



Well Name: BURNHAM GC 1E; BHD  
 API #: 3004524088  
 Source: BRADENHEAD  
 Sample Type: GAS  
 Analysis No: SB20240063  
 Cust No: 69350-10815

**Well/Lease Information**

Customer Name:	SIMCOE SOUTH BHD	Source:	BRADENHEAD
Well Name:	BURNHAM GC 1E; BHD	Well Flowing:	N
County/State:		Pressure:	-1 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	77 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004524088	Sample Method:	Purge & Fill
		Sample Date:	09/24/2024
		Sample Time:	10.37 AM
		Sampled By:	S.C.
Heat Trace:	N	Sampled by (CO):	ABC
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.7954	0.2442	0.6390	0.00	0.0561
CO2	0.0451	0.0019	0.0080	0.00	0.0007
Methane	90.9342	3.8317	15.4480	918.44	0.5037
Ethane	1.3148	0.0554	0.3520	23.27	0.0137
Propane	0.4557	0.0192	0.1260	11.47	0.0069
Iso-Butane	0.0736	0.0031	0.0240	2.39	0.0015
N-Butane	0.1875	0.0079	0.0590	6.12	0.0038
I-Pentane	0.0736	0.0031	0.0270	2.94	0.0018
N-Pentane	0.0332	0.0014	0.0120	1.33	0.0008
Hexane Plus	1.0869	0.0458	0.4860	57.29	0.0360
<b>Total</b>	<b>100.0000</b>	<b>4.2137</b>	<b>17.1810</b>	<b>1023.25</b>	<b>0.6249</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	024
BTU/CU.FT IDEAL:	1025.6	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1028.0	ANALYSIS DATE:	09/25/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1010.1	ANALYSIS TIME:	10:14:12 AM
DRY BTU @ 15.025:	1048.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6261		

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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD  
WELL ANALYSIS COMPARISON

**Lease:** BURNHAM GC 1E; BHD  
**Stn. No.:** 3004524088  
**Mtr. No.:**

BRADENHEAD

09/25/2024  
69350-10815

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**Smpl Date:** 09/24/2024  
**Test Date:** 09/25/2024  
**Run No:** SB20240063  
**Nitrogen:** 5.7954  
**CO2:** 0.0451  
**Methane:** 90.9342  
**Ethane:** 1.3148  
**Propane:** 0.4557  
**I-Butane:** 0.0736  
**N-Butane:** 0.1875  
**I-Pentane:** 0.0736  
**N-Pentane:** 0.0332  
**Hexane+:** 1.0869  
**BTU:** 1028.0  
**GPM:** 17.1810  
**SPG:** 0.6261



Well Name: BURNHAM GC 1E; CSG  
 API #: 3004524088  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: SB20240064  
 Cust No: 69350-10820

**Well/Lease Information**

Customer Name: SIMCOE SOUTH BHD  
 Well Name: BURNHAM GC 1E; CSG  
 County/State:  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.: 3004524088

Source: CASING  
 Well Flowing: Y  
 Pressure: 125 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 77 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 09/24/2024  
 Sample Time: 10.40 AM  
 Sampled By: S.C.  
 Sampled by (CO): ABC

Heat Trace: N  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9892	1.0001	0.1090	0.00	0.0096
CO2	1.3433	1.3581	0.2300	0.00	0.0204
Methane	80.7614	81.6541	13.7360	815.69	0.4473
Ethane	8.6866	8.7826	2.3310	153.73	0.0902
Propane	4.6438	4.6951	1.2840	116.84	0.0707
Iso-Butane	0.5769	0.5833	0.1890	18.76	0.0116
N-Butane	1.4325	1.4483	0.4530	46.73	0.0287
I-Pentane	0.3733	0.3774	0.1370	14.94	0.0093
N-Pentane	0.2933	0.2965	0.1070	11.76	0.0073
Hexane Plus	0.8997	0.9096	0.4030	47.42	0.0298
<b>Total</b>	<b>100.0000</b>	<b>101.1051</b>	<b>18.9790</b>	<b>1225.87</b>	<b>0.7249</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035  
 BTU/CU.FT IDEAL: 1228.7  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1233.0  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1211.5  
 DRY BTU @ 15.025: 1257.7  
 REAL SPECIFIC GRAVITY: 0.7272

