70-30-045-05975

230-30-045-20910

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. 8 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #70, #230

cps 954w

Elevation 6563' Completion Date 8/11/83 Total Depth 520' 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. 30' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 4100 lbs.

Depths anodes placed: 455', 445', 435', 425', 395', 385', 345', 335', 325', 295'

Depths vent pipes placed: 480' OF 1" PVC VENT PIPE

Vent pipe perforations: 480'

Remarks: cgb #2

RECEIVED
MAY 31 1991
OIL CON. D.
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.

FM-07-0238 (Rev. 10-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐ Completion Date 8-11-83

CPS #	Well Name, Line or Plant	Work Order #	Static:	Ins Union Check
954-W	HUERFANO #70	184-53075-19		☒ Good ☐ Bad
	HUERFANO #230	184-55230-19		

Location	Anode Size	Anode Type	Size Bit
NW 8-26-10	2"	DURIRON	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
520'	480'		4100		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	455	445	435	425	395	385	345	335	325	295
Anode Output (Amps)	4.2	4.7	5.1	3.7	6.3	4.4	5.0	5.6	4.0	6.0
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 12.3	Amps 21.6	Ohms .57		

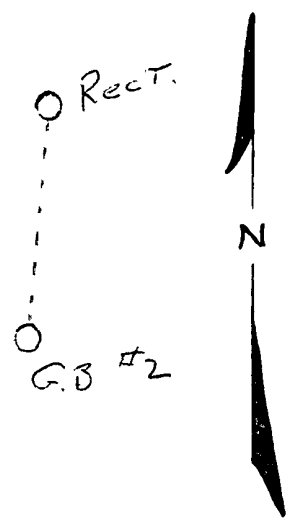
Remarks: DRILLER SAID HIT WATER AT 30'. HAD APPROX. 10' OF WATER STANDING IN HOLE NEXT A.M. GOT WATER SAMPLE. INSTALLED 480' OF 1" VENT PIPE. PERFORATED 480' OF VENT PIPE. SLURRIED 4100 lbs. of COKE BREEZE

Rectifier Size: _____ V _____ A
Addn'l Depth _____
Depth Credit: 20'
Extra Cable: 5'
Ditch & 1 Cable: 42'
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: _____

All Construction Completed

Willie Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY

DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE GPS 954W WELL NO. Huerfano 70-230 CONTRACTOR Loft's CC RIG NO. IR1 REPORT NO. DATE 8-11 19 83

MORNING

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
0-40	40	SANDSTONE		
40-80	80	Blue Shale		
80	120	SAND + SAND STONE		
120	215	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

REMARKS –

WATER 25' + 230
1 GPM

DAYLIGHT

Driller Total Men In Crew

FROM	TO	FORMATION	WT-BIT	R.P.M.
215	242	SAND STREAK of Shale		
242	294	grey Shale		
310	328	SAND		
328	520	grey Shale STREAKS of 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.

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 ____ Company Supervisor Roger Grill

El Paso Natural Gas Company
ENGINEERING CALCULATION SHEET
Form 7-371 (11-77)

CPS 954-W
Huerfano #70
Huerfano #230
NW 8-26-10

W/O
184-53075-19.50-20-63
184-55230-19.50-20-63

Driller said hit water at 30'. Had approx 10' of water standing in hole next A.M. Got water sample. Drilled to 520'. Installed 480' of 1" vent pipe. Perforated 480' of vent pipe. Slurried 4100 lbs. of coke breeze.

Page
Date 8-11-83
By WK

30	1.1	30	1.8	30	2.2				
35	2.1	35	1.5	35	2.2 (3)				
40	2.2	40	1.3	40	2.2				
45	2.3	45	1.1	45	2.2 (2)				
50	2.3	50	1.2	50	2.1				
55	2.3	55	1.8	55	2.0 (1)				
60	2.4	60	1.9	60	1.9				
65	2.4	65	2.2	65	1.8				
70	2.4	70	2.2	70	1.5				
75	2.1	75	2.2	75	1.5				
80	2.0	80	2.3	80		T.D			
85	1.9	85	2.3	85					
90	1.2	90	2.2	90					
95	.90	95	2.0 (10)	95					
100	.70	300	1.9	500					
05	.60	05	1.2	05					
10	.80	10	1.3	10					
15	1.5	15	1.8	15					
20	1.4	20	1.9	20					
25	1.2	25	2.1 (9)						
30	1.3	30	2.2						
35	1.7	35	2.2 (8)						
40	2.2	40	2.2						
45	2.2	45	2.0 (7)						
50	2.0	50	1.9						
55	1.8	55	1.2						
60	1.7	60	1.0			(1)	455	2.5	4.2
65	1.6	65	1.0			(2)	445	2.8	4.7
70	2.0	70	1.0			(3)	435	2.7	5.1
75	2.1	75	1.1			(4)	425	2.4	3.7
80	2.3	80	1.9			(5)	395	3.5	6.3
85	2.2	85	2.4 (6)			(6)	385	2.7	4.4
90	2.2	90	2.4			(7)	345	2.9	5.0
95	2.3	95	2.4 (5)			(8)	335	2.9	5.6
200	2.3	400	1.7			(9)	325	2.7	4.0
05	2.2	05	1.3			(10)	295	3.2	6.0
10	2.3	10	1.1						
15	2.3	15	1.3						
20	2.3	20	1.4						
25	2.1	25	1.9 (4)						

12.3 V 21.6 A .57 Ω

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10835 **Date** September 14, 1983

Operator El Paso Natural Gas **Well Name** Huerfano #230 CPS 954W

Location NW 8-26-10 **County** San Juan **State** New Mexico

Field Ballard **Formation**

Sampled From 30 feet

Date Sampled August 11, 1983 **By** Willis Knight

Tbg. Press. **Csg.** **Surface Csg. Press.**

	ppm	epm		ppm	epm
Sodium	301	13.1	**Chloride**	292	8.2
Calcium	19	1.0	**Bicarbonate**	183	3.0
Magnesium	4	0.3	**Sulfate**	150	3.1
Iron			**Carbonate**	0	0
H_2S			**Hydroxide**	0	0

cc: R. A. Ullrich
E. R. Paulek
J. W. McCarthy
J. D. Evans
W. B. Shropshire
D. C. Adams
File

Total Solids Dissolved 922

pH 8.2

Sp. Gr. 0.9994 **At** 60°F

Resistivity 500 **ohm-cm at** 74°F

Dennis P. Bird GCK
Chemist