

Well Name: GCU 153E; BHD
 API #: API # 300452429200
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021001
 Cust No: 69350-10005

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 153E; BHD
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300452429200
 94160

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 72 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 52 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 03/18/2021
 Sample Time: 12.00 PM
 Sampled By: SEAN CASAUS
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.5621	5.4046	0.6130	0.00	0.0538
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	92.7946	90.1661	15.7590	937.23	0.5140
Ethane	0.8336	0.8100	0.2230	14.75	0.0087
Propane	0.2966	0.2882	0.0820	7.46	0.0045
Iso-Butane	0.0612	0.0595	0.0200	1.99	0.0012
N-Butane	0.1240	0.1205	0.0390	4.05	0.0025
I-Pentane	0.0722	0.0702	0.0260	2.89	0.0018
N-Pentane	0.0771	0.0749	0.0280	3.09	0.0019
Hexane Plus	0.1786	0.1735	0.0800	9.41	0.0059
Total	100.0000	97.1675	16.8700	980.87	0.5943

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 983.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 985.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 968.0
 DRY BTU @ 15.025: 1004.8
 REAL SPECIFIC GRAVITY: 0.5953

CYLINDER #: 1064
 CYLINDER PRESSURE: 72 PSIG
 ANALYSIS DATE: 03/22/2021
 ANALYSIS TIME: 11:21:00 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: 03/23/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 153E; BHD
Stn. No.: API #
Mtr. No.: 94160

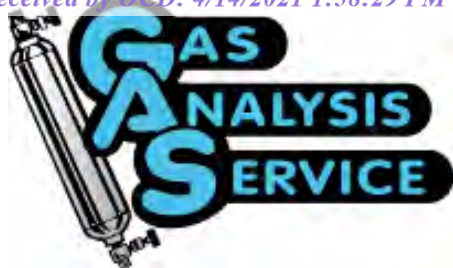
BRADENHEAD

03/23/2021
69350-10005

Smpl Date: 03/18/2021
Test Date: 03/22/2021
Run No: SB2021001

Nitrogen: 5.5621
CO2: 0.0000
Methane: 92.7946
Ethane: 0.8336
Propane: 0.2966
I-Butane: 0.0612
N-Butane: 0.1240
I-Pentane: 0.0722
N-Pentane: 0.0771
Hexane+: 0.1786

BTU: 985.1
GPM: 16.8700
SPG: 0.5953



Well Name: GCU 153E; CSG
 API #: API # 300452429200
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021002
 Cust No: 69350-10000

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 153E; CSG
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300452429200
 94160

Source: CASING
 Well Flowing: N
 Pressure: 452 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 52 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 03/18/2021
 Sample Time: 12.05 PM
 Sampled By: SEAN CASAUS
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.6095	5.5518	0.6180	0.00	0.0543
CO2	0.1952	0.1932	0.0330	0.00	0.0030
Methane	92.5512	91.5994	15.7180	934.77	0.5126
Ethane	0.7999	0.7917	0.2140	14.16	0.0083
Propane	0.4763	0.4714	0.1310	11.98	0.0073
Iso-Butane	0.1517	0.1501	0.0500	4.93	0.0030
N-Butane	0.0578	0.0572	0.0180	1.89	0.0012
I-Pentane	0.0310	0.0307	0.0110	1.24	0.0008
N-Pentane	0.0174	0.0172	0.0060	0.70	0.0004
Hexane Plus	0.1100	0.1089	0.0490	5.80	0.0036
Total	100.0000	98.9716	16.8480	975.46	0.5945

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 977.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 979.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 962.7
 DRY BTU @ 15.025: 999.3
 REAL SPECIFIC GRAVITY: 0.5954

CYLINDER #: 1086
 CYLINDER PRESSURE: 433 PSIG
 ANALYSIS DATE: 03/22/2021
 ANALYSIS TIME: 11:19:26 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: 03/23/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 153E; CSG
Stn. No.: API #
Mtr. No.: 94160

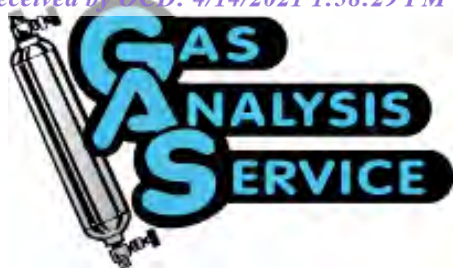
CASING

03/23/2021
69350-10000

Smpl Date: 03/18/2021
Test Date: 03/22/2021
Run No: SB2021002

Nitrogen: 5.6095
CO2: 0.1952
Methane: 92.5512
Ethane: 0.7999
Propane: 0.4763
I-Butane: 0.1517
N-Butane: 0.0578
I-Pentane: 0.0310
N-Pentane: 0.0174
Hexane+: 0.1100

BTU: 979.7
GPM: 16.8480
SPG: 0.5954



Well Name: GCU 153E; TBG
 API #: API # 300452429200
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021003
 Cust No: 69350-10010

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 153E; TBG
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300452429200
 94160

Source: TUBING
 Well Flowing: N
 Pressure: 452 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 52 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 03/18/2021
 Sample Time: 12.10 PM
 Sampled By: SEAN CASAUS
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.6414	5.5785	0.6220	0.00	0.0546
CO2	0.1946	0.1924	0.0330	0.00	0.0030
Methane	92.5401	91.5082	15.7160	934.66	0.5126
Ethane	0.7765	0.7678	0.2080	13.74	0.0081
Propane	0.4536	0.4485	0.1250	11.41	0.0069
Iso-Butane	0.1488	0.1471	0.0490	4.84	0.0030
N-Butane	0.0587	0.0580	0.0190	1.91	0.0012
I-Pentane	0.0341	0.0337	0.0120	1.36	0.0008
N-Pentane	0.0193	0.0191	0.0070	0.77	0.0005
Hexane Plus	0.1329	0.1314	0.0590	7.01	0.0044
Total	100.0000	98.8847	16.8500	975.71	0.5950

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 978.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 979.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 962.8
 DRY BTU @ 15.025: 999.5
 REAL SPECIFIC GRAVITY: 0.5959

CYLINDER #: 1106
 CYLINDER PRESSURE: 428 PSIG
 ANALYSIS DATE: 03/22/2021
 ANALYSIS TIME: 01:13:18 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: 03/23/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: GCU 153E; TBG
Stn. No.: API #
Mtr. No.: 94160

TUBING

03/23/2021
69350-10010

Smpl Date: 03/18/2021
Test Date: 03/22/2021
Run No: SB2021003

Nitrogen: 5.6414
CO2: 0.1946
Methane: 92.5401
Ethane: 0.7765
Propane: 0.4536
I-Butane: 0.1488
N-Butane: 0.0587
I-Pentane: 0.0341
N-Pentane: 0.0193
Hexane+: 0.1329

BTU: 979.9
GPM: 16.8500
SPG: 0.5959

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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
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 24048

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	24048	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		