



Well Name: GCU 145E; BHD
 API #: API # 3004524291
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021051
 Cust No: 69350-10250

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004524291

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 134 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 12.30 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7261	0.7015	0.0800	0.00	0.0070
CO2	0.0068	0.0066	0.0010	0.00	0.0001
Methane	82.3157	79.5221	13.9990	831.39	0.4559
Ethane	8.5821	8.2909	2.3020	151.88	0.0891
Propane	5.1961	5.0198	1.4360	130.74	0.0791
Iso-Butane	0.6920	0.6685	0.2270	22.50	0.0139
N-Butane	1.4534	1.4041	0.4600	47.41	0.0292
I-Pentane	0.3524	0.3404	0.1290	14.10	0.0088
N-Pentane	0.2803	0.2708	0.1020	11.24	0.0070
Hexane Plus	0.3951	0.3817	0.1770	20.83	0.0131
Total	100.0000	96.6064	18.9130	1230.08	0.7032

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1232.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1237.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1215.6
 DRY BTU @ 15.025: 1261.9
 REAL SPECIFIC GRAVITY: 0.7053

CYLINDER #: 052
 CYLINDER PRESSURE: 127 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 01:27:29 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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; BHD	BRADENHEAD	05/17/2021
Stn. No.:	API # 3004524291		69350-10250
Mtr. No.:			

Smpl Date:	04/30/2021
Test Date:	05/10/2021
Run No:	SB2021051
Nitrogen:	0.7261
CO2:	0.0068
Methane:	82.3157
Ethane:	8.5821
Propane:	5.1961
I-Butane:	0.6920
N-Butane:	1.4534
I-Pentane:	0.3524
N-Pentane:	0.2803
Hexane+:	0.3951
BTU:	1237.1
GPM:	18.9130
SPG:	0.7053



Well Name: GCU 145E; CSG
 API #: API # 3004524291
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021052
 Cust No: 69350-10255

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004524291

Source: CASING
 Well Flowing: Y
 Pressure: 136 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 12.22 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6743	0.6565	0.0740	0.00	0.0065
CO2	0.0023	0.0022	0.0000	0.00	0.0000
Methane	81.0365	78.9020	13.7850	818.47	0.4489
Ethane	8.6375	8.4100	2.3180	152.86	0.0897
Propane	5.4586	5.3148	1.5090	137.34	0.0831
Iso-Butane	0.7937	0.7728	0.2610	25.81	0.0159
N-Butane	1.7580	1.7117	0.5560	57.35	0.0353
I-Pentane	0.5049	0.4916	0.1850	20.20	0.0126
N-Pentane	0.4342	0.4228	0.1580	17.41	0.0108
Hexane Plus	0.7000	0.6816	0.3130	36.90	0.0232
Total	100.0000	97.3660	19.1590	1266.34	0.7260

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1269.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1273.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1251.7
 DRY BTU @ 15.025: 1299.4
 REAL SPECIFIC GRAVITY: 0.7283

CYLINDER #: 041
 CYLINDER PRESSURE: 123 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 01:42:54 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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; CSG	CASING	05/17/2021
Stn. No.:	API # 3004524291		69350-10255
Mtr. No.:			

Smpl Date: 04/30/2021
Test Date: 05/10/2021
Run No: SB2021052

Nitrogen: 0.6743
CO2: 0.0023
Methane: 81.0365
Ethane: 8.6375
Propane: 5.4586
I-Butane: 0.7937
N-Butane: 1.7580
I-Pentane: 0.5049
N-Pentane: 0.4342
Hexane+: 0.7000

BTU: 1273.9
GPM: 19.1590
SPG: 0.7283



Well Name: GCU 145E; TBG
 API #: API # 3004524291
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021053
 Cust No: 69350-10260

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 145E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391C
 Formation:
 Cust. Stn. No.: API # 3004524291

Source: TUBING
 Well Flowing: Y
 Pressure: 135 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/30/2021
 Sample Time: 12.26 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3303	0.3250	0.0360	0.00	0.0032
CO2	1.5635	1.5386	0.2680	0.00	0.0238
Methane	79.4089	78.1459	13.5090	802.03	0.4398
Ethane	10.1426	9.9813	2.7220	179.49	0.1053
Propane	4.7867	4.7106	1.3230	120.44	0.0729
Iso-Butane	0.8046	0.7918	0.2640	26.16	0.0161
N-Butane	1.4262	1.4035	0.4510	46.53	0.0286
I-Pentane	0.4898	0.4820	0.1800	19.60	0.0122
N-Pentane	0.3832	0.3771	0.1390	15.36	0.0095
Hexane Plus	0.6642	0.6536	0.2970	35.01	0.0220
Total	100.0000	98.4094	19.1890	1244.62	0.7335

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1247.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1252.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1230.2
 DRY BTU @ 15.025: 1277.1
 REAL SPECIFIC GRAVITY: 0.7358

CYLINDER #: 110
 CYLINDER PRESSURE: 125 PSIG
 ANALYSIS DATE: 05/10/2021
 ANALYSIS TIME: 02:00:53 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: 05/17/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; TBG	TUBING	05/17/2021
Stn. No.:	API # 3004524291		69350-10260
Mtr. No.:			

Smpl Date: 04/30/2021
Test Date: 05/10/2021
Run No: SB2021053

Nitrogen: 0.3303
CO2: 1.5635
Methane: 79.4089
Ethane: 10.1426
Propane: 4.7867
I-Butane: 0.8046
N-Butane: 1.4262
I-Pentane: 0.4898
N-Pentane: 0.3832
Hexane+: 0.6642

BTU: 1252.0
GPM: 19.1890
SPG: 0.7358

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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 30351

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30351
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/14/2021