#6 30-045-05837

#13 30-045-13028

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. 14 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced BALLARD #6, #13

cps 875w

Elevation 6310' Completion Date 7/7/71 Total Depth 480' 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', 135'-150', 225'-260'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 425', 415', 405', 395', 380', 370', 360', 350', 340', 330'

Depths vent pipes placed: 425'

Vent pipe perforations: 300'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.

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.

El Paso Natural Gas Company
Form 7-238 (Rev. 1-69)

WELL ~~CASING~~
CATHODIC PROTECTION CONSTRUCTION REPORT
DAH~~L LOG~~

Topock

Drilling Log (Attach Hereto). ☐ Completion Date 7/7/71

Well Name	Location	CPS No.
Ballard # 13 Ballard # 6	NW 14- 25N -9W	875 W

Type & Size Bit Used	Work Order No.
6 3/4	184-91031-19-50-20 184-~~90827~~19-50-20

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
450				

Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	425	415	405	395	380	370	360	350	340	330
Anode Output (Amps)	4.4	5.3	6.8	4.6	3.7	5.3	4.0	4.2	4.9	4.4
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)										

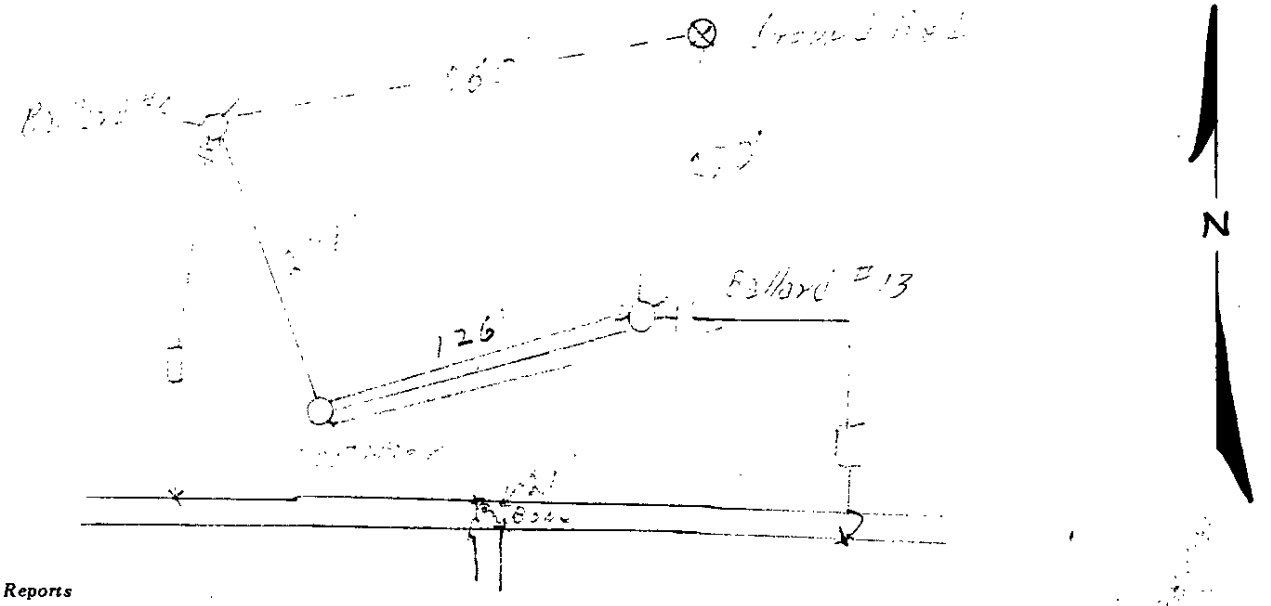
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.8	Amps 16.2	Ohms .78Ω	982'	

Remarks: {Ballard # 13 STATIC C/S 600' N = .74} Vent Hose Perforated
{Ballard # 6 STATIC C/S 600' N = .73} 300' To # 1 Anode
water @ 110 - 110, 135 - 150', 225 - 260'. water standing in Hole
in Housing @ 120'
Wires Marked = 1 NOTCH = Ballard 13 3 NOTCHES = Ballard # 6
2 NOTCHES = Flowline

All Construction Completed

J. Pauk
(Signature)

GROUND BED LAYOUT SKETCH



Original & 1 Copy All Reports

Form 7-1 (Rev. 5-67)

EL PASO NATURAL GAS COMPANY

ENGINEERING DEPARTMENT

Sheet ____ of ____

Date: ____

By: ____

Ballard #13

CPS 875 W

MW		gals/mol
16	C_1	6.4
30	C_2	7.56
44	C_3	10.42
58	IC_4	12.38
"	NC_4	11.93
72	IC_5	13.85
"	NC_5	13.71
86	IC_6	15.50
"	C_6	15.57
100	IC_7	17.7
"	C_7	17.46
114	C_8	19.38
28	CO	9.64
44	C_2	9.67

