EMPACT ANALYTICAL SYSTEMS, INC

365 SOUTH MAIN STREET BRIGHTON, CO 80601 (303) 637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

PROJECT NO. :

0312028

MDU #6

ANALYSIS NO.:

0299

COMPANY NAME: ACCOUNT NO.:

COMPLIANCE PARTNERS

ANALYSIS DATE:

DECEMBER 7, 2003 DECEMBER 4, 2003

PRODUCER :

WESTERN GAS

TO:

SAMPLE DATE:

CYLINDER NO.:

LEASE NO. ;

NAME DESCRIP:

FIELD DATA SAMPLED BY:

P SCHLAGEL 800

SAMPLE TEMP. 80

AMBIENT TEMP.: GRAVITY :

SAMPLE PRES.: COMMENTS : NO PROBE

			GPM@		GPM@
COMPONENT	MOLE %	MASS %	14.696		14.73
HELIUM	0.004	0.001			-
HYDROGEN	0.000	0.000	***		
OXYGEN/ARGON	0.000	0.000	***	-	
NITROGEN	0.117	0.184	_		
CO2	2.279	5.619			
METHANE	92.971	83.565			
ETHANE	2.852	4.805	0.7610		0.7628
PROPANE	0.910	2.248	0.2502		0.2508
I-BUTANE	0.196	0.637	0.0640		0.0641
N-BUT//NE	0.228	0.741	0.0717		0.0719
I-PENTANE	0.093	0.375	0.0339		0.0340
N-PENTANE	0.065	0.261	0.0235		0.0236
HEXANES PLUS	0.285	1.564_	0.1187		0.1187
TOTALS	100.000	100.000	1.3230		1.3259

BTEX COMPONENTS	MOLE% W	Т%	BTU @	14.696	14.73
BENZENE	0.009	0.038	NET DRY REAL:	947.15 /scf	949.34 /scf
ETHYLBENZENE	0.001	0.008 LOW	NET WET REAL:	930.64 /scf	932.83 /scf
TOLUENE	0.011	0.058	GROSS DRY REAL:	1049.59 /scf	1052.02 /sef
XYLENES	0.005	0.032 HIGH	GROSS WET REAL:	1031.30 /scf	1033.73 /scf
TOTAL BTEX	0.026	0.136	NET DRY REAL:	20095 /lb	20142 / lb
			GROSS DRY REAL:	22269 /lb	22321 /lb
			DENSITY (AIR=1):		0.6172
(CALC: GPA STD 2145-94 & TP-17 @14.696 & 60 F)		COMPRESSIBILITY FACTOR:		0.99776	

^{*}DHA (DETAILED HYDROCARBON ANALYSIS/NJ 1993)

THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES. THE USE of THIS INFORMATION IS THE RESPONSIBILITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, ASSUMES NO RESPONSIBILITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF IT'S APPLICATION.

49-013-20123 SW NW 1-38-90 Fremont County Madden Field Fl. Union Fm.

[:] ASTM DE 30

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E & P /GlyCalc Information

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MDU #6 P SCHLAGEL

AMBIENT TEMP.:

SAMPLED BY: SAMPLE PRES.:

800

GRAVITY :

COMMENTS :

NO PROBE

SAMPLE TEMP.:

80

Componenet	Mole %	Wt %
Helium	0.004	0.001
Hydrogen	0.000	0.000
Methano	0.00.0	0.000
Carbon Frioxide	2.279	5.619
Nitroger	0.117	0.184
Methane	92.971	83.565
Ethane	2.852	4.805
Propane	0.910	2.248
Isobutane	0.196	0.637
n-Butane	0.228	0.741
Isopentane	0.093	0.375
n-Pentane	0.065	0.261
Cyclopentane	0.006	0.023
n-Hexane	0.026	0.123
Cyclohexane	0.021	0.100
Other Hexanes	0.066	0.314
Heptanes	0.045	0.258
Methycyclohexane	0.037	0.205
2,2,4 Trimethylpentane	0.000	0.000
Benzene	0.009	0.038
Toluene	0.011	0.058
Ethylbenzene	0.001	0.008
Xylenes	0.005	0.032
C8+ Heavies	0.058	0.405
Subtotal	100.000	100.000
Oxygen	0.000	0.000
Total	100.000	100.000