



Well Name: GCU 145E; BHD

API #: 3004524291

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240105

Cust No: 69350-11035

Well/Lease Information

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

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 6 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 87 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 2.00 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6103	0.2205	0.0670	0.00	0.0059
CO2	0.2253	0.0814	0.0390	0.00	0.0034
Methane	81.2762	29.3673	13.8260	820.89	0.4502
Ethane	8.3860	3.0301	2.2500	148.41	0.0871
Propane	5.2855	1.9098	1.4610	132.99	0.0805
Iso-Butane	0.7996	0.2889	0.2630	26.00	0.0160
N-Butane	1.7566	0.6347	0.5560	57.31	0.0353
I-Pentane	0.5311	0.1919	0.1950	21.25	0.0132
N-Pentane	0.2759	0.0997	0.1000	11.06	0.0069
Hexane Plus	0.8535	0.3084	0.3820	44.99	0.0282
Total	100.0000	36.1327	19.1390	1262.89	0.7267

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1265.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.4
 DRY BTU @ 15.025: 1295.9
 REAL SPECIFIC GRAVITY: 0.7291

CYLINDER #: 07
 CYLINDER PRESSURE: 41 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 10:22:04 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; BHD	BRADENHEAD	10/21/2024
Stn. No.:	3004524291		69350-11035
Mtr. No.:			

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240105

Nitrogen: 0.6103
CO2: 0.2253
Methane: 81.2762
Ethane: 8.3860
Propane: 5.2855
I-Butane: 0.7996
N-Butane: 1.7566
I-Pentane: 0.5311
N-Pentane: 0.2759
Hexane+: 0.8535

BTU: 1270.5
GPM: 19.1390
SPG: 0.7291



Well Name: GCU 145E; CSG

API #: 3004524291

Source: CASING

Sample Type: GAS

Analysis No: SB20240106

Cust No: 69350-11040

Well/Lease Information

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

Source: CASING
 Well Flowing: Y
 Pressure: 115 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 87 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 2.05 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6059	0.6062	0.0670	0.00	0.0059
CO2	0.0350	0.0350	0.0060	0.00	0.0005
Methane	80.8459	80.8847	13.7530	816.54	0.4478
Ethane	8.8017	8.8059	2.3620	155.76	0.0914
Propane	5.3687	5.3713	1.4840	135.08	0.0817
Iso-Butane	0.8127	0.8131	0.2670	26.43	0.0163
N-Butane	1.7672	1.7681	0.5590	57.65	0.0355
I-Pentane	0.5322	0.5325	0.1950	21.29	0.0133
N-Pentane	0.3682	0.3684	0.1340	14.76	0.0092
Hexane Plus	0.8625	0.8629	0.3860	45.46	0.0285
Total	100.0000	100.0481	19.2130	1272.98	0.7301

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1275.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1280.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1258.4
 DRY BTU @ 15.025: 1306.3
 REAL SPECIFIC GRAVITY: 0.7325

CYLINDER #: 1405
 CYLINDER PRESSURE: 97 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 10:29:15 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; CSG	CASING	10/21/2024
Stn. No.:	3004524291		69350-11040
Mtr. No.:			

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240106

Nitrogen: 0.6059
CO2: 0.0350
Methane: 80.8459
Ethane: 8.8017
Propane: 5.3687
I-Butane: 0.8127
N-Butane: 1.7672
I-Pentane: 0.5322
N-Pentane: 0.3682
Hexane+: 0.8625

BTU: 1280.7
GPM: 19.2130
SPG: 0.7325



Well Name: GCU 145E; TBG

API #: 3004524291

Source: TUBING

Sample Type: GAS

Analysis No: SB20240107

Cust No: 69350-11045

Well/Lease Information

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

Source: TUBING
 Well Flowing: Y
 Pressure: 115 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 87 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 2.10 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3513	0.3525	0.0390	0.00	0.0034
CO2	1.6041	1.6094	0.2750	0.00	0.0244
Methane	80.4782	80.7459	13.6890	812.83	0.4458
Ethane	9.5001	9.5317	2.5490	168.12	0.0986
Propane	4.3765	4.3911	1.2100	110.12	0.0666
Iso-Butane	0.7662	0.7688	0.2520	24.92	0.0154
N-Butane	1.3433	1.3478	0.4250	43.82	0.0270
I-Pentane	0.4747	0.4763	0.1740	18.99	0.0118
N-Pentane	0.2978	0.2988	0.1080	11.94	0.0074
Hexane Plus	0.8078	0.8105	0.3610	42.58	0.0267
Total	100.0000	100.3328	19.0820	1233.32	0.7271

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1236.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1240.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1219.0
 DRY BTU @ 15.025: 1265.4
 REAL SPECIFIC GRAVITY: 0.7295

CYLINDER #: 29
 CYLINDER PRESSURE: 97 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 10:36:48 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 145E; TBG	TUBING	10/21/2024
Stn. No.:	3004524291		69350-11045
Mtr. No.:			

Smpl Date:	10/10/2024
Test Date:	10/17/2024
Run No:	SB20240107
Nitrogen:	0.3513
CO2:	1.6041
Methane:	80.4782
Ethane:	9.5001
Propane:	4.3765
I-Butane:	0.7662
N-Butane:	1.3433
I-Pentane:	0.4747
N-Pentane:	0.2978
Hexane+:	0.8078
BTU:	1240.6
GPM:	19.0820
SPG:	0.7295

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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 395533

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 395533
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	bradenhead and production gas are the same	10/25/2024