

HIP - 35

GENERAL CORRESPONDENCE

YEAR(S):

1993-1989

MERIDIAN OIL

RECEIVED

August 18, 1993

AUG 19 1993

State of New Mexico
Oil Conversation Division
P.O. Box 2088
Land Office Building
Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIV.
SANTA FE

ATTN: Mr. Roger Anderson
Environmental Engineer

Dear Mr. Anderson:

Meridian Oil Gathering Inc. is planning to hydrostatic test San Juan 32-9 #220 pipeline. The line is presently under construction and will run from Meridian's San Juan 32-9 #220 well pad southward and tie in to Meridian's Johnston Federal #29 Alternate B pipeline. The land is owned by the U.S. Government and managed by the BLM. The landowner is aware of this work and has agreed in principal to this testing plan.

San Juan 32-9 #220 is constructed of 6" steel pipe, 12,239 feet long. The pipe is used and was formerly a temporary line for Meridian's Primo Mudge 100 well tie where it was utilized for coalbed methane gas production.

The line will be tested in one closed loop. The amount of water required is 515 barrels. The test will be conducted at 90% to 95% of the specified minimum yield strength. Duration of the test will be 8 hours.

The water used in the test will be taken from storage tanks at a salt water disposal well. Upon completion of the test, the water will be returned to one of Meridian's salt water disposal wells. A typical water analysis is attached for your information.

If you have any questions, please call me at (505) 326-9843.

Sincerely,

Loren Fothergill
Loren Fothergill
Senior Staff Engineer

Attachments

STRICKCO
Water Analysis Laboratories
FARMINGTON, NEW MEXICO 87401

File WA/0437/91

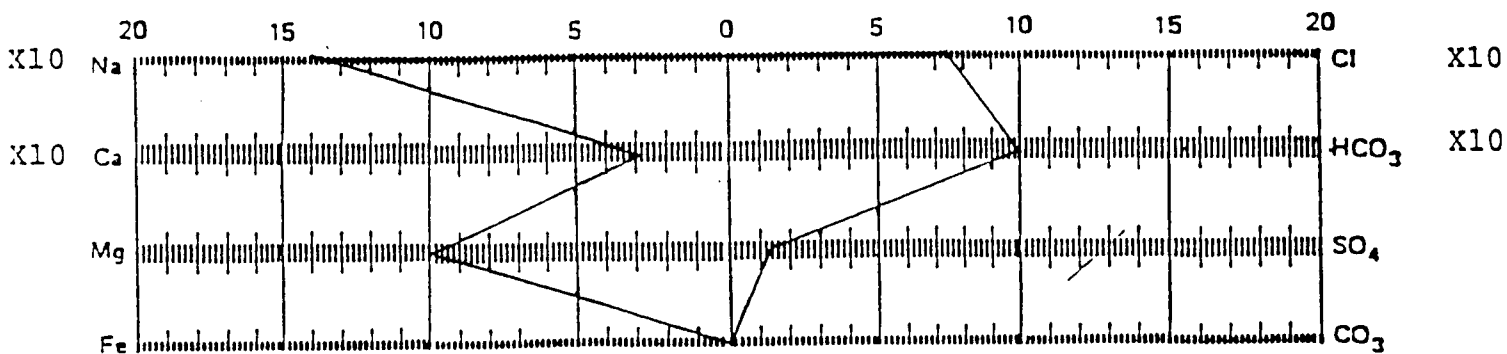
Company MERIDIAN OIL INC. Well Name Nordhaus #711 Sample No. One
 Formation Fruitland Coal Depth N/A Sampled From Produced
 Location SW 01-31N-9W Field Basin Fruitland County San Juan State N.M.
 Date Sampled 4/29/91 Date Analyzed 5/1/91 Engineer WDS

Total Dissolved Solids 12,573 mg/L CalculatedSp. Gr. 1.011 @ 64 °F.Resistivity 0.78 ohm-meters @ 64 °F. MeasuredpH 7.92 @ 64 °F. Measure

Constituents	meq/L	mg/L
Sodium	<u>136.5</u>	<u>3,138</u>
Calcium	<u>27.9</u>	<u>560</u>
Magnesium	<u>10.0</u>	<u>122</u>
Iron	<u>-0-</u>	<u>-0-</u>
Hydrogen Sulfide	<u>Absent</u>	

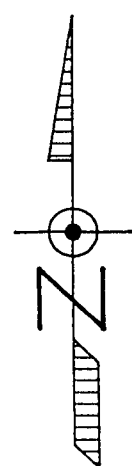
Constituents	meq/L	mg/L
Chloride	<u>73.1</u>	<u>2,591</u>
Bicarbonate	<u>100.0</u>	<u>6,100</u>
Sulfate	<u>1.3</u>	<u>62</u> (Gr)
Carbonate	<u>-0-</u>	<u>-0-</u>
Hydroxide	<u>-0-</u>	<u>-0-</u>

Scale: meq/L



All analyses except iron determination performed on a filtered sample.

