



Well Name: HORTON 2C; BHD
 API #: 3004531435
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: EP20230159
 Cust No: 77000-11985

Well/Lease Information

Customer Name: EPIC ENERGY
 Well Name: HORTON 2C; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSE078039B
 Formation:
 Cust. Stn. No.: 3004531435

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 117 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 63 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/23/2023
 Sample Time: 11.40 AM
 Sampled By: MIKE WAGONER
 Sampled by (CO): WALSH

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.7035	3.6855	0.4080	0.00	0.0358
CO2	0.0243	0.0242	0.0040	0.00	0.0004
Methane	88.2343	87.8045	14.9920	891.17	0.4887
Ethane	4.9040	4.8801	1.3140	86.79	0.0509
Propane	1.8886	1.8794	0.5210	47.52	0.0288
Iso-Butane	0.4270	0.4249	0.1400	13.89	0.0086
N-Butane	0.4369	0.4348	0.1380	14.25	0.0088
I-Pentane	0.1568	0.1560	0.0570	6.27	0.0039
N-Pentane	0.0638	0.0635	0.0230	2.56	0.0016
Hexane Plus	0.1608	0.1600	0.0720	8.48	0.0053
Total	100.0000	99.5129	17.6690	1070.92	0.6327

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 1073.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1076.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1057.3
 DRY BTU @ 15.025: 1097.5
 REAL SPECIFIC GRAVITY: 0.634

CYLINDER #: 5027
 CYLINDER PRESSURE: 36 PSIG
 ANALYSIS DATE: 05/25/2023
 ANALYSIS TIME: 09:35:51 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: 06/09/2023

GC Method: C6+ Gas



EPIC ENERGY
WELL ANALYSIS COMPARISON

Lease: HORTON 2C; BHD
Stn. No.: 3004531435
Mtr. No.:

BRADENHEAD

06/09/2023
77000-11985

Smpl Date: 05/23/2023
Test Date: 05/25/2023
Run No: EP20230159

Nitrogen: 3.7035
CO2: 0.0243
Methane: 88.2343
Ethane: 4.9040
Propane: 1.8886
I-Butane: 0.4270
N-Butane: 0.4369
I-Pentane: 0.1568
N-Pentane: 0.0638
Hexane+: 0.1608

BTU: 1076.0
GPM: 17.6690
SPG: 0.6340



Well Name: HORTON 2C; CSG
 API #: 3004531435
 Source: CASING
 Sample Type: GAS
 Analysis No: EP20230160
 Cust No: 77000-11990

Well/Lease Information

Customer Name: EPIC ENERGY
 Well Name: HORTON 2C; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSE078839B
 Formation:
 Cust. Str. No.: 3004531435

Source: CASING
 Well Flowing: Y
 Pressure: 117 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 63 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/23/2023
 Sample Time: 11.40 AM
 Sampled By: MIKE WAGONER
 Sampled by (CO): WALSH

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1114	0.1092	0.0120	0.00	0.0011
CO2	1.7942	1.7590	0.3070	0.00	0.0273
Methane	81.4715	79.8752	13.8570	822.86	0.4513
Ethane	9.6435	9.4545	2.5870	170.66	0.1001
Propane	3.8130	3.7383	1.0540	95.94	0.0581
Iso-Butane	0.7675	0.7525	0.2520	24.96	0.0154
N-Butane	0.9303	0.9121	0.2940	30.35	0.0187
I-Pentane	0.3667	0.3595	0.1350	14.67	0.0091
N-Pentane	0.2558	0.2508	0.0930	10.25	0.0064
Hexane Plus	0.8461	0.8295	0.3790	44.60	0.0280
Total	100.0000	98.0406	18.9700	1214.29	0.7154

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1217.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.1
 DRY BTU @ 15.025: 1245.9
 REAL SPECIFIC GRAVITY: 0.7176

CYLINDER #: 6123
 CYLINDER PRESSURE: 115 PSIG
 ANALYSIS DATE: 05/25/2023
 ANALYSIS TIME: 09:50:31 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

GC Method: C6+ Gas

Last Cal/Verify: 06/09/2023



EPIC ENERGY
WELL ANALYSIS COMPARISON

Lease: HORTON 2C; CSG
Stn. No.: 3004531435
Mtr. No.:

CASING

06/09/2023
77000-11990

Smpl Date: 05/23/2023
Test Date: 05/25/2023
Run No: EP20230160
Nitrogen: 0.1114
CO2: 1.7942
Methane: 81.4715
Ethane: 9.6435
Propane: 3.8130
I-Butane: 0.7675
N-Butane: 0.9303
I-Pentane: 0.3667
N-Pentane: 0.2558
Hexane+: 0.8461
BTU: 1221.4
GPM: 18.9700
SPG: 0.7176



Well Name: HORTON 2C; TBG
 API #: 3004531435
 Source: TUBING
 Sample Type: GAS
 Analysis No: EP20230178
 Cust No: 77000-12025

Well/Lease Information

Customer Name: EPIC ENERGY
 Well Name: HORTON 2C; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: SF0780398
 Formation:
 Cust. Stn. No.: 3004531435

Source: TUBING
 Well Flowing: Y
 Pressure: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 83 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/27/2023
 Sample Time: 10.34 AM
 Sampled By: MIKE WAGONER
 Sampled by (CO): WALSH

Heat Trace: N
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1119	0.1117	0.0120	0.00	0.0011
CO2	1.8502	1.8466	0.3170	0.00	0.0281
Methane	81.9015	81.7401	13.9280	827.21	0.4537
Ethane	9.3738	9.3553	2.5150	165.89	0.0973
Propane	3.6370	3.6298	1.0050	91.51	0.0554
Iso-Butane	0.7762	0.7747	0.2550	25.24	0.0156
N-Butane	0.9154	0.9136	0.2890	29.86	0.0184
I-Pentane	0.3522	0.3515	0.1290	14.09	0.0088
N-Pentane	0.2473	0.2468	0.0900	9.91	0.0062
Hexane Plus	0.8345	0.8329	0.3730	43.99	0.0276
Total	100.0000	99.8030	18.9130	1207.70	0.7120

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1210.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1214.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1193.5
 DRY BTU @ 15.025: 1238.9
 REAL SPECIFIC GRAVITY: 0.7142

CYLINDER #: 6092
 CYLINDER PRESSURE: 104 PSIG
 ANALYSIS DATE: 06/30/2023
 ANALYSIS TIME: 09:27:52 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: 07/05/2023

GC Method: C6+ Gas



EPIC ENERGY
WELL ANALYSIS COMPARISON

Lease: HORTON 2C; TBG
Stn. No.: 3004531435
Mtr. No.:

TUBING

07/05/2023
77000-12025

Smpl Date: 06/27/2023
Test Date: 06/30/2023
Run No: EP20230178

Nitrogen: 0.1119
CO2: 1.8502
Methane: 81.9015
Ethane: 9.3738
Propane: 3.6370
I-Butane: 0.7762
N-Butane: 0.9154
I-Pentane: 0.3522
N-Pentane: 0.2473
Hexane+: 0.8345

BTU: 1214.6
GPM: 18.9130
SPG: 0.7142

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District III
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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 246630

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 246630
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead shows 117 psi when sample taken - high nitrogen on bh sample	10/6/2023