

86-30-039-07114

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

64-30-039-07105

Operator MERIDIAN OIL CO. Location: Unit M Sec. 9 Twp. 27 Rng. 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27 - 5 # 86 & 64

Elevation Completion Date 10/3/90 Total Depth 360 Land Type

Casing Strings, Sizes, Types & Depths 20 ft. 8" PVC Casing

If Casing Strings are cemented, show amounts & types used

If Cement or Bentonite Plugs have been placed, show depths & amounts used

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. wet at 55 & 80 ft., hit water at 350 & got a sample

Depths gas encountered:

Ground bed depth with type & amount of coke breeze used:

Depths anodes placed: 330, 320, 310, 300, 290 280, 250, 215, 205, 195

Depths vent pipes placed: 360 ft. 1" PVC Vent Pipe

Vent pipe perforations: 280 ft. perforated

Remarks:

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 Here) ☐Completion Date 10-3-90

CPS #		Well Name, Line or Plant:		Work Order #		Static:		Ins. Union Check	
745-W		5527-5 # 86						☒ Good ☐ Bad	
		5527-5 # 64							
Location:		Anode Size:		Anode Type:		Size Bit:			
M9-27-5		2" X 60"		ANDTEC		6 3/4			
Depth Drilled		Depth Logged		Drilling Rig Time		Total Lbs. Coke Used		Lost Circulation Mat'l Used	
360'		355'				4400 #			
Anode Depth									
# 1 330	# 2 320	# 3 310	# 4 300	# 5 290	# 6 280	# 7 250	# 8 215	# 9 205	# 10 195
Anode Output (Amps)									
# 1 3.5	# 2 5.1	# 3 4.7	# 4 4.2	# 5 5.4	# 6 5.1	# 7 3.0	# 8 4.6	# 9 5.3	# 10 4.5
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 11.9		Amps 17.8		Ohms .66					

Remarks: SET 20' of 8" PVC CASING. DRILLER SAID WET AT 55', WAITED 20 MINUTES
 COULD NOT BLOW WATER. DRILLER SAID WET AT 80', WAITED 20 MINUTES
 COULD NOT BLOW WATER. HIT WATER AT 350', GOT WATER SAMPLE.
 RAN 360' of 1" PVC VENT PIPE. PERFORATED 280' of VENT PIPE. LEFT
 COKE BREEZE APPROXIMATELY 140'

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 10'
 Ditch & 1 Cable: 18'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

Willis Knight Jr.
 (Signature)

GROUND BED LAYOUT SKETCH

G.B. #2
 18' Rectifier

G.B. #1

RECEIVED

OCT 24 1990

OIL CON. DIV.
 DIST. 3

27-5 #86
 27-5 #64



CONSTRUCTION LOGGING READINGS

Meridian Oil

CPS #: 745-W WELL NAME: SJ 27-5 #86x64 LOCATION: M9-27.5 DATE: 10-3-90

TOTAL VOLTS: 11.9 TOTAL AMPS: 17.8 OHMS RESISTANCE: 166.

												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	1.2		365			545			1	330	1.2	3.5
10			190	1.2		370			550			2	320	1.9	5.1
15			195	1.3	10	375			555			3	310	1.5	4.7
20			200	1.2		380			560			4	300	1.3	4.2
25			205	1.7	9	385			565			5	290	2.2	5.4
30			210	1.7		390			570			6	280	1.8	5.1
35			215	1.4	8	395			575			7	250	1.2	3.0
40			220	1.90		400			580			8	215	1.6	4.6
45			225	.50		405			585			9	205	1.7	5.3
50			230	.30		410			590			10	195	1.3	4.5
55			235	.30		415			595						
60			240	.30		420			600						
65			245	.80		425			605						
70			250	1.1	7	430			610						
75			255	1.1		435			615						
80	1.3		260	.70		440			620						
85	1.4		265	.60		445			625						
90	1.2		270	.60		450			630						
95	1.5		275	.50		455			635						
100	1.5		280	1.80	6	460			640						
105	1.7		285	2.0		465			645						
110	1.3		290	2.0	5	470			650						
115	1.5		295	1.3		475			655						
120	1.6		300	1.3	4	480			660						
125	1.5		305	1.6		485			665						
130	2.0		310	1.5	3	490			670						
135	1.7		315	1.5		495			675						
140	1.5		320	1.9	2	500			680						
145	1.9		325	1.6		505			685						
150	1.7		330	1.2	1	510			690						
155	1.7		335	.60		515			695						
160	1.0		340	.50		520			700						
165	.50		345	.30		525			705						
170	1.40		350	1.0		530			710						
175	1.60		355	1.0	T.D	535			715						
180	.70		360			540			720						