A SURVEY FOR MERIDIAN OIL, INC. GAS PIPELINE

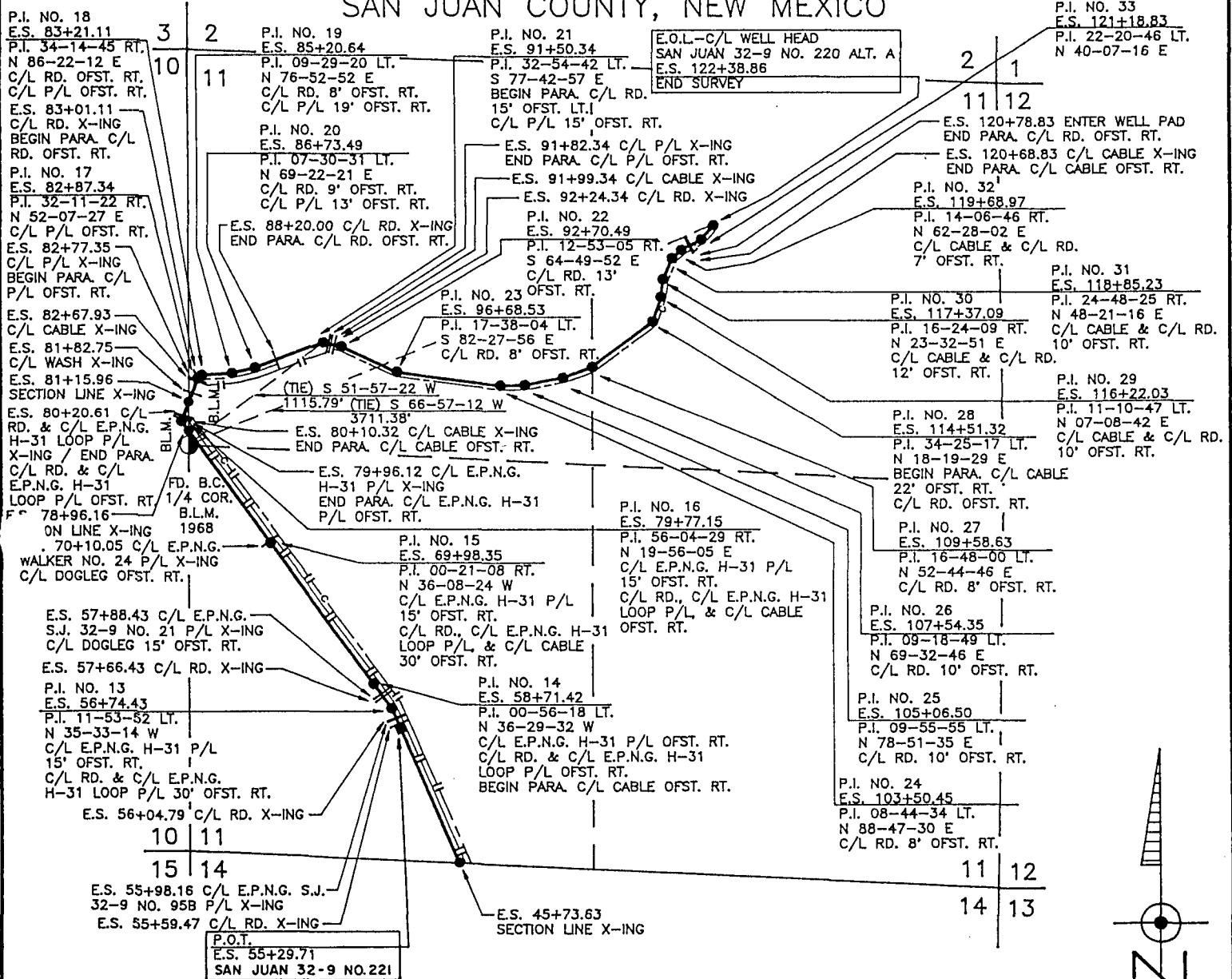


DRAWN BY: L.R.R. R.O.W. # M1349 DWG. REF: M1349D17

A SURVEY FOR
MERIDIAN OIL, INC.
GAS PIPELINE

SAN JUAN 32-9 NO. 220 ALT. A

W/2 & THE NE/4 SEC.11, T.31 N., R.10 W., N.M.P.M.,
NE/4 SEC.10, T.31 N., T.10 W., N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO



