



EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PRIMARY DB KEY: **05-001-09194** NAME/DESCRIP : **STATE OF COLORADO C#5**
 LEASE #:
 FIELD/AREA:

PROJECT NO. : **202011051** ANALYSIS NO. : **02**
 COMPANY NAME : **RENEGADE OIL & GAS COMPANY** ANALYSIS DATE: NOVEMBER 14, 2020 05:28
 OFFICE / BRANCH: AURORA, CO SAMPLE DATE : NOVEMBER 3, 2020
 CUSTOMER REF:
 PRODUCER : TO:
 EFFECTIVE DATE:

*****FIELD DATA*****

SAMPLE CYCLE: SAMPLE TYPE: SPOT
 SAMPLE PRES. : 20 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : 1813
 LAB PRES: psig SAMPLED BY : BILL ESPINOSA
 SAMPLE TEMP. : 70 °f SAMPLING COMPANY: RENEGADE OIL & GAS COMPANY
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **BDL** ppm
 H2O BY STAIN TUBE: #/mmcf CO2 BY STAIN TUBE: Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

<u>COMPONENT</u>	<u>MOLE %</u>	<u>MASS %</u>	<u>GPM @ 14.65</u>	<u>GPM @ 14.73</u>
HELIUM	0.01	0.00	---	---
HYDROGEN	0.02	0.00	---	---
OXYGEN/ARGON	0.01	0.01	---	---
NITROGEN	0.36995	0.29002	---	---
CARBON DIOXIDE	3.01963	3.78026	---	---
METHANE	35.11462	16.03002	---	---
ETHANE	18.5263	15.8521	4.9764	5.0036
PROPANE	24.5114	30.7569	6.7829	6.8200
I-BUTANE	2.7948	4.6225	0.9184	0.9234
N-BUTANE	10.6793	17.6630	3.3814	3.3999
I-PENTANE	1.7989	3.6856	0.6515	0.6550
N-PENTANE	1.6594	3.4069	0.6042	0.6075
HEXANES PLUS	1.4857	3.9027	0.6057	0.6088
TOTALS	100.00000	100.00000	17.9205	18.0182

<u>BTEX COMPONENTS</u>	<u>MOLE%</u>	<u>WT%</u>	<u>BTU @</u>	<u>14.65</u>	<u>14.73</u>
BENZENE	0.0475	0.1056	LHV NET DRY REAL :	1800.2 /scf	1810.0 /scf
TOLUENE	0.0445	0.1167	NET WET REAL :	1768.7 /scf	1778.5 /scf
ETHYLBENZENE	0.0019	0.0058	HHV GROSS DRY REAL :	1963.7 /scf	1974.4 /scf
XYLENES	0.0087	0.0263	GROSS WET REAL :	1929.4 /scf	1940.1 /scf
TOTAL BTEX	0.1026	0.2544	NET HEATING VALUE (60 °F ideal reaction):		19328.8 Btu/lbm
			GROSS HEATING VALUE (60°F ideal reaction):		21079.1 Btu/lbm
			RELATIVE DENSITY (AIR=1):		1.2126
			DENSITY		0.09261 lbm/scf
			COMPRESSIBILITY FACTOR :		0.9900
			REGULAR WOBBE INDEX		1770.9

**(DETAILED HYDROCARBON ANALYSIS/NJ 1993)*

Mod ASTM D6730, GPA 2261 & GPA 2286

(CALC: GPA 2172, GPA 2145 & TP-17 @14.696 & 60 F)

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