



Well Name: GCU 102E; BHD

API #: 3004526253

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB2021063

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: Y
 Pressure: 57 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 78 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/07/2021
 Sample Time: 12.41 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2252	0.2218	0.0250	0.00	0.0022
CO2	1.7237	1.6974	0.2950	0.00	0.0262
Methane	87.4585	86.1240	14.8650	883.33	0.4844
Ethane	6.6484	6.5470	1.7830	117.66	0.0690
Propane	2.3120	2.2767	0.6390	58.17	0.0352
Iso-Butane	0.4997	0.4921	0.1640	16.25	0.0100
N-Butane	0.6272	0.6176	0.1980	20.46	0.0126
I-Pentane	0.2418	0.2381	0.0890	9.67	0.0060
N-Pentane	0.0668	0.0658	0.0240	2.68	0.0017
Hexane Plus	0.1967	0.1937	0.0880	10.37	0.0065
Total	100.0000	98.4742	18.1700	1118.59	0.6538

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1121.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1124.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1104.7
 DRY BTU @ 15.025: 1146.8
 REAL SPECIFIC GRAVITY: 0.6554

CYLINDER #: 26
 CYLINDER PRESSURE: 51 PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 03:12:58 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

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

BRADENHEAD

05/17/2021
69350-10310

Smpl Date: 05/07/2021
Test Date: 05/14/2021
Run No: SB2021063

Nitrogen: 0.2252
CO2: 1.7237
Methane: 87.4585
Ethane: 6.6484
Propane: 2.3120
I-Butane: 0.4997
N-Butane: 0.6272
I-Pentane: 0.2418
N-Pentane: 0.0668
Hexane+: 0.1967

BTU: 1124.3
GPM: 18.1700
SPG: 0.6554



Well Name: GCU 102E; CSG
 API #: 3004526253
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021064
 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: 12 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 78 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/07/2021
 Sample Time: 12.38 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4212	0.2384	0.0460	0.00	0.0041
CO2	1.2587	0.7125	0.2150	0.00	0.0191
Methane	85.9089	48.6302	14.6070	867.68	0.4758
Ethane	7.0341	3.9818	1.8870	124.48	0.0730
Propane	2.5446	1.4404	0.7030	64.02	0.0387
Iso-Butane	0.4406	0.2494	0.1450	14.33	0.0088
N-Butane	0.6902	0.3907	0.2180	22.52	0.0139
I-Pentane	0.2749	0.1556	0.1010	11.00	0.0068
N-Pentane	0.2185	0.1237	0.0790	8.76	0.0054
Hexane Plus	1.2083	0.6840	0.5400	63.69	0.0400
Total	100.0000	56.6067	18.5410	1176.48	0.6858

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1179.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1183.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1162.4
 DRY BTU @ 15.025: 1206.7
 REAL SPECIFIC GRAVITY: 0.6877

CYLINDER #: 100
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 04:23:35 PM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

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

CASING

05/17/2021
69350-10315

Smpl Date: 05/07/2021
Test Date: 05/14/2021
Run No: SB2021064

Nitrogen: 0.4212
CO2: 1.2587
Methane: 85.9089
Ethane: 7.0341
Propane: 2.5446
I-Butane: 0.4406
N-Butane: 0.6902
I-Pentane: 0.2749
N-Pentane: 0.2185
Hexane+: 1.2083

BTU: 1183.0
GPM: 18.5410
SPG: 0.6877



Well Name: GCU 102E; TBG

API #: 3004526253

Source: TUBING

Sample Type: GAS

Analysis No: SB2021065

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: 12 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 76 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/07/2021
 Sample Time: 12.35 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3809	0.2181	0.0420	0.00	0.0037
CO2	1.2522	0.7170	0.2140	0.00	0.0190
Methane	85.8841	49.1778	14.6030	867.43	0.4757
Ethane	7.0575	4.0412	1.8930	124.90	0.0733
Propane	2.5342	1.4511	0.7000	63.76	0.0386
Iso-Butane	0.4411	0.2526	0.1450	14.34	0.0089
N-Butane	0.6891	0.3946	0.2180	22.48	0.0138
I-Pentane	0.2770	0.1586	0.1020	11.08	0.0069
N-Pentane	0.2199	0.1259	0.0800	8.82	0.0055
Hexane Plus	1.2640	0.7238	0.5650	66.63	0.0418
Total	100.0000	57.2607	18.5620	1179.44	0.6872

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1182.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1186.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1165.4
 DRY BTU @ 15.025: 1209.8
 REAL SPECIFIC GRAVITY: 0.6891

CYLINDER #: 058
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 04:36:01 PM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

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

TUBING

05/17/2021
69350-10320

Smpl Date: 05/07/2021
Test Date: 05/14/2021
Run No: SB2021065

Nitrogen: 0.3809
CO2: 1.2522
Methane: 85.8841
Ethane: 7.0575
Propane: 2.5342
I-Butane: 0.4411
N-Butane: 0.6891
I-Pentane: 0.2770
N-Pentane: 0.2199
Hexane+: 1.2640

BTU: 1186.0
GPM: 18.5620
SPG: 0.6891

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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 30401

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30401
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/14/2021