„ ROY A. RUSH, A DULY QUALIFIED LAND SURVEYOR LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS FOR LAND SURVEYS IN NEW MEXICO.

MERIDIAN OIL

August 22, 1989

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Land Office Building
Santa Fe, NM 87504-2088

ATTN: Mr. Roger C. Anderson
Environmental Engineer

RECEIVED

AUG 23 1989

OIL CONSERVATION DIV.
SANTA FE

Dear Mr. Anderson:

Meridian Oil, Inc., is planning to hydrostatic test its San Juan 30-6 Unit No. 455 well tie water line in Section 24 of T30N, R7W and; Sections 18 and 19 of T30N, as shown on the attached map. All the property involved is either owned by the U.S. and managed by the BLM or is privately owned. The owners have agreed in principal to this testing plan.

The line consists of a 4" O.D. steel pipe approximately 3/4 of a mile in length. Water used for the testing will be taken from the Meridian Oil Company's wells connected to the pipeline. The water will be injected into the lines behind a pig. About 61 BBLs of water will be required. When the line is full, it will be pressure tested to 90% of specified minimum yield strength for 8 hours. Upon completion of the test, the water will be returned to the well site tankage.

The test water will then be transported to a Meridian Oil water disposal well 112Y in the San Juan 30-6 Unit. A typical water analysis is attached for your use.

If you require further information for this permit, please contact me at (505)326-9843.

Sincerely,

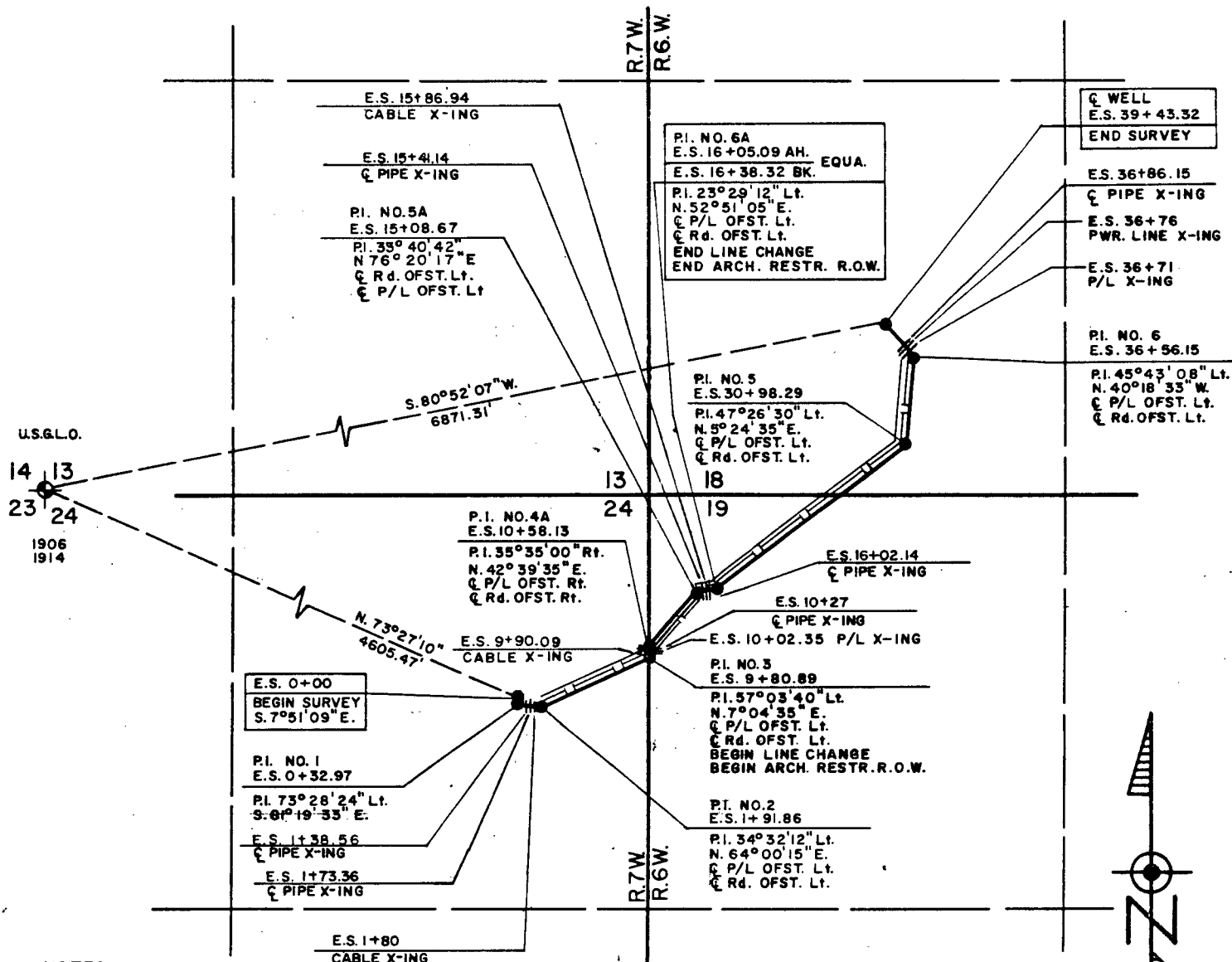
Loren W Fothergill
Loren W. Fothergill
Senior Staff Engineer

