



Well Name: GCU 77; BHD
 API #: 3004508235
 Source: BRADENHEAD
 Sample Type: GAS

Analysis No: SB20240102
 Cust No: 69350-11020

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508235

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 52 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 51 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 8.15 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3639	0.3637	0.0400	0.00	0.0035
CO2	0.0115	0.0115	0.0020	0.00	0.0002
Methane	87.2022	87.1509	14.8230	880.74	0.4830
Ethane	7.6487	7.6442	2.0510	135.36	0.0794
Propane	2.8937	2.8920	0.7990	72.81	0.0441
Iso-Butane	0.4537	0.4534	0.1490	14.75	0.0091
N-Butane	0.7057	0.7053	0.2230	23.02	0.0142
I-Pentane	0.2180	0.2179	0.0800	8.72	0.0054
N-Pentane	0.1102	0.1101	0.0400	4.42	0.0027
Hexane Plus	0.3924	0.3922	0.1750	20.68	0.0130
Total	100.0000	99.9412	18.3820	1160.51	0.6546

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1163.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1166.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1146.3
 DRY BTU @ 15.025: 1190.0
 REAL SPECIFIC GRAVITY: 0.6562

CYLINDER #: 1406
 CYLINDER PRESSURE: 48 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 09:28:27 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 77; BHD
Stn. No.: 3004508235
Mtr. No.:

BRADENHEAD

10/21/2024
69350-11020

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240102

Nitrogen: 0.3639
CO2: 0.0115
Methane: 87.2022
Ethane: 7.6487
Propane: 2.8937
I-Butane: 0.4537
N-Butane: 0.7057
I-Pentane: 0.2180
N-Pentane: 0.1102
Hexane+: 0.3924

BTU: 1166.6
GPM: 18.3820
SPG: 0.6562



Well Name: GCU 77; CSG

API #: 3004508235

Source: CASING

Sample Type: GAS

Analysis No: SB20240103

Cust No: 69350-11025

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508235

Source: CASING
 Well Flowing: Y
 Pressure: 12 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 51 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 8.20 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.4939	1.7022	0.3850	0.00	0.0338
CO2	0.1328	0.0647	0.0230	0.00	0.0020
Methane	86.1059	41.9495	14.6350	869.67	0.4769
Ethane	5.6443	2.7498	1.5130	99.89	0.0586
Propane	2.4451	1.1912	0.6750	61.52	0.0372
Iso-Butane	0.4758	0.2318	0.1560	15.47	0.0095
N-Butane	0.7209	0.3512	0.2280	23.52	0.0145
I-Pentane	0.2826	0.1377	0.1040	11.31	0.0070
N-Pentane	0.1242	0.0605	0.0450	4.98	0.0031
Hexane Plus	0.5745	0.2799	0.2570	30.28	0.0190
Total	100.0000	48.7185	18.0210	1116.64	0.6617

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1119.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1122.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1102.7
 DRY BTU @ 15.025: 1144.7
 REAL SPECIFIC GRAVITY: 0.6633

CYLINDER #: 8016
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 09:37:15 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 77; CSG
Stn. No.: 3004508235
Mtr. No.:

CASING

10/21/2024
69350-11025

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240103

Nitrogen: 3.4939
CO2: 0.1328
Methane: 86.1059
Ethane: 5.6443
Propane: 2.4451
I-Butane: 0.4758
N-Butane: 0.7209
I-Pentane: 0.2826
N-Pentane: 0.1242
Hexane+: 0.5745

BTU: 1122.2
GPM: 18.0210
SPG: 0.6633



Well Name: GCU 77; TBG

API #: 3004508235

Source: TUBING

Sample Type: GAS

Analysis No: SB20240104

Cust No: 69350-11030

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508235

Source: TUBING
 Well Flowing: Y
 Pressure: 12 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 51 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 8.25 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2289	0.1093	0.0250	0.00	0.0022
CO2	0.1001	0.0478	0.0170	0.00	0.0015
Methane	88.7404	42.3714	15.0850	896.28	0.4915
Ethane	5.8261	2.7818	1.5620	103.10	0.0605
Propane	2.5430	1.2142	0.7030	63.98	0.0387
Iso-Butane	0.4993	0.2384	0.1640	16.24	0.0100
N-Butane	0.7810	0.3729	0.2470	25.48	0.0157
I-Pentane	0.3280	0.1566	0.1200	13.12	0.0082
N-Pentane	0.1546	0.0738	0.0560	6.20	0.0039
Hexane Plus	0.7986	0.3813	0.3570	42.09	0.0264
Total	100.0000	47.7475	18.3360	1166.50	0.6586

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1169.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1172.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1152.3
 DRY BTU @ 15.025: 1196.2
 REAL SPECIFIC GRAVITY: 0.6603

CYLINDER #: 123
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 09:44:51 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 77; TBG
Stn. No.: 3004508235
Mtr. No.:

TUBING

10/21/2024
69350-11030

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240104

Nitrogen: 0.2289
CO2: 0.1001
Methane: 88.7404
Ethane: 5.8261
Propane: 2.5430
I-Butane: 0.4993
N-Butane: 0.7810
I-Pentane: 0.3280
N-Pentane: 0.1546
Hexane+: 0.7986

BTU: 1172.7
GPM: 18.3360
SPG: 0.6603

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 395531

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 395531
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	bradenhead and production gas are the same	10/25/2024