

1065

#54 30-039-82365^E

#97 30-039-06785

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

Operator MERIDIAN OIL INC. Location: Unit SW Sec. 31³ Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #54, #97
cps 1787w

Elevation 6487' Completion Date 10/11/85 Total Depth 400' 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. 40' & 220' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3200 lbs.

Depths anodes placed: 380', 370', 355', 340', 325'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: (gb #1 LOST HOLE.

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.

1159

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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 INC. Location: Unit SW Sec. 51 Twp 27 Rng 5
Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #54, #97
cps 1787
Elevation 6487' Completion Date 10/11/85 Total Depth 400' 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. 40' & 220'
Depths gas encountered: N/A
Type & amount of coke breeze used: N/A
Depths anodes placed: 320', 300', 265', 250', 235'
Depths vent pipes placed: N/A
Vent pipe perforations: N/A
Remarks: gb #2

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 2

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 10-11-85

CPS # <u>1787W</u>	Well Name, Line or Plant: <u>SJ27-5 #54</u>	Work Order #	Static: <u>.76</u>	Ins. Union Check
<u>SJ27-27-5</u>	<u>SJ27-5 #97</u>		<u>.77</u>	☒ Good ☐ Bad
Location: <u>SJ51-27-5</u>	Anode Size: <u>2" x 60"</u>	Anode Type: <u>Duriron</u>	Size Bit: <u>6 3/4"</u>	
Depth Drilled: <u>400'</u>	Depth Logged: <u>400'</u>	Drilling Rig Time	Total Lbs. Coke Used: <u>3200</u>	Lost Circulation Mat'l Used
Anode Depth				
# 1 <u>385</u>	# 2 <u>370</u>	# 3 <u>355</u>	# 4 <u>340</u>	# 5 <u>325</u>
# 6 <u>320</u>	# 7 <u>300</u>	# 8 <u>265</u>	# 9 <u>250</u>	# 10 <u>235</u>
Anode Output (Amps)				
# 1 <u>3.5</u>	# 2 <u>6.1</u>	# 3 <u>5.0</u>	# 4 <u>4.1</u>	# 5 <u>3.7</u>
# 6 <u>3.5</u>	# 7 <u>4.3</u>	# 8 <u>3.4</u>	# 9 <u>4.0</u>	# 10 <u>3.3</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>12.15</u>	Amps <u>18.6</u>	Ohms <u>65</u>	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

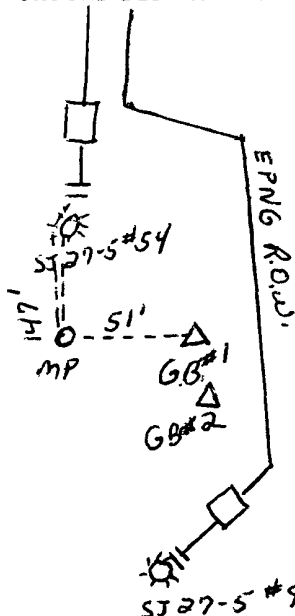
Remarks: Water at 40' & 220' Hole #1 got first five anodes
coked and lost hole. Moved over 30' feet and drilled
hole #2 with anodes 6-10 in hole #2

Rectifier Size: 60 V 30 A - 1150.00
 Addn'l Depth: _____
 Depth Credit: 100 x 3.00 = 300.00
 Extra Cable: 177' x .37 = 65.49
 Ditch & 1 Cable: 198' x 1.35 = 267.30
 25' Meter Pole: one - 550.00
 20' Meter Pole: _____
 10' Stub Pole: _____

All Construction Completed

Randy Smith
 (Signature)

GROUND BED LAYOUT SKETCH



6687

4740.00
 - 300.00
 65.49
 267.30
 550.00
 1150.00
 300.00
 6772.79

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

ANALYSIS NO.: 1-11803
OPERATOR: MERIDIAN OIL
LOCATION: 31-27-5
FIELD: LOWRY
SAMPLED FROM: GROUND BED
DATE SAMPLED: OCTOBER 28, 1985
TUBING PRESSURE:
SURFACE CASING PRESSURE:

DATE: NOVEMBER 22, 1985
WELL NAME: SJ 27-5 #97 CPS #1787W
COUNTY RIO ARriba STATE: NM
FORMATION: SURFACE

SECURED BY:
CASING PRESSURE:

	SAMPLE SIZE	ml. TIT	AS CaCO3	AS ION	epm
TOTAL ALKALINITY	50	8.5	170		
P ALKALINITY	50	0	0		
BICARBONATE	50	8.5	170	207	3.40
CARBONATE	50	0	0	0	0.00
CHLORIDE	50	7.1		142	4.00
SULFATE				465	9.67
TOTAL HARDNESS	50	3.7	74		
CALCIUM	50	3.7	74	30	1.46
MAGNESIUM	50	0	0	0	0.00
IRON				ABSENT	
SODIUM (CALCULATED)				359	15.60
H2S				ABSENT	
HYDROCARBONS				ABSENT	
TOTAL DISSOLVED SOLIDS				1264	
pH				6.7	
SPECIFIC GRAVITY			NT AT 60F		
RESISTIVITY			575 OHM-CM AT		
CONDUCTIVITY			1740 MICROMHOS @ 25C.		

