



Well Name: ATLANTIC C 11; BHD
 API #: 3004521142
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230063
 Cust No: 35825-14900

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	ATLANTIC C 11; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	56 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004521142	Sample Method:	Purge & Fill
		Sample Date:	06/14/2023
		Sample Time:	12.30 PM
		Sampled By:	STEPHEN ORTIZ
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1508	0.1500	0.0170	0.00	0.0015
CO2	0.6127	0.6096	0.1050	0.00	0.0093
Methane	88.6103	88.1623	15.0620	894.96	0.4908
Ethane	5.8943	5.8645	1.5810	104.31	0.0612
Propane	2.5481	2.5352	0.7040	64.11	0.0388
Iso-Butane	0.4628	0.4605	0.1520	15.05	0.0093
N-Butane	0.6912	0.6877	0.2180	22.55	0.0139
I-Pentane	0.2574	0.2561	0.0940	10.30	0.0064
N-Pentane	0.1983	0.1973	0.0720	7.95	0.0049
Hexane Plus	0.5741	0.5712	0.2570	30.26	0.0190
Total	100.0000	99.4944	18.2620	1149.50	0.6551

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	4002
BTU/CU.FT IDEAL:	1152.2	CYLINDER PRESSURE:	54 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1155.5	ANALYSIS DATE:	06/15/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1135.4	ANALYSIS TIME:	08:20:28 AM
DRY BTU @ 15.025:	1178.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6567		

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: 06/19/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	ATLANTIC C 11; BHD	BRADENHEAD	06/19/2023
Stn. No.:	3004521142		35825-14900
Mtr. No.:			

Smpl Date: 06/14/2023
Test Date: 06/15/2023
Run No: HS20230063

Nitrogen: 0.1508
CO2: 0.6127
Methane: 88.6103
Ethane: 5.8943
Propane: 2.5481
I-Butane: 0.4628
N-Butane: 0.6912
I-Pentane: 0.2574
N-Pentane: 0.1983
Hexane+: 0.5741

BTU: 1155.5
GPM: 18.2620
SPG: 0.6567



Well Name: ATLANTIC C 11; CSG

API #: 3004521142

Source: CASING

Sample Type: GAS

Analysis No: HS20230064

Cust No: 35825-14880

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: ATLANTIC C 11; CSG

County/State:

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: 3004521142

Source: CASING

Well Flowing: Y

Pressure: 56 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 06/14/2023

Sample Time: 12.39 PM

Sampled By: STEPHEN ORTIZ

Sampled by (CO): HILCORP

Heat Trace: AREA 3 / RUN 303

Remarks: N

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1480	0.1477	0.0160	0.00	0.0014
CO2	0.6994	0.6982	0.1200	0.00	0.0106
Methane	88.2443	88.0946	15.0000	891.27	0.4888
Ethane	5.9803	5.9701	1.6040	105.83	0.0621
Propane	2.6104	2.6060	0.7210	65.68	0.0397
Iso-Butane	0.4764	0.4756	0.1560	15.49	0.0096
N-Butane	0.7352	0.7340	0.2320	23.98	0.0148
I-Pentane	0.2739	0.2734	0.1000	10.96	0.0068
N-Pentane	0.2105	0.2101	0.0770	8.44	0.0052
Hexane Plus	0.6216	0.6205	0.2780	32.76	0.0206
Total	100.0000	99.8302	18.3040	1154.42	0.6596

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1157.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1160.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1140.3
 DRY BTU @ 15.025: 1183.7
 REAL SPECIFIC GRAVITY: 0.6613

CYLINDER #: 4142
 CYLINDER PRESSURE: 55 PSIG
 ANALYSIS DATE: 06/15/2023
 ANALYSIS TIME: 08:28:33 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 06/19/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: ATLANTIC C 11; CSG
Stn. No.: 3004521142
Mtr. No.:

CASING

06/19/2023
35825-14880

Smpl Date: 06/14/2023
Test Date: 06/15/2023
Run No: HS20230064

Nitrogen: 0.1480
CO2: 0.6994
Methane: 88.2443
Ethane: 5.9803
Propane: 2.6104
I-Butane: 0.4764
N-Butane: 0.7352
I-Pentane: 0.2739
N-Pentane: 0.2105
Hexane+: 0.6216

BTU: 1160.5
GPM: 18.3040
SPG: 0.6613

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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
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 231153

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 231153
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	appears to be same gas on bradenhead and production casing - for record only	7/21/2023