MW	MISC.	gals/mol
44	CO_2	0.36
34	H_2S	1.17
28	N_2	4.16
"	H_2	1.35

100			70	1.20		40	1.58				
				.92			1.20				
10			80	1.82		50	.75				
				1.42			.73				
20			90	.68		60	.74	Bottom			
	2.5			.40							
30	2.5		300	1.07							
	2.4			.88							
40	2.0		10	.66							
	1.95			.72							
50	2.1		20	.75		Depth		Water		Coke	
	2.1			1.12	1	425		2.1		4.4	
60	2.2		30	2.1	2	415		1.6		5.3	
	2.2			2.4	3	405		2.8		6.8	
70	2.0		40	2.2	4	395		2.1		4.6	
	1.95			2.1	5	380		2.0		3.7	
80	1.92		50	2.1	6	370		2.3		5.3	
	1.90			2.0	7	360		2.1		4.0	
90	2.0		60	2.0	8	.350		2.2		4.2	
	2.0			2.1	9	.340		2.3		4.9	
200	2.0		70	2.2	10	.330		2.1		4.4	
	2.0			2.3		12.8A		16.2A		.78	
10	2.0		80	2.0				Pay			
	2.1			1.33	1	1.49		6	1.20		
10	1.80		90	1.09	2	1.74		7	1.26		
	1.73			1.91	3	2.50		8	1.32		
20	1.82		400	1.5	4	1.50		9	1.58		
	.84			2.6	5	1.15		10	1.45		
40	.74		10	2.7							
	.75			2.4	Bottom Hole + 20 = 450'						
50	.70		20	2.3	Dif. + = 561' @ .20/MT						
	1.19			2.0	= $112.20						
60	1.88		30	1.76	Pay Total 508'						
	1.42			1.71							

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

C.PS# 875 w

LEASE ____ WELL NO. Ballard 13 CONTRACTOR Joe Morrow RIG NO. 1 REPORT NO. ____ DATE 7-6 1971

MORNING

Driller McCraw Total Men In Crew ____

FROM	TO	FORMATION	WT-BIT	R.P.M.
330	445	sandy shale		
445	450	sand		

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. ____ NO. DC ____ SIZE ____ LENG. ____
SIZE ____ STANDS ____
TYPE ____ SINGLES ____
MAKE ____ DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN
7:30	11:00	wait to log hole
11:00	11:30	log.
11:30	12:30	went back in hole mudded up
12:30	5:30	drlg. to 450 ft.

REMARKS –

DAYLIGHT

Driller ____ Total Men In Crew ____

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. ____ NO. DC ____ SIZE ____ LENG. ____
SIZE ____ STANDS ____
TYPE ____ SINGLES ____
MAKE ____ DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller ____ Total Men In Crew ____

FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO. ____ NO. DC ____ SIZE ____ LENG. ____
SERIAL NO. ____ NO. DC ____ SIZE ____ LENG. ____
SIZE ____ STANDS ____
TYPE ____ SINGLES ____
MAKE ____ DOWN ON KELLY ____
TOTAL DEPTH ____

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED
Time	Wt.	Vis.	

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher ____________ Company Supervisor ____________

Form 22-2 (Nov. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

C.P.S. 875w

DAILY DRILLING REPORT

LEASE E.P.N.G. WELL NO. Ballard 13 CONTRACTOR Joe Marcum RIG NO. 1 REPORT NO. DATE 7-5 1991

MORNING

Driller Marcum Total Men In Crew 3

FROM	TO	FORMATION	WT-BIT	R.P.M.
0	25	loose sand		
25	30	clay		
30	35	gravel and quartz		
35	100	shale		

NO. DC ___ SIZE ___ LENG. ___

BIT NO.

NO. DC ___ SIZE ___ LENG. ___

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN
7:30	8:30	moved and rig up
8:30	2:00	drilled mud pulled out to log.

REMARKS –

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
100	110	wet sand		
110	135	Shaley sand		
135	150	wet sand		
150	190	Shaley sand		

NO. DC ___ SIZE ___ LENG. ___

BIT NO.

NO. DC ___ SIZE ___ LENG. ___

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

EVENING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
190	200	shale		
200	225	shaley sand		
225	260	sand		
260	265	shale		
265	330	sand		

NO. DC ___ SIZE ___ LENG. ___

BIT NO.

NO. DC ___ SIZE ___ LENG. ___

SERIAL NO.

STANDS

SIZE

SINGLES

TYPE

DOWN ON KELLY

MAKE

TOTAL DEPTH

MUD RECORD

Time	Wt.	Vis.

MUD, ADDITIVES USED AND RECEIVED

FROM	TO	TIME BREAKDOWN

REMARKS –

SIGNED: Toolpusher Joe Marcum Company Supervisor