



Well Name: GCU 187E; BHD
 API #: API # 300452417200
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021022
 Cust No: 69350-10105

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 187E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452417200

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 25 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 56 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/13/2021
 Sample Time: 9.30 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7808	1.7647	0.1960	0.00	0.0172
CO2	0.0263	0.0261	0.0040	0.00	0.0004
Methane	94.1435	93.2942	15.9900	950.85	0.5215
Ethane	3.6286	3.5959	0.9720	64.22	0.0377
Propane	0.1830	0.1813	0.0510	4.60	0.0028
Iso-Butane	0.1358	0.1346	0.0450	4.42	0.0027
N-Butane	0.0324	0.0321	0.0100	1.06	0.0007
I-Pentane	0.0355	0.0352	0.0130	1.42	0.0009
N-Pentane	0.0058	0.0057	0.0020	0.23	0.0001
Hexane Plus	0.0283	0.0280	0.0130	1.49	0.0009
Total	100.0000	99.0978	17.2960	1028.29	0.5849

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 1030.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1032.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1014.8
 DRY BTU @ 15.025: 1053.5
 REAL SPECIFIC GRAVITY: 0.5859

CYLINDER #: 15
 CYLINDER PRESSURE: 28 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 07:40:12 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: 04/22/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 187E; BHD	BRADENHEAD	04/22/2021
Stn. No.:	API #		69350-10105
Mtr. No.:			

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021022

Nitrogen: 1.7808
CO2: 0.0263
Methane: 94.1435
Ethane: 3.6286
Propane: 0.1830
I-Butane: 0.1358
N-Butane: 0.0324
I-Pentane: 0.0355
N-Pentane: 0.0058
Hexane+: 0.0283

BTU: 1032.8
GPM: 17.2960
SPG: 0.5859



Well Name: GCU 187E; CSG
 API #: API # 300452417200
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021023
 Cust No: 69350-10110

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 187E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452417200

Source: CASING
 Well Flowing: Y
 Pressure: 70 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 53 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/13/2021
 Sample Time: 9.25 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7883	0.7337	0.0870	0.00	0.0076
CO2	0.4012	0.3734	0.0690	0.00	0.0061
Methane	67.1945	62.5439	11.4520	678.66	0.3722
Ethane	12.1677	11.3255	3.2710	215.33	0.1263
Propane	10.1715	9.4675	2.8170	255.93	0.1549
Iso-Butane	1.5743	1.4653	0.5180	51.19	0.0316
N-Butane	4.1145	3.8297	1.3040	134.23	0.0826
I-Pentane	1.3345	1.2421	0.4910	53.39	0.0332
N-Pentane	1.3331	1.2408	0.4860	53.44	0.0332
Hexane Plus	0.9204	0.8567	0.4130	48.51	0.0305
Total	100.0000	93.0786	20.9080	1490.69	0.8782

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0056
 BTU/CU.FT IDEAL: 1494.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1502.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1476.3
 DRY BTU @ 15.025: 1532.5
 REAL SPECIFIC GRAVITY: 0.8827

CYLINDER #: 6044
 CYLINDER PRESSURE: 74 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 08:19:33 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: 04/22/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 187E; CSG	CASING	04/22/2021
Stn. No.:	API #		69350-10110
Mtr. No.:			

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021023

Nitrogen: 0.7883
CO2: 0.4012
Methane: 67.1945
Ethane: 12.1677
Propane: 10.1715
I-Butane: 1.5743
N-Butane: 4.1145
I-Pentane: 1.3345
N-Pentane: 1.3331
Hexane+: 0.9204

BTU: 1502.4
GPM: 20.9080
SPG: 0.8827



Well Name: GCU 187E; TBG
 API #: API # 300452417200
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021024
 Cust No: 69350-10115

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 187E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452417200

Source: TUBING
 Well Flowing: Y
 Pressure: 73 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 53 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/13/2021
 Sample Time: 9.20 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5717	0.5651	0.0630	0.00	0.0055
CO2	1.1224	1.1094	0.1920	0.00	0.0171
Methane	69.6189	68.8152	11.8600	703.15	0.3856
Ethane	13.1405	12.9888	3.5310	232.55	0.1364
Propane	8.7033	8.6028	2.4090	218.98	0.1325
Iso-Butane	1.2124	1.1984	0.3990	39.43	0.0243
N-Butane	2.6596	2.6289	0.8430	86.76	0.0534
I-Pentane	0.7350	0.7265	0.2700	29.41	0.0183
N-Pentane	0.6829	0.6750	0.2490	27.38	0.0170
Hexane Plus	1.5533	1.5354	0.6960	81.88	0.0514
Total	100.0000	98.8455	20.5120	1419.53	0.8416

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0051
 BTU/CU.FT IDEAL: 1422.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1430.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1405.1
 DRY BTU @ 15.025: 1458.6
 REAL SPECIFIC GRAVITY: 0.8455

CYLINDER #: 191
 CYLINDER PRESSURE: 81 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 08:05:05 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: 04/22/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 187E; TBG	TUBING	04/22/2021
Stn. No.:	API #		69350-10115
Mtr. No.:			

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021024

Nitrogen: 0.5717
CO2: 1.1224
Methane: 69.6189
Ethane: 13.1405
Propane: 8.7033
I-Butane: 1.2124
N-Butane: 2.6596
I-Pentane: 0.7350
N-Pentane: 0.6829
Hexane+: 1.5533

BTU: 1430.0
GPM: 20.5120
SPG: 0.8455

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 26368

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	26368	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		