CYLINDER #: 1447  
 CYLINDER PRESSURE: 110 PSIG  
 ANALYSIS DATE: 09/25/2024  
 ANALYSIS TIME: 11:11:19 AM  
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD  
WELL ANALYSIS COMPARISON

**Lease:** BURNHAM GC 1E; CSG  
**Stn. No.:** 3004524088  
**Mtr. No.:**

CASING

09/25/2024  
69350-10820

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**Smpl Date:** 09/24/2024  
**Test Date:** 09/25/2024  
**Run No:** SB20240064  
**Nitrogen:** 0.9892  
**CO2:** 1.3433  
**Methane:** 80.7614  
**Ethane:** 8.6866  
**Propane:** 4.6438  
**I-Butane:** 0.5769  
**N-Butane:** 1.4325  
**I-Pentane:** 0.3733  
**N-Pentane:** 0.2933  
**Hexane+:** 0.8997  
**BTU:** 1233.0  
**GPM:** 18.9790  
**SPG:** 0.7272



Well Name: BURNHAM GC 1E; TBG  
 API #: 3004524088  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: SB20240065  
 Cust No: 69350-10825

**Well/Lease Information**

Customer Name: SIMCOE SOUTH BHD  
 Well Name: BURNHAM GC 1E; TBG  
 County/State:  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.: 3004524088

Source: TUBING  
 Well Flowing: Y  
 Pressure: 95 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 77 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 09/24/2024  
 Sample Time: 10.44 AM  
 Sampled By: S.C.  
 Sampled by (CO): ABC

Heat Trace: N  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4023	0.4063	0.0440	0.00	0.0039
CO2	1.1703	1.1821	0.2000	0.00	0.0178
Methane	82.5302	83.3596	14.0350	833.55	0.4571
Ethane	9.0265	9.1172	2.4220	159.74	0.0937
Propane	3.9201	3.9595	1.0830	98.63	0.0597
Iso-Butane	0.5504	0.5559	0.1810	17.90	0.0110
N-Butane	1.1088	1.1199	0.3510	36.17	0.0223
I-Pentane	0.3289	0.3322	0.1210	13.16	0.0082
N-Pentane	0.2228	0.2250	0.0810	8.93	0.0056
Hexane Plus	0.7397	0.7471	0.3310	38.99	0.0245
<b>Total</b>	<b>100.0000</b>	<b>101.0048</b>	<b>18.8490</b>	<b>1207.08</b>	<b>0.7037</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034  
 BTU/CU.FT IDEAL: 1209.9  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1213.9  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1192.8  
 DRY BTU @ 15.025: 1238.2  
 REAL SPECIFIC GRAVITY: 0.7058

CYLINDER #: 9004  
 CYLINDER PRESSURE: 95 PSIG  
 ANALYSIS DATE: 09/25/2024  
 ANALYSIS TIME: 11:02:57 AM  
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 09/25/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD  
WELL ANALYSIS COMPARISON

**Lease:** BURNHAM GC 1E; TBG  
**Stn. No.:** 3004524088  
**Mtr. No.:**

TUBING

09/25/2024  
69350-10825

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**Smpl Date:** 09/24/2024  
**Test Date:** 09/25/2024  
**Run No:** SB20240065

**Nitrogen:** 0.4023  
**CO2:** 1.1703  
**Methane:** 82.5302  
**Ethane:** 9.0265  
**Propane:** 3.9201  
**I-Butane:** 0.5504  
**N-Butane:** 1.1088  
**I-Pentane:** 0.3289  
**N-Pentane:** 0.2228  
**Hexane+:** 0.7397

**BTU:** 1213.9  
**GPM:** 18.8490  
**SPG:** 0.7058

**District I**  
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**District II**  
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**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**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 395525

**CONDITIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 395525
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

**CONDITIONS**

Created By	Condition	Condition Date
mkuehling	None	10/25/2024