

544 30-039-25007

82 30-039-07671

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

Operator MERIDIAN OIL Location: Unit NE Sec. 4 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #544, #82

cps 287w

Elevation 6188' Completion Date 10/28/78 Total Depth 480' Land Type* N/A

Casing, Sizes, Types & Depths 30'

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. 200' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 34 SACKS

Depths anodes placed: 425', 415', 405', 395', 385', 360', 350', 295', 285', 275'

Depths vent pipes placed: 462' of 1" PVC VENT PIPE

Vent pipe perforations: 300'

Remarks: qb #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). ☐

CONTRACT #3

Completion Date 10/28/78

Well Name S.J. 29-7 #82		Location NE 4-29-7		CPS No. 287 W	
Type & Size Bit Used 6 3/4		(2" x 60" Durion)		Work Order No. 52363-19	
Anode Hole Depth 480 — 462 T.D.	Total Drilling Rig Time	Total Lbs. Coke Used 34 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth	# 1 425'	# 2 415'	# 3 405'	# 4 395'	# 5 385'
Anode Output (Amps)	# 1 2.0	# 2 2.5	# 3 1.8	# 4 2.6	# 5 2.2
Anode Depth	# 6 360'	# 7 350'	# 8 295'	# 9 285'	# 10 275'
Anode Output (Amps)	# 6 2.2	# 7 2.5	# 8 2.6	# 9 2.5	# 10 2.1
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts 11.6		Amps 10.8		Ohms 1.07
No. 8 C.P. Cable Used		No. 2 C.P. Cable Used			

Remarks: Driller said water at 200' approx. 55 gal/min. Took water sample. Drilled 480'. Logging anode hit water at 183'. Logged 462'. Had to case 30' of hole before we could log hole. Installed 462' of 1" P.V.C. vent pipe perforated 300'.

Ditch + 1 cable = 50'

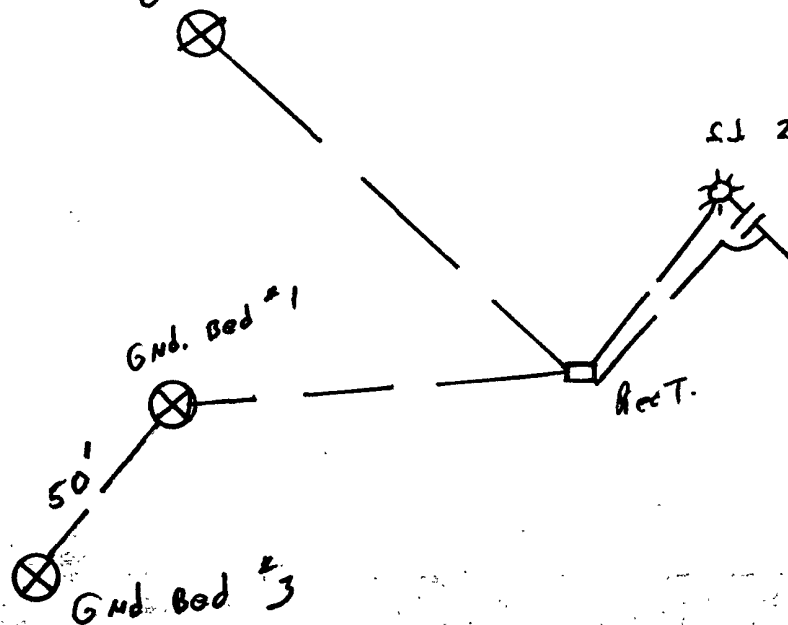
Hole Depth - 38'

All Construction Completed

JC Smith
(Signature)

Ground Bed #2

GROUND BED LAYOUT SKETCH



#287 W

Posey

LEASE			WELL NO.			CONTRACTOR			RIG NO.			REPORT NO.			DATE		
						PO									10-28 1978		
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.	BIT NO.		NO. DC		SIZE	LENG.
SERIAL NO.		STANDS				SERIAL NO.		STANDS				SERIAL 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	35	Silt				175	185	SAND (dry)				270	285	SHALE			
36	60	SHALE				185	190	SAND (wet)				285	290	SAND (dry)			
60	70	SAND (dry)				190	192	SHALE				290	340	SHALE			
	75	SHALE				192	210	SAND (wet) making water				340	400	SANDY SHALE			
15	140	SAND (damp)				210	260	SHALE				400	460	SHALE			
140	175	SHALE				260	270	SANDY SHALE				460	480	SANDY SHALE			
REMARKS -						REMARKS -						REMARKS -					
												water @ 200'					
												Approximately 55 gal/min.					

