

163-30-045-20035

23-30-045-05743

3689

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit 0 Sec. 19 Twp 26 Rng 09

Name of Well/Wells or Pipeline Serviced _____

HUERTANO UNITS #163 AND #23Elevation 6477 Completion Date 3-4-93 Total Depth 327' Land Type FCasing Strings, Sizes, Types & Depths 2/26 SET 98' OF 8" PVC CASING.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 20 SACKS.

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

N/ADepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 100' FreshDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 327'25 SACKS OF LORESCO TYPE SW & 34 SACKS OF ASBURY COKE BREEZEDepths anodes placed: 310, 280, 273, 265, 220, 213, 206, 199, 192, 185, 178, 170, 163, 155, 145Depths vent pipes placed: 327'Vent pipe perforations: Bottom 240'

Remarks: _____

RECEIVED

JAN 31 1994

OIL CON. DIV.]

DIST. 9

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.



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

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

Lab Number: 25930319-03
Client: Meridian Oil
Sample ID: Huerfano #163
Location: Groundbed

920W

Date Sampled: 03-04-93
Date Received: 03-19-93
Date Analyzed: 03-22-93
Date Reported: 03-22-93

DISSOLVED SOLIDS:

	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0.1	3	1.0
Magnesium, Mg++	0.1	2	1.0
Sodium, Na+ (calc)	17.8	409	5.0
Chloride, Cl-	1.5	52	2.0
Sulfate, SO4--	12.6	605	5.0
Bicarbonate, HCO3-	3.0	183	5.0
Carbonate, CO3--	1.0	30	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		1,280	10.0

OTHER PROPERTIES:

pH (units): 9.5
resistivity (ohm-meters): 8.2
specific gravity at 60F: 1.0051
room temperature (F): 73

ND = Not Detected at the stated detection limit

Comments:

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters," 2nd edition.

Steve Lelma
analyst



LABORATORY REPORT
OIL-FIELD WATER ANALYSIS

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

Lab Number: 25970512-03
Client: Herradian Oil
Sample ID: Huertano #103 920 W
Location: Groundbed

Date Sampled: 03-04-93
Date Received: 03-19-93
Date Analyzed: 03-22-93
Date Reported: 03-22-93

DISSOLVED SOLIDS:

	mg/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	0.1	3	1.0
Magnesium, Mg++	0.1	2	1.0
Sodium, Na+ (calc)	17.3	409	5.0
Chloride, Cl-	1.5	52	2.0
Sulfate, SO4--	12.6	605	5.0
Bicarbonate, HCO3--	3.0	183	5.0
Carbonate, CO3--	1.0	30	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		1,280	10.0

OTHER PROPERTIES:

pH (meters): 7.5
Resistivity (ohm-meters): 31.0
Specific Gravity at 60°F: 1.0051
Room Temperature (°F): 73

ND = Not Detected At the stated detection limit

Comments:

Methods: American Petroleum Institute, "Recommended Practice
for Analysis of Oil-Field Waters;" 2nd edition.

analyst