



Well Name: GCU 185E; BHD
 API #: API # 300452442800
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021019
 Cust No: 69350-10090

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 185E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452442800

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 27 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 58 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 12.00 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6222	1.5759	0.1790	0.00	0.0157
CO2	0.0042	0.0041	0.0010	0.00	0.0001
Methane	82.3235	79.9737	14.0030	831.47	0.4560
Ethane	5.4258	5.2709	1.4560	96.02	0.0563
Propane	4.9621	4.8205	1.3720	124.85	0.0755
Iso-Butane	1.6225	1.5762	0.5330	52.76	0.0326
N-Butane	2.1165	2.0561	0.6690	69.05	0.0425
I-Pentane	0.7294	0.7086	0.2680	29.18	0.0182
N-Pentane	0.4748	0.4612	0.1730	19.03	0.0118
Hexane Plus	0.7190	0.6985	0.3220	37.90	0.0238
Total	100.0000	97.1457	18.9760	1260.26	0.7325

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1263.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1267.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1245.6
 DRY BTU @ 15.025: 1293.1
 REAL SPECIFIC GRAVITY: 0.7348

CYLINDER #: 42
 CYLINDER PRESSURE: 28 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 12:50:59 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 185E; BHD
Stn. No.: API #
Mtr. No.:

BRADENHEAD

04/22/2021
69350-10090

Smpl Date: 04/16/2021
Test Date: 04/21/2021
Run No: SB2021019

Nitrogen: 1.6222
CO2: 0.0042
Methane: 82.3235
Ethane: 5.4258
Propane: 4.9621
I-Butane: 1.6225
N-Butane: 2.1165
I-Pentane: 0.7294
N-Pentane: 0.4748
Hexane+: 0.7190

BTU: 1267.7
GPM: 18.9760
SPG: 0.7348



Well Name: GCU 185E; CSG
 API #: API # 300452442800
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021020
 Cust No: 69350-10095

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 185E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452442800

Source: CASING
 Well Flowing: Y
 Pressure: 68 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 58 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 12.05 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9685	0.9355	0.1070	0.00	0.0094
CO2	0.9818	0.9483	0.1680	0.00	0.0149
Methane	79.9275	77.2005	13.6010	807.27	0.4427
Ethane	10.2565	9.9066	2.7530	181.51	0.1065
Propane	3.9697	3.8343	1.0980	99.88	0.0604
Iso-Butane	0.2691	0.2599	0.0880	8.75	0.0054
N-Butane	0.4252	0.4107	0.1350	13.87	0.0085
I-Pentane	0.0386	0.0373	0.0140	1.54	0.0010
N-Pentane	0.0253	0.0244	0.0090	1.01	0.0006
Hexane Plus	3.1378	3.0307	1.4050	165.40	0.1038
Total	100.0000	96.5882	19.3780	1279.23	0.7533

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1282.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1287.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1264.9
 DRY BTU @ 15.025: 1313.1
 REAL SPECIFIC GRAVITY: 0.756

CYLINDER #: 9
 CYLINDER PRESSURE: 68 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 12:36:01 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 185E; CSG
Stn. No.: API #
Mtr. No.:

CASING

04/22/2021
69350-10095

Smpl Date: 04/16/2021
Test Date: 04/21/2021
Run No: SB2021020

Nitrogen: 0.9685
CO2: 0.9818
Methane: 79.9275
Ethane: 10.2565
Propane: 3.9697
I-Butane: 0.2691
N-Butane: 0.4252
I-Pentane: 0.0386
N-Pentane: 0.0253
Hexane+: 3.1378

BTU: 1287.3
GPM: 19.3780
SPG: 0.7560



Well Name: GCU 185E; TBG
 API #: API # 300452442800
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021021
 Cust No: 69350-10100

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 185E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452442800

Source: TUBING
 Well Flowing: Y
 Pressure: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 58 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 12.10 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4443	1.4254	0.1590	0.00	0.0140
CO2	0.6151	0.6071	0.1050	0.00	0.0093
Methane	90.4539	89.2730	15.3680	913.58	0.5010
Ethane	5.5520	5.4795	1.4880	98.25	0.0576
Propane	1.2042	1.1885	0.3320	30.30	0.0183
Iso-Butane	0.1423	0.1404	0.0470	4.63	0.0029
N-Butane	0.2214	0.2185	0.0700	7.22	0.0044
I-Pentane	0.0638	0.0630	0.0230	2.55	0.0016
N-Pentane	0.0522	0.0515	0.0190	2.09	0.0013
Hexane Plus	0.2508	0.2475	0.1120	13.22	0.0083
Total	100.0000	98.6944	17.7230	1071.85	0.6188

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1074.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1076.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1058.2
 DRY BTU @ 15.025: 1098.5
 REAL SPECIFIC GRAVITY: 0.62

CYLINDER #: 1097
 CYLINDER PRESSURE: 73 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 01:02:58 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: 04/22/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 185E; TBG
Stn. No.: API #
Mtr. No.:

TUBING

04/22/2021
69350-10100

Smpl Date: 04/16/2021
Test Date: 04/21/2021
Run No: SB2021021

Nitrogen: 1.4443
CO2: 0.6151
Methane: 90.4539
Ethane: 5.5520
Propane: 1.2042
I-Butane: 0.1423
N-Butane: 0.2214
I-Pentane: 0.0638
N-Pentane: 0.0522
Hexane+: 0.2508

BTU: 1076.9
GPM: 17.7230
SPG: 0.6200

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
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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 26648

COMMENTS

Operator:	SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO81301			OGRID:	329736	Action Number:	26648	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 26648

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	26648	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		