

873

#2 30-039-07406
#91 30-039-20635

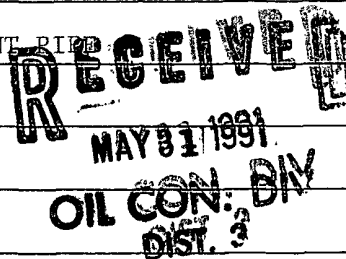
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)Operator MERIDIAN OIL Location: Unit SW Sec. 14 Twp 28 Rng 5Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #2, #91

cps 1113w

Elevation 6860' Completion Date 10/5/77 Total Depth 479' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf 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. 175'Depths gas encountered: N/AType & amount of coke breeze used: 46 SACKSDepths anodes placed: 410', 400', 390', 300', 290', 280', 250', 230', 220', 210'Depths vent pipes placed: 420' OF 1" PVC VENT PIPEVent pipe perforations: 240'Remarks: gb #1

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 10-5-77

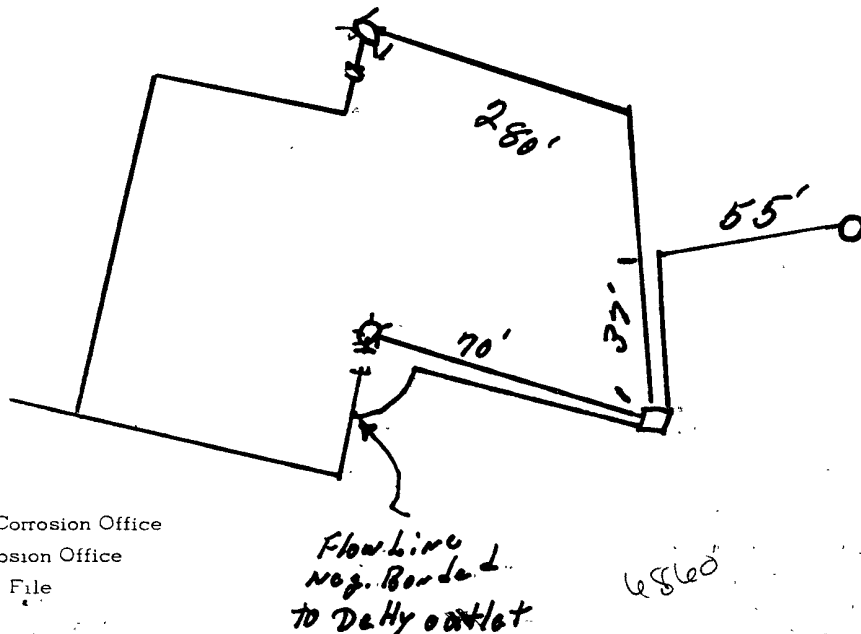
Well Name <u>SAN JUAN 28-5 Unit #2 & #91</u>				Location <u>SW 14-28-5</u>				CPS No. <u>1113 W</u>			
Type & Size Bit Used <u>6 3/4"</u>								Work Order No. <u>#2252403.19</u> <u>#91 = 55418.19</u>			
Anode Hole Depth <u>479</u> <u>Logged 434</u>		Total Drilling Rig Time		Total Lbs. Coke Used <u>46</u>		Lost Circulation Mat'l Used		No. Sacks Mud Used			
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	<u>410</u>	<u>400</u>	<u>390</u>	<u>300</u>	<u>290</u>	<u>280</u>	<u>250</u>	<u>230</u>	<u>220</u>	<u>210</u>	
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	
	<u>3.6</u>	<u>4.1</u>	<u>3.3</u>	<u>2.5</u>	<u>3.0</u>	<u>2.3</u>	<u>2.5</u>	<u>2.6</u>	<u>3.5</u>	<u>2.6</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>11.2</u>		Amps <u>13.6</u>		Ohms <u>0.82</u>		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

Remarks: Static #2 600' NE = 0.58 Static #91 600' E = 0.50
Installed 10-2"x2"x48" Graphite Anodes. Driller said MAKING
Water @ 175'. Drilled to 180' next A.M. blew water. Perforated 240'
of 1" PVC Vent Pipe. Installed 420' of 1" PVC Vent Pipe. Slurried
46 SACKS of COKE. #2 MARKED 1 notch & #91 MARKED 3 notches
Installed 60V 30A Rectifier.

