

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901

(307) 352-7292

Description:	Husky Hill Cent. Tank Battery	Company:	Whiting Petroleum
Field:	Rangley	Data File:	000983.D
Meter Number:		G.C. Method:	GAS EXTENDED.M
Analysis Date/Time:	11/16/2015, 15:43:30	GPA Method:	GPA 2286
Date Sampled:	11/11/2015	Sampled By:	MP
Sample Temperature:	71	Analyst Initials:	PRP
Sample Pressure:	27		

Component	Mol%	Wt%	LV%
Methane	69.0382	51.5294	68.6996
Ethane	4.8106	6.7300	7.5735
Propane	2.7702	5.6834	4.4840
Isobutane	0.6543	1.7693	1.2573
n-Butane	1.0741	2.9046	1.9893
Neopentane	0.0088	0.0295	0.0198
Isopentane	0.3188	1.0701	0.6855
n-Pentane	0.3308	1.1105	0.7038
2,2-Dimethylbutane	0.0077	0.0308	0.0188
2,3-Dimethylbutane	0.0176	0.0706	0.0424
2-Methylpentane	0.0999	0.4006	0.2436
3-Methylpentane	0.0622	0.2495	0.1491
n-Hexane	0.1191	0.4775	0.2876
Heptanes	0.1705	0.7499	0.4006
Octanes	0.0326	0.1734	0.0965
Nonanes	0.0096	0.0509	0.0255
Decanes plus	0.0000	0.0000	0.0000
Nitrogen	20.0926	26.1869	12.9402
Carbon Dioxide	0.3824	0.7831	0.3829
Oxygen	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

Calculated Global Properties	Units	
Gross BTU/Real CF	965.0	BTU/SCF at 60°F and 14.73 psia
Sat. Gross BTU/Real CF	949.4	BTU/SCF at 60°F and 14.73 psia
Gas Compressibility (Z)	0.9976	
Specific Gravity	0.7440	air=1
Avg Molecular Weight	21.494	gm/mole
Propane GPM	0.759209	gal/MCF
Butane GPM	0.551322	gal/MCF
Gasoline GPM	0.425182	gal/MCF
26# Gasoline GPM	0.765017	gal/MCF
Total GPM	5.317084	gal/MCF
Base Mol%	99.813	%v/v

H2S Length of Stain Tube N/A ppm

Component	Mol%	Wt%	LV%
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Benzene	0.0153	0.0557	0.0252
Toluene	0.0209	0.0896	0.0411
Ethylbenzene	0.0000	0.0000	0.0000
M&P Xylene	0.0047	0.0232	0.0107
O-Xylene	0.0012	0.0059	0.0027
2,2,4-Trimethylpentane	0.0070	0.0370	0.0206
Cyclopentane	0.0000	0.0000	0.0000
Cyclohexane	0.0309	0.1208	0.0617
Methylcyclohexane	0.0297	0.1358	0.0702
Description:	Husky Hill Cent. Tank Battery		

GRI GlyCalc Information

Component	Mol%	Wt%	LV%
Carbon Dioxide	0.3824	0.7831	0.3829
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	20.0926	26.1869	12.9402
Methane	69.0382	51.5294	68.6996
Ethane	4.8106	6.7300	7.5735
Propane	2.7702	5.6834	4.4840
Isobutane	0.6543	1.7693	1.2573
n-Butane	1.0829	2.9341	2.0091
Isopentane	0.3188	1.0701	0.6855
n-Pentane	0.3308	1.1105	0.7038
Cyclopentane	0.0000	0.0000	0.0000
n-Hexane	0.1191	0.4775	0.2876
Cyclohexane	0.0309	0.1208	0.0617
Other Hexanes	0.1874	0.7515	0.4539
Heptanes	0.0667	0.3110	0.1818
Methylcyclohexane	0.0297	0.1358	0.0702
2,2,4 Trimethylpentane	0.0070	0.0370	0.0206
Benzene	0.0153	0.0557	0.0252
Toluene	0.0209	0.0896	0.0411
Ethylbenzene	0.0000	0.0000	0.0000
Xylenes	0.0059	0.0291	0.0134
C8+ Heavies	0.0363	0.1952	0.1086
Subtotal	100.0000	100.0000	100.0000
Oxygen	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000