



Well Name: HORTON 3; BHD
 API #: API # 3004511448
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: EP20230161
 Cust No: 77000-11735

Well/Lease Information

Customer Name: EPIC ENERGY	Source: BRADENHEAD
Well Name: HORTON 3; BHD	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 51 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 55 DEG. F
Formation:	Flow Rate: MCF/D
Cust. Stn. No.: API # 3004511448	Sample Method: Purge & Fill
36628	Sample Date: 05/23/2023
	Sample Time: 7.50 AM
	Sampled By: MIKE WAGONER
Heat Trace: N	Sampled by (CO): WALSH
Remarks:	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1022	0.1018	0.0110	0.00	0.0010
CO2	1.5522	1.5458	0.2660	0.00	0.0236
Methane	86.1541	85.7979	14.6460	870.16	0.4772
Ethane	7.1612	7.1316	1.9200	126.73	0.0743
Propane	2.7118	2.7006	0.7490	68.23	0.0413
Iso-Butane	0.5360	0.5338	0.1760	17.43	0.0108
N-Butane	0.6716	0.6688	0.2120	21.91	0.0135
I-Pentane	0.2530	0.2520	0.0930	10.12	0.0063
N-Pentane	0.1802	0.1795	0.0650	7.22	0.0045
Hexane Plus	0.6777	0.6749	0.3030	35.72	0.0224
Total	100.0000	99.5867	18.4410	1157.53	0.6749

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	6216
BTU/CU.FT IDEAL:	1160.2	CYLINDER PRESSURE:	65 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1163.7	ANALYSIS DATE:	05/25/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1143.5	ANALYSIS TIME:	09:35:59 AM
DRY BTU @ 15.025:	1187.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6766		

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 3; BHD
Stn. No.: API # 3004511448
Mtr. No.: 36628

BRADENHEAD

06/09/2023
77000-11735

Smpl Date:	05/23/2023	05/12/2020
Test Date:	05/25/2023	05/15/2020
Run No:	EP20230161	EP200127
Nitrogen:	0.1022	0.1060
CO2:	1.5522	1.5873
Methane:	86.1541	85.6959
Ethane:	7.1612	7.3558
Propane:	2.7118	2.8022
I-Butane:	0.5360	0.5575
N-Butane:	0.6716	0.6894
I-Pentane:	0.2530	0.2613
N-Pentane:	0.1802	0.1875
Hexane+:	0.6777	0.7571
BTU:	1163.7	1171.0
GPM:	18.4410	18.5040
SPG:	0.6766	0.6819



Well Name: HORTON 3; CSG
 API #: API # 3004511448
 Source: CASING
 Sample Type: GAS
 Analysis No: EP20230162
 Cust No: 77000-11740

Well/Lease Information

Customer Name: EPIC ENERGY
 Well Name: HORTON 3; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 3004511448
 36628

Source: CASING
 Well Flowing: Y
 Pressure: 53 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 55 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/23/2023
 Sample Time: 7.50 AM
 Sampled By: MIKE WAGONER
 Sampled by (CO): WALSH

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1370	0.1337	0.0150	0.00	0.0013
CO2	1.5904	1.5524	0.2720	0.00	0.0242
Methane	85.7045	83.6590	14.5710	865.62	0.4747
Ethane	7.3792	7.2031	1.9790	130.59	0.0766
Propane	2.8405	2.7727	0.7850	71.47	0.0432
Iso-Butane	0.5547	0.5415	0.1820	18.04	0.0111
N-Butane	0.6972	0.6806	0.2200	22.74	0.0140
I-Pentane	0.2654	0.2591	0.0970	10.62	0.0066
N-Pentane	0.1867	0.1822	0.0680	7.48	0.0047
Hexane Plus	0.6444	0.6290	0.2880	33.97	0.0213
Total	100.0000	97.6133	18.4770	1160.53	0.6778