GTB/dj

attachments

xc: Ward Arnold
Gerry Brower

A SURVEY FOR
MERIDIAN OIL INC.
H2O PIPELINE TO
SAN JUAN 30-6 # 455
SW/4 SEC.18,NW/4 SEC.19,T.30N.,R.6W.,NE/4 SEC.24,T.30N.
R.7W. N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO



NOTES:

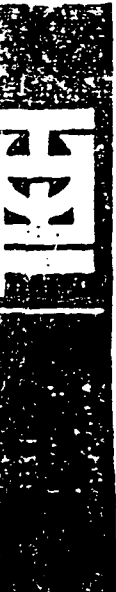
BASIS OF BEARINGS IS THE WEST LINE OF THE
NW/4 SEC. 24, T.30N., R.7W., N.M.P.M.
BEARS: N.00°01' W.

DATE:

I, R. HOWARD DAGGETT, A DULY QUALIFIED LAND SURVEYOR
LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO,
DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS
A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS
FOR LAND SURVEYING IN NEW MEXICO

REVISION REV. BY DATE SCALE: 1" = 1000'

DAGGETT SURVEYING, INC.
1414 SCHOFIELD LANE
FARMINGTON, NEW MEXICO
(505) 326-1772
REGISTERED LAND SURVEYOR
R. HOWARD DAGGETT N.MEX. NO. 9679



TYPICAL WATER ANALYSIS

API WATER ANALYSIS REPORT FORM

3/10/89

Company	MERIDIAN OIL COMPANY	Sample No.		Date Sampled	
Field	Legal Description	County or Parish	State		
Lease or Unit	Well	Depth	Formation	Water, B/D	
San Juan 30-6-44 #39					
Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By			

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	641.2	280.0
Calcium, Ca	72	3.6
Magnesium, Mg	27	2.4
Barium, Ba		

