



Well Name: GCU #124; BHD

API #: 3004513076

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240119

Cust No: 69350-11095

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #124; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004513076

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 12.50 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3447	0.3440	0.0380	0.00	0.0033
CO2	0.0043	0.0043	0.0010	0.00	0.0001
Methane	89.1193	88.9382	15.1450	900.10	0.4936
Ethane	6.4616	6.4485	1.7320	114.35	0.0671
Propane	2.5871	2.5818	0.7140	65.09	0.0394
Iso-Butane	0.4524	0.4515	0.1480	14.71	0.0091
N-Butane	0.5554	0.5543	0.1760	18.12	0.0111
I-Pentane	0.1562	0.1559	0.0570	6.25	0.0039
N-Pentane	0.0667	0.0666	0.0240	2.67	0.0017
Hexane Plus	0.2523	0.2518	0.1130	13.30	0.0084
Total	100.0000	99.7969	18.1480	1134.60	0.6376

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
 BTU/CU.FT IDEAL: 1137.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1140.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1120.5
 DRY BTU @ 15.025: 1163.1
 REAL SPECIFIC GRAVITY: 0.6391

CYLINDER #: 1424
 CYLINDER PRESSURE: 75 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 04:29:07 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 #124; BHD
Stn. No.: 3004513076
Mtr. No.:

BRADENHEAD

12/13/2024
69350-11095

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240119

Nitrogen: 0.3447
CO2: 0.0043
Methane: 89.1193
Ethane: 6.4616
Propane: 2.5871
I-Butane: 0.4524
N-Butane: 0.5554
I-Pentane: 0.1562
N-Pentane: 0.0667
Hexane+: 0.2523

BTU: 1140.3
GPM: 18.1480
SPG: 0.6391



Well Name: GCU #124; CSG
 API #: 3004513076
 Source: CASING
 Sample Type: GAS
 Analysis No: SB20240120
 Cust No: 69350-11100

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #124; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004513076

Source: CASING
 Well Flowing: Y
 Pressure: 40 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 12.54 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0060	1.0049	0.1110	0.00	0.0097
CO2	0.8141	0.8132	0.1390	0.00	0.0124
Methane	77.8949	77.8087	13.2560	786.74	0.4315
Ethane	10.5810	10.5693	2.8410	187.25	0.1099
Propane	4.7337	4.7285	1.3090	119.10	0.0721
Iso-Butane	0.7730	0.7721	0.2540	25.14	0.0155
N-Butane	1.3828	1.3813	0.4380	45.11	0.0278
I-Pentane	0.5740	0.5734	0.2110	22.97	0.0143
N-Pentane	0.4300	0.4295	0.1560	17.24	0.0107
Hexane Plus	1.8105	1.8085	0.8110	95.43	0.0599
Total	100.0000	99.8894	19.5260	1298.98	0.7637

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
 BTU/CU.FT IDEAL: 1302.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1307.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1284.6
 DRY BTU @ 15.025: 1333.5
 REAL SPECIFIC GRAVITY: 0.7665

CYLINDER #: 2068
 CYLINDER PRESSURE: 32 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 04:21:13 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 #124; CSG	CASING	12/13/2024
Stn. No.:	3004513076		69350-11100
Mtr. No.:			

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240120

Nitrogen: 1.0060
CO2: 0.8141
Methane: 77.8949
Ethane: 10.5810
Propane: 4.7337
I-Butane: 0.7730
N-Butane: 1.3828
I-Pentane: 0.5740
N-Pentane: 0.4300
Hexane+: 1.8105

BTU: 1307.3
GPM: 19.5260
SPG: 0.7665



Well Name: GCU #124; TBG
 API #: 3004513076
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB20240121
 Cust No: 69350-11105

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU #124; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004513076

Source: TUBING
 Well Flowing: Y
 Pressure: 40 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/17/2024
 Sample Time: 12.58 PM
 Sampled By: HEATHER
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0708	1.0718	0.1180	0.00	0.0104
CO2	0.8142	0.8150	0.1390	0.00	0.0124
Methane	80.6540	80.7296	13.7160	814.61	0.4467
Ethane	10.4471	10.4569	2.8030	184.88	0.1085
Propane	4.2381	4.2421	1.1710	106.63	0.0645
Iso-Butane	0.6154	0.6160	0.2020	20.01	0.0123
N-Butane	0.9794	0.9803	0.3100	31.95	0.0197
I-Pentane	0.2966	0.2969	0.1090	11.87	0.0074
N-Pentane	0.1731	0.1733	0.0630	6.94	0.0043
Hexane Plus	0.7113	0.7120	0.3180	37.49	0.0235
Total	100.0000	100.0939	18.9490	1214.38	0.7097

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1217.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.0
 DRY BTU @ 15.025: 1245.8
 REAL SPECIFIC GRAVITY: 0.7118

CYLINDER #: 2118
 CYLINDER PRESSURE: 38 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 04:13:06 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 #124; TBG	TUBING	12/13/2024
Stn. No.:	3004513076		69350-11105
Mtr. No.:			

Smpl Date: 10/17/2024
Test Date: 10/24/2024
Run No: SB20240121

Nitrogen: 1.0708
CO2: 0.8142
Methane: 80.6540
Ethane: 10.4471
Propane: 4.2381
I-Butane: 0.6154
N-Butane: 0.9794
I-Pentane: 0.2966
N-Pentane: 0.1731
Hexane+: 0.7113

BTU: 1221.3
GPM: 18.9490
SPG: 0.7118

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 412053

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 412053
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	different gas bh and production casing	1/31/2025