



Well Name: GCU 77; BHD
 API #: 3004508235
 Source: BRADENHEAD
 Sample Type: GAS

Analysis No: SB2021060
 Cust No: 69350-10295

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF078949
 Formation:
 Cust. Stn. No.: 3004508235

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 55 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 77 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 3.20 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3457	0.3382	0.0380	0.00	0.0033
CO2	0.0198	0.0194	0.0030	0.00	0.0003
Methane	85.7783	83.9092	14.5820	866.36	0.4751
Ethane	8.3762	8.1937	2.2460	148.23	0.0870
Propane	3.4045	3.3303	0.9410	85.66	0.0518
Iso-Butane	0.5340	0.5224	0.1750	17.37	0.0107
N-Butane	0.8242	0.8062	0.2610	26.89	0.0165
I-Pentane	0.2355	0.2304	0.0860	9.42	0.0059
N-Pentane	0.1595	0.1560	0.0580	6.39	0.0040
Hexane Plus	0.3223	0.3153	0.1440	16.99	0.0107
Total	100.0000	97.8211	18.5340	1177.31	0.6653

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1180.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1183.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1163.0
 DRY BTU @ 15.025: 1207.3
 REAL SPECIFIC GRAVITY: 0.6671

CYLINDER #: 012
 CYLINDER PRESSURE: 44 PSIG
 ANALYSIS DATE: 05/14/2021
 ANALYSIS TIME: 11:01:47 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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 77; BHD
Stn. No.: 3004508235
Mtr. No.:

BRADENHEAD

05/17/2021
69350-10295

Smpl Date: 05/06/2021
Test Date: 05/14/2021
Run No: SB2021060

Nitrogen: 0.3457
CO2: 0.0198
Methane: 85.7783
Ethane: 8.3762
Propane: 3.4045
I-Butane: 0.5340
N-Butane: 0.8242
I-Pentane: 0.2355
N-Pentane: 0.1595
Hexane+: 0.3223

BTU: 1183.6
GPM: 18.5340
SPG: 0.6671



Well Name: GCU 77; CSG

API #: 3004508235

Source: CASING

Sample Type: GAS

Analysis No: SB2021061

Cust No: 69350-10300

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF078949
 Formation:
 Cust. Stn. No.: 3004508235

Source: CASING
 Well Flowing: Y
 Pressure: 10 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 77 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 3.17 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	0.2561	0.1042	0.0280	0.00	0.0025
CO2	0.1052	0.0428	0.0180	0.00	0.0016
Methane	87.9118	35.7666	14.9480	887.91	0.4869
Ethane	5.8887	2.3958	1.5790	104.21	0.0611
Propane	2.5722	1.0465	0.7110	64.72	0.0392
Iso-Butane	0.5068	0.2062	0.1660	16.48	0.0102
N-Butane	0.7929	0.3226	0.2510	25.87	0.0159
I-Pentane	0.3512	0.1429	0.1290	14.05	0.0087
N-Pentane	0.2809	0.1143	0.1020	11.26	0.0070
Hexane Plus	1.3342	0.5428	0.5970	70.33	0.0442
Total	100.0000	40.6847	18.5290	1194.83	0.6773

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1197.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1201.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1180.5
 DRY BTU @ 15.025: 1225.5
 REAL SPECIFIC GRAVITY: 0.6792

CYLINDER #: 039
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 05/13/2021
 ANALYSIS TIME: 12:41:15 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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 77; CSG
Stn. No.: 3004508235
Mtr. No.:

CASING

05/17/2021
69350-10300

Smpl Date: 05/06/2021
Test Date: 05/13/2021
Run No: SB2021061

Nitrogen: 0.2561
CO2: 0.1052
Methane: 87.9118
Ethane: 5.8887
Propane: 2.5722
I-Butane: 0.5068
N-Butane: 0.7929
I-Pentane: 0.3512
N-Pentane: 0.2809
Hexane+: 1.3342

BTU: 1201.4
GPM: 18.5290
SPG: 0.6792



Well Name: GCU 77; TBG

API #: 3004508235

Source: TUBING

Sample Type: GAS

Analysis No: SB2021062

Cust No: 69350-10305

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 77; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF078949
 Formation:
 Cust. Stn. No.: 3004508235

Source: TUBING
 Well Flowing: Y
 Pressure: 10 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 77 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/06/2021
 Sample Time: 3.14 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	79.1311	34.9886	8.7100	0.00	0.7654
CO2	0.0303	0.0134	0.0050	0.00	0.0005
Methane	17.6833	7.8189	2.9990	178.60	0.0979
Ethane	1.1828	0.5230	0.3160	20.93	0.0123
Propane	0.5487	0.2426	0.1510	13.81	0.0084
Iso-Butane	0.1167	0.0516	0.0380	3.79	0.0023
N-Butane	0.2013	0.0890	0.0630	6.57	0.0040
I-Pentane	0.1077	0.0476	0.0390	4.31	0.0027
N-Pentane	0.0975	0.0431	0.0350	3.91	0.0024
Hexane Plus	0.9006	0.3982	0.4020	47.47	0.0298
Total	100.0000	44.2160	12.7580	279.39	0.9257

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0007
 BTU/CU.FT IDEAL: 280.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 280.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 275.3
 DRY BTU @ 15.025: 285.8
 REAL SPECIFIC GRAVITY: 0.926

CYLINDER #: 2003
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 05/13/2021
 ANALYSIS TIME: 01:03:16 PM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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 77; TBG
Stn. No.: 3004508235
Mtr. No.:

TUBING

05/17/2021
69350-10305

Smpl Date: 05/06/2021
Test Date: 05/13/2021
Run No: SB2021062

Nitrogen: 79.1311
CO2: 0.0303
Methane: 17.6833
Ethane: 1.1828
Propane: 0.5487
I-Butane: 0.1167
N-Butane: 0.2013
I-Pentane: 0.1077
N-Pentane: 0.0975
Hexane+: 0.9006

BTU: 280.2
GPM: 12.7580
SPG: 0.9260

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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 30395

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30395
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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