



NMOCD REC'D
9/24/20

Well Name: TALIAFERRO #2; BHD
API #: API # 3004510066
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200277
Cust No: 35825-13240

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	TALIAFERRO #2; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	38 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	NMSF078244	Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004510066 3608330	Sample Method:	Purge & Fill
		Sample Date:	09/03/2020
	AREA 2 / RUN 0205	Sample Time:	8.45 AM
Heat Trace:	N	Sampled By:	JOHN RUSSELL
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5526	0.5328	0.0610	0.00	0.0053
CO2	0.0303	0.0292	0.0050	0.00	0.0005
Methane	95.4712	92.0556	16.2180	964.26	0.5288
Ethane	3.0228	2.9147	0.8100	53.49	0.0314
Propane	0.4201	0.4051	0.1160	10.57	0.0064
Iso-Butane	0.0932	0.0899	0.0310	3.03	0.0019
N-Butane	0.0470	0.0453	0.0150	1.53	0.0009
I-Pentane	0.0132	0.0127	0.0050	0.53	0.0003
N-Pentane	0.0129	0.0124	0.0050	0.52	0.0003
Hexane Plus	0.3367	0.3247	0.1500	17.75	0.0111
Total	100.0000	96.4224	17.4160	1051.68	0.5870

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	4155
BTU/CU.FT IDEAL:	1054.1	CYLINDER PRESSURE:	30 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1056.4	ANALYSIS DATE:	09/08/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1038.0	ANALYSIS TIME:	01:57:46 PM
DRY BTU @ 15.025:	1077.6	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.5881		

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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: TALIAFERRO #2; BHD
Stn. No.: API # 3004510066
Mtr. No.: 3608330

BRADENHEAD
DK

09/17/2020
35825-13240

Smpl Date: 09/03/2020
Test Date: 09/08/2020
Run No: HS200277

Nitrogen: 0.5526
CO2: 0.0303
Methane: 95.4712
Ethane: 3.0228
Propane: 0.4201
I-Butane: 0.0932
N-Butane: 0.0470
I-Pentane: 0.0132
N-Pentane: 0.0129
Hexane+: 0.3367

BTU: 1056.4
GPM: 17.4160
SPG: 0.5881



Well Name: TALIAFERRO #2; TBG
 API #: API # 3004510066
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200279
 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.: API # 3004510066
 3608330

Source: TUBING
 Well Flowing: Y
 Pressure: 277 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/03/2020
 Sample Time: 8.30 AM
 Sampled By: JOHN RUSSELL
 Sampled by (CO): HILCORP

Heat Trace: AREA 2 / RUN 0205
 N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6306	0.6158	0.0700	0.00	0.0061
CO2	1.5528	1.5164	0.2660	0.00	0.0236
Methane	82.1670	80.2385	13.9710	829.89	0.4551
Ethane	9.5675	9.3430	2.5660	169.32	0.0993
Propane	3.8656	3.7749	1.0680	97.26	0.0589
Iso-Butane	0.5330	0.5205	0.1750	17.33	0.0107
N-Butane	0.8663	0.8460	0.2740	28.26	0.0174
I-Pentane	0.2217	0.2165	0.0810	8.87	0.0055
N-Pentane	0.1827	0.1784	0.0660	7.32	0.0046
Hexane Plus	0.4128	0.4031	0.1850	21.76	0.0137
Total	100.0000	97.6531	18.7220	1180.01	0.6948

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1182.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1186.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1165.9
 DRY BTU @ 15.025: 1210.3
 REAL SPECIFIC GRAVITY: 0.6968

CYLINDER #: 4203
 CYLINDER PRESSURE: 286 PSIG
 ANALYSIS DATE: 09/08/2020
 ANALYSIS TIME: 02:08:41 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: TALIAFERRO #2; TBG
Stn. No.: API # 3004510066
Mtr. No.: 3608330

TUBING
DK

09/17/2020
35825-13250

Smpl Date: 09/03/2020
Test Date: 09/08/2020
Run No: HS200279

Nitrogen: 0.6306
CO2: 1.5528
Methane: 82.1670
Ethane: 9.5675
Propane: 3.8656
I-Butane: 0.5330
N-Butane: 0.8663
I-Pentane: 0.2217
N-Pentane: 0.1827
Hexane+: 0.4128

BTU: 1186.5
GPM: 18.7220
SPG: 0.6968



Well Name: TALIAFERRO #2; CSG
 API #: API # 3004510066
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200278
 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.: API # 3004510066
 3608330

Source: CASING
 Well Flowing: Y
 Pressure: 278 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/03/2020
 Sample Time: 8.20 AM
 Sampled By: JOHN RUSSELL
 Sampled by (CO): HILCORP

Heat Trace: AREA 2 / RUN 0205
 N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5969	0.5810	0.0660	0.00	0.0058
CO2	1.5487	1.5075	0.2650	0.00	0.0235
Methane	81.1933	79.0353	13.8080	820.05	0.4497
Ethane	9.6786	9.4214	2.5970	171.28	0.1005
Propane	4.1036	3.9945	1.1340	103.25	0.0625
Iso-Butane	0.6263	0.6097	0.2060	20.37	0.0126
N-Butane	1.0961	1.0670	0.3470	35.76	0.0220
I-Pentane	0.3642	0.3545	0.1340	14.57	0.0091
N-Pentane	0.3268	0.3181	0.1190	13.10	0.0081
Hexane Plus	0.4655	0.4531	0.2080	24.54	0.0154
Total	100.0000	97.3421	18.8840	1202.92	0.7092

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1205.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1209.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1188.7
 DRY BTU @ 15.025: 1234.0
 REAL SPECIFIC GRAVITY: 0.7113

CYLINDER #: 6194
 CYLINDER PRESSURE: 257 PSIG
 ANALYSIS DATE: 09/08/2020
 ANALYSIS TIME: 01:45:32 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: TALIAFERRO #2; CSG
Stn. No.: API # 3004510066
Mtr. No.: 3608330

CASING
DK

09/17/2020
35825-13245

Smpl Date: 09/03/2020
Test Date: 09/08/2020
Run No: HS200278

Nitrogen: 0.5969
CO2: 1.5487
Methane: 81.1933
Ethane: 9.6786
Propane: 4.1036
I-Butane: 0.6263
N-Butane: 1.0961
I-Pentane: 0.3642
N-Pentane: 0.3268
Hexane+: 0.4655

BTU: 1209.8
GPM: 18.8840
SPG: 0.7113