



Well Name: GCU 217E; BHD
 API #: API# 3004524645
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021034
 Cust No: 69350-10165

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 217E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF078905
 Formation:
 Cust. Stn. No.: API# 3004524645

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 103 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 71 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/21/2021
 Sample Time: 2.05 PM
 Sampled By: ERIC S.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6663	0.6622	0.0730	0.00	0.0064
CO2	0.0078	0.0078	0.0010	0.00	0.0001
Methane	89.7334	89.1878	15.2500	906.31	0.4970
Ethane	5.9961	5.9596	1.6080	106.11	0.0623
Propane	2.2046	2.1912	0.6090	55.47	0.0336
Iso-Butane	0.4164	0.4139	0.1370	13.54	0.0084
N-Butane	0.4873	0.4843	0.1540	15.90	0.0098
I-Pentane	0.1652	0.1642	0.0610	6.61	0.0041
N-Pentane	0.1065	0.1059	0.0390	4.27	0.0027
Hexane Plus	0.2164	0.2151	0.0970	11.41	0.0072
Total	100.0000	99.3920	18.0290	1119.61	0.6315

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
 BTU/CU.FT IDEAL: 1122.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1125.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1105.5
 DRY BTU @ 15.025: 1147.6
 REAL SPECIFIC GRAVITY: 0.6329

CYLINDER #: 196
 CYLINDER PRESSURE: 94 PSIG
 ANALYSIS DATE: 04/26/2021
 ANALYSIS TIME: 02:36:55 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: 04/30/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 217E; BHD	BRADENHEAD	04/30/2021
Stn. No.:	API# 3004524645		69350-10165
Mtr. No.:			

Smpl Date: 04/21/2021
Test Date: 04/26/2021
Run No: SB2021034

Nitrogen: 0.6663
CO2: 0.0078
Methane: 89.7334
Ethane: 5.9961
Propane: 2.2046
I-Butane: 0.4164
N-Butane: 0.4873
I-Pentane: 0.1652
N-Pentane: 0.1065
Hexane+: 0.2164

BTU: 1125.1
GPM: 18.0290
SPG: 0.6329



Well Name: GCU 217E; CSG
 API #: API# 3004524645
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021035
 Cust No: 69350-10170

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 217E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF078905
 Formation:
 Cust. Stn. No.: API# 3004524645

Source: CASING
 Well Flowing: Y
 Pressure: 22 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 71 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/21/2021
 Sample Time: 1.55 PM
 Sampled By: ERIC S.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7592	1.7418	0.1940	0.00	0.0170
CO2	0.8770	0.8683	0.1500	0.00	0.0133
Methane	77.5873	76.8200	13.2030	783.63	0.4298
Ethane	10.3603	10.2578	2.7810	183.35	0.1076
Propane	4.9155	4.8669	1.3590	123.68	0.0748
Iso-Butane	0.5643	0.5587	0.1850	18.35	0.0113
N-Butane	1.2454	1.2331	0.3940	40.63	0.0250
I-Pentane	0.2889	0.2860	0.1060	11.56	0.0072
N-Pentane	0.2754	0.2727	0.1000	11.04	0.0069
Hexane Plus	2.1267	2.1057	0.9520	112.10	0.0704
Total	100.0000	99.0110	19.4240	1284.33	0.7633

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1287.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1292.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1270.0
 DRY BTU @ 15.025: 1318.4
 REAL SPECIFIC GRAVITY: 0.766

CYLINDER #: 191
 CYLINDER PRESSURE: 20 PSIG
 ANALYSIS DATE: 04/27/2021
 ANALYSIS TIME: 09:35:50 AM
 ANALYSIS RUN BY: PATRICIA KING

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: 04/30/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 217E; CSG	CASING	04/30/2021
Stn. No.:	API# 3004524645		69350-10170
Mtr. No.:			

Smpl Date: 04/21/2021
Test Date: 04/27/2021
Run No: SB2021035

Nitrogen: 1.7592
CO2: 0.8770
Methane: 77.5873
Ethane: 10.3603
Propane: 4.9155
I-Butane: 0.5643
N-Butane: 1.2454
I-Pentane: 0.2889
N-Pentane: 0.2754
Hexane+: 2.1267

BTU: 1292.5
GPM: 19.4240
SPG: 0.7660



Well Name: GCU 217E; TBG
 API #: API# 3004524645
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021036
 Cust No: 69350-10175

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 217E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NNMSF078905
 Formation:
 Cust. Stn. No.: API# 3004524645

Source: TUBING
 Well Flowing: Y
 Pressure: 25 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 71 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/21/2021
 Sample Time: 2.00 PM
 Sampled By: ERIC S.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	11.3477	11.1864	1.2530	0.00	0.1098
CO2	0.8457	0.8337	0.1450	0.00	0.0129
Methane	67.1874	66.2327	11.4300	678.59	0.3722
Ethane	9.9203	9.7793	2.6620	175.56	0.1030
Propane	5.4923	5.4143	1.5180	138.19	0.0836
Iso-Butane	0.7133	0.7032	0.2340	23.20	0.0143
N-Butane	1.8734	1.8468	0.5930	61.12	0.0376
I-Pentane	0.5624	0.5544	0.2060	22.50	0.0140
N-Pentane	0.5753	0.5671	0.2090	23.06	0.0143
Hexane Plus	1.4822	1.4611	0.6630	78.13	0.0491
Total	100.0000	98.5790	18.9130	1200.35	0.8107

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1203.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1207.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1186.6
 DRY BTU @ 15.025: 1231.8
 REAL SPECIFIC GRAVITY: 0.8134

CYLINDER #: 034
 CYLINDER PRESSURE: 21 PSIG
 ANALYSIS DATE: 04/27/2021
 ANALYSIS TIME: 09:24:04 AM
 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: 04/30/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 217E; TBG	TUBING	04/30/2021
Stn. No.:	API# 3004524645		69350-10175
Mtr. No.:			

Smpl Date: 04/21/2021
Test Date: 04/27/2021
Run No: SB2021036

Nitrogen: 11.3477
CO2: 0.8457
Methane: 67.1874
Ethane: 9.9203
Propane: 5.4923
I-Butane: 0.7133
N-Butane: 1.8734
I-Pentane: 0.5624
N-Pentane: 0.5753
Hexane+: 1.4822

BTU: 1207.6
GPM: 18.9130
SPG: 0.8134

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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District IV
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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

COMMENTS

Action 26645

COMMENTS

Operator:	SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO81301		OGRID:	329736	Action Number:	26645	Action Type:	GAS ANALYSIS
Created By	Comment		Comment Date					
mkuehling	for record only		05/05/2021					

District I
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 26645

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	26645	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		