



Well Name: CORNELL E 1E; BHD
 API #: 3004524283
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021095
 Cust No: 69350-10470

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL E 1E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524283

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 46 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 12.48 PM
 Sampled By: CELIA L
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2846	0.2759	0.0310	0.00	0.0028
CO2	0.0033	0.0032	0.0010	0.00	0.0001
Methane	87.5247	84.8399	14.8770	884.00	0.4848
Ethane	7.2950	7.0712	1.9560	129.10	0.0757
Propane	2.9746	2.8834	0.8220	74.84	0.0453
Iso-Butane	0.4934	0.4783	0.1620	16.04	0.0099
N-Butane	0.7062	0.6845	0.2230	23.04	0.0142
I-Pentane	0.2203	0.2135	0.0810	8.81	0.0055
N-Pentane	0.1562	0.1514	0.0570	6.26	0.0039
Hexane Plus	0.3417	0.3312	0.1530	18.01	0.0113
Total	100.0000	96.9325	18.3630	1160.11	0.6534

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1162.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1166.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1145.9
 DRY BTU @ 15.025: 1189.6
 REAL SPECIFIC GRAVITY: 0.655

CYLINDER #: 60
 CYLINDER PRESSURE: 43 PSIG
 ANALYSIS DATE: 05/25/2021
 ANALYSIS TIME: 03:12:45 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 E 1E; BHD
Stn. No.: 3004524283
Mtr. No.:

BRADENHEAD

06/02/2021
69350-10470

Smpl Date: 05/18/2021
Test Date: 05/25/2021
Run No: SB2021095

Nitrogen: 0.2846
CO2: 0.0033
Methane: 87.5247
Ethane: 7.2950
Propane: 2.9746
I-Butane: 0.4934
N-Butane: 0.7062
I-Pentane: 0.2203
N-Pentane: 0.1562
Hexane+: 0.3417

BTU: 1166.2
GPM: 18.3630
SPG: 0.6550



Well Name: CORNELL E 1E; CSG

API #: 3004524283

Source: CASING

Sample Type: GAS

Analysis No: SB2021096

Cust No: 69350-10475

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL E 1E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524283

Source: CASING
 Well Flowing: Y
 Pressure: 135 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 12.43 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4295	0.4016	0.0470	0.00	0.0042
CO2	1.6872	1.5776	0.2890	0.00	0.0256
Methane	75.4435	70.5407	12.8430	761.98	0.4179
Ethane	10.1534	9.4936	2.7270	179.68	0.1054
Propane	5.5763	5.2139	1.5430	140.31	0.0849
Iso-Butane	1.0650	0.9958	0.3500	34.63	0.0214
N-Butane	2.6195	2.4493	0.8290	85.46	0.0526
I-Pentane	1.1757	1.0993	0.4320	47.04	0.0293
N-Pentane	1.1500	1.0753	0.4190	46.10	0.0286
Hexane Plus	0.6999	0.6544	0.3130	36.89	0.0232
Total	100.0000	93.5015	19.7920	1332.09	0.7930

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
 BTU/CU.FT IDEAL: 1335.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1340.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1317.6
 DRY BTU @ 15.025: 1367.8
 REAL SPECIFIC GRAVITY: 0.7961

CYLINDER #: 029
 CYLINDER PRESSURE: 131 PSIG
 ANALYSIS DATE: 05/25/2021
 ANALYSIS TIME: 03:42:20 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: 06/02/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: CORNELL E 1E; CSG
Stn. No.: 3004524283
Mtr. No.:

CASING

06/02/2021
69350-10475

Smpl Date: 05/18/2021
Test Date: 05/25/2021
Run No: SB2021096

Nitrogen: 0.4295
CO2: 1.6872
Methane: 75.4435
Ethane: 10.1534
Propane: 5.5763
I-Butane: 1.0650
N-Butane: 2.6195
I-Pentane: 1.1757
N-Pentane: 1.1500
Hexane+: 0.6999

BTU: 1340.9
GPM: 19.7920
SPG: 0.7961



Well Name: CORNELL E 1E; TBG

API #: 3004524283

Source: TUBING

Sample Type: GAS

Analysis No: SB2021097

Cust No: 69350-10480

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL E 1E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524283

Source: TUBING
 Well Flowing: Y
 Pressure: 130 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/18/2021
 Sample Time: 12.41 PM
 Sampled By: CELIA L
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3984	0.3952	0.0440	0.00	0.0039
CO2	1.7402	1.7264	0.2980	0.00	0.0264
Methane	78.2552	77.6355	13.3140	790.38	0.4335
Ethane	10.8014	10.7159	2.8990	191.15	0.1121
Propane	4.9475	4.9083	1.3680	124.48	0.0753
Iso-Butane	0.6931	0.6876	0.2280	22.54	0.0139
N-Butane	1.4672	1.4556	0.4640	47.86	0.0294
I-Pentane	0.4638	0.4601	0.1700	18.56	0.0116
N-Pentane	0.4376	0.4341	0.1590	17.54	0.0109
Hexane Plus	0.7956	0.7893	0.3560	41.94	0.0263
Total	100.0000	99.2080	19.3000	1254.45	0.7434

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1257.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1262.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1240.2
 DRY BTU @ 15.025: 1287.5
 REAL SPECIFIC GRAVITY: 0.7459

CYLINDER #: 055
 CYLINDER PRESSURE: 127 PSIG
 ANALYSIS DATE: 05/25/2021
 ANALYSIS TIME: 02:57:43 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 E 1E; TBG
Stn. No.: 3004524283
Mtr. No.:

TUBING

06/02/2021
69350-10480

Smpl Date: 05/18/2021
Test Date: 05/25/2021
Run No: SB2021097

Nitrogen: 0.3984
CO2: 1.7402
Methane: 78.2552
Ethane: 10.8014
Propane: 4.9475
I-Butane: 0.6931
N-Butane: 1.4672
I-Pentane: 0.4638
N-Pentane: 0.4376
Hexane+: 0.7956

BTU: 1262.2
GPM: 19.3000
SPG: 0.7459

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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 31840

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 31840
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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