



Well Name: GCU 145; BHD
 API #: API # 3004507909
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021048
 Cust No: 69350-10235

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004507909

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 36 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 11.21 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5354	0.5214	0.0590	0.00	0.0052
CO2	0.0062	0.0060	0.0010	0.00	0.0001
Methane	90.8004	88.4321	15.4300	917.08	0.5029
Ethane	5.4513	5.3091	1.4610	96.47	0.0566
Propane	1.9504	1.8995	0.5390	49.07	0.0297
Iso-Butane	0.3428	0.3339	0.1120	11.15	0.0069
N-Butane	0.3978	0.3874	0.1260	12.98	0.0080
I-Pentane	0.1478	0.1439	0.0540	5.91	0.0037
N-Pentane	0.0994	0.0968	0.0360	3.98	0.0025
Hexane Plus	0.2685	0.2615	0.1200	14.15	0.0089
Total	100.0000	97.3916	17.9380	1110.81	0.6244

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1113.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1116.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1096.9
 DRY BTU @ 15.025: 1138.7
 REAL SPECIFIC GRAVITY: 0.6258

CYLINDER #: 102
 CYLINDER PRESSURE: 36 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 04:07:27 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 145; BHD	BRADENHEAD	05/17/2021
Stn. No.:	API # 3004507909		69350-10235
Mtr. No.:			

Smpl Date: 04/30/2021
Test Date: 05/10/2021
Run No: SB2021048

Nitrogen: 0.5354
CO2: 0.0062
Methane: 90.8004
Ethane: 5.4513
Propane: 1.9504
I-Butane: 0.3428
N-Butane: 0.3978
I-Pentane: 0.1478
N-Pentane: 0.0994
Hexane+: 0.2685

BTU: 1116.3
GPM: 17.9380
SPG: 0.6258



Well Name: GCU 145; CSG
 API #: API # 3004507909
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021049
 Cust No: 69350-10240

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004507909

Source: CASING
 Well Flowing: Y
 Pressure: 100 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 11.30 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3203	0.3147	0.0350	0.00	0.0031
CO2	1.7431	1.7124	0.2980	0.00	0.0265
Methane	81.4025	79.9673	13.8450	822.17	0.4509
Ethane	9.3963	9.2306	2.5210	166.29	0.0976
Propane	3.7148	3.6493	1.0270	93.47	0.0566
Iso-Butane	0.6664	0.6547	0.2190	21.67	0.0134
N-Butane	1.0820	1.0629	0.3420	35.30	0.0217
I-Pentane	0.4716	0.4633	0.1730	18.87	0.0117
N-Pentane	0.3822	0.3755	0.1390	15.32	0.0095
Hexane Plus	0.8208	0.8063	0.3670	43.26	0.0272
Total	100.0000	98.2370	18.9660	1216.34	0.7181

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1219.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1223.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1202.1
 DRY BTU @ 15.025: 1247.9
 REAL SPECIFIC GRAVITY: 0.7203

CYLINDER #: 019
 CYLINDER PRESSURE: 96 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 01:13:26 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 145; CSG	CASING	05/17/2021
Stn. No.:	API # 3004507909		69350-10240
Mtr. No.:			

Smpl Date: 04/30/2021
Test Date: 05/10/2021
Run No: SB2021049

Nitrogen: 0.3203
CO2: 1.7431
Methane: 81.4025
Ethane: 9.3963
Propane: 3.7148
I-Butane: 0.6664
N-Butane: 1.0820
I-Pentane: 0.4716
N-Pentane: 0.3822
Hexane+: 0.8208

BTU: 1223.4
GPM: 18.9660
SPG: 0.7203



Well Name: GCU 145; TBG
 API #: API # 3004507909
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021050
 Cust No: 69350-10245

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004507909

Source: TUBING
 Well Flowing: Y
 Pressure: 100 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 11.25 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3222	0.3159	0.0360	0.00	0.0031
CO2	1.7403	1.7065	0.2980	0.00	0.0264
Methane	81.5878	80.0023	13.8760	824.04	0.4519
Ethane	9.2755	9.0952	2.4890	164.15	0.0963
Propane	3.6651	3.5939	1.0130	92.22	0.0558
Iso-Butane	0.6669	0.6539	0.2190	21.69	0.0134
N-Butane	1.0827	1.0617	0.3420	35.32	0.0217
I-Pentane	0.4730	0.4638	0.1740	18.92	0.0118
N-Pentane	0.3857	0.3782	0.1400	15.46	0.0096
Hexane Plus	0.8008	0.7852	0.3580	42.21	0.0265
Total	100.0000	98.0566	18.9450	1214.01	0.7166

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1216.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1199.9
 DRY BTU @ 15.025: 1245.6
 REAL SPECIFIC GRAVITY: 0.7188

CYLINDER #: 11
 CYLINDER PRESSURE: 98 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 03:54:20 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 145; TBG	TUBING	05/17/2021
Stn. No.:	API # 3004507909		69350-10245
Mtr. No.:			

Smpl Date: 04/30/2021
Test Date: 05/10/2021
Run No: SB2021050

Nitrogen: 0.3222
CO2: 1.7403
Methane: 81.5878
Ethane: 9.2755
Propane: 3.6651
I-Butane: 0.6669
N-Butane: 1.0827
I-Pentane: 0.4730
N-Pentane: 0.3857
Hexane+: 0.8008

BTU: 1221.1
GPM: 18.9450
SPG: 0.7188

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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 30347

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30347
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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