



OCD Received
5/20/2020

Well Name: ROSA 16; TBG
API #: CC# 62051432
Source: TUBING
Sample Type: GAS
Analysis No: LG200099
Cust No: 46600-11700

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
Well Name: ROSA 16; TBG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV/DK
Cust. Stn. No.: CC# 62051432

Source: TUBING
Well Flowing: Y
Pressure: 51 PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: 30 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/07/2020
Sample Time: 3.40 PM
Sampled By: ROBERT JORDAN
Sampled by (CO): LOGOS

Heat Trace: AREA 1 CENTRAL
N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1159	0.1145	0.0130	0.00	0.0011
CO2	1.8423	1.8203	0.3150	0.00	0.0280
Methane	94.7842	93.6542	16.1000	957.32	0.5250
Ethane	2.7670	2.7340	0.7410	48.97	0.0287
Propane	0.3401	0.3360	0.0940	8.56	0.0052
Iso-Butane	0.0716	0.0707	0.0230	2.33	0.0014
N-Butane	0.0318	0.0314	0.0100	1.04	0.0006
I-Pentane	0.0156	0.0154	0.0060	0.62	0.0004
N-Pentane	0.0056	0.0055	0.0020	0.22	0.0001
Hexane Plus	0.0259	0.0256	0.0120	1.37	0.0009
Total	100.0000	98.8076	17.3160	1020.42	0.5915

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1022.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1025.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1007.2
DRY BTU @ 15.025: 1045.5
REAL SPECIFIC GRAVITY: 0.5926

CYLINDER #: 4054
CYLINDER PRESSURE: 52 PSIG
ANALYSIS DATE: 05/11/2020
ANALYSIS TIME: 08:09:20 AM
ANALYSIS RUN BY: RICHARD WILSON

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 05/12/2020

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease:	ROSA 16; TBG	TUBING	05/12/2020
Stn. No.:	CC# 62051432	MV/DK	46600-11700
Mtr. No.:			

Smpl Date: 05/07/2020
Test Date: 05/11/2020
Run No: LG200099

Nitrogen: 0.1159
CO2: 1.8423
Methane: 94.7842
Ethane: 2.7670
Propane: 0.3401
I-Butane: 0.0716
N-Butane: 0.0318
I-Pentane: 0.0156
N-Pentane: 0.0056
Hexane+: 0.0259

BTU: 1025.0
GPM: 17.3160
SPG: 0.5926