

### EXTENDED GAS ANALYSIS

#### SAMPLE DATA

PROJECT NO..... LBON5103  
COMPANY NAME..... Bonanza Creek  
SITE..... Perkins 12-27  
UNIT ID..... Perkins 12-27, NP B,C,G,H-27  
SAMPLED BY..... DR

SAMPLE ID..... Commingled Sales Gas  
ANALYSIS DATE..... 8/26/2015  
SAMPLE DATE..... 8/24/2015  
CYLINDER NO..... GV-114  
LAB ANALYST..... CB

#### FIELD DATA

SAMPLE PRESSURE..... 165 psi  
AMBIENT PRESSURE..... 12.6 psi

SAMPLE TEMP..... 95 F  
AMBIENT TEMP..... 71 F

COMMENTS: **H<sub>2</sub>S = 1.0 ppm\***

\*ASTM Method D4810 Length of Stain

#### LABORATORY DATA

COMPONENT	MOLE %	WT%	GPM
HYDROGEN SULFIDE.....	0.0000	0.0000	0.0000
CARBON DIOXIDE.....	2.2848	4.1131	0.3908
NITROGEN.....	0.4417	0.5061	0.0487
METHANE.....	65.9347	43.2661	11.2037
ETHANE.....	15.7119	19.3246	4.2116
PROPANE.....	9.7691	17.6203	2.6976
ISOBUTANE.....	1.1479	2.7292	0.3765
N-BUTANE.....	2.9985	7.1288	0.9475
ISOPENTANE.....	0.5125	1.5125	0.1879
N-PENTANE.....	0.6184	1.8251	0.2247
CYCLOPENTANE.....	0.0543	0.1558	0.0161
N-HEXANE.....	0.1289	0.4545	0.0531
CYCLOHEXANE.....	0.0523	0.1801	0.0178
OTHER HEXANES.....	0.1719	0.6059	0.0708
HEPTANES.....	0.0319	0.1307	0.0147
METHYLCYCLOHEXANE.....	0.0300	0.1204	0.0121
2,2,4 TRIMETHYLPENTANE.....	0.0077	0.0359	0.0039
BENZENE.....	0.0176	0.0563	0.0049
TOLUENE.....	0.0155	0.0584	0.0052
ETHYLBENZENE.....	0.0033	0.0142	0.0013
XYLENES.....	0.0092	0.0398	0.0036
C8+ HEAVIES.....	0.0139	0.0647	0.0071
SUBTOTAL	99.9560	99.9424	20.4997
OXYGEN/ARGON	0.0440	0.0576	0.0039
<b>TOTAL</b>	<b>100</b>	<b>100</b>	<b>20.5036</b>

#### BTU @

MOLECULAR WEIGHT.....	24.4477	NET DRY REAL	1271.1450 /scf
RELATIVE DENSITY (AIR=1).....	0.8441		
COMPRESSIBILITY FACTOR.....	0.9951	GROSS DRY REAL	1402.4087 /scf
		GROSS WET REAL	1378.5265 /scf