



Well Name: GCU 233E; BHD
 API #: API # 300452621000
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021025
 Cust No: 69350-10120

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 233E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452621000

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 33 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 48 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 9.55 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2806	1.2279	0.1410	0.00	0.0124
CO2	0.0142	0.0136	0.0020	0.00	0.0002
Methane	93.1213	89.2866	15.8210	940.53	0.5158
Ethane	3.8605	3.7015	1.0350	68.32	0.0401
Propane	0.8925	0.8557	0.2460	22.46	0.0136
Iso-Butane	0.1498	0.1436	0.0490	4.87	0.0030
N-Butane	0.1650	0.1582	0.0520	5.38	0.0033
I-Pentane	0.0667	0.0640	0.0240	2.67	0.0017
N-Pentane	0.0502	0.0481	0.0180	2.01	0.0013
Hexane Plus	0.3992	0.3828	0.1780	21.04	0.0132
Total	100.0000	95.8820	17.5660	1067.28	0.6045

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1069.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1072.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1053.6
 DRY BTU @ 15.025: 1093.8
 REAL SPECIFIC GRAVITY: 0.6057

CYLINDER #: 19
 CYLINDER PRESSURE: 33 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 12:11:32 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: 04/22/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 233E; BHD	BRADENHEAD	04/22/2021
Stn. No.:	API #		69350-10120
Mtr. No.:			

Smpl Date: 04/16/2021
Test Date: 04/21/2021
Run No: SB2021025

Nitrogen: 1.2806
CO2: 0.0142
Methane: 93.1213
Ethane: 3.8605
Propane: 0.8925
I-Butane: 0.1498
N-Butane: 0.1650
I-Pentane: 0.0667
N-Pentane: 0.0502
Hexane+: 0.3992

BTU: 1072.3
GPM: 17.5660
SPG: 0.6057



Well Name: GCU 233E; CSG
 API #: API # 300452621000
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021026
 Cust No: 69350-10125

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 233E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452621000

Source: CASING
 Well Flowing: Y
 Pressure: 48 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 48 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 10.05 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	7.9166	7.6009	0.8740	0.00	0.0766
CO2	0.8199	0.7872	0.1400	0.00	0.0125
Methane	75.5139	72.5029	12.8400	762.69	0.4183
Ethane	8.8097	8.4584	2.3630	155.91	0.0915
Propane	3.5502	3.4086	0.9810	89.33	0.0541
Iso-Butane	0.5677	0.5451	0.1860	18.46	0.0114
N-Butane	0.9888	0.9494	0.3130	32.26	0.0198
I-Pentane	0.3861	0.3707	0.1420	15.45	0.0096
N-Pentane	0.3310	0.3178	0.1200	13.27	0.0082
Hexane Plus	1.1161	1.0716	0.4990	58.83	0.0369
Total	100.0000	96.0126	18.4580	1146.19	0.7389

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1148.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1152.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1132.4
 DRY BTU @ 15.025: 1175.6
 REAL SPECIFIC GRAVITY: 0.7409

CYLINDER #: 127
 CYLINDER PRESSURE: 48 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 01:56:42 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 233E; CSG	CASING	04/22/2021
Stn. No.:	API #		69350-10125
Mtr. No.:			

Smpl Date: 04/16/2021
Test Date: 04/21/2021
Run No: SB2021026

Nitrogen: 7.9166
CO2: 0.8199
Methane: 75.5139
Ethane: 8.8097
Propane: 3.5502
I-Butane: 0.5677
N-Butane: 0.9888
I-Pentane: 0.3861
N-Pentane: 0.3310
Hexane+: 1.1161

BTU: 1152.5
GPM: 18.4580
SPG: 0.7409



Well Name: GCU 233E; TBG
 API #: API # 300452621000
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021027
 Cust No: 69350-10130

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 233E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452621000

Source: TUBING
 Well Flowing: Y
 Pressure: 24 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 48 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/16/2021
 Sample Time: 10.00 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.8986	1.8218	0.2100	0.00	0.0184
CO2	1.0666	1.0235	0.1830	0.00	0.0162
Methane	79.9506	76.7168	13.5990	807.50	0.4428
Ethane	9.6441	9.2540	2.5880	170.67	0.1001
Propane	3.9571	3.7970	1.0940	99.56	0.0602
Iso-Butane	0.5622	0.5395	0.1850	18.28	0.0113
N-Butane	0.9818	0.9421	0.3110	32.03	0.0197
I-Pentane	0.3076	0.2952	0.1130	12.31	0.0077
N-Pentane	0.2493	0.2392	0.0910	9.99	0.0062
Hexane Plus	1.3821	1.3262	0.6180	72.85	0.0457
Total	100.0000	95.9553	18.9920	1223.20	0.7284

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1226.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1230.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1208.9
 DRY BTU @ 15.025: 1254.9
 REAL SPECIFIC GRAVITY: 0.7307

CYLINDER #: 109
 CYLINDER PRESSURE: 38 PSIG
 ANALYSIS DATE: 04/21/2021
 ANALYSIS TIME: 01:11:21 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 233E; TBG	TUBING	04/22/2021
Stn. No.:	API #		69350-10130
Mtr. No.:			

Smpl Date:	04/16/2021
Test Date:	04/21/2021
Run No:	SB2021027
Nitrogen:	1.8986
CO2:	1.0666
Methane:	79.9506
Ethane:	9.6441
Propane:	3.9571
I-Butane:	0.5622
N-Butane:	0.9818
I-Pentane:	0.3076
N-Pentane:	0.2493
Hexane+:	1.3821
BTU:	1230.3
GPM:	18.9920
SPG:	0.7307

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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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 26652

COMMENTS

Operator:	SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO81301		OGRID:	329736	Action Number:	26652	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 26652

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	26652	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		