89 - 30-039-07177
52- 30-039-07155

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

Operator MERIDIAN OIL CO. Location: Unit L Sec. 4 Twp. 27 Rng.

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 # 89 & 52

CDS 738W

Elevation 6619' Completion Date 9/27/90 Total Depth 420 Land Type N/A

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

If Casing Strings are cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts use
N/A

Depths & thickness of water zones with description of water: Fresh, Cle
Salty, Sulphur, Etc. 60 ft.

Depths gas encountered: N/A

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

410 ft. with 8000 lbs of Ashbury Petroleum Coke

Depths anodes placed: 375, 365, 285, 275, 150, 140, 130, 120, 110, 95

Depths vent pipes placed: 420 ft. 1" PVC

Vent pipe perforations: 360 ft.

Remarks: Gb. #2

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of
logs, including Drillers Log, Water Analyses & Well Bore Schematics sho
be submitted when available. Unplugged abandoned wells are to be inclu

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)

#35

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐

Completion Date 9-27-90

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
738-W	SJ 27-5 #89 SJ 27-5 #52			☑ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
24-27-5	2"X 60"	ANOTEC	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
420'	410'		8000 lb		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	375	365	285	275	150	140	130	120	110	95
Anode Output (Amps)	4.4	4.9	5.2	4.2	4.5	5.7	7.8	6.8	5.8	5.1

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 19.8	Ohms .60			

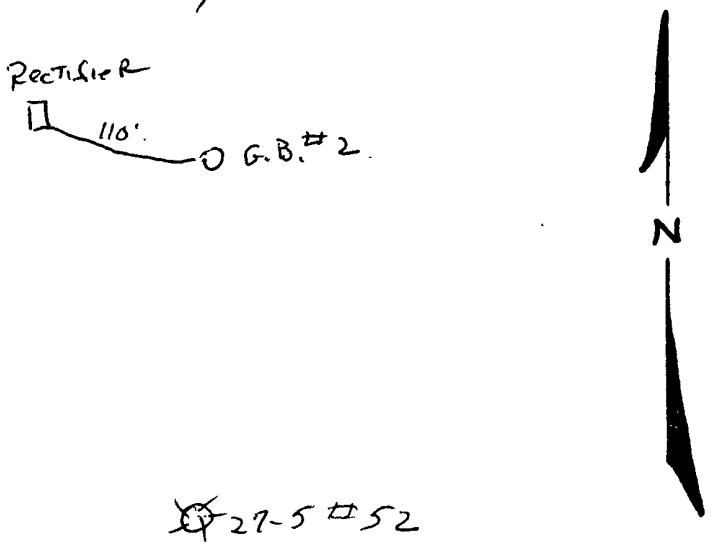
Remarks: SET 20' OF 8" PVC CASING. DRILLER SAID WATER AT 60', SAID WATER STANDING AT 40' THIS A.M. RAN 420' OF 1" PVC VENT PIPE. PERFORATED 360' OF VENT PIPE. LEFT COKE BREEZE APPROXIMATELY 50'

Rectifier Size: _____ V _____ A
Addn'l Depth _____
Depth Credit: _____
Extra Cable: 10
Ditch & 1 Cable: 110'
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: _____
Junction Box: 1

All Construction Completed

Willie Knight Jr
(Signature)

GROUND BED LAYOUT SKETCH



CONSTRUCTION LOGGING READINGS

N. Idion Oil

CPS #: 738-W. WELL NAME: S.J. 275 # 89+52 LOCATION: 24-27-5 DATE: 9-27-90

TOTAL VOLTS: 11.8 TOTAL AMPS: 19.8 OHMS RESISTANCE: .60.

DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE No.	DEEP	LOG ANODE	ANODE No.
5			185	.50		365	1.7	2	545		
10			190	.40		370	1.6	"	550		
15			195	.30		375	1.5	1	555		
20			200	.40		380	1.3		560		
25			205	.30		385	.80		565		
30			210	.50		390	.80		570		
35			215	.30		395	.60		575		
40			220	.80		400	.50		580		
45			225	1.2		405	.40		585		
50			230	1.3		410	.40	TD	590		
55			235	1.1		415			595		
60	.80		240	1.0		420			600		
65	1.1		245	.70		425			605		
70	1.6		250	.50		430			610		
75	2.0		255	.40		435			615		
80	2.2		260	.90		440			620		
85	2.0		265	.50		445			625		
90	2.1		270	.90		450			630		
95	1.8	10	275	1.6	4	455			635		
100	1.4		280	2.0		460			640		
105	1.5		285	1.7	3	465			645		
110	2.1	9	290	1.1		470			650		
115	1.9		295	.30		475			655		
120	2.0	8	300	.30		480			660		
125	2.6		305	.30		485			665		
130	2.7	7	310	.30		490			670		
135	2.4		315	.70		495			675		
140	2.2	6	320	1.0		500			680		
145	1.3		325	.90		505			685		
150	1.7	5	330	.40		510			690		
155	1.2		335	.30		515			695		
160	.80		340	.30		520			700		
165	.90		345	.30		525			705		
170	.90		350	.60		530			710		
175	.90		355	1.2		535			715		
180	.70		360	1.2		540			720		

