

TO: MR. ED JARMAS  
DESTECH ENERGY  
2500 CITY WEST BOULEVARD  
HOUSTON, TEXAS 77042

→ ROBERT CHAMMAN

FROM: DOUG MOSELEY  
ENRON/FLORIDA GAS TRANSMISSION COMPANY  
POST OFFICE BOX #945100  
MAITLAND, FLORIDA 32794-5100

DATE: AUGUST 26, 1994

SUBJECT: FGT QUALITY ANALYSIS REPORTS

Enclosed please find thirty-eight (38) copies of our weekly analysis reports conducted from the chromatograph at the lab in Brooker, Florida. These reports were requested by Mr. James (Jay) Prothro from our Houston office to be sent to you.

I am sending reports dated from December 1, 1993 to present date. You will note that the first nine reports from 12/1/93 to 1/31/94 indicate "stream 2" for the analysis whereas the reports dated from that point on to present date indicate "stream 1". This difference is only an in-house change of our auditing/monitoring system. The analysis was collected from the same point on the gas stream and the data on all the enclosed reports is representative of same site monitoring.

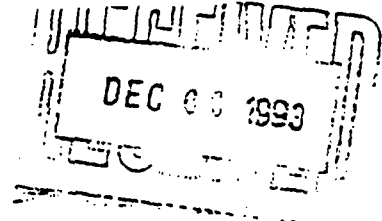
By telephone Jay indicated you would possibly need some information on the analysis/report. If you should have any general or technical questions, please call either Michael Campo at 407-875-5828 or me at 407-875-5832. If we can be of further assistance, please do not hesitate to call.

Copy:

James Prothro  
Mike Teal  
Michael Campo  
Raymond Young

*Doug Moseley*

ANALYSIS



DATE: 12/01/93  
 TIME: 12:44  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 12  
 STREAM#: 2  
 CYCLE START TIME: 12:38

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.075	0.0326	3.84	0.0024
PROPANE	152	0.581	0.1602	14.66	0.0089
I-BUTANE	153	0.119	0.0388	3.86	0.0024
N-BUTANE	154	0.125	0.0395	4.10	0.0025
IPENTANE	155	0.040	0.0147	1.61	0.0010
NPENTANE	156	0.025	0.0089	0.99	0.0006
NITROGEN	157	0.460	0.0504	0.00	0.0044
METHANE	158	94.124	15.9541	952.82	0.5214
CO2	159	0.747	0.1272	0.00	0.0113
ETHANE	160	3.704	0.9909	65.70	0.0385
TOTALS		100.000	17.4173	1047.60	0.5934

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

x @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1050.0  
 REAL RELATIVE DENSITY = 0.5945  
 UNNORMALIZED TOTAL = 100.02

ACTIVE ALARMS

DNE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Comminge  
 STANDARD GAS 1241.9 0.5940  
 CERTIFIED VALUE BTU 1042.0 GRAY. 0.5940  
 TOTAL SULFUR 0.48 GR/CCF H<sub>2</sub>S 0.02 GR/CCF  
 H<sub>2</sub>O 30 #/MCF BY h kade

ANALYSIS

Copy Bar 14/10  
6-

DATE: 12/07/93      ANALYSIS TIME: 345      STREAM SEQUENCE: 12  
 TIME: 12:22      CYCLE TIME: 360      STREAM#: 2  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 12:16

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.106	0.0462	5.44	0.0034
PROPANE	152	0.583	0.1605	14.69	0.0089
I-BUTANE	153	0.129	0.0422	4.20	0.0026
N-BUTANE	154	0.117	0.0368	3.82	0.0023
PENTANE	155	0.052	0.0192	2.10	0.0013
N-PENTANE	156	0.036	0.0129	1.43	0.0009
NITROGEN	157	0.474	0.0520	0.00	0.0046
METHANE	158	94.399	16.0007	955.60	0.5229
CO2	159	0.759	0.1294	0.00	0.0115
ETHANE	160	3.345	0.8947	59.33	0.0347
TOTALS		100.000	17.3946	1046.62	0.5931

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1049.0  
 REAL RELATIVE DENSITY = 0.5942  
 UNNORMALIZED TOTAL = 99.96

ACTIVE ALARMS

DNE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Comm.  
 STANDARD GAS 1041.9 / 0.5940  
 CERTIFIED VALUE BTU 1042.1 GRAV. 0.5940  
 TOTAL SULFUR 0.31 GR/CCF H<sub>2</sub>S 0.02 GR/CCF  
 #0 3-9 =/MMCF BY Don Storer

RECEIVED  
 DEC 10 1993  
 TECH OPERATIONS

ANALYSIS

DATE: 12/14/93      ANALYSIS TIME: 345      STREAM SEQUENCE: 12  
 TIME: 12:13      CYCLE TIME: 360      STREAM#: 2  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 12:07

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.109	0.0475	5.59	0.0035
PROPANE	152	0.552	0.1520	13.91	0.0024
I-BUTANE	153	0.137	0.0449	4.47	0.0028
N-BUTANE	154	0.121	0.0381	3.95	0.0024
IPENTANE	155	0.055	0.0200	2.19	0.0014
NPENTANE	156	0.037	0.0133	1.48	0.0009
NITROGEN	157	0.434	0.0476	0.00	0.0042
METHANE	158	95.029	18.1073	961.37	0.5264
CO2	159	0.780	0.1329	0.00	0.0119
ETHANE	160	2.747	0.7349	48.73	0.0235
TOTALS		100.000	17.3385	1042.30	0.5903

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1044.6  
 REAL RELATIVE DENSITY = 0.5914  
 UNNORMALIZED TOTAL = 99.63

ACTIVE ALARMS

DNE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB - Com

STANDARD GAS 1041.9 / 0.5940

CERTIFIED VALUE STD 1042.1 GRAM 0.5940

TOTAL SULFUR 0.42 GR/MCF WTS 2.0/GR/MCF

WTS 3.6 GR/MCF BY Stotler

ANALYSIS

17/27 Copy Bar

6

DATE: 12/21/93  
 TIME: 12:37  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 12  
 STREAM#: 2  
 CYCLE START TIME: 12:31

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.094	0.0412		
PROPANE	152	0.463	0.1276	4.85	0.0030
-BUTANE	153	0.111	0.0363	11.68	0.0070
-BUTANE	154	0.095	0.0301	3.62	0.0022
PENTANE	155	0.043	0.0158	3.12	0.0019
PENTANE	156	0.029	0.0103	1.74	0.0011
NITROGEN	157	0.418	0.0458	1.15	0.0007
ETHANE	158	95.285	16.1508	0.00	0.0040
CO2	159	0.763	0.1300	964.57	0.5278
METHANE	160	2.698	0.7217	0.00	0.0116
TOTALS		100.000	17.3097	47.86	0.0280
				1038.58	0.5875

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 BTU @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1040.9  
 RELATIVE DENSITY = 0.5885  
 NORMALIZED TOTAL = 100.43

