

(806) 669-7300

15-025-20615

4-30-25W

(806) 665-5544

● GAS CONSULTANTS, INC.

P.O. BOX 2195

-:-

PAMPA, TEXAS 79065

FRACTIONAL ANALYSIS

COMPONENT	MOL %	GPM	LIQ. VOL. %
-----------	-------	-----	-------------

Nitrogen	9.51	@14.65#	
----------	------	---------	--

Carbon Dioxide	0.22		
----------------	------	--	--

Methane	C1 64.25		
---------	----------	--	--

Ethane	C2 9.79	2.643	
--------	---------	-------	--

Propane	C3 9.16	2.574	
---------	---------	-------	--

I-Butane	I C4 1.70	0.576	
----------	-----------	-------	--

N-Butane	N C4 3.35	1.095	
----------	-----------	-------	--

I-Pentane	I C5 0.71	0.274	
-----------	-----------	-------	--

N-Pentane	N C5 0.87	0.335	
-----------	-----------	-------	--

Hexanes	C6 0.23	0.094	
---------	---------	-------	--

Heptanes +	0.08	0.050	
------------	------	-------	--

Helium	0.13		
--------	------	--	--

Date Sampled 6/10/83 Cyl. No. GC-1

Date of Analysis 6/11/83

Company LADD PETROLEUM CORP.

Plant

Lease GOELLER 1-4

Sample of

Pressure Sample 60#

Temperature

Gas (X) Liquid () Oil ()

Sampled By: GAS CONSULTANTS, INC.

Analysis By: JAH

Distribution Of Results:

3 - LADD PETROLEUM CORP.

P. O. Box 294

Liberal, KS 67901

GASOLINE CONTENT

Pentanes and Heavier	0.753
----------------------	-------

Butanes and Heavier	2.424
---------------------	-------

Propane and Heavier	4.998
---------------------	-------

26# Gasoline	1.073
--------------	-------

Att'n: Mr. Ken Estes

HEATING VALVE

Calorimeter

Calculated 1288

GROSS BTU/CU. FT.
water saturated
14.65 PSIA & 60F
water saturated
14.65 PSIA & 60F

REMARKS:

1311 Dry Gas; 14.65 psia & 60 F

SPECIFIC GRAVITY

Measured Analytical Balance 0.852

Calculated 0.854

VAPOR PRESSURE

Bra Chemicals, Inc.

P. O. BOX 712 - LIBERAL, KS 67901
South of Liberal on Hwy 83 3 Miles

LABORATORY WATER ANALYSIS

To: Ladd Petroleum
Box 294
Liberal, KS. 67901

Well No. Goeller 1-4
Legal Desc.
County Clark State KS.

Date Sampled 7-5-85 (Ran 7-12-85)
Sample Location Wellhead
Sampled by Terry Baker

Formation
Depth
Water B/D

pH 4.5
Carbon Dioxide (CO₂)
Dissolved Oxygen (O₂)
Sulfide as H₂S

Specific Gravity 60/60 1.150
Resistivity (ohm meters)
Saturation Index 70°F
150°F

DISSOLVED SOLIDS

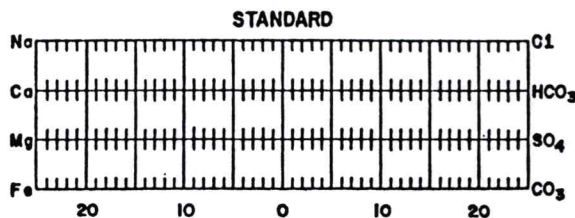
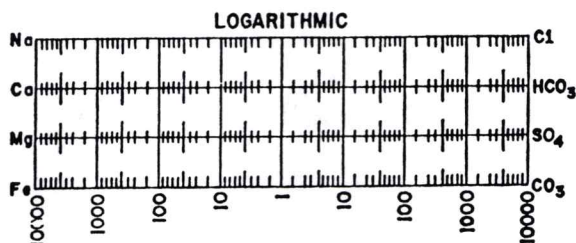
Cations	mg/l	me/l
Calcium, Ca	16,800	840
Magnesium, Mg	3,159	260
Sodium, Na	53,285	2,286
Hardness, total	19,959	
Barium, Ba		

Anions	mg/l	me/l
Carbonate, CO ₃		
Bicarbonate, HCO ₃	130	2.13
Sulfate, SO ₄	150	3.13
Chloride, Cl	134,900	3,800

Total Dissolved Solids, Calc. 208,424
Total Suspended Solids

Iron, Total 123.
Iron, Sol.

WATER PATTERNS me/l



Remarks Iron Oxide was present in the water sample.



Chemist Pat Brewer/tg

PAT BREWER
316-624-3034
SCAT Unit 90

Phone SCAT (316) 624-6258
Office Phone (316) 624-8785

GARY ROGERS
316-624-4427
SCAT Unit 93