REMARKS: SET 20' OF 8" PRC CASING. DRILLER SAID WET AT 55', WAITED 20 MINUTES COULD NOT BLOW WATER. DRILLER SAID WET AT 80' WAITED 20 MINUTES COULD NOT BLOW WATER. HIT WATER AT 350' SET WATER SAMPLE

**P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410**

MERIDIAN OIL

DAILY DRILLING REPORT

10-9

192

SAN JUAN 27-5

#86 $\frac{1}{2}$ 64

M-9

27

5

FEET:

HOLE MADE:

350

3500

[illegible]

REMARKS:

REMARKS: Set 20' 8" PVC casing cemented, had moisture at 50' 85' and 350'. Got water sample. Water came back up the hole.

Driller

Driller: Blair E. Burge

Tool Dresser

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-901008-0028

Company MERIDIAN OIL INC.		Sample No. CPS 745-W		Date Sampled 10-3-90	
Field BLANCO		Legal Description M 9-27-5		County or Parish RIO ARRIBA	
Lease or Unit		Well JS 27-5 #64		Depth 350'	
Type of Water (Produced, Supply, etc.)		Sampling Point		Water, B/D	
				Sampled By W. Knight Jr.	



TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	271	11.8
Calcium, Ca	12	0.6
Magnesium, Mg	22	1.8
Barium, Ba	-	-

ANIONS

Chloride, Cl	255	7.2
Sulfate, So ₄	-	-
Carbonate, CO ₃	-	-
Bicarbonate, HCO ₃	427	7

OTHER PROPERTIES

pH	8.67
Specific Gravity, 60/60 F.	1.0084
Resistivity (ohm-meters) 61.5 F.	11.1

Total Dissolved Solids (calc.)

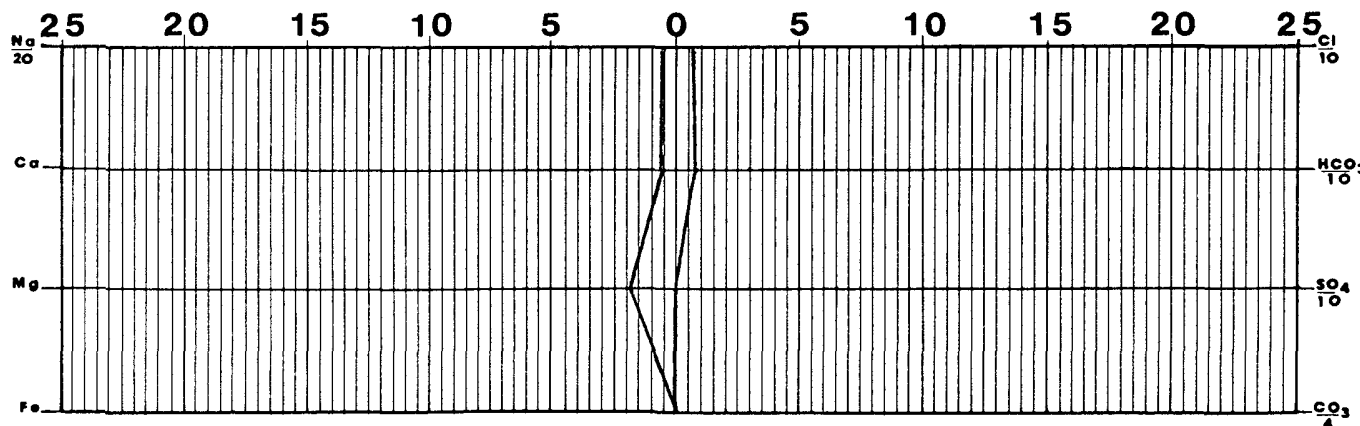
987

Iron, Fe (total)

Sulfide, as H₂S

REMARKS & RECOMMENDATIONS: ATTN. M.O. McFARLAND

Due to significant suspended solids in original sample solution, diluted after filtration 2 to 1 prior to analyses for ion concentrations.



Date Received 8th Oct, 1990.	Preserved	Date Analyzed 15th Oct, 1990.	Analyzed By R.H.
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