ADDITIONAL ALARMS

E

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Comm.  
 STANDARD GAS 1041.9 / 0.5940  
 CERTIFIED VALUE BTU 1042.1 GRAY. 0.5940  
 TOTAL SULFUR 0.14 GR/CCF H<sub>2</sub>S 0.01 GR/CCF  
 H<sub>2</sub>O 2.6 =/MMCF BY Ra. Seck

RECEIVED  
 DEC 27 1993  
 TECHNICAL SERVICES

1/10

Copy Ben ANALYSIS

DATE: 01/05/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 12  
 TIME: 12:05      CYCLE TIME: 360      STREAM#: 2  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 11:59

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN
HEXANE +	151	0.121	0.0529	6.23	0.003
PROPANE	152	0.651	0.1794	16.42	0.009
I-BUTANE	153	0.162	0.0531	5.29	0.003
N-BUTANE	154	0.137	0.0431	4.47	0.002
IPENTANE	155	0.060	0.0221	2.42	0.001
NPENTANE	156	0.038	0.0139	1.54	0.001
NITROGEN	157	0.417	0.0457	0.00	0.004
METHANE	158	94.908	16.0869	960.75	0.525
CO2	159	0.753	0.1283	0.00	0.011
ETHANE	160	2.753	0.7363	48.82	0.025
TOTALS		100.000	17.3616	1045.95	0.592

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1048.3  
 REAL RELATIVE DENSITY = 0.5931  
 UNNORMALIZED TOTAL = 100.08

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- com  
 STANDARD GAS 1041.9/0.5940  
 CERTIFIED VALUE BTU 1042.1 GRAY. 0.5940  
 TOTAL SULFUR 0.30 GR/CCF H<sup>2</sup>S 0.0 GR/CCF  
 H<sup>2</sup>O 4.1 #/MMCF BY Bill Stinson

RECEIVED  
 JAN 10 1995  
 TECHNICAL OPERATIONS

ANALYSIS

1/17 Copy Dev

DATE: 01/11/94  
 TIME: 11:50  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 12  
 STREAM#: 2  
 CYCLE START TIME: 11:44

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.105	0.0457	5.39	0.0034
PROPANE	152	0.570	0.1571	14.38	0.0087
I-BUTANE	153	0.133	0.0436	4.34	0.0027
N-BUTANE	154	0.115	0.0363	3.77	0.0023
IPENTANE	155	0.051	0.0186	2.04	0.0013
NPENTANE	156	0.033	0.0118	1.31	0.0008
NITROGEN	157	0.415	0.0454	0.00	0.0040
METHANE	158	94.938	16.0919	961.05	0.5259
CO2	159	0.760	0.1295	0.00	0.0118
ETHANE	160	2.881	0.7706	51.10	0.0291
TOTALS		100.000	17.3506	1043.37	0.5904

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1045.7  
 REAL RELATIVE DENSITY = 0.5915  
 UNNORMALIZED TOTAL = 99.79

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Committee  
 STANDARD GAS 1041.9 / 0.5990  
 CERTIFIED VALUE BTU 1042.0 GRAY. 0.5940  
 TOTAL SULFUR 0.15 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 2.4 =/MMCF BY Lon Stoker

JAN 17 1993  
 TECH OPERATIONS

ANALYSIS <sup>1/21</sup> Copy Bar

DATE: 01/18/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 12  
 TIME: 11:45 CYCLE TIME: 360 STREAM#: 2  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 11:39

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.099	0.0431	5.08	0.0032
PROPANE	152	0.612	0.1686	15.44	0.0093
I-BUTANE	153	0.140	0.0457	4.56	0.0028
N-BUTANE	154	0.126	0.0397	4.12	0.0025
IPENTANE	155	0.052	0.0190	2.09	0.0013
NPENTANE	156	0.033	0.0118	1.31	0.0008
NITROGEN	157	0.443	0.0485	0.00	0.0043
METHANE	158	94.900	16.0856	960.68	0.5257
CO2	159	0.732	0.1247	0.00	0.0111
ETHANE	160	2.864	0.7660	50.79	0.0297
TOTALS		100.000	17.3529	1044.06	0.5907

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F. CORRECTED FOR (1/Z) = 1046.4  
 REAL RELATIVE DENSITY = 0.5918  
 UNNORMALIZED TOTAL = 100.37

CTIVE ALARMS

DNE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- COM.  
 STANDARD GAS 1041.9 / 0.5940  
 CERTIFIED VALUE BTU 1042.1 GRAY. 0.5940  
 TOTAL SULFUR 0.28 GR/CCF H<sub>2</sub>S 0.04 GR/CCF  
 H<sub>2</sub>O 3.3 =/MMCF BY R.D. [Signature]

RECEIVED  
 JAN 21 1994  
 TELCO OPERATIONS



ANALYSIS <sup>1/31</sup> C. *Bas*

DATE: 01/26/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 12  
 TIME: 10:59 CYCLE TIME: 360 STREAM#: 2  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 10:53.

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.102	0.0447	5.27	0.0033
PROPANE	152	0.698	0.1923	17.60	0.0106
I-BUTANE	153	0.157	0.0513	5.11	0.0031
N-BUTANE	154	0.144	0.0453	4.70	0.0029
IPENTANE	155	0.054	0.0199	2.18	0.0014
NPENTANE	156	0.034	0.0125	1.39	0.0009
NITROGEN	157	0.479	0.0525	0.00	0.0046
METHANE	158	94.513	16.0200	956.76	0.5235
CO2	159	0.762	0.1298	0.00	0.0116
ETHANE	160	3.056	0.8176	54.21	0.0317
TOTALS		100.000	17.3858	1047.20	0.5936

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1049.6  
 REAL RELATIVE DENSITY = 0.5947  
 UNNORMALIZED TOTAL = 99.99

ACTIVE ALARMS

DNE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- com  
 STANDARD GAS 1041.9/0.5940  
 CERTIFIED VALUE BTU 1042.1 GRV. 0.5940  
 TOTAL SULFUR 0.22 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 H<sup>2</sup>O 3.4 #/MMCF BY Bill Hunter

RECEIVED  
 JAN 31 1994  
 TECH OPERATIONS

ANALYSIS

DATE: 01/31/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 12  
 TIME: 12:44 CYCLE TIME: 360 STREAM#: 2  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 12:38.

