



5530 Marshall Street  
Arvada, Colorado 80002  
Phone: 303-420-5949  
Fax: 303-420-5920

### EXTENDED GAS ANALYSIS

#### SAMPLE DATA

PROJECT NO..... OG-2020-0335  
COMPANY NAME..... Prospect Energy  
SITE..... Hearthfire #1  
UNIT ID..... Wellhead  
SAMPLED BY..... AJM

SAMPLE ID..... Gas  
ANALYSIS DATE..... 10/7/2020  
SAMPLE DATE..... 10/7/2020  
CYLINDER NO..... GV-152  
LAB ANALYST..... CLB

#### FIELD DATA

SAMPLE PRESSURE..... 18.7 psig  
AMBIENT PRESSURE..... 12.3 psi

SAMPLE TEMP..... 59 F  
AMBIENT TEMP..... 55 F

COMMENTS:

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#### LABORATORY DATA

COMPONENT	MOLE %	WT%	GPM
HYDROGEN SULFIDE.....	0.0072	0.0097	0.0010
CARBON DIOXIDE.....	1.2217	2.1160	0.2090
NITROGEN.....	2.2287	2.4572	0.2458
METHANE.....	72.9185	46.0395	12.3924
ETHANE.....	5.5716	6.5936	1.4937
PROPANE.....	7.3787	12.8054	2.0379
ISOBUTANE.....	1.1660	2.6672	0.3825
N-BUTANE.....	3.9389	9.0102	1.2449
ISOPENTANE.....	1.1945	3.3919	0.4379
N-PENTANE.....	1.4425	4.0960	0.5242
CYCLOPENTANE.....	0.1568	0.4329	0.0466
N-HEXANE.....	0.4324	1.4664	0.1782
CYCLOHEXANE.....	0.1191	0.3945	0.0406
OTHER HEXANES.....	0.9416	3.1643	0.3673
HEPTANES.....	0.5393	2.1155	0.2414
METHYLCYCLOHEXANE.....	0.1769	0.6835	0.0712
2,2,4 TRIMETHYLPENTANE.....	0.0004	0.0018	0.0002
BENZENE.....	0.0305	0.0938	0.0086
TOLUENE.....	0.0141	0.0512	0.0047
ETHYLBENZENE.....	0.0109	0.0456	0.0042
XYLENES.....	0.0144	0.0603	0.0056
OCTANES.....	0.2632	1.1744	0.1290
NONANES.....	0.0235	0.1179	0.0130
DECANES.....	0.1724	0.9654	0.1060
SUBTOTAL	99.9637	99.9543	20.1861
OXYGEN/ARGON	0.0363	0.0457	0.0032
<b>TOTAL</b>	<b>100.00</b>	<b>100.00</b>	<b>20.19</b>

#### BTU @

MOLECULAR WEIGHT.....	25.4085	NET DRY REAL	1314.3385 /scf
RELATIVE DENSITY (AIR=1).....	0.8773		
COMPRESSIBILITY FACTOR.....	0.9950	GROSS DRY REAL	1448.5194 /scf
		GROSS WET REAL	1423.0027 /scf