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1163.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1166.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1146.5
 DRY BTU @ 15.025: 1190.2
 REAL SPECIFIC GRAVITY: 0.6796

CYLINDER #: 6238
 CYLINDER PRESSURE: 56 PSIG
 ANALYSIS DATE: 05/25/2023
 ANALYSIS TIME: 09:18:29 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: 06/09/2023

GC Method: C6+ Gas



EPIC ENERGY
WELL ANALYSIS COMPARISON

Lease: HORTON 3; CSG
Stn. No.: API # 3004511448
Mtr. No.: 36628

CASING

06/09/2023
77000-11740

Smpl Date:	05/23/2023	05/13/2020
Test Date:	05/25/2023	05/15/2020
Run No:	EP20230162	EP200128
Nitrogen:	0.1370	1.8415
CO2:	1.5904	1.5558
Methane:	85.7045	84.1739
Ethane:	7.3792	7.2142
Propane:	2.8405	2.7508
I-Butane:	0.5547	0.5484
N-Butane:	0.6972	0.6788
I-Pentane:	0.2654	0.2571
N-Pentane:	0.1867	0.1844
Hexane+:	0.6444	0.7951
BTU:	1166.8	1152.7
GPM:	18.4770	18.3850
SPG:	0.6796	0.6882



Well Name: HORTON 3; TBG
 API #: 3004511448
 Source: TUBING
 Sample Type: GAS

Analysis No: EP20230171
 Cust No: 77000-11745

Well/Lease Information

Customer Name: EPIC ENERGY
 Well Name: HORTON 3; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004511448
 36628

Source: TUBING
 Well Flowing: Y
 Pressure: 53 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 75 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/16/2023
 Sample Time: 11.55 AM
 Sampled By: MIKE WAGONER
 Sampled by (CO): WALSH

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1040	0.1040	0.0110	0.00	0.0010
CO2	1.5950	1.5954	0.2730	0.00	0.0242
Methane	86.3092	86.3302	14.6720	871.72	0.4781
Ethane	7.1029	7.1046	1.9050	125.70	0.0737
Propane	2.6549	2.6555	0.7330	66.80	0.0404
Iso-Butane	0.5373	0.5374	0.1760	17.47	0.0108
N-Butane	0.6543	0.6545	0.2070	21.35	0.0131
I-Pentane	0.2565	0.2566	0.0940	10.26	0.0064
N-Pentane	0.1825	0.1825	0.0660	7.32	0.0045
Hexane Plus	0.6034	0.6035	0.2700	31.81	0.0200
Total	100.0000	100.0242	18.4070	1152.42	0.6723

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1155.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1158.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1138.4
 DRY BTU @ 15.025: 1181.8
 REAL SPECIFIC GRAVITY: 0.674

CYLINDER #: 6148
 CYLINDER PRESSURE: 56 PSIG
 ANALYSIS DATE: 06/16/2023
 ANALYSIS TIME: 02:57:30 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: 06/26/2023

GC Method: C6+ Gas



EPIC ENERGY
WELL ANALYSIS COMPARISON

Lease: HORTON 3; TBG
Stn. No.: 3004511448
Mtr. No.: 36628

TUBING

06/26/2023
77000-11745

Smpl Date:	06/16/2023	05/13/2020
Test Date:	06/16/2023	05/15/2020
Run No:	EP20230171	EP200129
Nitrogen:	0.1040	3.8601
CO2:	1.5950	1.5464
Methane:	86.3092	82.5171
Ethane:	7.1029	7.0638
Propane:	2.6549	2.6859
I-Butane:	0.5373	0.5336
N-Butane:	0.6543	0.6610
I-Pentane:	0.2565	0.2455
N-Pentane:	0.1825	0.1734
Hexane+:	0.6034	0.7132
BTU:	1158.6	1125.1
GPM:	18.4070	18.2090
SPG:	0.6740	0.6919

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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 233124

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 233124
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas all strings	10/6/2023