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.108	0.0473	5.58	0.0035
PROPANE	152	0.642	0.1769	16.19	0.0098
I-BUTANE	153	0.151	0.0494	4.93	0.0030
N-BUTANE	154	0.139	0.0440	4.56	0.0028
IPENTANE	155	0.054	0.0199	2.18	0.0014
NPENTANE	156	0.034	0.0123	1.36	0.0008
NITROGEN	157	0.487	0.0534	0.00	0.0047
METHANE	158	94.653	16.0437	958.17	0.5243
CO2	159	0.729	0.1242	0.00	0.0111
ETHANE	160	3.002	0.8031	53.25	0.0312
TOTALS		100.000	17.3740	1046.21	0.5925

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1048.6  
 REAL RELATIVE DENSITY = 0.5936  
 UNNORMALIZED TOTAL = 100.08

ACTIVE ALARMS

ONE

FLORIDA GAS TRANSMISSION CO.  
 BROCKER LAB- COM.  
 STANDARD GAS 1041.9/0.5940  
 CERTIFIED VALUE BTU 1042.1 GRAY 0.5940  
 TOTAL SULFUR 0.18 GR/CCF H<sup>2</sup>S 0.02 GR/CCF  
 H<sup>2</sup>O 2.5 =/MMCF BY Bill Thomas

ANALYSIS

DATE: 02/09/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 10:18      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 10:12

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.091	0.0398	4.69	0.0029
PROPANE	152	0.386	0.1063	9.73	0.0059
I-BUTANE	153	0.102	0.0335	3.33	0.0021
N-BUTANE	154	0.085	0.0268	2.78	0.0017
IPENTANE	155	0.042	0.0155	1.70	0.0011
NPENTANE	156	0.028	0.0100	1.11	0.0007
NITROGEN	157	0.408	0.0447	0.00	0.0039
METHANE	158	95.766	16.2323	969.44	0.5304
CO2	159	0.760	0.1295	0.00	0.0119
ETHANE	160	2.332	0.6238	41.37	0.0242
TOTALS		100.000	17.2622	1034.15	0.5845

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1036.4  
 REAL RELATIVE DENSITY = 0.5855  
 UNNORMALIZED TOTAL = 99.97

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.9/0.5940

CERTIFIED VALUE: STU 1042.1 GRAY. 0.5941

TOTAL SULFUR 0.04 GR/CCF H<sub>2</sub>S 0.02 GR/CCF

H<sub>2</sub>O 3.5 =/MMCF BY Bill Steno

MAR 13 1994  
 DEPT OF TRANSPORTATION

3/18 Copy Bk

ANALYSIS

DATE: 03/15/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 14:50 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 14:44

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.117	0.0508	5.99	0.0037
PROPANE	152	0.502	0.1658	15.18	0.0092
I-BUTANE	153	0.155	0.0507	5.05	0.0033
N-BUTANE	154	0.134	0.0424	4.39	0.0027
IPENTANE	155	0.057	0.0207	2.27	0.0014
NPENTANE	156	0.035	0.0128	1.42	0.0009
NITROGEN	157	0.410	0.0450	0.00	0.0040
METHANE	158	94.638	16.0411	958.02	0.5240
CO2	159	0.833	0.1419	0.00	0.0127
ETHANE	160	3.020	0.8078	53.56	0.0314
TOTALS		100.000	17.3790	1045.88	0.5932

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1048.2  
 REAL RELATIVE DENSITY = 0.5943  
 UNNORMALIZED TOTAL = 99.77  
 ANALOG INPUT CHANNEL 1 = H2S 140 = 8.2395 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 3.2958

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8/0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAV. 0.5938  
 TOTAL SULFUR 0.05 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 3.0 #/MMCF BY Bill Stinson

CONFIDENTIAL  
 MAR 20 1994  
 PLANT OPERATIONS

3/28 C. Dow

ANALYSIS

LC

DATE: 03/23/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 12:05 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 11:59

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DENS
HEXANE +	151	0.130	0.0568	6.70	0.0042
PROPANE	152	0.584	0.1609	14.73	0.0089
I-BUTANE	153	0.157	0.0513	5.11	0.0031
N-BUTANE	154	0.128	0.0405	4.20	0.0026
IPENTANE	155	0.059	0.0217	2.38	0.0015
NPENTANE	156	0.039	0.0142	1.58	0.0010
NITROGEN	157	0.447	0.0490	0.00	0.0043
METHANE	158	94.924	16.0897	960.92	0.5258
CO2	159	0.837	0.1426	0.00	0.0127
ETHANE	160	2.694	0.7206	47.78	0.0280
TOTALS		100.000	17.3473	1043.39	0.5921

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1045.7  
 REAL RELATIVE DENSITY = 0.5931  
 UNNORMALIZED TOTAL = 100.14  
 ANALOG INPUT CHANNEL 1 = H2S 140 = .26476  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.2296

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- CAL GAS  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAV. 0.5939  
 TOTAL SULFUR 0.08 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 3.9 #/MMCF BY Bill Stinson

ANALYSIS

DATE: 03/29/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 12:07      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 12:01

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DENS
HEXANE +	151	0.122	0.0533	6.28	0.0037
PROPANE	152	0.607	0.1671	15.30	0.0092
I-BUTANE	153	0.158	0.0518	5.16	0.0032
N-BUTANE	154	0.137	0.0432	4.48	0.0028
IPENTANE	155	0.059	0.0217	2.38	0.0013
NPENTANE	156	0.037	0.0133	1.47	0.0009
NITROGEN	157	0.350	0.0384	0.00	0.0034
METHANE	158	94.965	15.0966	961.33	0.5261
CO2	159	0.786	0.1339	0.00	0.0119
ETHANE	160	2.778	0.7431	49.28	0.0288
TOTALS		100.000	17.3626	1045.69	0.5917

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1048.0  
 REAL RELATIVE DENSITY = 0.5928  
 UNNORMALIZED TOTAL = 100.35  
 ANALOG INPUT CHANNEL 1 = H<sub>2</sub>S 140 = .15600  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.5592

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.8 GRAY. 0.5938

TOTAL SULFUR 0.05 GR/CCF H<sub>2</sub>S 0.02 GR/CCF

H<sub>2</sub>O 4.0 =/MMCF BY Bill Stines

APR 11 1994

4/11 C. Bar

ANALYSIS

DATE: 04/06/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 10:47      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 10:40

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN.
HEXANE +	151	0.123	0.0537	6.33	0.0040
PROPANE	152	0.564	0.1553	14.22	0.0080
I-BUTANE	153	0.152	0.0498	4.97	0.0030
N-BUTANE	154	0.127	0.0400	4.15	0.0025
IPENTANE	155	0.058	0.0212	2.33	0.0014
NPENTANE	156	0.036	0.0132	1.46	0.0009
NITROGEN	157	0.401	0.0439	0.00	0.0030
METHANE	158	95.074	16.1151	962.44	0.5260
CO2	159	0.769	0.1310	0.00	0.0110
ETHANE	160	2.696	0.7211	47.81	0.0280
TOTALS		100.000	17.3444	1043.70	0.5907

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1046.0  
 REAL RELATIVE DENSITY = 0.5917  
 UNNORMALIZED TOTAL = 100.12  
 ANALOG INPUT CHANNEL 1 = H 2 S      140      = .17275  
 ANALOG INPUT CHANNEL 2 = WATER      144      = 4.6690

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Main Line  
 STANDARD GAS 1041.9 / 0.5937  
 CERTIFIED VALUE BTU 1041.9 GRAV. 0.5937  
 TOTAL SULFUR 0.05 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 H<sup>2</sup>O 4.0 =/MMCF BY Car Baker

