



Well Name: IRVIN COM 1E; BHD
 API #: 3004525841
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SB2021084
 Cust No: 69350-10415

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: IRVIN COM 1E; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004525841

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 78 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2021
 Sample Time: 3.12 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9840	0.9371	0.1080	0.00	0.0095
CO2	0.0020	0.0019	0.0000	0.00	0.0000
Methane	95.4281	90.8759	16.2090	963.82	0.5286
Ethane	2.9949	2.8520	0.8030	53.00	0.0311
Propane	0.4214	0.4013	0.1160	10.60	0.0064
Iso-Butane	0.0703	0.0669	0.0230	2.29	0.0014
N-Butane	0.0412	0.0392	0.0130	1.34	0.0008
I-Pentane	0.0092	0.0088	0.0030	0.37	0.0002
N-Pentane	0.0030	0.0029	0.0010	0.12	0.0001
Hexane Plus	0.0459	0.0437	0.0210	2.42	0.0015
Total	100.0000	95.2297	17.2970	1033.97	0.5797

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1036.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1038.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1020.4
 DRY BTU @ 15.025: 1059.3
 REAL SPECIFIC GRAVITY: 0.5807

CYLINDER #: 099
 CYLINDER PRESSURE: 67 PSIG
 ANALYSIS DATE: 05/19/2021
 ANALYSIS TIME: 11:03:52 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: 05/20/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: IRVIN COM 1E; BHD
Stn. No.: 3004525841
Mtr. No.:

BRADENHEAD

05/20/2021
69350-10415

Smpl Date: 05/12/2021
Test Date: 05/19/2021
Run No: SB2021084

Nitrogen: 0.9840
CO2: 0.0020
Methane: 95.4281
Ethane: 2.9949
Propane: 0.4214
I-Butane: 0.0703
N-Butane: 0.0412
I-Pentane: 0.0092
N-Pentane: 0.0030
Hexane+: 0.0459

BTU: 1038.5
GPM: 17.2970
SPG: 0.5807



Well Name: IRVIN COM 1E; CSG

API #: 3004525841

Source: CASING

Sample Type: GAS

Analysis No: SB2021085

Cust No: 69350-10420

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: IRVIN COM 1E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004525841

Source: CASING
 Well Flowing: Y
 Pressure: 122 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 78 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2021
 Sample Time: 3.11 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.2142	1.8978	0.2450	0.00	0.0214
CO2	0.0097	0.0083	0.0020	0.00	0.0001
Methane	57.1378	48.9732	9.7490	577.09	0.3165
Ethane	14.7080	12.6064	3.9590	260.29	0.1527
Propane	13.3186	11.4155	3.6930	335.11	0.2028
Iso-Butane	2.5343	2.1722	0.8350	82.41	0.0509
N-Butane	6.1705	5.2888	1.9580	201.30	0.1238
I-Pentane	1.9113	1.6382	0.7030	76.47	0.0476
N-Pentane	1.5936	1.3659	0.5810	63.88	0.0397
Hexane Plus	0.4020	0.3446	0.1800	21.19	0.0133
Total	100.0000	85.7109	21.9050	1617.74	0.9688

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0067
 BTU/CU.FT IDEAL: 1621.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1632.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1604.0
 DRY BTU @ 15.025: 1665.1
 REAL SPECIFIC GRAVITY: 0.975

CYLINDER #: 008
 CYLINDER PRESSURE: 116 PSIG
 ANALYSIS DATE: 05/19/2021
 ANALYSIS TIME: 11:17:27 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: 05/20/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: IRVIN COM 1E; CSG
Stn. No.: 3004525841
Mtr. No.:

CASING

05/20/2021
69350-10420

Smpl Date: 05/12/2021
Test Date: 05/19/2021
Run No: SB2021085

Nitrogen: 2.2142
CO2: 0.0097
Methane: 57.1378
Ethane: 14.7080
Propane: 13.3186
I-Butane: 2.5343
N-Butane: 6.1705
I-Pentane: 1.9113
N-Pentane: 1.5936
Hexane+: 0.4020

BTU: 1632.4
GPM: 21.9050
SPG: 0.9750



Well Name: IRVIN COM 1E; TBG

API #: 3004525841

Source: TUBING

Sample Type: GAS

Analysis No: SB2021086

Cust No: 69350-10425

Well/Lease Information

Customer Name: SIMCOE SOUTH BHD
 Well Name: IRVIN COM 1E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004525841

Source: TUBING
 Well Flowing: Y
 Pressure: 115 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 78 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2021
 Sample Time: 3.09 PM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5916	0.5830	0.0650	0.00	0.0057
CO2	1.0528	1.0374	0.1800	0.00	0.0160
Methane	80.6426	79.4638	13.7160	814.49	0.4467
Ethane	10.0969	9.9493	2.7090	178.68	0.1048
Propane	4.3482	4.2846	1.2020	109.41	0.0662
Iso-Butane	0.6184	0.6094	0.2030	20.11	0.0124
N-Butane	1.1751	1.1579	0.3720	38.34	0.0236
I-Pentane	0.3635	0.3582	0.1330	14.54	0.0091
N-Pentane	0.3168	0.3122	0.1150	12.70	0.0079
Hexane Plus	0.7941	0.7825	0.3550	41.86	0.0263
Total	100.0000	98.5383	19.0500	1230.13	0.7186

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1233.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1237.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1215.8
 DRY BTU @ 15.025: 1262.1
 REAL SPECIFIC GRAVITY: 0.7209

CYLINDER #: 015
 CYLINDER PRESSURE: 111 PSIG
 ANALYSIS DATE: 05/19/2021
 ANALYSIS TIME: 11:29:22 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: 05/20/2021

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease: IRVIN COM 1E; TBG
Stn. No.: 3004525841
Mtr. No.:

TUBING

05/20/2021
69350-10425

Smpl Date: 05/12/2021
Test Date: 05/19/2021
Run No: SB2021086

Nitrogen: 0.5916
CO2: 1.0528
Methane: 80.6426
Ethane: 10.0969
Propane: 4.3482
I-Butane: 0.6184
N-Butane: 1.1751
I-Pentane: 0.3635
N-Pentane: 0.3168
Hexane+: 0.7941

BTU: 1237.3
GPM: 19.0500
SPG: 0.7209

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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 30416

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 30416
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/14/2021