ANODE READINGS

NO.	DEPTH	NO COKE	WITH COKE
1	375	1.6	4.4
2	365	1.7	4.9
3	285	2.2	5.2
4	275	1.6	4.2
5	150	1.9	4.5
6	140	2.7	5.7
7	130	3.4	7.8
8	120	1.9	6.8
9	110	2.2	5.8
10	95	2.3	5.1

REMARKS: Set 20' of 8" PVC casing. Driller said water at 60', said water standing at 40' this AM.

BURGE CORROSION SYSTEMS, INC.

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

COMPANY Meridian Oil DAILY DRILLING REPORT 9-27 19 90

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
SJ 27-5	#89 & 52	L4	27	5

WATER AT: 60'-65' FEET: HOLE MADE: 6 3/4

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0'	20'	8" PVC Casing Sand Sandstone	Tan
20'	60'	Sandstone and Shale stringers	Tan & Gray
60'	65'	Watershale & sand	Gray
65'	155'	Shale	Gray & Purple
155'	220'	sandstone	Gray
220'	240'	sandy shale	Gray
240'	270'	sandstone	Gray
270'	290'	shale	Gray
290'	350'	sandstone	Gray
350'	380'	shale	Gray
380'	420'	sandstone	Gray

REMARKS: Logged 410' water standing at 40' in the morning

Kevin Burge — Driller — Tool Dresser

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-901002-008A

Company	Sample No.	Date Sampled
MERIDIAN OIL	CPS 738-W	9-27-90

Field	Legal Description	County or Parish	State
Blanco	L4-17-5	Rio Arriba	NM

Lease or Unit	Well	Depth	Formation	Water, B/D
	27-5 #89	60'		

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
		W. Knight Jr.

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	802	34.85
Calcium, Ca	46	2.3
Magnesium, Mg	4	0.3
Barium, Ba	–	–

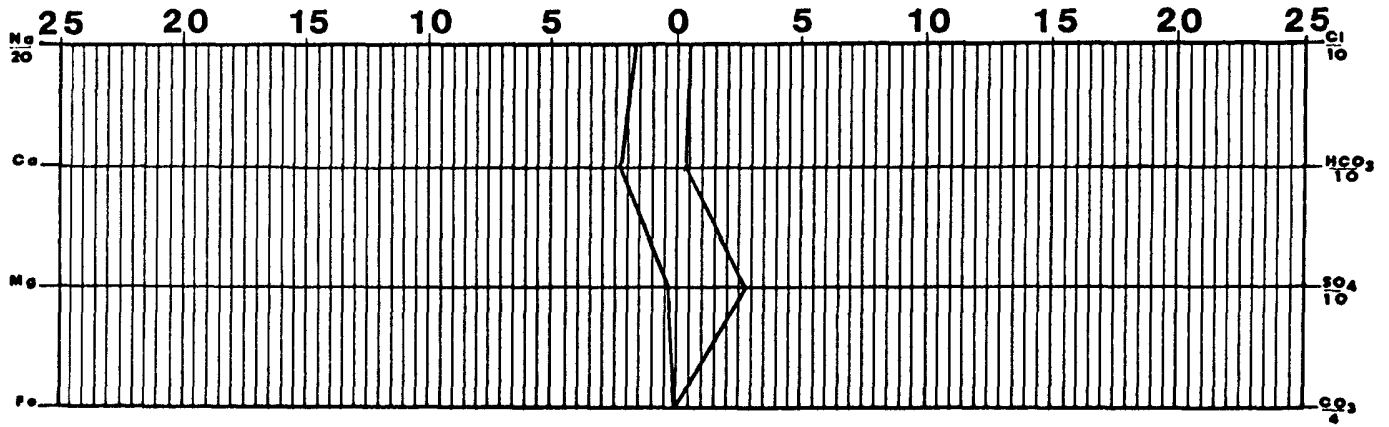
ANIONS		
Chloride, Cl	170	4.8
Sulfate, So_4	1346	28.05
Carbonate, CO_3	–	–
Bicarbonate, HCO_3	281	4.6

OTHER PROPERTIES

pH	7.83
Specific Gravity, 60/60 F.	1.0035
Resistivity (ohm-meters) 71.5 F.	3.85
Total Dissolved Solids (calc.)	2649
Iron, Fe (total)	–
Sulfide, as H_2S	–

REMARKS & RECOMMENDATIONS:

ATTN. M.D. McFarland



Date Received	Preserved	Date Analyzed	Analyzed By

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