4/15 C. Zou

ANALYSIS

RECEIVED  
APR 15 1994  
LABORATORY

DATE: 04/12/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
TIME: 10:52 CYCLE TIME: 360 STREAM#: 1  
ANALYZER#: 1 MODE: RUN CYCLE START TIME: 10:46

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.079	0.0345	4.06	0.0025
PROPANE	152	0.463	0.1276	11.68	0.0071
I-BUTANE	153	0.110	0.0361	3.60	0.0022
N-BUTANE	154	0.101	0.0320	3.32	0.0020
IPENTANE	155	0.040	0.0146	1.60	0.0010
NPENTANE	156	0.026	0.0093	1.03	0.0008
NITROGEN	157	0.401	0.0439	0.00	0.0039
METHANE	158	95.232	16.1418	964.03	0.5275
CO2	159	0.714	0.1216	0.00	0.0108
ETHANE	160	2.834	0.7582	50.27	0.0294
TOTALS		100.000	17.3196	1039.60	0.5871

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1041.9  
 REAL RELATIVE DENSITY = 0.5882  
 UNNORMALIZED TOTAL = 100.50  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = .13925  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.1197

ACTIVE ALARMS

ONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Main line  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAV. 0.5938  
 TOTAL SULFUR 0.05 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 H<sup>2</sup>O 4.0 =/MMCF BY Ron Stoller



ANALYSIS

DATE: 04/19/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 12:02      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 11:56

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN:
HEXANE +	151	0.070	0.0306	3.61	0.0021
PROPANE	152	0.479	0.1319	12.07	0.0071
I-BUTANE	153	0.113	0.0368	3.67	0.0021
N-BUTANE	154	0.105	0.0331	3.43	0.0021
IPENTANE	155	0.037	0.0136	1.49	0.0009
NPENTANE	156	0.023	0.0084	0.93	0.0006
NITROGEN	157	0.338	0.0371	0.00	0.0031
METHANE	158	95.384	16.1675	965.57	0.5281
CO2	159	0.747	0.1272	0.00	0.0113
ETHANE	160	2.705	0.7236	47.98	0.0281
TOTALS		100.000	17.3097	1038.74	0.5864

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1041.0  
 REAL RELATIVE DENSITY = 0.5875  
 UNNORMALIZED TOTAL = 100.14  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = .30788  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 3.7352

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAV. 0.5938  
 TOTAL SULFUR 0.10 GR/CCF H<sup>2</sup>SO. 0.02 GR/CCF  
 H<sup>2</sup>O 3.5 = /MMCF BY Bill Anderson

APR 22 1994

ANALYSIS

3/14 Copy Bar  
bc

DATE: 03/08/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 13:16      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 13:10

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN:
HEXANE +	151	0.111	0.0484	5.71	0.0038
PROPANE	152	0.582	0.1602	14.67	0.0089
I-BUTANE	153	0.149	0.0488	4.86	0.0030
N-BUTANE	154	0.127	0.0401	4.16	0.0028
IPENTANE	155	0.055	0.0201	2.20	0.0014
NPENTANE	156	0.035	0.0127	1.41	0.0009
NITROGEN	157	0.408	0.0447	0.00	0.0039
METHANE	158	94.780	16.0653	959.46	0.5250
CO2	159	0.796	0.1356	0.00	0.0122
ETHANE	160	2.957	0.7910	52.45	0.0307
TOTALS		100.000	17.3669	1044.92	0.5919

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0023  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1047.3  
 REAL RELATIVE DENSITY = 0.5930  
 UNNORMALIZED TOTAL = 100.04  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 4.5317 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 3.9550

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1042.0 GRV. 0.5938  
 TOTAL SULFUR 0.05 GR/CCF H<sup>2</sup>S 0.02 GR/CCF  
 H<sup>2</sup>O 3.1 #/MMCF BY Bill Stinson

3/4 C. Bev

ANALYSIS

DATE: 03/02/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
TIME: 14:02 CYCLE TIME: 360 STREAM#: 1  
ANALYZER#: 1 MODE: RUN CYCLE START TIME: 13:56

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.078	0.0341	4.02	0.0025
PROPANE	152	0.470	0.1294	11.84	0.0072
I-BUTANE	153	0.111	0.0364	3.62	0.0022
N-BUTANE	154	0.100	0.0316	3.28	0.0020
IPENTANE	155	0.042	0.0154	1.68	0.0010
NPENTANE	156	0.027	0.0097	1.07	0.0007
NITROGEN	157	0.433	0.0475	0.00	0.0042
METHANE	158	94.946	16.0933	961.14	0.5259
CO2	159	0.724	0.1234	0.00	0.0110
ETHANE	160	3.069	0.8208	54.43	0.0319
TOTALS		100.000	17.3416	1041.09	0.5886

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1043.4  
 REAL RELATIVE DENSITY = 0.5896  
 UNNORMALIZED TOTAL = 99.89  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 5.9599 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 2.8014

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.9/0.5940  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5940  
 TOTAL SULFUR 0.07 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 2.5 =/MMCF BY Bill Stovass

FEB 18 1994

FLORIDA GAS TRANSMISSION CO.

4/29 Copy 30w

62

ANALYSIS  
*[Handwritten signature]*

DATE: 00/02/00  
TIME: 17:11  
ANALYZER#: 1

ANALYSIS TIME: 345  
CYCLE TIME: 360  
MODE: RUN

STREAM SEQUENCE: 1  
STREAM#: 1  
CYCLE START TIME: 17:04

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.093	0.0405	4.77	0.0030
PROPANE	152	0.400	0.1101	10.08	0.0061
I-BUTANE	153	0.106	0.0347	3.46	0.0021
N-BUTANE	154	0.092	0.0289	2.99	0.0018
IPENTANE	155	0.043	0.0159	1.74	0.0011
NPENTANE	156	0.028	0.0101	1.12	0.0007
NITROGEN	157	0.489	0.0536	0.00	0.0047
METHANE	158	95.187	16.1342	963.58	0.5272
CO2	159	0.774	0.1519	0.00	0.0118
ETHANE	160	2.789	0.7460	49.46	0.0290
TOTALS		100.000	17.3058	1037.20	0.5875

\* @ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1039.5  
 REAL RELATIVE DENSITY = 0.5886  
 UNNORMALIZED TOTAL = 99.92

ACTIVE ALARMS

NONE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.9 / 0.5940

CERTIFIED VALUE BTU 1042.1 GRAV. 0.5941

TOTAL SULFUR 0.07 GR/CCF H<sub>2</sub>S 0.04 GR/CCF

H<sub>2</sub>O 3.0 \* /MMCF BY Bill Horne

RECEIVED

FEB 21 1994

TECH OPERATIONS

*Hi Copy Box* *bc*

ANALYSIS

DATE: 02/15/94  
TIME: 11:16  
ANALYZER#: 1

ANALYSIS TIME: 345  
CYCLE TIME: 360  
MODE: RUN

STREAM SEQUENCE: 1  
STREAM#: 1  
CYCLE START TIME: 11:10

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.082	0.0358	4.21	0.0026
PROPANE	152	0.409	0.1128	10.32	0.0062
I-BUTANE	153	0.106	0.0347	3.45	0.0021
N-BUTANE	154	0.090	0.0285	2.95	0.0018
IPENTANE	155	0.040	0.0146	1.60	0.0010
NPENTANE	156	0.025	0.0090	1.00	0.0006
NITROGEN	157	0.523	0.0574	0.00	0.0051
METHANE	158	95.199	16.1361	963.69	0.5273
CO2	159	0.715	0.1218	0.00	0.0109
ETHANE	160	2.811	0.7519	49.86	0.0292
TOTALS		100.000	17.3025	1037.09	0.5868

