



Well Name: GCU 102E; BHD

API #: 3004526253

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240066

Cust No: 69350-10310

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 102E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004526253

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 68 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 55 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/24/2024
 Sample Time: 7.50 AM
 Sampled By: S.C.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2901	0.2918	0.0320	0.00	0.0028
CO2	1.6135	1.6228	0.2760	0.00	0.0245
Methane	89.4672	89.9850	15.2030	903.62	0.4956
Ethane	6.2250	6.2610	1.6690	110.16	0.0646
Propane	1.3905	1.3985	0.3840	34.99	0.0212
Iso-Butane	0.3306	0.3325	0.1080	10.75	0.0066
N-Butane	0.3241	0.3260	0.1020	10.57	0.0065
I-Pentane	0.1228	0.1235	0.0450	4.91	0.0031
N-Pentane	0.0271	0.0273	0.0100	1.09	0.0007
Hexane Plus	0.2091	0.2103	0.0930	11.02	0.0069
Total	100.0000	100.5787	17.9220	1087.11	0.6325

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1089.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1092.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1073.5
 DRY BTU @ 15.025: 1114.4
 REAL SPECIFIC GRAVITY: 0.6339

CYLINDER #: 339
 CYLINDER PRESSURE: 67 PSIG
 ANALYSIS DATE: 09/25/2024
 ANALYSIS TIME: 11:19:19 AM
 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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 102E; BHD	BRADENHEAD	09/25/2024
Stn. No.:	3004526253		69350-10310
Mtr. No.:			

Smpl Date:	09/24/2024	05/07/2021
Test Date:	09/25/2024	05/14/2021
Run No:	SB20240066	SB2021063
Nitrogen:	0.2901	0.2252
CO2:	1.6135	1.7237
Methane:	89.4672	87.4585
Ethane:	6.2250	6.6484
Propane:	1.3905	2.3120
I-Butane:	0.3306	0.4997
N-Butane:	0.3241	0.6272
I-Pentane:	0.1228	0.2418
N-Pentane:	0.0271	0.0668
Hexane+:	0.2091	0.1967
BTU:	1092.5	1124.3
GPM:	17.9220	18.1700
SPG:	0.6339	0.6554



Well Name: GCU 102E; CSG

API #: 3004526253

Source: CASING

Sample Type: GAS

Analysis No: SB20240067

Cust No: 69350-10315

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 102E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004526253

Source: CASING
 Well Flowing: Y
 Pressure: 5 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 55 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/24/2024
 Sample Time: 7.55 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	0.3749	0.1419	0.0410	0.00	0.0036
CO2	1.2458	0.4715	0.2130	0.00	0.0189
Methane	86.6579	32.7978	14.7310	875.24	0.4800
Ethane	6.9312	2.6233	1.8590	122.66	0.0720
Propane	2.4844	0.9403	0.6860	62.51	0.0378
Iso-Butane	0.4198	0.1589	0.1380	13.65	0.0084
N-Butane	0.6753	0.2556	0.2130	22.03	0.0136
I-Pentane	0.2455	0.0929	0.0900	9.82	0.0061
N-Pentane	0.1078	0.0408	0.0390	4.32	0.0027
Hexane Plus	0.8574	0.3245	0.3830	45.19	0.0284
Total	100.0000	37.8475	18.3930	1155.44	0.6715

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1158.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1161.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1141.4
 DRY BTU @ 15.025: 1184.9
 REAL SPECIFIC GRAVITY: 0.6732

CYLINDER #: 1499
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 09/25/2024
 ANALYSIS TIME: 09:50:22 AM
 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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 102E; CSG
Stn. No.: 3004526253
Mtr. No.:

CASING

09/25/2024
69350-10315

Smpl Date:	09/24/2024	05/07/2021
Test Date:	09/25/2024	05/14/2021
Run No:	SB20240067	SB2021064
Nitrogen:	0.3749	0.4212
CO2:	1.2458	1.2587
Methane:	86.6579	85.9089
Ethane:	6.9312	7.0341
Propane:	2.4844	2.5446
I-Butane:	0.4198	0.4406
N-Butane:	0.6753	0.6902
I-Pentane:	0.2455	0.2749
N-Pentane:	0.1078	0.2185
Hexane+:	0.8574	1.2083
BTU:	1161.6	1183.0
GPM:	18.3930	18.5410
SPG:	0.6732	0.6877



Well Name: GCU 102E; TBG

API #: 3004526253

Source: TUBING

Sample Type: GAS

Analysis No: SB20240068

Cust No: 69350-10320

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 102E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004526253

Source: TUBING
 Well Flowing: Y
 Pressure: 5 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 55 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/24/2024
 Sample Time: 8.00 AM
 Sampled By: S.C.
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PREESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3747	0.1325	0.0410	0.00	0.0036
CO2	1.2261	0.4336	0.2100	0.00	0.0186
Methane	86.1255	30.4578	14.6440	869.87	0.4770
Ethane	6.9771	2.4674	1.8710	123.47	0.0724
Propane	2.5387	0.8978	0.7010	63.88	0.0387
Iso-Butane	0.4372	0.1546	0.1430	14.22	0.0088
N-Butane	0.7146	0.2527	0.2260	23.31	0.0143
I-Pentane	0.2717	0.0961	0.1000	10.87	0.0068
N-Pentane	0.1222	0.0432	0.0440	4.90	0.0030
Hexane Plus	1.2122	0.4287	0.5420	63.90	0.0401
Total	100.0000	35.3644	18.5220	1174.41	0.6834

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1177.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1180.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1160.4
 DRY BTU @ 15.025: 1204.6
 REAL SPECIFIC GRAVITY: 0.6854

CYLINDER #: 3351
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 09/25/2024
 ANALYSIS TIME: 11:30:38 AM
 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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 102E; TBG	TUBING	09/25/2024
Stn. No.:	3004526253		69350-10320
Mtr. No.:			

Smpl Date:	09/24/2024	05/07/2021
Test Date:	09/25/2024	05/14/2021
Run No:	SB20240068	SB2021065
Nitrogen:	0.3747	0.3809
CO2:	1.2261	1.2522
Methane:	86.1255	85.8841
Ethane:	6.9771	7.0575
Propane:	2.5387	2.5342
I-Butane:	0.4372	0.4411
N-Butane:	0.7146	0.6891
I-Pentane:	0.2717	0.2770
N-Pentane:	0.1222	0.2199
Hexane+:	1.2122	1.2640
BTU:	1180.9	1186.0
GPM:	18.5220	18.5620
SPG:	0.6854	0.6891

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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 395226

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 395226
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	gas appears to be same all strings - please submit bradenhead test through ocd permitting using UF-BHT	10/25/2024