



Well Name: IRVIN COM 1E; BHD

API #: 3004525841

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SB20240108

Cust No: 69350-11050

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: N
 Pressure: 26 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 82 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 1.00 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9282	0.8933	0.1020	0.00	0.0090
CO2	0.0107	0.0103	0.0020	0.00	0.0002
Methane	95.4981	91.9043	16.2200	964.53	0.5290
Ethane	2.9871	2.8747	0.8000	52.86	0.0310
Propane	0.4234	0.4075	0.1170	10.65	0.0064
Iso-Butane	0.0706	0.0679	0.0230	2.30	0.0014
N-Butane	0.0476	0.0458	0.0150	1.55	0.0010
I-Pentane	0.0100	0.0096	0.0040	0.40	0.0002
N-Pentane	0.0027	0.0026	0.0010	0.11	0.0001
Hexane Plus	0.0216	0.0208	0.0100	1.14	0.0007
Total	100.0000	96.2368	17.2940	1033.54	0.5790

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 1035.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1038.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1020.0
 DRY BTU @ 15.025: 1058.9
 REAL SPECIFIC GRAVITY: 0.58

CYLINDER #: 1385
 CYLINDER PRESSURE: 20 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 09:53:41 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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

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

BRADENHEAD

10/21/2024
69350-11050

Smpl Date: 10/10/2024
Test Date: 10/17/2024
Run No: SB20240108
Nitrogen: 0.9282
CO2: 0.0107
Methane: 95.4981
Ethane: 2.9871
Propane: 0.4234
I-Butane: 0.0706
N-Butane: 0.0476
I-Pentane: 0.0100
N-Pentane: 0.0027
Hexane+: 0.0216
BTU: 1038.1
GPM: 17.2940
SPG: 0.5800



Well Name: IRVIN COM 1E; CSG

API #: 3004525841

Source: CASING

Sample Type: GAS

Analysis No: SB20240109

Cust No: 69350-11055

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: 109 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 82 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 1.05 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5225	0.4801	0.0580	0.00	0.0051
CO2	0.0113	0.0104	0.0020	0.00	0.0002
Methane	68.0949	62.5739	11.6080	687.76	0.3772
Ethane	12.0961	11.1154	3.2530	214.06	0.1256
Propane	8.5341	7.8422	2.3640	214.73	0.1299
Iso-Butane	1.7390	1.5980	0.5720	56.55	0.0349
N-Butane	4.3052	3.9561	1.3650	140.45	0.0864
I-Pentane	1.8385	1.6894	0.6760	73.56	0.0458
N-Pentane	1.6223	1.4908	0.5910	65.03	0.0404
Hexane Plus	1.2361	1.1359	0.5540	65.16	0.0409
Total	100.0000	91.8922	21.0430	1517.29	0.8863

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0058
 BTU/CU.FT IDEAL: 1520.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1529.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1502.9
 DRY BTU @ 15.025: 1560.1
 REAL SPECIFIC GRAVITY: 0.8911

CYLINDER #: 9021
 CYLINDER PRESSURE: 94 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 10:05:06 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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	IRVIN COM 1E; CSG	CASING	10/21/2024
Stn. No.:	3004525841		69350-11055
Mtr. No.:			

Smpl Date:	10/10/2024
Test Date:	10/17/2024
Run No:	SB20240109
Nitrogen:	0.5225
CO2:	0.0113
Methane:	68.0949
Ethane:	12.0961
Propane:	8.5341
I-Butane:	1.7390
N-Butane:	4.3052
I-Pentane:	1.8385
N-Pentane:	1.6223
Hexane+:	1.2361
BTU:	1529.5
GPM:	21.0430
SPG:	0.8911



Well Name: IRVIN COM 1E; TBG

API #: 3004525841

Source: TUBING

Sample Type: GAS

Analysis No: SB20240110

Cust No: 69350-11060

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: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 82 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/10/2024
 Sample Time: 1.10 PM
 Sampled By: S.C
 Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5979	0.5978	0.0660	0.00	0.0058
CO2	1.0288	1.0287	0.1760	0.00	0.0156
Methane	80.9663	80.9569	13.7710	817.76	0.4485
Ethane	9.7922	9.7911	2.6270	173.29	0.1017
Propane	4.2317	4.2312	1.1700	106.47	0.0644
Iso-Butane	0.6076	0.6075	0.1990	19.76	0.0122
N-Butane	1.1491	1.1490	0.3630	37.49	0.0231
I-Pentane	0.3887	0.3887	0.1430	15.55	0.0097
N-Pentane	0.2807	0.2807	0.1020	11.25	0.0070
Hexane Plus	0.9570	0.9569	0.4280	50.44	0.0317
Total	100.0000	99.9885	19.0450	1232.02	0.7196

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1234.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1239.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1217.6
 DRY BTU @ 15.025: 1264.0
 REAL SPECIFIC GRAVITY: 0.7218

CYLINDER #: 212
 CYLINDER PRESSURE: 71 PSIG
 ANALYSIS DATE: 10/17/2024
 ANALYSIS TIME: 10:12:57 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: 10/21/2024

GC Method: C6+ Gas



SIMCOE SOUTH BHD
WELL ANALYSIS COMPARISON

Lease:	IRVIN COM 1E; TBG	TUBING	10/21/2024
Stn. No.:	3004525841		69350-11060
Mtr. No.:			

Smpl Date:	10/10/2024
Test Date:	10/17/2024
Run No:	SB20240110
Nitrogen:	0.5979
CO2:	1.0288
Methane:	80.9663
Ethane:	9.7922
Propane:	4.2317
I-Butane:	0.6076
N-Butane:	1.1491
I-Pentane:	0.3887
N-Pentane:	0.2807
Hexane+:	0.9570
BTU:	1239.2
GPM:	19.0450
SPG:	0.7218

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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 395539

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 395539
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	gas does not appear to be the same	10/25/2024