



Well Name: GCU 110E; BHD
 API #: 3004523905
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021066
 Cust No: 69350-10325

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 110E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: 3004523905

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 70 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 11.06 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.4559	0.6009	0.2710	0.00	0.0238
CO2	0.0875	0.0214	0.0150	0.00	0.0013
Methane	86.5777	21.1836	14.7160	874.43	0.4796
Ethane	5.5825	1.3659	1.4970	98.79	0.0580
Propane	2.6901	0.6582	0.7430	67.69	0.0410
Iso-Butane	0.6535	0.1599	0.2140	21.25	0.0131
N-Butane	0.9372	0.2293	0.2960	30.57	0.0188
I-Pentane	0.3511	0.0859	0.1290	14.05	0.0087
N-Pentane	0.1332	0.0326	0.0480	5.34	0.0033
Hexane Plus	0.5313	0.1300	0.2380	28.01	0.0176
Total	100.0000	24.4677	18.1670	1140.13	0.6651

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1142.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1146.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1126.2
 DRY BTU @ 15.025: 1169.1
 REAL SPECIFIC GRAVITY: 0.6668

CYLINDER #: 513
 CYLINDER PRESSURE: 67 PSIG
 ANALYSIS DATE: 05/13/2021
 ANALYSIS TIME: 11:28:30 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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 110E; BHD
Stn. No.: 3004523905
Mtr. No.:

BRADENHEAD

05/17/2021
69350-10325

Smpl Date: 05/06/2021
Test Date: 05/13/2021
Run No: SB2021066

Nitrogen: 2.4559
CO2: 0.0875
Methane: 86.5777
Ethane: 5.5825
Propane: 2.6901
I-Butane: 0.6535
N-Butane: 0.9372
I-Pentane: 0.3511
N-Pentane: 0.1332
Hexane+: 0.5313

BTU: 1146.1
GPM: 18.1670
SPG: 0.6668



Well Name: GCU 110E; CSG
 API #: 3004523905
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021067
 Cust No: 69350-10330

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 110E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: 3004523905

Source: CASING
 Well Flowing: Y
 Pressure: 50 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 11.03 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3969	0.3913	0.0440	0.00	0.0038
CO2	0.9731	0.9594	0.1670	0.00	0.0148
Methane	73.7919	72.7530	12.5670	745.30	0.4087
Ethane	10.8493	10.6966	2.9150	192.00	0.1126
Propane	6.8607	6.7641	1.8990	172.62	0.1045
Iso-Butane	1.1930	1.1762	0.3920	38.80	0.0239
N-Butane	2.3753	2.3419	0.7520	77.49	0.0477
I-Pentane	0.8268	0.8152	0.3040	33.08	0.0206
N-Pentane	0.7804	0.7694	0.2840	31.28	0.0194
Hexane Plus	1.9526	1.9251	0.8750	102.92	0.0646
Total	100.0000	98.5922	20.1990	1393.49	0.8207

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0048
 BTU/CU.FT IDEAL: 1396.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1403.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1379.1
 DRY BTU @ 15.025: 1431.6
 REAL SPECIFIC GRAVITY: 0.8243

CYLINDER #: 4141
 CYLINDER PRESSURE: 46 PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 01:55:35 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 110E; CSG
Stn. No.: 3004523905
Mtr. No.:

CASING

05/17/2021
69350-10330

Smpl Date: 05/06/2021
Test Date: 05/14/2021
Run No: SB2021067

Nitrogen: 0.3969
CO2: 0.9731
Methane: 73.7919
Ethane: 10.8493
Propane: 6.8607
I-Butane: 1.1930
N-Butane: 2.3753
I-Pentane: 0.8268
N-Pentane: 0.7804
Hexane+: 1.9526

BTU: 1403.5
GPM: 20.1990
SPG: 0.8243



Well Name: GCU 110E; TBG

API #: 3004523905

Source: TUBING

Sample Type: GAS

Analysis No: SB2021068

Cust No: 69350-10335

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 110E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: 3004523905

Source: TUBING
 Well Flowing: Y
 Pressure: 50 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 11.00 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4828	0.4759	0.0530	0.00	0.0047
CO2	1.3575	1.3381	0.2330	0.00	0.0206
Methane	78.0033	76.8863	13.2730	787.83	0.4321
Ethane	10.0386	9.8948	2.6950	177.65	0.1042
Propane	5.4580	5.3798	1.5090	137.33	0.0831
Iso-Butane	0.8494	0.8372	0.2790	27.62	0.0170
N-Butane	1.7342	1.7094	0.5490	56.57	0.0348
I-Pentane	0.4875	0.4805	0.1790	19.50	0.0121
N-Pentane	0.4236	0.4175	0.1540	16.98	0.0106
Hexane Plus	1.1651	1.1484	0.5220	61.41	0.0386
Total	100.0000	98.5679	19.4460	1284.91	0.7578

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1287.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1293.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1270.6
 DRY BTU @ 15.025: 1319.0
 REAL SPECIFIC GRAVITY: 0.7605

CYLINDER #: 030
 CYLINDER PRESSURE: 44 PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 01:42:27 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 110E; TBG	TUBING	05/17/2021
Stn. No.:	3004523905		69350-10335
Mtr. No.:			

Smpl Date: 05/06/2021
Test Date: 05/14/2021
Run No: SB2021068

Nitrogen: 0.4828
CO2: 1.3575
Methane: 78.0033
Ethane: 10.0386
Propane: 5.4580
I-Butane: 0.8494
N-Butane: 1.7342
I-Pentane: 0.4875
N-Pentane: 0.4236
Hexane+: 1.1651

BTU: 1293.1
GPM: 19.4460
SPG: 0.7605

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 30432

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30432
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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