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1039.4  
 REAL RELATIVE DENSITY = 0.5679  
 UNNORMALIZED TOTAL = 99.95

ACTIVE ALARMS

ONE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAIN LINE

STANDARD GAS 1041.9/0.5940

CERTIFIED VALUE BTU 1042.1 GRAV. 0.5940

TOTAL SULFUR 0.09 GR/CCF H<sub>2</sub>S 0.04 GR/CCF

H<sub>2</sub>O 3.0 =/MMCF BY Bill Stinson

ANALYSIS

5/24 C. Zou

DATE: 05/24/94  
 TIME: 11:09  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 11:01

COMP NAME	COMP CODE	HOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.082	0.0358	4.22	0.0026
PROPANE	152	0.400	0.1102	10.09	0.0061
-BUTANE	153	0.094	0.0306	3.05	0.0019
-BUTANE	154	0.080	0.0254	2.63	0.0016
PENTANE	155	0.037	0.0136	1.49	0.0009
PENTANE	156	0.024	0.0086	0.95	0.0006
NITROGEN	157	0.472	0.0517	0.00	0.0046
ETHANE	158	95.375	16.1661	965.48	0.5283
CO2	159	0.770	0.1312	0.00	0.0117
METHANE	160	2.666	0.7132	47.29	0.0277
TOTALS		100.000	17.2863	1035.20	0.5860

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1037.5  
 RELATIVE DENSITY = 0.5870  
 NORMALIZED TOTAL = 99.97  
 LOG INPUT CHANNEL 1 = H2S 140 = 2.8014 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 3.5704

ALARMS

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.8 GRAV. 0.5938

TOTAL SULFUR 0.08 GR/CCF H<sub>2</sub>S 0.04 GR/CCF

H<sub>2</sub>O 3.4 =/MMCF BY Bill Stinson

TOTAL SULFUR DOWNSTREAM 0.18 GR/CCF

ANALYSIS

DATE: 05/17/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 11:19 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 11:13

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.090	0.0393	4.63	0.0029
PROPANE	152	0.385	0.1062	9.72	0.0059
I-BUTANE	153	0.088	0.0289	2.88	0.0018
N-BUTANE	154	0.079	0.0250	2.59	0.0016
IPENTANE	155	0.038	0.0138	1.51	0.0009
NPENTANE	156	0.024	0.0087	0.96	0.0006
NITROGEN	157	0.357	0.0391	0.00	0.0035
METHANE	158	95.623	16.2082	968.00	0.5297
CO2	159	0.722	0.1231	0.00	0.0110
ETHANE	160	2.593	0.6935	45.99	0.0269
TOTALS		100.000	17.2857	1036.28	0.5847

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1038.6  
 REAL RELATIVE DENSITY = 0.5857  
 UNNORMALIZED TOTAL = 99.97  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = .10684  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.6690

ACTIVE ALARMS

LINE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS: 1041.8/0.5939

CERTIFIED VALUE BTU 1041.9 GRV. 0.5938

TOTAL SULFUR 0.14 GR/CCF H<sup>2</sup>S 0.02 GR/CCF

H<sup>2</sup>O 4.5 #/MMCF BY Bill Stinson

ANALYSIS

*Q 4 J*

DATE: 05/11/94  
 TIME: 13:04  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 12:58

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.078	0.0342	4.03	0.0025
PROPANE	152	0.423	0.1165	10.86	0.0064
I-BUTANE	153	0.097	0.0318	3.17	0.0020
N-BUTANE	154	0.094	0.0297	3.08	0.0019
IPENTANE	155	0.042	0.0153	1.67	0.0010
NPENTANE	156	0.028	0.0102	1.13	0.0007
NITROGEN	157	0.335	0.0367	0.00	0.0032
METHANE	158	95.298	16.1530	964.70	0.5279
CO2	159	0.715	0.1219	0.00	0.0109
ETHANE	160	2.889	0.7729	51.25	0.0300
TOTALS		100.000	17.3222	1039.70	0.5865

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

\* @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1042.0  
 REAL RELATIVE DENSITY = 0.5876  
 UNNORMALIZED TOTAL = 100.04  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 6.2620 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.3944

ACTIVE ALARMS

ONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8/0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939  
 TOTAL SULFUR 0.05 GR/CCF H<sup>2</sup>S 0.23 GR/CCF  
 H<sup>2</sup>O 4.1 #/MMCF BY Bill Henderson

RECEIVED  
 MAY 15 1994  
 BROOKER LAB



REF. MAY 12 1994  
 FIELD OPERATIONS

ANALYSIS *1/1 Copy Box*

TE: 05/03/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 ME: 11:07 CYCLE TIME: 360 STREAM#: 1  
 ALYZER#: 1 MODE: RUN CYCLE START TIME: 11:01

MP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
XANE +	151	0.087	0.0381	4.49	0.0028
OPANE	152	0.437	0.1204	11.02	0.0067
BUTANE	153	0.101	0.0331	3.30	0.0020
BUTANE	154	0.092	0.0291	3.02	0.0019
ENTANE	155	0.040	0.0147	1.61	0.0010
ENTANE	156	0.025	0.0091	1.01	0.0006
TROGEN	157	0.385	0.0421	0.00	0.0037
THANE	158	85.242	16.1435	964.13	0.5275
2	158	0.742	0.1265	0.00	0.0113
HANE	180	2.848	0.7619	50.52	0.0296
TALS		100.000	17.3185	1038.10	0.5871

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

MPRESSIBILITY FACTOR (1/Z) = 1.0022  
 Y B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1041.4  
 AL RELATIVE DENSITY = 0.5881  
 NORMALIZED TOTAL = 100.00  
 ALOG INPUT CHANNEL 1 = H 2 S 140 = .15023  
 ALOG INPUT CHANNEL 2 = WATER 144 = 3.7902

DIVE ALARMS

E

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Main Line  
 STANDARD GAS 1041.7 / 0.5939  
 CERTIFIED VALUE BTU 1041.7 GRAV. 0.5939  
 TOTAL SULFUR 0.03 GR/CCF H<sup>2</sup>S 0.02 GR/CCF  
 H<sup>2</sup>O 3.6 #/MMCF BY Ron S. [Signature]

