



Well Name: VALANCE 33-16; BHD

API #: 3004533571

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20240051

Cust No: 35825-15660

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: VALANCE 33-16; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: FC

Cust. Stn. No.: 3004533571
20035

AREA 2 / RUN 0205

Heat Trace: N

Remarks:

Source: BRADENHEAD

Well Flowing: Y

Pressure: 15 PSIG

Flow Temp: 70 DEG. F

Ambient Temp: DEG. F

Flow Rate: 65 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/25/2024

Sample Time: 10.15 AM

Sampled By: ROGER TOM

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5546	0.5506	0.0610	0.00	0.0054
CO2	0.0023	0.0023	0.0000	0.00	0.0000
Methane	89.7554	89.1006	15.2530	906.53	0.4972
Ethane	5.2325	5.1943	1.4030	92.60	0.0543
Propane	2.5833	2.5645	0.7130	65.00	0.0393
Iso-Butane	0.6118	0.6073	0.2010	19.90	0.0123
N-Butane	0.6053	0.6009	0.1910	19.75	0.0121
I-Pentane	0.2370	0.2353	0.0870	9.48	0.0059
N-Pentane	0.1430	0.1420	0.0520	5.73	0.0036
Hexane Plus	0.2748	0.2728	0.1230	14.48	0.0091
Total	100.0000	99.2706	18.0840	1133.47	0.6392

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
 BTU/CU.FT IDEAL: 1136.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1139.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1119.4
 DRY BTU @ 15.025: 1162.0
 REAL SPECIFIC GRAVITY: 0.6407

CYLINDER #: 083
 CYLINDER PRESSURE: 57 PSIG
 ANALYSIS DATE: 05/06/2024
 ANALYSIS TIME: 02:51:12 PM
 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: 05/09/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: VALANCE 33-16; BHD
Stn. No.: 3004533571
Mtr. No.: 20035

BRADENHEAD
FC

05/09/2024
35825-15660

Smpl Date: 04/25/2024
Test Date: 05/06/2024
Run No: HS20240051

Nitrogen: 0.5546
CO2: 0.0023
Methane: 89.7554
Ethane: 5.2325
Propane: 2.5833
I-Butane: 0.6118
N-Butane: 0.6053
I-Pentane: 0.2370
N-Pentane: 0.1430
Hexane+: 0.2748

BTU: 1139.2
GPM: 18.0840
SPG: 0.6407



Well Name: VALANCE #33-16; CSG

API #: 3004533571

Source: CASING

Sample Type: GAS

Analysis No: HS20240052

Cust No: 35825-15665

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: VALANCE #33-16; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: FC

Cust. Stn. No.: 3004533571
20035

AREA 2 / RUN 0205

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: Y

Pressure: 15 PSIG

Flow Temp: 70 DEG. F

Ambient Temp: DEG. F

Flow Rate: 65 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/25/2024

Sample Time: 10.15 AM

Sampled By: ROGER TOM

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7849	0.7693	0.0870	0.00	0.0076
CO2	0.6847	0.6711	0.1170	0.00	0.0104
Methane	98.3565	96.3982	16.7040	993.40	0.5448
Ethane	0.1097	0.1075	0.0290	1.94	0.0011
Propane	0.0285	0.0279	0.0080	0.72	0.0004
Iso-Butane	0.0108	0.0106	0.0040	0.35	0.0002
N-Butane	0.0060	0.0059	0.0020	0.20	0.0001
I-Pentane	0.0050	0.0049	0.0020	0.20	0.0001
N-Pentane	0.0012	0.0012	0.0000	0.05	0.0000
Hexane Plus	0.0127	0.0124	0.0060	0.67	0.0004
Total	100.0000	98.0090	16.9590	997.52	0.5653

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 999.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1001.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 984.4
 DRY BTU @ 15.025: 1021.9
 REAL SPECIFIC GRAVITY: 0.5662

CYLINDER #: 005
 CYLINDER PRESSURE: 21 PSIG
 ANALYSIS DATE: 05/06/2024
 ANALYSIS TIME: 02:43:43 PM
 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: 05/09/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: VALANCE #33-16; CSG
Stn. No.: 3004533571
Mtr. No.: 20035

CASING
FC

05/09/2024
35825-15665

Smpl Date: 04/25/2024
Test Date: 05/06/2024
Run No: HS20240052

Nitrogen: 0.7849
CO2: 0.6847
Methane: 98.3565
Ethane: 0.1097
Propane: 0.0285
I-Butane: 0.0108
N-Butane: 0.0060
I-Pentane: 0.0050
N-Pentane: 0.0012
Hexane+: 0.0127

BTU: 1001.8
GPM: 16.9590
SPG: 0.5662



Well Name: VALANCE #33-16; TBG

API #: 3004533571

Source: TUBING

Sample Type: GAS

Analysis No: HS20240053

Cust No: 35825-15670

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: VALANCE #33-16; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: DK

Cust. Stn. No.: 3004533571
20035

AREA 2 / RUN 0205

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: Y

Pressure: 15 PSIG

Flow Temp: 70 DEG. F

Ambient Temp: DEG. F

Flow Rate: 65 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/25/2024

Sample Time: 10.20 AM

Sampled By: ROGER TOM

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3875	0.3850	0.0430	0.00	0.0037
CO2	1.6018	1.5916	0.2740	0.00	0.0243
Methane	78.7679	78.2648	13.4020	795.56	0.4363
Ethane	10.3035	10.2377	2.7660	182.34	0.1070
Propane	4.7015	4.6715	1.3000	118.29	0.0716
Iso-Butane	0.7184	0.7138	0.2360	23.36	0.0144
N-Butane	1.3840	1.3752	0.4380	45.15	0.0278
I-Pentane	0.4600	0.4571	0.1690	18.40	0.0115
N-Pentane	0.4422	0.4394	0.1610	17.73	0.0110
Hexane Plus	1.2332	1.2253	0.5520	65.00	0.0408
Total	100.0000	99.3614	19.3410	1265.84	0.7484

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1268.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1273.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1251.4
 DRY BTU @ 15.025: 1299.1
 REAL SPECIFIC GRAVITY: 0.751

CYLINDER #: 2184
 CYLINDER PRESSURE: 22 PSIG
 ANALYSIS DATE: 05/06/2024
 ANALYSIS TIME: 02:59:36 PM
 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: 05/09/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: VALANCE #33-16; TBG
Stn. No.: 3004533571
Mtr. No.: 20035

TUBING
DK

05/09/2024
35825-15670

Smpl Date: 04/25/2024
Test Date: 05/06/2024
Run No: HS20240053

Nitrogen: 0.3875
CO2: 1.6018
Methane: 78.7679
Ethane: 10.3035
Propane: 4.7015
I-Butane: 0.7184
N-Butane: 1.3840
I-Pentane: 0.4600
N-Pentane: 0.4422
Hexane+: 1.2332

BTU: 1273.6
GPM: 19.3410
SPG: 0.7510

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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 344522

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 344522
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record	5/16/2024