OTHER PROPERTIES

pH	7.46
Specific Gravity, 60/60 F.	1.012
Resistivity (ohm-meters)	27

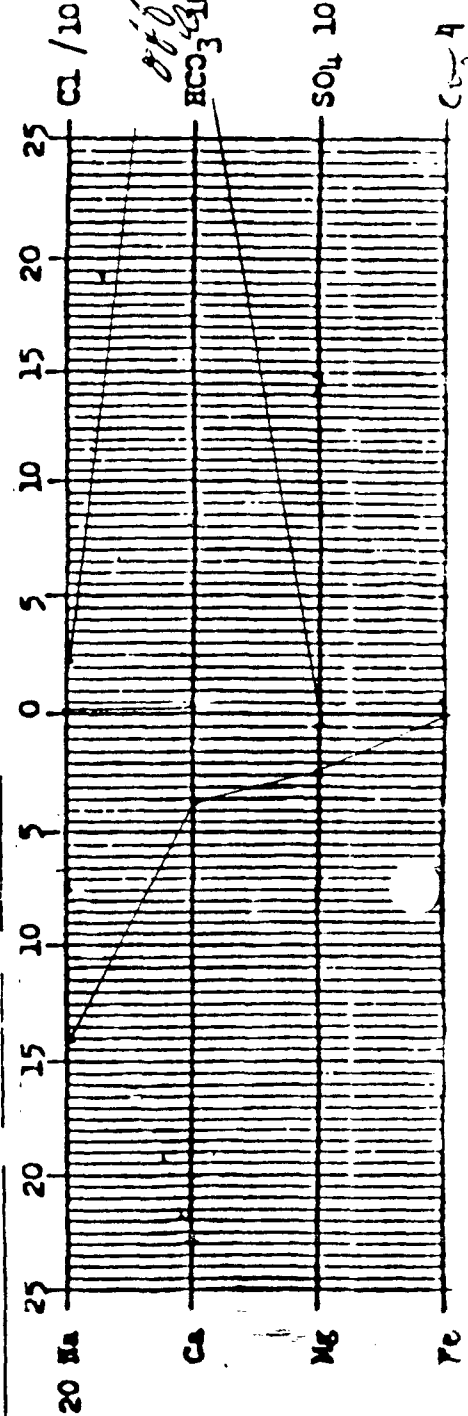
ANIONS

Chloride, Cl	781	22.0
Sulfate, SO ₄		
Carbonate, CO ₃		
Bicarbonate, HCO ₃	1410.4	268.0

Total Dissolved Solids (calc.) 2340

Iron, Fe (total) Sulfide, as H₂S neg

REMARKS & RECOMMENDATIONS:



MERIDIAN OIL

August 22, 1989

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Land Office Building
Santa Fe, NM 87504-2088

ATTN: Mr. Roger C. Anderson
Environmental Engineer

RECEIVED

AUG 23 1989

OIL CONSERVATION DIV.
SANTA FE

Dear Mr. Anderson:

Meridian Oil, Inc., is planning to hydrostatic test its San Juan 30-6 Unit No. 463 well tie water line in Section 13 of T30N, R7W and; Section 18 of T30N, R6W, as shown on the attached map. All the property involved is owned by the U.S. Government and managed by the BLM. The owners have agreed in principal to this testing plan.

The line consists of a 4" O.D. steel pipe approximately one mile in length. Water used for the testing will be taken from the Meridian Oil Company's wells connected to the pipeline. The water will be injected into the lines behind a pig. About 70 BBLs of water will be required. When the line is full, it will be pressure tested to 90% of specified minimum yield strength for 8 hours. Upon completion of the test, the water will be returned to the well site tankage.

The test water will finally be transported to a Meridian Oil water disposal well 112Y in the San Juan 30-6 Unit. A typical water analysis is attached for your use.

If you require further information for this permit, please contact me at (505)326-9843.

