



Well Name: TALIAFERRO #2; BHD

API #: 3004510066

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230169

Cust No: 35825-13240

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: TALIAFERRO #2; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NMSF078244

Formation: DK

Cust. Stn. No.: 3004510066
3608330

AREA 2 / RUN 0203

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Source: BRADENHEAD

Well Flowing: Y

Pressure: 7 PSIG

Flow Temp: 105 DEG. F

Ambient Temp: 94 DEG. F

Flow Rate: 30 MCF/D

Sample Method: Purge & Fill

Sample Date: 07/25/2023

Sample Time: 11.00 AM

Sampled By: SHAWN FINCHER

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2125	0.4867	0.1340	0.00	0.0117
CO2	0.0189	0.0076	0.0030	0.00	0.0003
Methane	94.9630	38.1168	16.1320	959.13	0.5260
Ethane	2.7427	1.1009	0.7350	48.54	0.0285
Propane	0.3700	0.1485	0.1020	9.31	0.0056
Iso-Butane	0.0892	0.0358	0.0290	2.90	0.0018
N-Butane	0.0406	0.0163	0.0130	1.32	0.0008
I-Pentane	0.0135	0.0054	0.0050	0.54	0.0003
N-Pentane	0.0097	0.0039	0.0040	0.39	0.0002
Hexane Plus	0.5399	0.2167	0.2410	28.46	0.0179
Total	100.0000	40.1386	17.3980	1050.59	0.5932

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 1053.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1055.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1037.0
 DRY BTU @ 15.025: 1076.5
 REAL SPECIFIC GRAVITY: 0.5943

CYLINDER #: 6203
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 07/31/2023
 ANALYSIS TIME: 03:52:36 PM
 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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TALIAFERRO #2; BHD	BRADENHEAD	08/03/2023
Stn. No.:	3004510066	DK	35825-13240
Mtr. No.:	3608330		

Smpl Date:	07/25/2023	09/03/2020
Test Date:	07/31/2023	09/08/2020
Run No:	HS20230169	HS200277
Nitrogen:	1.2125	0.5526
CO2:	0.0189	0.0303
Methane:	94.9630	95.4712
Ethane:	2.7427	3.0228
Propane:	0.3700	0.4201
I-Butane:	0.0892	0.0932
N-Butane:	0.0406	0.0470
I-Pentane:	0.0135	0.0132
N-Pentane:	0.0097	0.0129
Hexane+:	0.5399	0.3367
BTU:	1055.4	1056.4
GPM:	17.3980	17.4160
SPG:	0.5943	0.5881



Well Name: TALIAFERRO #2; CSG

API #: 3004510066

Source: CASING

Sample Type: GAS

Analysis No: HS20230170

Cust No: 35825-13245

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: TALIAFERRO #2; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NMSF078244

Formation: DK

Cust. Stn. No.: 3004510066

3608330

AREA 2 / RUN 0203

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: Y

Pressure: 300 PSIG

Flow Temp: 105 DEG. F

Ambient Temp: 94 DEG. F

Flow Rate: 30 MCF/D

Sample Method: Purge & Fill

Sample Date: 07/25/2023

Sample Time: 11.00 AM

Sampled By: SHAWN FINCHER

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6356	0.6370	0.0700	0.00	0.0061
CO2	1.5486	1.5521	0.2650	0.00	0.0235
Methane	82.6554	82.8427	14.0540	834.82	0.4578
Ethane	9.2268	9.2477	2.4750	163.29	0.0958
Propane	3.6515	3.6598	1.0090	91.88	0.0556
Iso-Butane	0.5170	0.5182	0.1700	16.81	0.0104
N-Butane	0.8657	0.8677	0.2740	28.24	0.0174
I-Pentane	0.2582	0.2588	0.0950	10.33	0.0064
N-Pentane	0.2270	0.2275	0.0830	9.10	0.0057
Hexane Plus	0.4142	0.4151	0.1850	21.83	0.0137
Total	100.0000	100.2266	18.6800	1176.30	0.6924