All Construction Completed

W Z Lutz
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

El Paso Natural Gas Company
ENGINEERING CALCULATION

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

SAN JUAN 28-5 UNIT # 2

52403.19

SAN JUAN 28-5 UNIT # 91

SW 14-28-5

1113W

55418.19

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

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

Static #2 600' NE = .58				DRILLER SAID MAKING WATER @ 175			
Static #91 600' E = .50				Drilled to 180' next am blow water			
10-6-2001-2-2001-2-2001-2				Perforated 340' 2.5" PVC Vent Pipe			
60V 30A Rectifier				Installed 420' 2.5" PVC Vent Pipe			
Stub Pipe				Shipped 46 sacks of coke			
175	.4	.6	355	5	.7	.8	
50	3	.9	60	360 TD	.9	.5	
	.3	.4			.5	.5	
	.5	.5	70		.5	.4	
	.8	.3			.4	.5	
70	.7	.3	80		.5	.4	
	.6	.6			.4	.5	
10	.4	1.3	1090		.5	1.0	(3)
	.4	1.8			1.0	1.2	
20	.4	1.6	1.5	400	1.3	1.6	(2)
	1.5	2.1	1.1		1.7	1.7	
30	1.6	1.8	1.3	10	1.7	1.6	(1)
	2.2	1.3	1.1		1.6	1.2	
40	1.4	1.6	.9	20	1.2	1.2	
	1.4	1.2	1.0		1.2	1.5	
	1.6	1.1	1.1	30	1.6	1.6	
	1.2	1.3	1.0	Loss 434	1.6		
50	1.1	1.4	.7	40			
	1.2	1.3	.7				
70	1.3	.9	.6	50			
	1.2	.8	.6				
80	.8	.6	1.3	60			
	.7	.8	1.3				
90	.6	1.6	1.5	70			
	.8	1.5	1.3	49			
300	1.4	1.5	1.2	80			
	1.4	1.3	.9				
10	1.3	1.1	.3	90			
	1.2	.4	.6				
20	.8	.4	.5	500			
	.3	.6	.8				
30	.6	.6	1.1				
	.4	1.1	.3				
40	1.0	.5	.3				
	.3	.2	.4				
50	.3	.3	.8				
				11.2 VOLTS			
				13.6 AMPS			
				0.92 OHMS			

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE		WELL NO. <u>1113W</u>		CONTRACTOR <u>POSEY DRILLING CO.</u>		RIG NO.		REPORT NO.		DATE <u>Oct 4</u>		19 <u>77</u>					
MORNING					DAYLIGHT					EVENING							
Driller _____ Total Men In Crew _____					Driller <u>ALBERT L. POSEY</u> 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.		NO. DC _____ SIZE _____ LENG. _____		BIT NO.		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		SERIAL NO.		STANDS			
SIZE		SINGLES		SIZE		SINGLES		SIZE		SINGLES		SIZE		SINGLES			
TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY		TYPE		DOWN ON KELLY			
MAKE		TOTAL DEPTH		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					
<u>0</u>	<u>15</u>	<u>SURFACE</u>			<u>150</u>	<u>160</u>	<u>SHALE</u>			<u>289</u>	<u>340</u>	<u>Red SHALE</u>					
<u>15</u>	<u>35</u>	<u>SANDSTONE</u>			<u>160</u>	<u>179</u>	<u>SAND WET (MAKING WATER)</u>			<u>340</u>	<u>380</u>	<u>BLUE SHALE</u>					
<u>35</u>	<u>95</u>	<u>SHALE</u>			<u>179</u>	<u>187</u>	<u>SHALE</u>			380	435	SHALE					
<u>95</u>	<u>112</u>	<u>SANDSTONE</u>			<u>187</u>	<u>215</u>	<u>SANDY SHALE</u>			<u>380</u>	<u>435</u>	<u>Sand WET</u>					
<u>112</u>	<u>145</u>	<u>SHALE</u>			<u>215</u>	<u>275</u>	<u>SHALE</u>			<u>435</u>	<u>479</u>	<u>Shale</u>					
<u>145</u>	<u>150</u>	<u>WET SAND</u>			<u>275</u>	<u>289</u>	<u>SANDY SHALE</u>										
REMARKS -					REMARKS -					REMARKS -							
										Drilled 479 <u>479</u>							
										Logged <u>439</u>							
										456 Total Depth							

SIGNED: Toolpusher _____

Company Supervisor B