0046

ANALYSIS

S/3

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DATE: 04/26/94      ANALYSIS TIME: 345      STREAM SEQUENCE: 1  
 TIME: 10:44      CYCLE TIME: 360      STREAM#: 1  
 ANALYZER#: 1      MODE: RUN      CYCLE START TIME: 10:37

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.096	0.0419	4.93	0.0031
PROPANE	152	0.402	0.1107	10.13	0.0061
I-BUTANE	153	0.099	0.0323	3.22	0.0020
N-BUTANE	154	0.089	0.0281	2.91	0.0018
IPENTANE	155	0.040	0.0147	1.61	0.0010
NPENTANE	156	0.026	0.0095	1.05	0.0007
NITROGEN	157	0.345	0.0379	0.00	0.0033
METHANE	158	95.469	16.1820	966.44	0.5288
CO2	159	0.883	0.1504	0.00	0.0134
ETHANE	160	2.551	0.6823	45.24	0.0265
TOTALS		100.000	17.2897	1035.53	0.5867

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 DRY B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1037.8  
 REAL RELATIVE DENSITY = 0.5877  
 UNNORMALIZED TOTAL = 99.98  
 ANALOG INPUT CHANNEL 1 = H2S      140      = 4.5592 E-02  
 ANALOG INPUT CHANNEL 2 = WATER      144      = 3.7352

ACTIVE ALARMS

LINE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Main Line  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939  
 TOTAL SULFUR 0.7 GR/CCF H<sub>2</sub>S 0.04 GR/CCF  
 H<sub>2</sub>S 3.6 = /MMCF BY Tom Little

ANALYSIS

DATE: 08/17/94  
 TIME: 11:47  
 ANALYZER#: 1  
 ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN  
 STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 11:41

NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ETHANE	151	0.086	0.0376	4.43	0.0028
PROPANE	152	0.319	0.0880	8.05	0.0049
BUTANE	153	0.083	0.0272	2.71	0.0017
PENTANE	154	0.074	0.0232	2.40	0.0015
HEXANE	155	0.037	0.0135	1.48	0.0009
HEPTANE	156	0.024	0.0086	0.95	0.0006
OCTANE	157	0.301	0.0330	0.00	0.0029
NONANE	158	96.180	16.3025	973.63	0.5327
DECANE	159	0.756	0.1289	0.00	0.0115
ETHANE	160	2.140	0.5725	37.96	0.0222
TOTAL	ALS	100.000	17.2349	1031.62	0.5817

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1033.9  
 RELATIVE DENSITY = 0.5827  
 NORMALIZED TOTAL = 100.05  
 LOG INPUT CHANNEL 1 = H<sub>2</sub>S 140 = 5.7127 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.1747

VE-ALARMS

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939

TOTAL SULFUR 0.10 GR/CCF H<sub>2</sub>S 0.07 GR/CCF

H<sub>2</sub>O 3.9 \*1/MCF BY Bill Stinson

DOWNSTREAM TOTAL SULFUR 0.25 GR/CCF

ANALYSIS

DATE: 08/08/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 13:15 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 13:09

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
PANE +	151	0.081	0.0354	4.17	0.0026
PANE	152	0.281	0.0775	7.10	0.0043
UTANE	153	0.074	0.0243	2.42	0.0015
UTANE	154	0.063	0.0199	2.06	0.0013
NTANE	155	0.031	0.0112	1.23	0.0008
NTANE	156	0.020	0.0071	0.79	0.0005
ROGEN	157	0.331	0.0363	0.00	0.0032
HANE	158	96.272	16.3181	974.56	0.5333
	159	0.688	0.1172	0.00	0.0105
PANE	160	2.159	0.5774	38.29	0.0224
ALS		100.000	17.2245	1030.63	0.5802

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1032.9  
 RELATIVE DENSITY = 0.5812  
 NORMALIZED TOTAL = 100.33  
 LOG INPUT CHANNEL 1 = H 2 S 140 = 7.1134 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.2296

NO ALARMS

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8/0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAY. 0.5939  
 TOTAL SULFUR 0.08 GR/CCF H<sub>2</sub>S 0.02 GR/CCF  
 H<sub>2</sub>O 4.0 =1MMCF BY Bill Stinson  
 TOTAL SULFUR DOWNSTREAM 0.27 GR/CCF

AUG 10 1994

ANALYSIS

*Doug*

DATE: 03/01/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 10:53 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 10:47

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
KANE +	151	0.082	0.0357	4.20	0.0026
PROPANE	152	0.450	0.1240	11.35	0.0069
BUTANE	153	0.100	0.0328	3.27	0.0020
BUTANE	154	0.102	0.0322	3.34	0.0021
PENTANE	155	0.033	0.0123	1.34	0.0008
PENTANE	156	0.020	0.0073	0.81	0.0005
ETHYLENE	157	0.412	0.0452	0.00	0.0040
ETHYLENE	158	95.069	16.1142	962.38	0.5266
ETHYLENE	159	0.718	0.1224	0.00	0.0109
ETHYLENE	160	3.013	0.8059	53.44	0.0313
TOTALS		100.000	17.3319	1040.14	0.5876

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/2) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/2) = 1042.4  
 RELATIVE DENSITY = 0.5887  
 NORMALIZED TOTAL = 100.07  
 LOG INPUT CHANNEL 1 = H<sub>2</sub>S 140 = 8.8163 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 3.7352

NO ALARMS

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Mainline  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAV. 0.5938  
 TOTAL SULFUR 0.09 GR/CCF H<sub>2</sub>S 0.05 GR/CCF  
 H<sub>2</sub>O 3.2 =/MMCF BY \_\_\_\_\_

ANALYSIS

DATE: 07/26/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 12:05 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 11:59

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.078	0.0340	4.01	0.0025
PROPANE	152	0.569	0.1568	14.36	0.0087
ISOBUTANE	153	0.112	0.0365	3.63	0.0022
N-BUTANE	154	0.122	0.0384	3.98	0.0024
PENTANE	155	0.038	0.0138	1.51	0.0009
PENTANE	156	0.023	0.0082	0.91	0.0006
NITROGEN	157	0.358	0.0393	0.00	0.0035
METHANE	158	94.684	16.0490	958.49	0.5245
CO2	159	0.749	0.1276	0.00	0.0114
METHANE	160	3.268	0.8741	57.96	0.0339
TOTALS		100.000	17.3777	1044.85	0.5906

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1047.2  
 REAL RELATIVE DENSITY = 0.5917  
 UNNORMALIZED TOTAL = 100.06  
 ANALOG INPUT CHANNEL 1 = H2S 140 = 6.7289 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.8338

ADDITIONAL ALARMS

END

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Main Lines  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939  
 TOTAL SULFUR 0.04 GR/CCF H<sub>2</sub>S 0.06 GR/CCF  
 H<sub>2</sub>O 4.0 #/MCF BY the book

ANALYSIS

DATE: 07/19/94  
 TIME: 11:40  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 11:34

