



Well Name: CORNELL A 1; BHD
 API #: 3004508601
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021092
 Cust No: 69350-10455

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL A 1; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508601

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 27 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 4.22 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4542	0.4444	0.0500	0.00	0.0044
CO2	0.2795	0.2734	0.0480	0.00	0.0042
Methane	86.6158	84.7377	14.7240	874.82	0.4798
Ethane	7.4597	7.2980	2.0000	132.01	0.0774
Propane	2.9800	2.9154	0.8230	74.98	0.0454
Iso-Butane	0.5061	0.4951	0.1660	16.46	0.0102
N-Butane	0.7729	0.7561	0.2440	25.21	0.0155
I-Pentane	0.2690	0.2632	0.0990	10.76	0.0067
N-Pentane	0.1989	0.1946	0.0720	7.97	0.0050
Hexane Plus	0.4639	0.4538	0.2070	24.45	0.0154
Total	100.0000	97.8317	18.4330	1166.67	0.6639

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1169.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1172.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1152.5
 DRY BTU @ 15.025: 1196.4
 REAL SPECIFIC GRAVITY: 0.6656

CYLINDER #: 047
 CYLINDER PRESSURE: 256 PSIG
 ANALYSIS DATE: 05/24/2021
 ANALYSIS TIME: 04:19:37 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: 06/02/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	CORNELL A 1; BHD	BRADENHEAD	06/02/2021
Stn. No.:	3004508601		69350-10455
Mtr. No.:			

Smpl Date:	05/18/2021
Test Date:	05/24/2021
Run No:	SB2021092
Nitrogen:	0.4542
CO2:	0.2795
Methane:	86.6158
Ethane:	7.4597
Propane:	2.9800
I-Butane:	0.5061
N-Butane:	0.7729
I-Pentane:	0.2690
N-Pentane:	0.1989
Hexane+:	0.4639
BTU:	1172.9
GPM:	18.4330
SPG:	0.6656



Well Name: CORNELL A 1; CSG

API #: 3004508601

Source: CASING

Sample Type: GAS

Analysis No: SB2021093

Cust No: 69350-10460

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL A 1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508601

Source: CASING
 Well Flowing: Y
 Pressure: 137 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 4.20 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6277	0.6211	0.0690	0.00	0.0061
CO2	0.3738	0.3699	0.0640	0.00	0.0057
Methane	78.1702	77.3545	13.3020	789.52	0.4330
Ethane	9.3189	9.2216	2.5020	164.92	0.0967
Propane	6.0738	6.0104	1.6800	152.82	0.0925
Iso-Butane	1.3613	1.3471	0.4470	44.27	0.0273
N-Butane	1.8450	1.8257	0.5840	60.19	0.0370
I-Pentane	0.7493	0.7415	0.2750	29.98	0.0187
N-Pentane	0.6659	0.6590	0.2420	26.69	0.0166
Hexane Plus	0.8141	0.8056	0.3640	42.91	0.0269
Total	100.0000	98.9564	19.5290	1311.30	0.7605

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1314.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1319.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1296.6
 DRY BTU @ 15.025: 1346.0
 REAL SPECIFIC GRAVITY: 0.7632

CYLINDER #: 28
 CYLINDER PRESSURE: 133 PSIG
 ANALYSIS DATE: 05/24/2021
 ANALYSIS TIME: 04:30:39 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: 06/02/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	CORNELL A 1; CSG	CASING	06/02/2021
Stn. No.:	3004508601		69350-10460
Mtr. No.:			

Smpl Date: 05/18/2021
Test Date: 05/24/2021
Run No: SB2021093

Nitrogen: 0.6277
CO2: 0.3738
Methane: 78.1702
Ethane: 9.3189
Propane: 6.0738
I-Butane: 1.3613
N-Butane: 1.8450
I-Pentane: 0.7493
N-Pentane: 0.6659
Hexane+: 0.8141

BTU: 1319.6
GPM: 19.5290
SPG: 0.7632



Well Name: CORNELL A 1; TBG

API #: 3004508601

Source: TUBING

Sample Type: GAS

Analysis No: SB2021094

Cust No: 69350-10465

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL A 1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004508601

Source: TUBING
 Well Flowing: Y
 Pressure: 135 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 68 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 4.17 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7733	0.7694	0.0850	0.00	0.0075
CO2	1.4661	1.4587	0.2510	0.00	0.0223
Methane	76.2940	75.9102	12.9810	770.57	0.4226
Ethane	11.8373	11.7778	3.1770	209.48	0.1229
Propane	5.8322	5.8029	1.6130	146.74	0.0888
Iso-Butane	0.8200	0.8159	0.2690	26.67	0.0165
N-Butane	1.5506	1.5428	0.4910	50.59	0.0311
I-Pentane	0.4052	0.4032	0.1490	16.21	0.0101
N-Pentane	0.3574	0.3556	0.1300	14.33	0.0089
Hexane Plus	0.6639	0.6606	0.2970	34.99	0.0220
Total	100.0000	99.4971	19.4430	1269.58	0.7526

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1272.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1277.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1255.2
 DRY BTU @ 15.025: 1303.0
 REAL SPECIFIC GRAVITY: 0.7552

CYLINDER #: 2003
 CYLINDER PRESSURE: 129 PSIG
 ANALYSIS DATE: 05/25/2021
 ANALYSIS TIME: 03:28:48 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: 06/02/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	CORNELL A 1; TBG	TUBING	06/02/2021
Stn. No.:	3004508601		69350-10465
Mtr. No.:			

Smpl Date: 05/18/2021
Test Date: 05/25/2021
Run No: SB2021094

Nitrogen: 0.7733
CO2: 1.4661
Methane: 76.2940
Ethane: 11.8373
Propane: 5.8322
I-Butane: 0.8200
N-Butane: 1.5506
I-Pentane: 0.4052
N-Pentane: 0.3574
Hexane+: 0.6639

BTU: 1277.4
GPM: 19.4430
SPG: 0.7552

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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 31839

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 31839
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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