



Well Name: GCU 85E; BHD
 API #: API # 300452516900
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021013
 Cust No: 69350-10060

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 85E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452516900

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 45 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: 3.20 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	9.7268	9.6827	1.0720	0.00	0.0941
CO2	0.0381	0.0379	0.0070	0.00	0.0006
Methane	85.3463	84.9596	14.4940	862.00	0.4727
Ethane	3.4920	3.4762	0.9360	61.80	0.0363
Propane	0.9405	0.9362	0.2600	23.66	0.0143
Iso-Butane	0.1733	0.1725	0.0570	5.64	0.0035
N-Butane	0.1812	0.1804	0.0570	5.91	0.0036
I-Pentane	0.0563	0.0560	0.0210	2.25	0.0014
N-Pentane	0.0103	0.0103	0.0040	0.41	0.0003
Hexane Plus	0.0352	0.0350	0.0160	1.86	0.0012
Total	100.0000	99.5468	16.9240	963.53	0.6279

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 965.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 967.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 950.9
 DRY BTU @ 15.025: 987.1
 REAL SPECIFIC GRAVITY: 0.6289

CYLINDER #: 034
 CYLINDER PRESSURE: 44 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 08:42:50 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 85E; BHD	BRADENHEAD	04/22/2021
Stn. No.:	API #		69350-10060
Mtr. No.:			

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021013

Nitrogen: 9.7268
CO2: 0.0381
Methane: 85.3463
Ethane: 3.4920
Propane: 0.9405
I-Butane: 0.1733
N-Butane: 0.1812
I-Pentane: 0.0563
N-Pentane: 0.0103
Hexane+: 0.0352

BTU: 967.7
GPM: 16.9240
SPG: 0.6289



Well Name: GCU 85E; CSG
 API #: API # 300452516900
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021014
 Cust No: 69350-10065

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 85E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452516900

Source: CASING
 Well Flowing: Y
 Pressure: 40 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: 3.10 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	6.5862	6.3584	0.7280	0.00	0.0637
CO2	0.3849	0.3716	0.0660	0.00	0.0058
Methane	70.9608	68.5061	12.0800	716.70	0.3931
Ethane	8.0480	7.7696	2.1610	142.43	0.0836
Propane	6.2512	6.0350	1.7290	157.29	0.0952
Iso-Butane	0.9327	0.9004	0.3060	30.33	0.0187
N-Butane	3.0693	2.9631	0.9720	100.13	0.0616
I-Pentane	1.0045	0.9698	0.3690	40.19	0.0250
N-Pentane	1.0659	1.0290	0.3880	42.73	0.0266
Hexane Plus	1.6965	1.6378	0.7600	89.42	0.0561
Total	100.0000	96.5408	19.5590	1319.22	0.8294

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
 BTU/CU.FT IDEAL: 1322.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1328.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1305.0
 DRY BTU @ 15.025: 1354.7
 REAL SPECIFIC GRAVITY: 0.8327

CYLINDER #: 230
 CYLINDER PRESSURE: 38 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 07:51:07 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 85E; CSG	CASING	04/22/2021
Stn. No.:	API #		69350-10065
Mtr. No.:			

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021014

Nitrogen: 6.5862
CO2: 0.3849
Methane: 70.9608
Ethane: 8.0480
Propane: 6.2512
I-Butane: 0.9327
N-Butane: 3.0693
I-Pentane: 1.0045
N-Pentane: 1.0659
Hexane+: 1.6965

BTU: 1328.1
GPM: 19.5590
SPG: 0.8327



Well Name: GCU 85E; TBG
 API #: API # 300452516900
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021015
 Cust No: 69350-10070

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 85E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 300452516900

Source: TUBING
 Well Flowing: Y
 Pressure: 15 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: 3.15 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.2857	3.1698	0.3630	0.00	0.0318
CO2	1.1045	1.0655	0.1890	0.00	0.0168
Methane	82.2678	79.3655	13.9870	830.90	0.4557
Ethane	7.6804	7.4094	2.0600	135.92	0.0797
Propane	3.0270	2.9202	0.8360	76.16	0.0461
Iso-Butane	0.4877	0.4705	0.1600	15.86	0.0098
N-Butane	0.8361	0.8066	0.2640	27.28	0.0168
I-Pentane	0.2902	0.2800	0.1060	11.61	0.0072
N-Pentane	0.2372	0.2288	0.0860	9.51	0.0059
Hexane Plus	0.7834	0.7558	0.3500	41.29	0.0259
Total	100.0000	96.4721	18.4010	1148.54	0.6957

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1151.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1154.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1134.7
 DRY BTU @ 15.025: 1177.9
 REAL SPECIFIC GRAVITY: 0.6976

CYLINDER #: 1065
 CYLINDER PRESSURE: 15 PSIG
 ANALYSIS DATE: 04/20/2021
 ANALYSIS TIME: 08:31:26 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 85E; TBG
Stn. No.: API #
Mtr. No.:

TUBING

04/22/2021
69350-10070

Smpl Date: 04/13/2021
Test Date: 04/20/2021
Run No: SB2021015

Nitrogen: 3.2857
CO2: 1.1045
Methane: 82.2678
Ethane: 7.6804
Propane: 3.0270
I-Butane: 0.4877
N-Butane: 0.8361
I-Pentane: 0.2902
N-Pentane: 0.2372
Hexane+: 0.7834

BTU: 1154.8
GPM: 18.4010
SPG: 0.6976

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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 26377

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	26377	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		