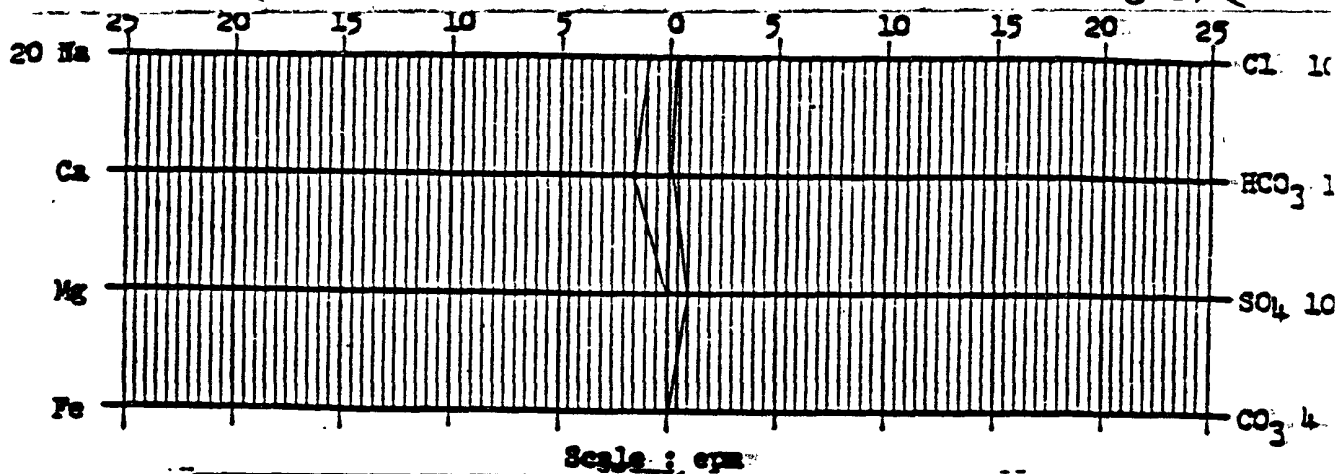
ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 ppm

CC: R. A. ULLRICH
J. D. EVANS
D. C. ADAMS
W. F. LORETT
J. L. WILLIAMS
G. C. KARDOS
FILE

SANDRA ARAGON

CHEMIST

GCK



EL PASO NATURAL GAS COMPANY
CONSTRUCTION LOGGING READINGS

Hole #2

CPS #: 1787 WELL NAME: SJ 27-5#54 #97 LOCATION: 31-27-5 DATE:

TOTAL VOLTS: 12.15 TOTAL AMPS: 18.6 OHMS RESISTANCE: 65

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			6	320	1.9	3.5
10			190			370			550			7	300	2.2	4.3
15			195			375			555			8	265	2.1	3.4
20			200	.9		380			560			9	250	2.4	4.0
25			205	1.0		385			565			10	235	1.8	3.3
30			210	.8		390			570						
35			215	.7		395			575						
40			220	.6		400			580						
45			225	1.2		405			585						
50			230	1.9		410			590						
55			235	1.8	10	415			595						
60			240	1.8		420			600						
65			245	2.4		425			605						
70			250	2.4	2	430			610						
75			255	3.0		435			615						
80			260	2.9		440			620						
85			265	2.1	8	445			625						
90			270	1.3		450			630						
95			275	1.0		455			635						
100			280	.8		460			640						
105			285	.9		465			645						
110			290	2.0		470			650						
115			295	1.8		475			655						
120			300	2.0	2	480			660						
125			305	2.7		485			665						
130			310	2.9		490			670						
135			315	1.9	8	495			675						
140			320	1.9	6	500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340	TD 340'		520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Water at 46' and 220' Hole #2 with anodes 10-6 in it.

EL PASO NATURAL GAS COMPANY
CONSTRUCTION LOGGING READINGS

Hole # 1

CPS #: 17876 WELL NAME: ST 27.5 # 547 # 47 LOCATION: SW 31-27.5 DATE:

TOTAL VOLTS:

TOTAL AMPS:

OHMS RESISTANCE:

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	2.2		365	3.2		545			①	385	2.3	3.5
10			190	1.8		370	2.8	②	550			②	370	2.8	6.1
15			195	1.1		375	2.4		555			③	355	2.4	5.0
20			200	1.0		380	2.2		560			④	340	1.9	4.1
25			205	1.1		385	2.3	①	565			⑤	325	2.0	3.7
30			210	.7		390	2.3		570			⑥	310	2.7	
35			215	.6		395	2.3		575			⑦	290		
40			220	.5		400	2.1		580			⑧	280		
45			225	.8		405	TD 400		585			⑨	245		
50			230	1.5	(10)	410			590			⑩	230		
55			235	1.6		415			595						
60			240	1.8		420			600						
65			245	2.3	(9)	425			605						
70			250	2.3		430			610						
75			255	3.1		435			615						
80			260	2.5	(8)	440			620						
85			265	1.8		445			625						
90			270	1.0		450			630						
95			275	.8		455			635						
100			280	.8		460			640						
105			285	1.4		465			645						
110			290	2.2	(7)	470			650						
115			295	1.8		475			655						
120	.7		300	2.3		480			660						
125	.7		305	2.9	(6)	485			665						
130	.8		310	2.9	(6)	490			670						
135	1.2		315	2.3		495			675						
140	2.5		320	2.0	(5)	500			680						
145	2.5		325	1.9	(5)	505			685						
150	2.0		330	2.7		510			690						
155	3.1		335	2.1		515			695						
160	3.1		340	1.8	(4)	520			700						
165	2.2		345	1.8		525			705						
170	2.3		350	2.1		530			710						
175	2.4		355	2.4	(3)	535			715						
180	2.5		360	3.0		540			720						

REMARKS: Water at 40' and 220' Got first 5 anodes coked and lost hole.