



Well Name: GCU 182E; CSG
 API #: API # 300452486400
 Source: CASING
 Sample Type: GAS
 Analysis No: SB2021007
 Cust No: 69350-10030

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 182E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391A
 Formation:
 Cust. Stn. No.: API # 300452486400
 52902238

Source: CASING
 Well Flowing:
 Pressure: 61 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 72 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/01/2021
 Sample Time: 4.30 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2971	0.2925	0.0330	0.00	0.0029
CO2	0.0026	0.0026	0.0000	0.00	0.0000
Methane	96.3185	94.8191	16.3610	972.82	0.5335
Ethane	2.4879	2.4492	0.6670	44.03	0.0258
Propane	0.6601	0.6498	0.1820	16.61	0.0101
Iso-Butane	0.1863	0.1834	0.0610	6.06	0.0037
N-Butane	0.0271	0.0267	0.0090	0.88	0.0005
I-Pentane	0.0137	0.0135	0.0050	0.55	0.0003
N-Pentane	0.0021	0.0021	0.0010	0.08	0.0001
Hexane Plus	0.0046	0.0045	0.0020	0.24	0.0002
Total	100.0000	98.4434	17.3210	1041.27	0.5771

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1043.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1046.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1027.8
 DRY BTU @ 15.025: 1066.9
 REAL SPECIFIC GRAVITY: 0.5782

CYLINDER #: 24
 CYLINDER PRESSURE: 57 PSIG
 ANALYSIS DATE: 04/13/2021
 ANALYSIS TIME: 08:14:29 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: 04/14/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 182E; CSG	CASING	04/14/2021
Stn. No.:	API #		69350-10030
Mtr. No.:	52902238		

Smpl Date: 04/01/2021
Test Date: 04/13/2021
Run No: SB2021007

Nitrogen: 0.2971
CO2: 0.0026
Methane: 96.3185
Ethane: 2.4879
Propane: 0.6601
I-Butane: 0.1863
N-Butane: 0.0271
I-Pentane: 0.0137
N-Pentane: 0.0021
Hexane+: 0.0046

BTU: 1046.0
GPM: 17.3210
SPG: 0.5782



Well Name: GCU 182E; BHD
 API #: API # 300452486400
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021008
 Cust No: 69350-10035

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: GCU 182E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM78391A
 Formation:
 Cust. Stn. No.: API # 300452486400
 52902238

Source: BRADENHEAD
 Well Flowing:
 Pressure: 26 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 72 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/01/2021
 Sample Time: 4.21 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8452	0.8273	0.0930	0.00	0.0082
CO2	0.0042	0.0041	0.0010	0.00	0.0001
Methane	81.7219	79.9876	13.8980	825.39	0.4527
Ethane	8.3918	8.2137	2.2510	148.51	0.0871
Propane	5.7120	5.5908	1.5790	143.72	0.0870
Iso-Butane	1.2222	1.1963	0.4010	39.74	0.0245
N-Butane	1.3060	1.2783	0.4130	42.61	0.0262
I-Pentane	0.3698	0.3620	0.1360	14.80	0.0092
N-Pentane	0.2587	0.2532	0.0940	10.37	0.0064
Hexane Plus	0.1682	0.1646	0.0750	8.87	0.0056
Total	100.0000	97.8779	18.9410	1234.00	0.7069

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1236.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1241.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1219.5
 DRY BTU @ 15.025: 1266.0
 REAL SPECIFIC GRAVITY: 0.7091

CYLINDER #: 1069
 CYLINDER PRESSURE: 26 PSIG
 ANALYSIS DATE: 04/13/2021
 ANALYSIS TIME: 08:02:18 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: 04/14/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 182E; BHD	BRADENHEAD	04/14/2021
Stn. No.:	API #		69350-10035
Mtr. No.:	52902238		

Smpl Date: 04/01/2021
Test Date: 04/13/2021
Run No: SB2021008

Nitrogen: 0.8452
CO2: 0.0042
Methane: 81.7219
Ethane: 8.3918
Propane: 5.7120
I-Butane: 1.2222
N-Butane: 1.3060
I-Pentane: 0.3698
N-Pentane: 0.2587
Hexane+: 0.1682

BTU: 1241.1
GPM: 18.9410
SPG: 0.7091



Well Name: GCU 182E; TBG
 API #: API # 30042486400
 Source: TUBING
 Sample Type: GAS
 Analysis No: SB2021009
 Cust No: 69350-10040

Well/Lease Information

Customer Name:	SIMCOE SOUTH BHD	Source:	TUBING
Well Name:	GCU 182E; TBG	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	3 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	NMNM78391A	Ambient Temp:	72 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 30042486400	Sample Method:	Purge & Fill
	52902238	Sample Date:	04/01/2021
		Sample Time:	4.25 PM
		Sampled By:	CELIA L.
		Sampled by (CO):	ABC
Heat Trace:	N		
Remarks:	PRESSURED WITH HELIUM TO 30LBS		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7122	0.2678	0.0790	0.00	0.0069
CO2	0.0447	0.0168	0.0080	0.00	0.0007
Methane	95.7115	35.9873	16.2580	966.69	0.5301
Ethane	2.3944	0.9003	0.6420	42.37	0.0249
Propane	0.6830	0.2568	0.1890	17.18	0.0104
Iso-Butane	0.2154	0.0810	0.0710	7.00	0.0043
N-Butane	0.0420	0.0158	0.0130	1.37	0.0008
I-Pentane	0.0255	0.0096	0.0090	1.02	0.0006
N-Pentane	0.0117	0.0044	0.0040	0.47	0.0003
Hexane Plus	0.1596	0.0600	0.0710	8.41	0.0053
Total	100.0000	37.5998	17.3440	1044.52	0.5843

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0022	CYLINDER #:	1088
BTU/CU.FT IDEAL:	1046.9	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1049.2	ANALYSIS DATE:	04/13/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1030.9	ANALYSIS TIME:	08:20:56 AM
DRY BTU @ 15.025:	1070.2	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.5854		

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: 04/14/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	GCU 182E; TBG	TUBING	04/14/2021
Stn. No.:	API # 30042486400		69350-10040
Mtr. No.:	52902238		

Smpl Date: 04/01/2021
Test Date: 04/13/2021
Run No: SB2021009

Nitrogen: 0.7122
CO2: 0.0447
Methane: 95.7115
Ethane: 2.3944
Propane: 0.6830
I-Butane: 0.2154
N-Butane: 0.0420
I-Pentane: 0.0255
N-Pentane: 0.0117
Hexane+: 0.1596

BTU: 1049.2
GPM: 17.3440
SPG: 0.5854

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District IV
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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 24065

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	24065	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		