Sincerely,

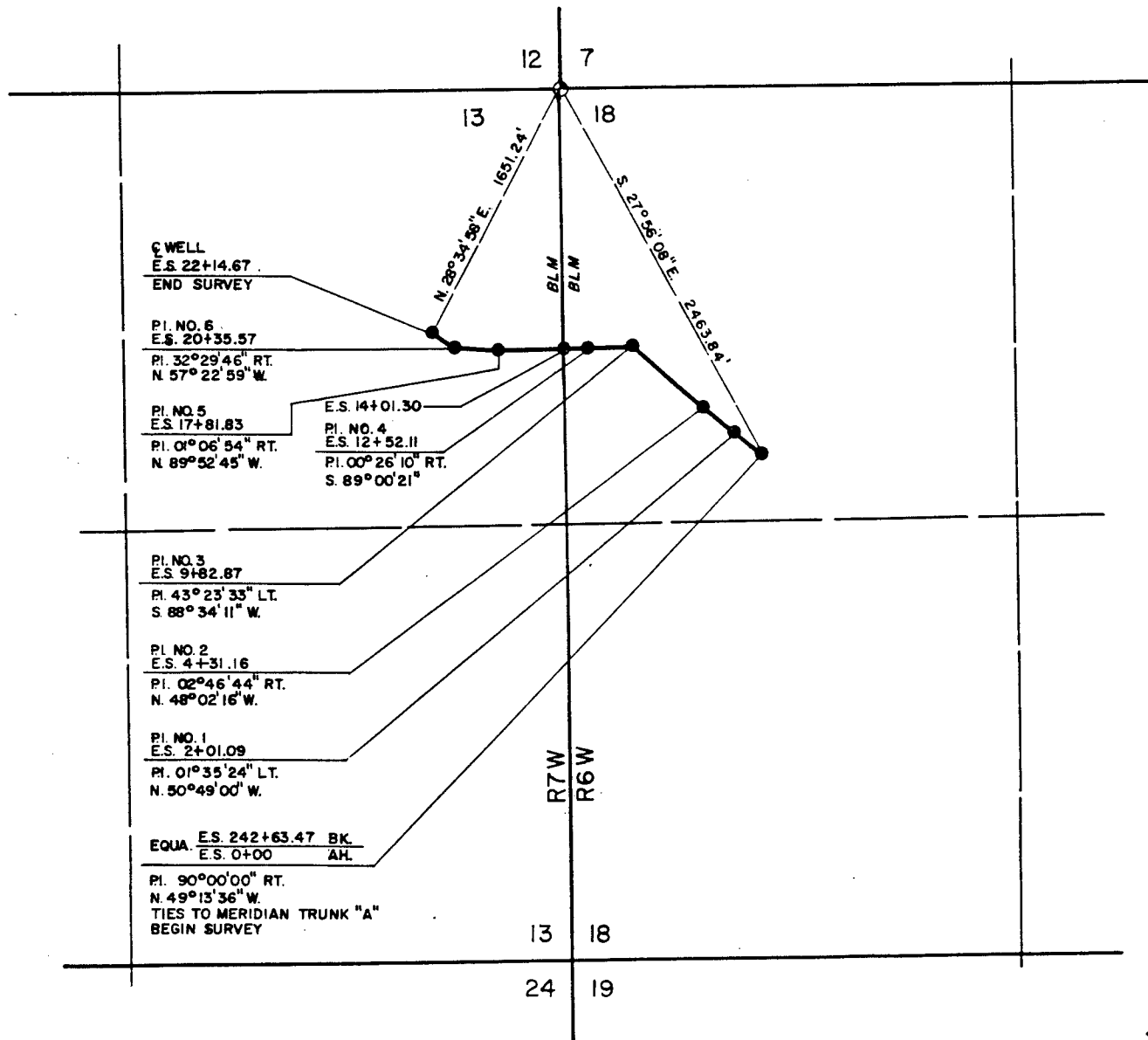
Loren W. Fothergill
Loren W. Fothergill
Senior Staff Engineer

GTB/dj

attachments

xc: Ward Arnold
Gerry Brower

A SURVEY FOR
MERIDIAN OIL CO.
H2O & GAS PIPELINES
SAN JUAN 30-6 UNIT No. 463
NE/4 SEC.13, T30N, R7W,
NW/4 SEC.18, T30N, R6W,
N.M.P.M. RIO ARriba COUNTY, NEW MEXICO



NOTE:

1. BASIS OF BEARING: WEST LINE OF SW/4, SEC. 11, T30N, R6W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO.
BEARS TO 1000' 00"

OWNER	STATION	FT./RODS
BLM	0+00.0 TO 22+14.67	2214.67 / 134.22
SEC. 13	14+01.30 TO 22+14.67	813.37 / 49.30



SCALE: 1" = 1000'

R. Howard Daggett DATE: 5/12/89
I, R. HOWARD DAGGETT A DULY QUALIFIED LAND SURVEYOR
LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO.
DO HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS
A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT THIS SURVEY MEETS THE AMENDED MINIMUM STANDARDS
FOR LAND SURVEYS IN NEW MEXICO.

DAGGETT LAND SURVEYING
FARMINGTON, NEW MEXICO
(505) 326-1772
R. HOWARD DAGGETT
REGISTERED LAND SURVEYOR



TYPICAL WATER ANALYSIS

API WATER ANALYSIS REPORT FORM

3/10/89

Company	MERIDIAN OIL COMPANY	Sample No.		Date Sampled	
Field	Legal Description	County or Parish	State		
Lease or Unit	Well	Depth	Formation	Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point		Sampled By	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	641.2	280.0
Calcium, Ca	72	3.6
Magnesium, Mg	27	2.4
Barium, Ba		

OTHER PROPERTIES

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Specific Gravity, 60/60 F.	1.012
Resistivity (ohm-meters)	1.29

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ANIONS

Chloride, Cl	781	22.0
Sulfate, SO ₄		
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Iron, Fe (total) Sulfide, as H₂S neg

REMARKS & RECOMMENDATIONS:

