



Well Name: CORNELL D 1E; BHD
 API #: 3004524086
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021101
 Cust No: 69350-10500

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL D 1E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524086

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 229 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/25/2021
 Sample Time: 10.10 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2867	0.2762	0.0320	0.00	0.0028
CO2	0.0061	0.0059	0.0010	0.00	0.0001
Methane	86.8913	83.7047	14.7710	877.60	0.4813
Ethane	7.5568	7.2797	2.0270	133.73	0.0785
Propane	2.9970	2.8871	0.8280	75.41	0.0456
Iso-Butane	0.5115	0.4927	0.1680	16.63	0.0103
N-Butane	0.7829	0.7542	0.2470	25.54	0.0157
I-Pentane	0.2732	0.2632	0.1000	10.93	0.0068
N-Pentane	0.2028	0.1954	0.0740	8.13	0.0051
Hexane Plus	0.4917	0.4737	0.2200	25.92	0.0163
Total	100.0000	96.3328	18.4680	1173.89	0.6623

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1176.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1180.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1159.7
 DRY BTU @ 15.025: 1203.8
 REAL SPECIFIC GRAVITY: 0.6641

CYLINDER #: 004
 CYLINDER PRESSURE: 24 PSIG
 ANALYSIS DATE: 06/03/2021
 ANALYSIS TIME: 02:07:40 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: 06/04/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: CORNELL D 1E; BHD
Stn. No.: 3004524086
Mtr. No.:

BRADENHEAD

06/04/2021
69350-10500

Smpl Date: 05/25/2021
Test Date: 06/03/2021
Run No: SB2021101

Nitrogen: 0.2867
CO2: 0.0061
Methane: 86.8913
Ethane: 7.5568
Propane: 2.9970
I-Butane: 0.5115
N-Butane: 0.7829
I-Pentane: 0.2732
N-Pentane: 0.2028
Hexane+: 0.4917

BTU: 1180.2
GPM: 18.4680
SPG: 0.6641



Well Name: CORNELL D 1E; CSG

API #: 3004524086

Source: CASING

Sample Type: GAS

Analysis No: SB2021102

Cust No: 69350-10505

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL D 1E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524086

Source: CASING
 Well Flowing: Y
 Pressure: 95 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/25/2021
 Sample Time: 10.13 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4687	0.4299	0.0520	0.00	0.0045
CO2	0.0327	0.0300	0.0060	0.00	0.0005
Methane	76.4768	70.1502	13.0200	772.42	0.4236
Ethane	9.5705	8.7788	2.5700	169.37	0.0994
Propane	6.2619	5.7439	1.7320	157.56	0.0953
Iso-Butane	1.3795	1.2654	0.4530	44.86	0.0277
N-Butane	2.4819	2.2766	0.7860	80.97	0.0498
I-Pentane	1.1690	1.0723	0.4290	46.77	0.0291
N-Pentane	1.1162	1.0239	0.4060	44.75	0.0278
Hexane Plus	1.0428	0.9565	0.4670	54.97	0.0345
Total	100.0000	91.7275	19.9210	1371.65	0.7923

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0045
 BTU/CU.FT IDEAL: 1374.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1381.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1357.0
 DRY BTU @ 15.025: 1408.7
 REAL SPECIFIC GRAVITY: 0.7955

CYLINDER #: 047
 CYLINDER PRESSURE: 94 PSIG
 ANALYSIS DATE: 06/03/2021
 ANALYSIS TIME: 02:37:47 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: 06/04/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: CORNELL D 1E; CSG
Stn. No.: 3004524086
Mtr. No.:

CASING

06/04/2021
69350-10505

Smpl Date: 05/25/2021
Test Date: 06/03/2021
Run No: SB2021102

Nitrogen: 0.4687
CO2: 0.0327
Methane: 76.4768
Ethane: 9.5705
Propane: 6.2619
I-Butane: 1.3795
N-Butane: 2.4819
I-Pentane: 1.1690
N-Pentane: 1.1162
Hexane+: 1.0428

BTU: 1381.0
GPM: 19.9210
SPG: 0.7955



Well Name: CORNELL D 1E; TBG
 API #: 3004524086
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021103
 Cust No: 69350-10510

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: CORNELL D 1E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004524086

Source: TUBING
 Well Flowing: Y
 Pressure: 95 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/25/2021
 Sample Time: 10.17 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2878	0.2835	0.0320	0.00	0.0028
CO2	1.7350	1.7091	0.2970	0.00	0.0264
Methane	81.5509	80.3333	13.8700	823.66	0.4517
Ethane	8.9541	8.8204	2.4020	158.46	0.0930
Propane	4.0936	4.0325	1.1310	103.00	0.0623
Iso-Butane	0.6657	0.6558	0.2190	21.65	0.0134
N-Butane	1.3069	1.2874	0.4130	42.63	0.0262
I-Pentane	0.4246	0.4183	0.1560	16.99	0.0106
N-Pentane	0.3676	0.3621	0.1340	14.74	0.0092
Hexane Plus	0.6138	0.6046	0.2750	32.35	0.0203
Total	100.0000	98.5070	18.9290	1213.48	0.7158

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1216.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1220.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1199.2
 DRY BTU @ 15.025: 1244.8
 REAL SPECIFIC GRAVITY: 0.7179

CYLINDER #: 094
 CYLINDER PRESSURE: 88 PSIG
 ANALYSIS DATE: 06/03/2021
 ANALYSIS TIME: 02:23:24 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: 06/04/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: CORNELL D 1E; TBG
Stn. No.: 3004524086
Mtr. No.:

TUBING

06/04/2021
69350-10510

Smpl Date: 05/25/2021
Test Date: 06/03/2021
Run No: SB2021103

Nitrogen: 0.2878
CO2: 1.7350
Methane: 81.5509
Ethane: 8.9541
Propane: 4.0936
I-Butane: 0.6657
N-Butane: 1.3069
I-Pentane: 0.4246
N-Pentane: 0.3676
Hexane+: 0.6138

BTU: 1220.4
GPM: 18.9290
SPG: 0.7179

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 31842

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 31842
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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