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.076	0.0332	3.91	0.0024
PROPANE	152	0.482	0.1327	12.15	0.0073
I-BUTANE	153	0.104	0.0339	3.38	0.0021
N-BUTANE	154	0.112	0.0354	3.68	0.0023
PENTANE	155	0.035	0.0129	1.42	0.0009
PENTANE	156	0.022	0.0081	0.90	0.0006
NITROGEN	157	0.350	0.0383	0.00	0.0034
METHANE	158	95.307	16.1544	964.79	0.5279
CO2	159	0.741	0.1262	0.00	0.0113
METHANE	160	2.772	0.7414	49.16	0.0288
TOTALS		100.000	17.3167	1039.38	0.5869

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1041.7  
 REAL RELATIVE DENSITY = 0.5879  
 UNNORMALIZED TOTAL = 99.94  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 4.2021 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 4.4493

TIVE ALARMS

NE

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLING

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.9 GRAV. 0.5939

TOTAL SULFUR 0.06 GR/CCF H<sup>2</sup>S 0.003 GR/CCF

H<sub>2</sub>O 4.2 =/MMCF BY Bill Stinson

TOTAL SULFUR DOWNSTREAM 0.20 GR/CCF

JUL 18 1994

ANALYSIS

*Doug*

S: 07/12/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 E: 11:47 CYCLE TIME: 360 STREAM#: 1  
 LYZER#: 1 MODE: RUN CYCLE START TIME: 11:41

P NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ANE +	151	0.093	0.0407	4.79	0.0030
PANE	152	0.489	0.1348	12.34	0.0074
UTANE	153	0.111	0.0363	3.62	0.0022
UTANE	154	0.112	0.0352	3.65	0.0022
NTANE	155	0.042	0.0152	1.66	0.0010
NTANE	156	0.027	0.0097	1.08	0.0007
ROGEN	157	0.419	0.0460	0.00	0.0041
HANE	158	95.159	16.1295	963.30	0.5271
	159	0.715	0.1219	0.00	0.0109
ANE	160	2.833	0.7578	50.25	0.0294
ALS		100.000	17.3270	1040.68	0.5880

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

PRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1043.0  
 L RELATIVE DENSITY = 0.5891  
 ORMALIZED TOTAL = 99.98  
 LOG INPUT CHANNEL 1 = H 2 S 140 = 4.9986 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.6690

VE ALARMS

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8/0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAY. 0.5939  
 TOTAL SULFUR 0.07 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 H<sup>2</sup>O 4.4 #/MMCF BY Bill Johnson  
 TOTAL SULFUR DOWNSTREAM 0.23 GR/CCF



ANALYSIS

*Q25*

DATE: 07/06/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 13:43 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 13:37

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ETHANE	151	0.089	0.0390	4.59	0.0029
PROPANE	152	0.487	0.1340	12.27	0.0074
BUTANE	153	0.105	0.0342	3.41	0.0021
BUTANE	154	0.110	0.0346	3.59	0.0022
PENTANE	155	0.040	0.0146	1.60	0.0010
PENTANE	156	0.026	0.0093	1.03	0.0006
ETHYLENE	157	0.369	0.0405	0.00	0.0036
ETHANE	158	95.111	16.1213	962.81	0.5268
ETHANE	159	0.709	0.1208	0.00	0.0108
ETHANE	160	2.955	0.7905	52.42	0.0307
TOTALS		100.000	17.3388	1041.71	0.5881

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 BTU @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1044.0  
 RELATIVE DENSITY = 0.5891  
 NORMALIZED TOTAL = 99.78  
 LOG INPUT CHANNEL 1 = H<sub>2</sub>S 140 = 2.9662 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.4493

NO ALARMS

E

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8 / 0.5939

CERTIFIED VALUE BTU 1041.8 GRAY. 0.5939

TOTAL SULFUR 0.07 GR/CCF H<sub>2</sub>S 50.03 GR/CCF

H<sub>2</sub>O 4.2 #/MMCF BY Bill Stinson

TOTAL SULFUR DOWNSTREAM 0.20 GRAINS/CCF

JUL 12 1994

FLORIDA GAS TRANSMISSION CO.

ANALYSIS

STANDARD  
 JUL 05 1994  
 [Signature]

DATE: 06/29/94 ANALYSIS TIME: 345  
 TIME: 11:44 CYCLE TIME: 360  
 ANALYZER#: 1 MODE: RUN  
 STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 11:38

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ETHANE	151	0.085	0.0372	4.39	0.0027
PROPANE	152	0.352	0.0969	8.87	0.0054
BUTANE	153	0.084	0.0275	2.74	0.0017
BUTANE	154	0.079	0.0250	2.59	0.0016
PENTANE	155	0.036	0.0132	1.44	0.0009
PENTANE	156	0.024	0.0088	0.98	0.0006
PROPANE	157	0.394	0.0432	0.00	0.0038
ETHANE	158	95.643	16.2115	968.20	0.5298
2	159	0.844	0.1439	0.00	0.0128
ETHANE	160	2.457	0.6574	43.59	0.0255
TOTALS		100.000	17.2646	1032.79	0.5848

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1035.0  
 RELATIVE DENSITY = 0.5858  
 NORMALIZED TOTAL = 99.85  
 LOG INPUT CHANNEL 1 = H<sub>2</sub>S 140 = 2.6366 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.4493

ALARMS

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.6/0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939  
 TOTAL SULFUR 0.08 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 4.0 =/MMCF BY Bill [Signature]  
 TOTAL SULFUR DOWNSTREAM 0.22 GR/CCF

ANALYSIS

109g

DATE: 06/22/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 13:06 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 12:59

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ETHANE +	151	0.084	0.0365	4.30	0.0027
PROPANE	152	0.344	0.0949	8.68	0.0052
BUTANE	153	0.080	0.0261	2.60	0.0016
PENTANE	154	0.075	0.0236	2.44	0.0015
HEXANE	155	0.035	0.0126	1.39	0.0009
HEPTANE	156	0.022	0.0081	0.90	0.0006
AROMATIC	157	0.453	0.0496	0.00	0.0044
ETHANE	158	95.663	16.2149	968.40	0.5299
ETHANE	159	0.827	0.1409	0.00	0.0126
ETHANE	160	2.418	0.6468	42.89	0.0251
TOTALS		100.000	17.2540	1031.60	0.5844

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1033.8  
 RELATIVE DENSITY = 0.5854  
 NORMALIZED TOTAL = 99.90  
 LOG INPUT CHANNEL 1 = H2S 140 = 4.2021 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 4.2845

NO ALARMS

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.8 GRV. 0.5939

TOTAL SULFUR 0.07 GR/CCF H<sub>2</sub>S 0.04 GR/CCF

H<sub>2</sub>O 4.2 #/MMCF BY Bill Johnson

TOTAL SULFUR DOWNSTREAM 0.26 GR/CCF

RECEIVED  
 JUN 27 1994  
 TECH OPERATIONS

DATE: JUN 16 1994

ANALYSIS

2/16 Copy/ Ben

DATE: 06/14/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
TIME: 12:51 CYCLE TIME: 360 STREAM#: 1  
ANALYZER#: 1 MODE: RUN CYCLE START TIME: 12:45

