



Well Name: GCU 227E; BHD

API #: 3004523899

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240049

Cust No: 69350-10875

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 227E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004523899

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 20 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2024
 Sample Time: 10.00 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9190	0.9122	0.1010	0.00	0.0089
CO2	0.0192	0.0191	0.0030	0.00	0.0003
Methane	93.0734	92.3831	15.8130	940.04	0.5155
Ethane	3.9992	3.9695	1.0720	70.77	0.0415
Propane	1.2635	1.2541	0.3490	31.79	0.0192
Iso-Butane	0.2329	0.2312	0.0760	7.57	0.0047
N-Butane	0.2376	0.2358	0.0750	7.75	0.0048
I-Pentane	0.0655	0.0650	0.0240	2.62	0.0016
N-Pentane	0.0264	0.0262	0.0100	1.06	0.0007
Hexane Plus	0.1633	0.1621	0.0730	8.61	0.0054
Total	100.0000	99.2583	17.5960	1070.22	0.6026

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1072.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1075.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1056.6
 DRY BTU @ 15.025: 1096.8
 REAL SPECIFIC GRAVITY: 0.6038

CYLINDER #: 1498
 CYLINDER PRESSURE: 17 PSIG
 ANALYSIS DATE: 08/23/2024
 ANALYSIS TIME: 09:35:29 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: 08/29/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 227E; BHD
Stn. No.: 3004523899
Mtr. No.:

BRADENHEAD

08/29/2024
69350-10875

Smpl Date: 08/15/2024
Test Date: 08/23/2024
Run No: SB20240049

Nitrogen: 0.9190
CO2: 0.0192
Methane: 93.0734
Ethane: 3.9992
Propane: 1.2635
I-Butane: 0.2329
N-Butane: 0.2376
I-Pentane: 0.0655
N-Pentane: 0.0264
Hexane+: 0.1633

BTU: 1075.3
GPM: 17.5960
SPG: 0.6038



Well Name: GCU 227E; CSG

API #: 3004523899

Source: CASING

Sample Type: GAS

Analysis No: SB20240050

Cust No: 69350-10880

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 227E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004523899

Source: CASING
 Well Flowing: Y
 Pressure: 23 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2024
 Sample Time: 10.06 AM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4199	0.4221	0.0460	0.00	0.0041
CO2	0.5388	0.5416	0.0920	0.00	0.0082
Methane	74.4467	74.8286	12.6750	751.91	0.4124
Ethane	12.0882	12.1502	3.2470	213.92	0.1255
Propane	6.8718	6.9071	1.9010	172.90	0.1046
Iso-Butane	1.0037	1.0089	0.3300	32.64	0.0201
N-Butane	2.0556	2.0661	0.6510	67.06	0.0413
I-Pentane	0.6336	0.6369	0.2330	25.35	0.0158
N-Pentane	0.5136	0.5162	0.1870	20.59	0.0128
Hexane Plus	1.4281	1.4354	0.6400	75.28	0.0473
Total	100.0000	100.5131	20.0020	1359.65	0.7920

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0045
 BTU/CU.FT IDEAL: 1362.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1369.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1345.2
 DRY BTU @ 15.025: 1396.4
 REAL SPECIFIC GRAVITY: 0.7952

CYLINDER #: 2120
 CYLINDER PRESSURE: 23 PSIG
 ANALYSIS DATE: 08/23/2024
 ANALYSIS TIME: 09:29:06 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: 08/29/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 227E; CSG
Stn. No.: 3004523899
Mtr. No.:

CASING

08/29/2024
69350-10880

Smpl Date: 08/15/2024
Test Date: 08/23/2024
Run No: SB20240050

Nitrogen: 0.4199
CO2: 0.5388
Methane: 74.4467
Ethane: 12.0882
Propane: 6.8718
I-Butane: 1.0037
N-Butane: 2.0556
I-Pentane: 0.6336
N-Pentane: 0.5136
Hexane+: 1.4281

BTU: 1369.0
GPM: 20.0020
SPG: 0.7952

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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 379277

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 379277
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record	10/10/2024