

4772

1 = 30-045-10875

8 = 30-045-22727

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

Operator MERIDIAN OIL Location: Unit SW Sec. 9 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced LUCERNE A #1, #8

cps 443w

Elevation 6133' Completion Date 11/15/71 Total Depth 380' 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. 190'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: 7100 lbs.

Depths anodes placed: 355', 345', 335', 325', 315', 270', 260', 250', 240', 230'

Depths vent pipes placed: 355'

Vent pipe perforations: 250'

Remarks: qb. #2

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 11-15-71

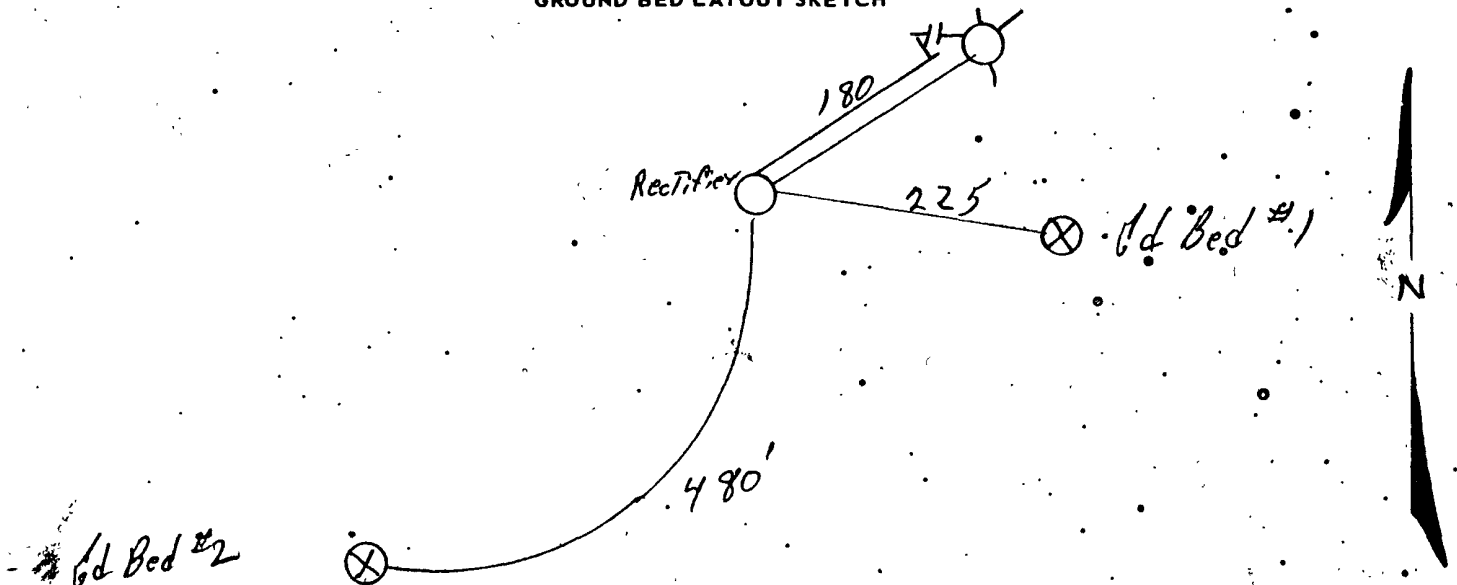
Well Name <u>LUCERNE A #1</u>		Location <u>SW 9 - 31N - 10 W</u>		CPS No. <u>443 W</u>						
Type & Size Bit Used <u>6 3/4</u>				Work Order No. <u>184-52478-50-20</u>						
Anode Hole Depth <u>380'</u>	Total Drilling Rig Time		Total Lbs. Coke Used <u>7100</u>	Lost Circulation Mat'l Used						
No. Sacks Mud Used										
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	<u>355</u>	<u>345</u>	<u>335</u>	<u>325</u>	<u>315</u>	<u>270</u>	<u>260</u>	<u>250</u>	<u>240</u>	<u>230</u>
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	<u>6.5</u>	<u>5.6</u>	<u>6.4</u>	<u>5.4</u>	<u>5.5</u>	<u>4.5</u>	<u>5.0</u>	<u>4.9</u>	<u>4.8</u>	<u>4.7</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	Volts <u>12.2</u>		Amps <u>19.3</u>		Ohms <u>0.64 Ω</u>		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
									<u>490'</u>	

Remarks: Driller said water @ 190' VENT Hose Perforated
250' TO #1 Anode. Pumped 441 Shovels = 63 Bags TO
54' completed By slurry

All Construction Completed

Paul H. Lavelle
(Signature)

GROUND BED LAYOUT SKETCH



DAILY DRILLING REPORT

C.P.S. # 443 W

[illegible]

SIGNED: Toolpusher _____ Company Supervisor _____

EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Sheet _____ of _____

Date: _____

By: _____

443 W
Lucerne / A

MW	gas/mol
16	C ₁ 6.4
30	C ₂ 9.16
44	C ₃ 10.42
58	IC ₄ 12.38
72	IC ₄ 13.85
86	IC ₄ 15.32
100	IC ₄ 16.79
114	C ₅ 18.26
128	C ₆ 19.73
142	C ₇ 21.20

MW	MISC.	gas/mol
44	CO ₂	6.38
34	H ₂ O	5.17
28	N ₂	4.16
2	H ₂	3.38

190	2.1	60	3.70	Water @ 190'		
	2.1		3.20	Vent Hose Per Drilled 250'		
200	1.44	70	3.10	To #1 ANode		
	1.34	76	Bottom			
10	1.38	80				
	1.64					
20	1.51			1	3.55	3.9
	2.30			2	3.45	3.8
30	3.30			3	3.35	3.7
	3.30			4	3.25	3.8
40	3.30			5	3.15	3.7
	3.40			6	2.70	2.9
50	3.40			7	2.60	3.5
	3.40			8	2.50	3.4
60	3.50			9	2.40	3.3
	3.30			10	2.30	3.3
70	2.90					
	2.60					
80	2.30					
	2.00					
90	2.30					
	2.6					
300	2.40					
	2.40					
10	3.40					
	3.70					
20	3.70					
	3.80					
30	3.70					
	3.70					
40	3.70					
	3.80					
50	4.00					
	3.90					
	3.70					

log. wtr. C_{oke}

12.2 V 19.3 0.64 -2