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1179.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1182.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1162.2
 DRY BTU @ 15.025: 1206.5
 REAL SPECIFIC GRAVITY: 0.6944

CYLINDER #: 4109
 CYLINDER PRESSURE: 217 PSIG
 ANALYSIS DATE: 07/31/2023
 ANALYSIS TIME: 04:10:29 PM
 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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TALIAFERRO #2; CSG	CASING	08/03/2023
Stn. No.:	3004510066	DK	35825-13245
Mtr. No.:	3608330		

Smpl Date:	07/25/2023	09/03/2020
Test Date:	07/31/2023	09/08/2020
Run No:	HS20230170	HS200278
Nitrogen:	0.6356	0.5969
CO2:	1.5486	1.5487
Methane:	82.6554	81.1933
Ethane:	9.2268	9.6786
Propane:	3.6515	4.1036
I-Butane:	0.5170	0.6263
N-Butane:	0.8657	1.0961
I-Pentane:	0.2582	0.3642
N-Pentane:	0.2270	0.3268
Hexane+:	0.4142	0.4655
BTU:	1182.8	1209.8
GPM:	18.6800	18.8840
SPG:	0.6944	0.7113



Well Name: TALIAFERRO #2; TBG

API #: 3004510066

Source: TUBING

Sample Type: GAS

Analysis No: HS20230171

Cust No: 35825-13250

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: TALIAFERRO #2; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA: NMSF078244

Formation: DK

Cust. Stn. No.: 3004510066

3608330

AREA 2 / RUN 0203

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: Y

Pressure: 297 PSIG

Flow Temp: 105 DEG. F

Ambient Temp: 94 DEG. F

Flow Rate: 30 MCF/D

Sample Method: Purge & Fill

Sample Date: 07/25/2023

Sample Time: 11.00 AM

Sampled By: SHAWN FINCHER

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6437	0.6454	0.0710	0.00	0.0062
CO2	1.5602	1.5643	0.2670	0.00	0.0237
Methane	82.4013	82.6165	14.0110	832.25	0.4564
Ethane	9.2962	9.3205	2.4930	164.51	0.0965
Propane	3.7569	3.7667	1.0380	94.53	0.0572
Iso-Butane	0.5349	0.5363	0.1760	17.39	0.0107
N-Butane	0.9064	0.9088	0.2870	29.57	0.0182
I-Pentane	0.2503	0.2510	0.0920	10.01	0.0062
N-Pentane	0.2162	0.2168	0.0790	8.67	0.0054
Hexane Plus	0.4339	0.4350	0.1940	22.87	0.0144
Total	100.0000	100.2613	18.7080	1179.81	0.6950

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1182.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1186.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1165.7
 DRY BTU @ 15.025: 1210.1
 REAL SPECIFIC GRAVITY: 0.6969

CYLINDER #: 6133
 CYLINDER PRESSURE: 250 PSIG
 ANALYSIS DATE: 07/31/2023
 ANALYSIS TIME: 03:59:18 PM
 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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TALIAFERRO #2; TBG	TUBING	08/03/2023
Stn. No.:	3004510066	DK	35825-13250
Mtr. No.:	3608330		

Smpl Date:	07/25/2023	09/03/2020
Test Date:	07/31/2023	09/08/2020
Run No:	HS20230171	HS200279
Nitrogen:	0.6437	0.6306
CO2:	1.5602	1.5528
Methane:	82.4013	82.1670
Ethane:	9.2962	9.5675
Propane:	3.7569	3.8656
I-Butane:	0.5349	0.5330
N-Butane:	0.9064	0.8663
I-Pentane:	0.2503	0.2217
N-Pentane:	0.2162	0.1827
Hexane+:	0.4339	0.4128
BTU:	1186.3	1186.5
GPM:	18.7080	18.7220
SPG:	0.6969	0.6968

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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 248668

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 248668
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	does not appear to be same gas	9/18/2023