



Well Name: GCU 222; BHD

API #: 3004511681

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240051

Cust No: 69350-10885

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD

Well Name: GCU 222; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: 3004511681

Source: BRADENHEAD

Well Flowing: N

Pressure: 36 PSIG

Flow Temp: DEG. F

Ambient Temp: 62 DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 08/15/2024

Sample Time: 9.30 AM

Sampled By: S.C

Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.2686	0.7463	0.2500	0.00	0.0219
CO2	0.0447	0.0147	0.0080	0.00	0.0007
Methane	83.0531	27.3221	14.1210	838.84	0.4600
Ethane	7.9475	2.6145	2.1320	140.65	0.0825
Propane	3.6110	1.1879	0.9980	90.86	0.0550
Iso-Butane	0.6612	0.2175	0.2170	21.50	0.0133
N-Butane	0.9408	0.3095	0.2970	30.69	0.0189
I-Pentane	0.3262	0.1073	0.1200	13.05	0.0081
N-Pentane	0.1426	0.0469	0.0520	5.72	0.0036
Hexane Plus	1.0043	0.3304	0.4490	52.94	0.0332
Total	100.0000	32.8971	18.6440	1194.24	0.6972

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1197.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1200.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1179.9
 DRY BTU @ 15.025: 1224.8
 REAL SPECIFIC GRAVITY: 0.6992

CYLINDER #: 031
 CYLINDER PRESSURE: 33 PSIG
 ANALYSIS DATE: 08/23/2024
 ANALYSIS TIME: 09:04:26 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: 08/29/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 222; BHD	BRADENHEAD	08/29/2024
Stn. No.:	3004511681		69350-10885
Mtr. No.:			

Smpl Date: 08/15/2024
Test Date: 08/23/2024
Run No: SB20240051

Nitrogen: 2.2686
CO2: 0.0447
Methane: 83.0531
Ethane: 7.9475
Propane: 3.6110
I-Butane: 0.6612
N-Butane: 0.9408
I-Pentane: 0.3262
N-Pentane: 0.1426
Hexane+: 1.0043

BTU: 1200.8
GPM: 18.6440
SPG: 0.6992



Well Name: GCU 222; CSG
 API #: 3004511681
 Source: CASING
 Sample Type: GAS
 Analysis No: SB20240052
 Cust No: 69350-10890

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 222; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004511681

Source: CASING
 Well Flowing: Y
 Pressure: 38 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 62 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2024
 Sample Time: 9.35 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3688	0.3558	0.0410	0.00	0.0036
CO2	0.9449	0.9116	0.1630	0.00	0.0144
Methane	54.3101	52.3984	9.2830	548.53	0.3008
Ethane	13.0740	12.6138	3.5250	231.37	0.1357
Propane	13.7145	13.2317	3.8090	345.07	0.2088
Iso-Butane	3.0364	2.9295	1.0020	98.74	0.0609
N-Butane	7.3551	7.0962	2.3380	239.95	0.1476
I-Pentane	2.9401	2.8366	1.0840	117.63	0.0732
N-Pentane	2.6188	2.5266	0.9570	104.98	0.0652
Hexane Plus	1.6373	1.5797	0.7360	86.30	0.0542
Total	100.0000	96.4799	22.9380	1772.57	1.0645

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0085
 BTU/CU.FT IDEAL: 1776.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1791.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1760.5
 DRY BTU @ 15.025: 1827.6
 REAL SPECIFIC GRAVITY: 1.0731

CYLINDER #: 1404
 CYLINDER PRESSURE: 35 PSIG
 ANALYSIS DATE: 08/23/2024
 ANALYSIS TIME: 09:11:57 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: 08/29/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 222; CSG	CASING	08/29/2024
Stn. No.:	3004511681		69350-10890
Mtr. No.:			

Smpl Date:	08/15/2024
Test Date:	08/23/2024
Run No:	SB20240052
Nitrogen:	0.3688
CO2:	0.9449
Methane:	54.3101
Ethane:	13.0740
Propane:	13.7145
I-Butane:	3.0364
N-Butane:	7.3551
I-Pentane:	2.9401
N-Pentane:	2.6188
Hexane+:	1.6373
BTU:	1791.7
GPM:	22.9380
SPG:	1.0731



Well Name: GCU 222; TBG
 API #: 3004511681
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB20240053
 Cust No: 69350-10895

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 222; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004511681

Source: TUBING
 Well Flowing: Y
 Pressure: 24 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 62 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2024
 Sample Time: 9.40 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4847	0.4866	0.0540	0.00	0.0047
CO2	1.1316	1.1360	0.1940	0.00	0.0172
Methane	76.9878	77.2881	13.1020	777.58	0.4264
Ethane	10.6918	10.7335	2.8700	189.21	0.1110
Propane	5.9022	5.9252	1.6320	148.51	0.0899
Iso-Butane	0.8987	0.9022	0.2950	29.22	0.0180
N-Butane	1.6918	1.6984	0.5350	55.19	0.0340
I-Pentane	0.5274	0.5295	0.1940	21.10	0.0131
N-Pentane	0.3765	0.3780	0.1370	15.09	0.0094
Hexane Plus	1.3075	1.3126	0.5850	68.92	0.0433
Total	100.0000	100.3901	19.5980	1304.82	0.7670

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
 BTU/CU.FT IDEAL: 1307.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1313.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1290.4
 DRY BTU @ 15.025: 1339.5
 REAL SPECIFIC GRAVITY: 0.7698

CYLINDER #: 3357
 CYLINDER PRESSURE: 22 PSIG
 ANALYSIS DATE: 08/23/2024
 ANALYSIS TIME: 09:21:25 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: 08/29/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 222; TBG	TUBING	08/29/2024
Stn. No.:	3004511681		69350-10895
Mtr. No.:			

Smpl Date:	08/15/2024
Test Date:	08/23/2024
Run No:	SB20240053
Nitrogen:	0.4847
CO2:	1.1316
Methane:	76.9878
Ethane:	10.6918
Propane:	5.9022
I-Butane:	0.8987
N-Butane:	1.6918
I-Pentane:	0.5274
N-Pentane:	0.3765
Hexane+:	1.3075
BTU:	1313.2
GPM:	19.5980
SPG:	0.7698

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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 379280

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 379280
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	gas does not appear to be similar	10/17/2024