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
PANE +	151	0.091	0.0397	4.68	0.0029
OPANE	152	0.359	0.0990	9.06	0.0055
BUTANE	153	0.088	0.0289	2.88	0.0018
BUTANE	154	0.081	0.0256	2.66	0.0016
PENTANE	155	0.038	0.0141	1.54	0.0010
PENTANE	156	0.026	0.0093	1.03	0.0006
PROGEN	157	0.478	0.0524	0.00	0.0046
CHANE	158	95.573	16.1996	967.49	0.5294
	159	0.812	0.1384	0.00	0.0123
ANE	160	2.452	0.6560	43.50	0.0255
TOTALS		100.000	17.2630	1032.83	0.5852

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1035.1  
 RELATIVE DENSITY = 0.5862  
 NORMALIZED TOTAL = 99.99  
 LOG INPUT CHANNEL 1 = H2S 140 = .16177  
 LOG INPUT CHANNEL 2 = WATER 144 = 3.7352

VE ALARMS

FLORIDA GAS TRANSMISSION CO.  
 BROCKER LAB- MAINLINE  
 STANDARD GAS 1041.8 / 0.5939  
 CERTIFIED VALUE BTU 1041.8 GRAY. 0.5939  
 TOTAL SULFUR 0.09 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 H<sup>2</sup>O 3.5 #/MMCF BY Bill Hunt  
 TOTAL SULFUR DOWNSTREAM 0.26 GR/CCF

ANALYSIS

*Boz*

E: 06/07/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 E: 13:01 CYCLE TIME: 360 STREAM#: 1  
 LYZER#: 1 MODE: RUN CYCLE START TIME: 12:55

P NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
ANE +	151	0.088	0.0383	4.51	0.0028
PANE	152	0.358	0.0987	9.04	0.0055
UTANE	153	0.092	0.0303	3.01	0.0019
UTANE	154	0.083	0.0262	2.72	0.0017
NTANE	155	0.039	0.0143	1.56	0.0010
NTANE	156	0.026	0.0095	1.06	0.0007
ROGEN	157	0.337	0.0369	0.00	0.0033
HANE	158	95.940	16.2618	971.20	0.5314
	159	0.788	0.1342	0.00	0.0120
ANE	160	2.249	0.6015	39.88	0.0233
ALS		100.000	17.2517	1032.99	0.5834

14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1035.2  
 RELATIVE DENSITY = 0.5844  
 NORMALIZED TOTAL = 99.89  
 LOG INPUT CHANNEL 1 = H 2 S 140 = 2.5817 E-02  
 LOG INPUT CHANNEL 2 = WATER 144 = 3.7902

VE ALARMS

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- MAINLINE  
 STANDARD GAS 1041.8/0.5939  
 CERTIFIED VALUE BTU 1041.9 GRAY. 0.5939  
 TOTAL SULFUR 0.05 GR/CCF H<sup>2</sup>S 0.03 GR/CCF  
 -20 3.3 #/MMCF BY Bill Stinson  
 TOTAL SULFUR DOWNSTREAM 0.14 GRAMS/CCF

ANALYSIS

DATE: 05/31/94  
 TIME: 11:04  
 ANALYZER#: 1

ANALYSIS TIME: 345  
 CYCLE TIME: 360  
 MODE: RUN

STREAM SEQUENCE: 1  
 STREAM#: 1  
 CYCLE START TIME: 10:58

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.081	0.0355	4.19	0.0026
PROPANE	152	0.417	0.1149	10.52	0.0064
-BUTANE	153	0.095	0.0310	3.09	0.0019
-BUTANE	154	0.092	0.0289	2.99	0.0018
PENTANE	155	0.038	0.0138	1.51	0.0009
PENTANE	156	0.024	0.0087	0.97	0.0006
NITROGEN	157	0.445	0.0488	0.00	0.0043
METHANE	158	95.078	16.1157	962.48	0.5266
CO2	159	0.808	0.1376	0.00	0.0123
METHANE	160	2.922	0.7817	51.83	0.0303
TOTALS		100.000	17.3167	1037.58	0.5878

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 REAL B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1039.9  
 REAL RELATIVE DENSITY = 0.5889  
 UNNORMALIZED TOTAL = 100.06  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 7.6353 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 3.1310

ACTIVE ALARMS  
 NONE

FLORIDA GAS TRANSMISSION CO.  
 BROOKER LAB- Maitland  
 STANDARD GAS 1041.4 / 0.5939  
 CERTIFIED VALUE STU 1041.4 GRAY. 0.5939  
 TOTAL SULFUR 0.07 GR/CCF H<sub>2</sub>S 0.03 GR/CCF  
 H<sub>2</sub>O 2.9 #/MMCF BY Ken Lutz

Total Sulfur Downstream 0.17 GR/CCF

ANALYSIS

DATE: 05/24/94 ANALYSIS TIME: 345 STREAM SEQUENCE: 1  
 TIME: 11:08 CYCLE TIME: 360 STREAM#: 1  
 ANALYZER#: 1 MODE: RUN CYCLE START TIME: 11:01

COMP NAME	COMP CODE	MOLE %	GAL/MCF**	B.T.U.*	REL DEN*
HEXANE +	151	0.082	0.0358	4.22	0.0026
PROPANE	152	0.400	0.1102	10.09	0.0061
-BUTANE	153	0.094	0.0306	3.05	0.0019
-BUTANE	154	0.080	0.0254	2.63	0.0016
PENTANE	155	0.037	0.0136	1.49	0.0009
PENTANE	156	0.024	0.0086	0.95	0.0006
NITROGEN	157	0.472	0.0517	0.00	0.0046
METHANE	158	95.375	16.1661	965.48	0.5283
CO2	159	0.770	0.1312	0.00	0.0117
ETHANE	160	2.666	0.7132	47.29	0.0277
TOTALS		100.000	17.2863	1035.20	0.5860

@ 14.730 PSIA & UNCORRECTED FOR COMPRESSIBILITY

@ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) = 1.0022  
 GROSS B.T.U. @ 14.730 PSIA & 60 DEG. F CORRECTED FOR (1/Z) = 1037.5  
 REAL RELATIVE DENSITY = 0.5870  
 UNNORMALIZED TOTAL = 99.97  
 ANALOG INPUT CHANNEL 1 = H 2 S 140 = 2.8014 E-02  
 ANALOG INPUT CHANNEL 2 = WATER 144 = 3.5704

ACTIVE ALARMS

END

FLORIDA GAS TRANSMISSION CO.

BROOKER LAB- MAINLINE

STANDARD GAS 1041.8/0.5939

CERTIFIED VALUE BTU 1041.8 GRAY. 0.5938

TOTAL SULFUR 0.08 GR/CCF H<sub>2</sub>SO<sub>4</sub> 0.04 GR/CCF

H<sub>2</sub>O 3.4 =/MMCF BY Bill Stinson

TOTAL SULFUR DOWNSTREAM 0.18 GR/CCF