SIGNED: Toolpusher

Al Posey

____ Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

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

C.P.S. #287 ✓

S.J. #29-7 #82

NE 4-29-7

W.O. 52763-19

Driller said water at 200'
Approx 55 gal./min. Loggings
Anode hit water at 183'
Drilled 480', logged 462'
Cased 30' of Hole before
we could log hole.
Installed 462' of 1" P.V.C.
vent pipe. Perforated 300'.

MW	gals/mol
16.04	C ₁ 6.4
30.07	C ₂ 10.12
44.10	C ₃ 10.42
58.12	iC ₄ 12.38
58.12	nC ₄ 11.93
72.15	iC ₅ 13.85
72.15	nC ₅ 13.71
86.18	iC ₆ 15.50
86.18	C ₆ 15.57
100.21	iC ₇ 17.2
100.21	C ₇ 17.46
114.23	C ₈ 19.39
28.05	C ₂ 9.64
42.08	C ₃ 9.67

MW	MISC.	gals/mol
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

200 - .7	60 - 1.0 - ①
10 - .6	70 - .9
10 - .7	70 - .7
20 - .7	80 - .7
20 - .6	80 - .7
30 - .7	90 - 1.4 - ⑤
30 - .7	90 - 1.4 - ④
40 - .8	400 - 1.1
50 - .7	10 - 1.4 - ③
50 - .7	10 - 1.5
60 - .7	15 - 1.5 - ②
60 - .9	20 - 1.4
70 - .9	15 - 1.5 - ①
70 - .8	30 - 1.2
1.1 - ①	1.2
80 - 1.3	40 - 1.5
1.3 - ②	50 - 1.6
90 - 1.3	50 - .8
1.4 - ③	50 - .8
300 - .7	60 - .8

10/28/78

11.6V 10.8A = 1.07 W

10 - .5	462 TD	1 - 425' - 1.7 - 2.0
10 - .6	70 -	2 - 415' - 1.7 - 2.5
10 - .6	80 - Drilled To	3 - 405' - 1.4 - 1.8
20 - .6		4 - 395' - 1.8 - 2.6
20 - .6		5 - 385' - 1.2 - 2.2
30 - .6		6 - 360' - 1.4 - 2.2
30 - .6		7 - 350' - 1.6 - 2.5
40 - .7		8 - 295' - 1.8 - 2.6
1.0		9 - 285' - 1.5 - 2.5
50 - 1.4 - ①		10 - 275' - 1.0 - 2.1
1.5 - ②		

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

Analysis No. 1-9416 Date 12-12-78

Operator _____ Well Name S.J. 29-7 #82 287 W

Location NE 4-29-7 County _____ State _____

Field _____ Formation _____

Sampled From CPS ~~287~~ W

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____

ppm	epm	ppm	epm
Sodium <u>345</u>	<u>15</u>	Chloride <u>12</u>	<u>.3</u>

Calcium <u>524</u>	<u>26</u>	Bicarbonate <u>278</u>	<u>5</u>
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Magnesium <u>34</u>	<u>3</u>	Sulfate <u>1875</u>	<u>39</u>
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Iron <u>PRESENT</u>		Carbonate <u>0</u>	<u>0</u>
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H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u>	<u>0</u>
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cc: D.C.Adams
R.A.Ullrich
E.R.Paulek
J.W.McCarthy
A.M.Smith
W.B.Shropshire
File
Water at 200'
55 gal/min

Total Solids Dissolved 2812

pH 7.4

Sp. Gr. 1.0036 at 60°F

Resistivity 320 ohm-cm at 75 °F

Barnett - Ellsberg
Chemist

