



Well Name: GCU 138E; BHD
 API #: API # 3004526155
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021042
 Cust No: 69350-10215

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 138E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004526155

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 40 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 46 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 10.35 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.5394	1.5305	0.1700	0.00	0.0149
CO2	0.0149	0.0148	0.0030	0.00	0.0002
Methane	89.0386	88.5252	15.1300	899.29	0.4932
Ethane	5.9971	5.9625	1.6080	106.13	0.0623
Propane	2.1732	2.1607	0.6000	54.68	0.0331
Iso-Butane	0.4122	0.4098	0.1350	13.40	0.0083
N-Butane	0.4385	0.4360	0.1390	14.31	0.0088
I-Pentane	0.1493	0.1484	0.0550	5.97	0.0037
N-Pentane	0.0911	0.0906	0.0330	3.65	0.0023
Hexane Plus	0.1457	0.1449	0.0650	7.68	0.0048
Total	100.0000	99.4234	17.9380	1105.12	0.6315

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1107.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1110.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1091.3
 DRY BTU @ 15.025: 1132.8
 REAL SPECIFIC GRAVITY: 0.6329

CYLINDER #: 237
 CYLINDER PRESSURE: 40 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 09:32:53 AM
 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: 05/05/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 138E; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004526155		69350-10215
Mtr. No.:			

Smpl Date: 04/27/2021
Test Date: 05/04/2021
Run No: SB2021042

Nitrogen: 1.5394
CO2: 0.0149
Methane: 89.0386
Ethane: 5.9971
Propane: 2.1732
I-Butane: 0.4122
N-Butane: 0.4385
I-Pentane: 0.1493
N-Pentane: 0.0911
Hexane+: 0.1457

BTU: 1110.6
GPM: 17.9380
SPG: 0.6329



Well Name: GCU 138E; CSG
 API #: API # 3004526155
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021043
 Cust No: 69350-10210

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 138E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004526155

Source: CASING
 Well Flowing: Y
 Pressure: 63 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 46 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 10.40 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8268	0.8153	0.0910	0.00	0.0080
CO2	1.1030	1.0877	0.1890	0.00	0.0168
Methane	74.2515	73.2226	12.6400	749.94	0.4113
Ethane	11.8684	11.7039	3.1870	210.04	0.1232
Propane	6.2571	6.1704	1.7310	157.43	0.0953
Iso-Butane	0.9182	0.9055	0.3020	29.86	0.0184
N-Butane	2.0694	2.0407	0.6550	67.51	0.0415
I-Pentane	0.7088	0.6990	0.2600	28.36	0.0177
N-Pentane	0.7184	0.7084	0.2610	28.80	0.0179
Hexane Plus	1.2784	1.2607	0.5720	67.39	0.0423
Total	100.0000	98.6142	19.8880	1339.32	0.7923

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
 BTU/CU.FT IDEAL: 1342.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1348.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1324.9
 DRY BTU @ 15.025: 1375.4
 REAL SPECIFIC GRAVITY: 0.7955

CYLINDER #: 2584
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 09:49:42 AM
 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: 05/05/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 138E; CSG	CASING	05/05/2021
Stn. No.:	API # 3004526155		69350-10210
Mtr. No.:			

Smpl Date: 04/27/2021
Test Date: 05/04/2021
Run No: SB2021043

Nitrogen: 0.8268
CO2: 1.1030
Methane: 74.2515
Ethane: 11.8684
Propane: 6.2571
I-Butane: 0.9182
N-Butane: 2.0694
I-Pentane: 0.7088
N-Pentane: 0.7184
Hexane+: 1.2784

BTU: 1348.4
GPM: 19.8880
SPG: 0.7955



Well Name: GCU 138E; TBG
 API #: API # 3004526155
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021044
 Cust No: 69350-10205

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 138E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004526155

Source: TUBING
 Well Flowing: Y
 Pressure: 41 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 46 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/27/2021
 Sample Time: 10.40 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	7.0262	6.8771	0.7760	0.00	0.0680
CO2	1.2894	1.2620	0.2210	0.00	0.0196
Methane	74.1812	72.6068	12.6170	749.23	0.4109
Ethane	9.2807	9.0837	2.4900	164.24	0.0964
Propane	4.1452	4.0572	1.1460	104.30	0.0631
Iso-Butane	0.7184	0.7032	0.2360	23.36	0.0144
N-Butane	1.2696	1.2427	0.4020	41.42	0.0255
I-Pentane	0.4608	0.4510	0.1690	18.44	0.0115
N-Pentane	0.3965	0.3881	0.1440	15.89	0.0099
Hexane Plus	1.2320	1.2059	0.5510	64.94	0.0408
Total	100.0000	97.8777	18.7520	1181.82	0.7599

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1184.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1188.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1168.0
 DRY BTU @ 15.025: 1212.5
 REAL SPECIFIC GRAVITY: 0.7623

CYLINDER #: 1461
 CYLINDER PRESSURE: 36 PSIG
 ANALYSIS DATE: 05/04/2021
 ANALYSIS TIME: 10:03:28 AM
 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: 05/05/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 138E; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004526155		69350-10205
Mtr. No.:			

Smpl Date: 04/27/2021
Test Date: 05/04/2021
Run No: SB2021044

Nitrogen: 7.0262
CO2: 1.2894
Methane: 74.1812
Ethane: 9.2807
Propane: 4.1452
I-Butane: 0.7184
N-Butane: 1.2696
I-Pentane: 0.4608
N-Pentane: 0.3965
Hexane+: 1.2320

BTU: 1188.7
GPM: 18.7520
SPG: 0.7623

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 30330

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30330
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/18/2021