

# Separator Gas Analysis

CONTAINER IDENTITY	METER ID <b>Good Oil Co</b>	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
OPERATOR <b>Condensate Well</b>		PAGE	
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
FIELD OR AREA	POOL OR ZONE	SAMPLER	

TEST TYPE AND NO. \_\_\_\_\_ TEST RECOVERY \_\_\_\_\_

**Meter Run**

	POINT OF SAMPLE	SAMPLE POINT ID
	PUMPING _____ FLOWING _____ GAS LIFT _____ SWAB _____	
	WATER _____ m <sup>3</sup> /d _____ OIL <b>50 sep.bb/d</b> _____ GAS <b>510 Mscf/d</b> _____	

TEST INTERVAL or PERFS (meters)			
<b>361</b>		<b>62</b>	
SEPARATOR _____	RESERVOIR _____ OTHER _____	SEPARATOR _____	OTHER _____
Pressures, psia		Temperatures, F	
CONTAINER WHEN SAMPLED _____	CONTAINER WHEN RECEIVED _____		

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ _____ °C
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COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	mL/m <sup>3</sup> AIR FREE AS RECEIVED
H <sub>2</sub>	Trace	Trace	
He	0.0001	0.0001	
N <sub>2</sub>	0.0030	0.0030	
CO <sub>2</sub>	0.0007	0.0000	
H <sub>2</sub> S	0.0000	0.0000	
C <sub>1</sub>	0.8355	0.8360	
C <sub>2</sub>	0.0974	0.0975	346.1
C <sub>3</sub>	0.0386	0.0387	141.8
iC <sub>4</sub>	0.0069	0.0069	30.1
C <sub>4</sub>	0.0106	0.0106	44.6
iC <sub>5</sub>	0.0027	0.0027	13.2
C <sub>5</sub>	0.0022	0.0022	10.6
C <sub>6</sub>	0.0014	0.0014	7.5
C <sub>7+</sub>	0.0009	0.0009	5.1
Total	1.0000	1.0000	599.0

CALCULATED GROSS HEATING VALUE MJ/m <sup>3</sup> @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C	
44.99	45.02	101.7	
MOISTURE FREE		PENTANES PLUS	
CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa MOISTURE FREE AS SAMPLED			
0.834	0.681	19.7	
DENSITY		RELATIVE MOLECULAR MASS	
CALCULATED PSEUDOCRITICAL PROPERTIES AS SAMPLED ACID GAS FREE			
4585.5	214.6	4583.6	214.6
pPc kPa (abs)		pPc kPa (abs)	
pTc		pTc	
C <sub>7+</sub> PROPERTIES @ 15°C & 101.325 kPa		MOLE FRACTION LOCATION METHOD	
737.8	97.1	0.0000000	Laboratory Chromatograph
DENSITY MOLECULAR WEIGHT		HYDROGEN SULPHIDE	

REMARKS:

# Separator Oil Analysis

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OPERATOR <b>Condensate Well</b>			PAGE
LOCATION (UWI)	WELL NAME	KB ELEV (m)	GR ELEV (m)
FIELD OR AREA	POOL OR ZONE	SAMPLER	

TEST TYPE AND NO. **Condensate Dump** TEST RECOVERY

	POINT OF SAMPLE			SAMPLE POINT ID	
	PUMPING	FLOWING	GAS LIFT	SWAB	
	WATER	m <sup>3</sup> /d	OIL	<b>50 sep.bbl/d</b>	GAS

TEST INTERVAL or PERFS (meters)					
<b>361</b>					<b>62</b>
SEPARATOR	RESERVOIR	OTHER	CONTAINER WHEN SAMPLED	CONTAINER WHEN RECEIVED	OTHER
Pressures, psia			Temperatures, F		

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	@ °C
					MUD RESISTIVITY

COMPONENT	MOLE FRACTION	MASS FRACTION	LIQUID VOLUME FRACTION	mL/m <sup>3</sup>
N <sub>2</sub>	Trace	Trace	Trace	Trace
CO <sub>2</sub>	0.0001	Trace	Trace	0.2
H <sub>2</sub> S	0.0000	0.0000	0.0000	0.0
C <sub>1</sub>	0.0687	0.0117	0.0267	155.4
C <sub>2</sub>	0.0625	0.0200	0.0382	222.1
C <sub>3</sub>	0.0910	0.0427	0.0575	334.4
iC <sub>4</sub>	0.0382	0.0236	0.0287	166.8
C <sub>4</sub>	0.0854	0.0528	0.0618	359.3
iC <sub>5</sub>	0.0527	0.0404	0.0443	257.3
C <sub>5</sub>	0.0562	0.0431	0.0468	271.9
C <sub>6</sub>	0.0885	0.0811	0.0836	485.8
C <sub>7+</sub>	0.4567	0.6846	0.6124	3,557.4
Total	1.0000	1.0000	1.0000	5,810.6

CALCULATED PROPERTIES OF C <sub>7+</sub> RESIDUE (15/15°C)		
<u>765.7 kg/m<sup>3</sup></u>	<u>0.7664</u>	<u>53.3</u>
DENSITY	RELATIVE DENSITY	API @ 15.5 °C
<u>141</u>		
RELATIVE MOLECULAR MASS		

CALCULATED PROPERTIES OF TOTAL SAMPLE (15/15°C)		
<u>684.7 kg/m<sup>3</sup></u>	<u>0.6853</u>	<u>75.2</u>
DENSITY	RELATIVE DENSITY	API @ 15.5 °C
<u>94.07</u>		
RELATIVE MOLECULAR MASS		

GAS EQUIVALENT	
<u>0.1721 10<sup>3</sup>m<sup>3</sup> Gas/m<sup>3</sup> Liquid (E<sup>3</sup>m<sup>3</sup>/m<sup>3</sup>)</u>	

REMARKS: Saturation pressure @ 22°C (kPa gauge) = 2069