

07001410C 22GS932797C
 Container Identification Sample Point Code Meter Code AGAT WDMS Number Previous Number Laboratory Number

TUNDRA OIL & GAS LIMITED WELLHEAD CASING 100/16-18-002-28W1/00
 Operator Name Sampling Point Unique Well Identifier

TUNDRA PIERSON HzNTL 16-18-2-28 9385
 Well Name Well License Well Status Well Fluid Status LSD

PIERSON LOWER AMARANTH AGAT/ESTEVAN CB
 Field or Area Pool or Zone Sampler's Company Name of Sampler

Test Interval (mKB)		Elevation (m)		Pressure (kPa)		Temperature (°C)	
From :	To:	472.30	463.90	5	8	27	21
		KB	GRD	Source	Received	Source	Received
Aug 12, 2022	Aug 16, 2022	Aug 23, 2022	Aug 23, 2022	Calgary - Gerry Ecker - Reporter			
Date/Time Sampled	Date Received	Date Analyzed	Date Reported	Location - Approved By - Title			

Other Information : FIELD H2S BY TUT = 0.72%

COMPOSITION

Component	Mole Fraction		Liquid Volume mL / m ³	Mole Fraction of Previous Analysis
	Air Free As Received	Air & Acid Gas Free As Received		
H ₂	0.0003	0.0003		
He	0.0002	0.0002		
N ₂	0.0705	0.0723		
CO ₂	0.0181	0.0000		
H ₂ S	0.0072	0.0000		
C ₁	0.3775	0.3873		
C ₂	0.1822	0.1869	647.5	
C ₃	0.1807	0.1854	664.0	
iC ₄	0.0279	0.0286	121.8	
nC ₄	0.0757	0.0777	318.5	
iC ₅	0.0192	0.0197	93.7	
nC ₅	0.0232	0.0238	112.3	
C ₆	0.0098	0.0101	53.8	
C ₇₊	0.0075	0.0077	48.9	
TOTAL	1.0000	1.0000	2060.5	

PROPERTIES

Calculated Heating Value @15 °C & 101.325 kPa (MJ/m ³)				
Gross		Net		
66.26	67.80	1.65	60.24	61.65
Air Free as Received	Moisture & Acid Gas Free	C ₇₊ Moisture Free	Air Free as Received	Moisture & Acid Gas Free


Calculated Density				
Relative			Absolute	
1.148	1.141	3.711	698.2	1.406
Moisture Free As Received	Moisture & Acid Gas Free	C ₇₊ Moisture Free	C ₇₊ Density (kg/m ³)	Total Sample Density (kg/m ³)

Calculated Pseudo Critical Properties			
As Sampled		Acid Gas Free	
4411.0	283.9	4322.0	282.9
pPc (kPa)	pTc (K)	pPc (kPa)	pTc (K)

Hydrogen Sulfide (H ₂ S) (ppm)		
Field Value		Laboratory Value
7200		g/m ³
Stain Tube	Tutweiler	Other
		GC-SCD
		10.36

Calculated Molecular Weight (Moisture Free as Received) (g/mol)	
33.3	107.5
Total Sample	C ₇₊ Fraction

Calculated Vapour Pressure	Gas Compressibility
93.65	0.9852
C ₇₊ (kPa)	@ 15 °C & 101.325 kPa

WDMS Data Verification Check 
 Exceeds normal limits: IC5, NC5, N2

Disclaimer: The result in this report has been confirmed by a duplicate run.

Results relate only to items tested. Analysis and associated calculations are based on GPA 2261, GPA 2286, GPA 2145, AGA #5, and TP-17.

View or download your data online at webfluids.agatlabs.com