIAN OIL Location: Unit SE Sec. 3 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #3A

cps 1239w

Elevation 6004' Completion Date 5/15/78 Total Depth 310' 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. 52' - 70' SAMPLE TAKEN

Depths gas encountered: N/A

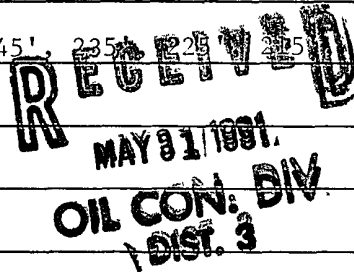
Type & amount of coke breeze used: N/A

Depths anodes placed: 285', 275', 265', 255', 245', 235', 225', 215', 205', 195', 180', 170'

Depths vent pipes placed: 290'

Vent pipe perforations: 245'

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): ☐

Completion Date 5-15-58

Well Name <u>LUCERNE A #3-A</u>		Location <u>SE 3-31-10</u>		CPS No. <u>12394</u>	
Type & Size Bit Used <u>6 3/4"</u>		Work Order No. <u>57207-21</u>			
Anode Hole Depth <u>310</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>285</u>	# 2 <u>275</u>	# 3 <u>265</u>	# 4 <u>255</u>	# 5 <u>245</u>	# 6 <u>235</u>
# 7 <u>225</u>	# 8 <u>215</u>	# 9 <u>180</u>	# 10 <u>170</u>		
Anode Output (Amps)					
# 1 <u>3.6</u>	# 2 <u>3.7</u>	# 3 <u>3.6</u>	# 4 <u>4.1</u>	# 5 <u>3.8</u>	# 6 <u>3.7</u>
# 7 <u>3.5</u>	# 8 <u>3.6</u>	# 9 <u>2.9</u>	# 10 <u>3.0</u>		
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 <u>10.2</u>	Amps <u>9.9</u>	Ohms <u>1.03</u>			

Remarks: STATIC 600' SW = 0.86. DRILLER SAID MAKING WATER BETWEEN 52' & 70'
MONDAY A.M. BLEW WATER. 4 GALS. PER MIN. STARTED TRJ @ 90'
PERFORATED 245' OF 1" PVC VENT PIPE. INSTALLED 290' OF 1" PVC VENT PIPE.

40V 16A RECT.

DITCH #1 CABLE = 436

STUB POLE

EXTRA CABLE = 144

HOLE DEPTH = -190

All Construction Completed

W I Lott

(Signature)

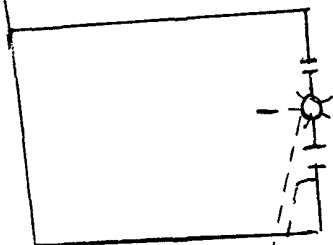
GROUND BED LAYOUT SKETCH

DISTRIBUTION:

WHITE - Division Corrosion Office

YELLOW - Area Corrosion Office

PINK - Originator File



292'

6004

DAILY DRILLING REPORT

LEASE			WELL NO. 1239W			CONTRACTOR O'Briant			RIG NO. 1			REPORT NO. 9			DATE May 15			1978		
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.								
SERI NO.		STANDS			SERI NO.		STANDS			SERI 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	16	Sand			82	85	Sand			182	200	Sandstone								
16	21	Boulders			85	115	Shale			200	225	Shale								
21	26	Sand			115	135	Sand			225	230	Sandstone								
26	52	Shale			135	137	Sdy Shale			230	270	Shale								
52	73	Sand "water" 49pm			137	165	Sandstone			270	272	Sandstone								
73	82	Shale			165	182	Shale			272	310	Shale								
REMARKS -					REMARKS -					REMARKS -										
										Drilled 6 3/4 to 310										
										Logged to 310										
										Water estimate 49pm @ 73ft										

SIGNED: Toolpusher

E. B. Grant

____ Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

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

285
50
245

Lucerne A #3-A SE 3-31-10 1239W 57207-21

Static 600' S.W. = 0.86

DRILLER SAID MAKING WATER 52-70'
MON. A.M. BLEW WATER 4:28 P.M.
STARTED IN @ 90'
PERFORATED 245' OF 1" PVC VENT PIPE
INSTALLED 290' OF 1" PVC VENT PIPE

400 16.4 Rectifier
Stub Pole.

DRILLED 310'
LOSS 4 310'

292

436 DITCH S.W. WIRE
144 EXTRA CABLE

MW		gals/mol
16.04	C1	6.4
30.07	C2	10.12
44.10	C3	10.42
58.12	iC4	12.38
58.12	nC4	11.93
72.15	iC5	13.85
72.15	nC5	13.71
86.18	iC6	15.50
86.18	C6	15.57
100.21	iC7	17.2
100.21	C7	17.46
114.23	C8	19.39
28.05	C2	9.64
42.08	C3	9.67

80 50 2.2
2.3 - ④

90 60 2.3
3.2 - ③

100 70 2.0
2.1 - ②

10 80 2.3
2.3 - ①

20 90 2.2
2.1

30 300 2.1
2.0

40 10 1.8 T.D. 5' DRILLED

50

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

60 285 ① 2.3 3.1 3.6
275 ② 2.3 3.2 3.7
265 ③ 2.1 3.1 3.6

70 1.3 - ⑩ 255 ④ 2.4 3.5 4.1
1.3 245 ⑤ 2.4 3.2 3.8

80 1.3 - ⑨ 235 ⑥ 2.3 3.2 3.7
1.2 225 ⑦ 2.2 3.1 3.5

90 .8 215 ⑧ 2.2 3.1 3.6
.9 180 ⑨ 1.8 2.6 2.9

200 1.0 170 ⑩ 1.9 2.6 3.0

10 1.3
1.6

1.9 - ⑧
20 2.0
2.1 - ⑦

30 2.1
2.1 - ⑥
40 2.1
2.2 - ⑤

10.2 VOLTS
9.9 AMPS
1.03 OHMS

El Paso Natural Gas Company
San Juan Division
Farmington, New Mexico
Production Department Water Analysis

CPS-1239-W

Analysis No. 1-9169 Date 5-31-78

Operator EPNG Well Name Lucerne A #3A

Location SE 3-31-10 County San Juan State NM

Field _____ Formation _____

Sampled From CPS 1239W

Date Sampled _____ by _____

Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>4646</u>	<u>202</u>	Chloride	<u>114</u>	<u>3</u>
Calcium	<u>342</u>	<u>17</u>	Bicarbonate	<u>366</u>	<u>6</u>
Magnesium	<u>96.5</u>	<u>8</u>	Sulfate	<u>10500</u>	<u>218</u>
Iron	<u>Present</u>		Carbonate	<u>0</u>	<u>0</u>
H ₂ S	<u>Absent</u>		Hydroxide	<u>0</u>	<u>0</u>

Total Dissolved Solids 16944

ph 8.0

Sp. Gr. 1.0160 at 60°F

Resistivity 59 ohm-cm at 74 °F

cc: D. C. Adams W. B. Shropshire
A. M. Smith
R. A. Ullrich
W. D. Dawson
~~E. R. Paulek~~
J. W. McCarthy
File

Cheryl Towilliger *Flus*
Chemist

