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30-045-22504

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. 9 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced LUCERNE A #2A

cps 1238w

Elevation 6173' Completion Date 11/5/78 Total Depth 340' Land Type* N/ACasing, Sizes, Types & Depths 64'If Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 80'Depths gas encountered: N/AType & amount of coke breeze used: 40 SACKSDepths anodes placed: 305', 295', 285', 275', 265', 255', 245', 235', 225', 215'Depths vent pipes placed: 320'Vent pipe perforations: 240'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) ☐

Completion Date **11-5-78**

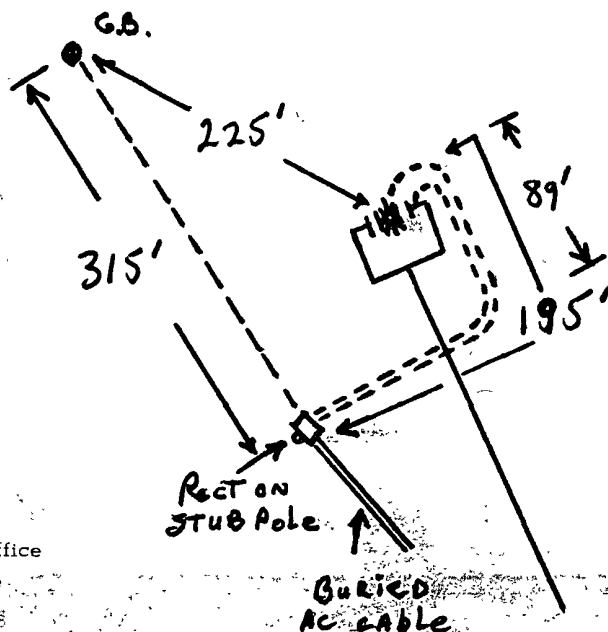
Well Name Lucerne A #2A		Location SE 9-31-1D		CPS No. 1238-W	
Type & Size Bit Used 6 3/4		CONTRACT # 3 ✓		Work Order No. 57208.21	
Anode Hole Depth 340-336^{TD}	Total Drilling Rig Time	Total Lbs. Coke Used 40 sacks	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 305	# 2 295	# 3 285	# 4 275	# 5 265	# 6 255
# 7 245	# 8 235	# 9 225	# 10 215		
Anode Output (Amps)					
# 1 4.4	# 2 2.8	# 3 4.0	# 4 4.4	# 5 4.0	# 6 4.1
# 7 4.5	# 8 4.4	# 9 5.9	# 10 4.9		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
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 11.5	Amps 18.7	Ohms .61			

Remarks: **STATIC 9s 600' W = .85 Wet Fill in hole below casing blind hole drilled 340'. Hole filled up to 230' while coming out of hole (natural water) filled 45' more in 20 min. water level held at approx 170'. INSTALLED 320' VENT PIPE PERFORATED 240' SLURRIED 40 SACKS COKE. Hole depth = -164 40016A Rect 2" x 60" DURIRON cable + ditch = 510' STUB POLE EXTRA CABLE = 195'**

All Construction Completed

Robert J. Bahrick
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

1238 W

LEASE		WELL NO.		CONTRACTOR		RIG NO.		REPORT NO.		DATE		19	
				O'Brian		1				Nov 5		78	

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. DC		SIZE		LENG.		BIT NO.		NO. DC		SIZE		LENG.	
SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY		SERIAL NO.		STANDS		SINGLES		DOWN ON KELLY	
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	83	Open Hole						
83	100	Silt in, gravel etc						
1	340	Blind - Heavy injection w/ foam. Some gravel fall in from behind CSG.						

REMARKS -	REMARKS -	REMARKS -
		Drilled To 340 w/ 6 3/4
		Logged To 336
		Water @ 80 ft
		Estimate water @ 5 gpm.

SIGNED: Toolpusher

Tom O'Brian

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1 of 1
Date: 11-5-78
By:
File: 1238 W. SE 9-31-10
LUCERNE A #2A 5720821 ST 9/5.600' W = 85 A=OK

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

DRILLED 340' NET FROM 83' TO
100' BLIND HOLE
Hole made 45' OF WATER
IN 20 min 230 → 185'
320' VENT PIPE 240' PERF
Hole made water to 170'
IN 45 min water level
fell to 170'

90	290	1.3
		1.5 - 2
100	300	2.5
		3.0 - 1
110	310	1.8
		1.7
120	320	1.3
		1.3
130	330	1.2
		1.0 TP 336
140	340	

40 SACKS OF COKE

Hole depth = -164'
Cable + ditch = 510'
EXTRA cable = 195'
40 V16A Rect
STUB HOLE
2 X 60 CUPRUM Anodes

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

140	1.0
150	1.1
160	1.2
170	1.4
180	1.4
190	1.5
200	1.7
210	1.7
	1.8 - 10
220	1.9
	2.2 - 9
230	2.3
	1.8 - 8
240	1.7
	1.7 - 7
250	1.7
	1.6 - 6
260	1.5
	1.9 - 5
270	2.4
	2.1 - 4
280	1.8
	1.7 - 3

①	305	-3.3	-11.4
②	295	-1.8	-2.8
③	285	-2.7	-1.0
④	275	-3.2	-11.4
⑤	265	-8.0	-2.0
⑥	255	-3.1	-11.1
⑦	245	-3.4	-4.5
⑧	235	-3.3	-11.4
⑨	225	-4.9	-5.9
⑩	215	-3.9	-11.9

11.5 V 18.7 A = .61 ohms