



Well Name: GCU #166E; BHD
 API #: 3004524429
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB20240124
 Cust No: 69350-11120

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #166E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524429

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 43 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 1.50 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3066	0.3058	0.0340	0.00	0.0030
CO2	0.0140	0.0140	0.0020	0.00	0.0002
Methane	88.9983	88.7701	15.1260	898.88	0.4930
Ethane	6.4141	6.3977	1.7200	113.51	0.0666
Propane	2.5877	2.5811	0.7150	65.11	0.0394
Iso-Butane	0.4630	0.4618	0.1520	15.06	0.0093
N-Butane	0.6086	0.6070	0.1920	19.85	0.0122
I-Pentane	0.2024	0.2019	0.0740	8.10	0.0050
N-Pentane	0.0941	0.0939	0.0340	3.77	0.0023
Hexane Plus	0.3112	0.3104	0.1390	16.40	0.0103
Total	100.0000	99.7437	18.1880	1140.69	0.6413

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1143.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1146.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1126.6
 DRY BTU @ 15.025: 1169.5
 REAL SPECIFIC GRAVITY: 0.6429

CYLINDER #: 1413
 CYLINDER PRESSURE: 43 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 04:04:59 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 12/13/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU #166E; BHD
Stn. No.: 3004524429
Mtr. No.:

BRADENHEAD

12/13/2024
69350-11120

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240124

Nitrogen: 0.3066
CO2: 0.0140
Methane: 88.9983
Ethane: 6.4141
Propane: 2.5877
I-Butane: 0.4630
N-Butane: 0.6086
I-Pentane: 0.2024
N-Pentane: 0.0941
Hexane+: 0.3112

BTU: 1146.5
GPM: 18.1880
SPG: 0.6429



Well Name: GCU #166E; CSG
 API #: 3004524429
 Source: CASING
 Sample Type: GAS
 Analysis No: SB20240125
 Cust No: 69350-11125

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #166E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524429

Source: CASING
 Well Flowing: Y
 Pressure: 109 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 1.54 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7632	0.7636	0.0840	0.00	0.0074
CO2	0.8606	0.8610	0.1470	0.00	0.0131
Methane	84.3324	84.3710	14.3390	851.76	0.4671
Ethane	8.2468	8.2506	2.2120	145.94	0.0856
Propane	2.9220	2.9233	0.8070	73.52	0.0445
Iso-Butane	0.4742	0.4744	0.1560	15.42	0.0095
N-Butane	0.8034	0.8038	0.2540	26.21	0.0161
I-Pentane	0.3339	0.3341	0.1220	13.36	0.0083
N-Pentane	0.2330	0.2331	0.0850	9.34	0.0058
Hexane Plus	1.0305	1.0310	0.4610	54.32	0.0341
Total	100.0000	100.0459	18.6670	1189.87	0.6915

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	1416
BTU/CU.FT IDEAL:	1192.6	CYLINDER PRESSURE:	100 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1196.5	ANALYSIS DATE:	10/24/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1175.7	ANALYSIS TIME:	03:57:26 PM
DRY BTU @ 15.025:	1220.5	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6935		

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: 12/13/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU #166E; CSG CASING 12/13/2024
Stn. No.: 3004524429 69350-11125
Mtr. No.:

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240125
Nitrogen: 0.7632
CO2: 0.8606
Methane: 84.3324
Ethane: 8.2468
Propane: 2.9220
I-Butane: 0.4742
N-Butane: 0.8034
I-Pentane: 0.3339
N-Pentane: 0.2330
Hexane+: 1.0305
BTU: 1196.5
GPM: 18.6670
SPG: 0.6935



Well Name: GCU #166E; TBG
 API #: 3004524429
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB20240126
 Cust No: 69350-11130

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #166E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524429

Source: TUBING
 Well Flowing: Y
 Pressure: 65 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 1.59 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8311	0.8304	0.0920	0.00	0.0080
CO2	0.9930	0.9922	0.1700	0.00	0.0151
Methane	85.1033	85.0367	14.4690	859.54	0.4714
Ethane	8.2446	8.2381	2.2110	145.90	0.0856
Propane	2.6224	2.6203	0.7250	65.98	0.0399
Iso-Butane	0.3744	0.3741	0.1230	12.18	0.0075
N-Butane	0.5923	0.5918	0.1870	19.32	0.0119
I-Pentane	0.2660	0.2658	0.0980	10.64	0.0066
N-Pentane	0.1624	0.1623	0.0590	6.51	0.0040
Hexane Plus	0.8105	0.8099	0.3620	42.72	0.0268
Total	100.0000	99.9216	18.4960	1162.80	0.6769

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1165.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1169.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1148.8
 DRY BTU @ 15.025: 1192.5
 REAL SPECIFIC GRAVITY: 0.6788

CYLINDER #: 2072
 CYLINDER PRESSURE: 62 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 03:49:19 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 12/13/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU #166E; TBG
Stn. No.: 3004524429
Mtr. No.:
TUBING
12/13/2024
69350-11130

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240126
Nitrogen: 0.8311
CO2: 0.9930
Methane: 85.1033
Ethane: 8.2446
Propane: 2.6224
I-Butane: 0.3744
N-Butane: 0.5923
I-Pentane: 0.2660
N-Pentane: 0.1624
Hexane+: 0.8105
BTU: 1169.1
GPM: 18.4960
SPG: 0.6788

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 412059

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 412059
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	1/31/2025