



OCD Received  
5/28/2020

Well Name: TRIBAL C1; BHD  
API #: API #3003906655  
Source: BRADENHEAD  
Sample Type: GAS  
Analysis No: HS200027  
Cust No: 35825-12165

### Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)  
Well Name: TRIBAL C1; BHD  
County/State: RIO ARRIBA NM  
Location:  
Lease/PA/CA:  
Formation: DK / PC  
Cust. Stn. No.: API #3003906655  
8643601

Source: BRADENHEAD  
Well Flowing: Y  
Pressure: 78 PSIG  
Flow Temp: DEG. F  
Ambient Temp: 73 DEG. F  
Flow Rate: 100 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 05/20/2020  
Sample Time: 1.30 PM  
Sampled By: JERRY NELSON  
Sampled by (CO): CHENAULT

Heat Trace: AREA 14 / RUN 1414  
N  
Remarks:

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5833	0.5720	0.0640	0.00	0.0056
CO2	0.3105	0.3045	0.0530	0.00	0.0047
Methane	83.4535	81.8426	14.1910	842.88	0.4622
Ethane	8.4452	8.2822	2.2650	149.45	0.0877
Propane	4.0812	4.0024	1.1280	102.69	0.0621
Iso-Butane	0.8430	0.8267	0.2770	27.41	0.0169
N-Butane	1.0713	1.0506	0.3390	34.95	0.0215
I-Pentane	0.3920	0.3844	0.1440	15.68	0.0098
N-Pentane	0.2633	0.2582	0.0960	10.55	0.0066
Hexane Plus	0.5567	0.5460	0.2490	29.34	0.0184
Total	100.0000	98.0696	18.8060	1212.97	0.6956

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
BTU/CU.FT IDEAL: 1215.8  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1219.8  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1198.6  
DRY BTU @ 15.025: 1244.2  
REAL SPECIFIC GRAVITY: 0.6976

CYLINDER #: 4232  
CYLINDER PRESSURE: 77 PSIG  
ANALYSIS DATE: 05/26/2020  
ANALYSIS TIME: 03:44:50 AM  
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

**Lease:** TRIBAL C1; BHD  
**Stn. No.:** API #3003906655  
**Mtr. No.:** 8643601

BRADENHEAD  
DK / PC

05/28/2020  
35825-12165

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**Smpl Date:** 05/20/2020  
**Test Date:** 05/26/2020  
**Run No:** HS200027

**Nitrogen:** 0.5833  
**CO2:** 0.3105  
**Methane:** 83.4535  
**Ethane:** 8.4452  
**Propane:** 4.0812  
**I-Butane:** 0.8430  
**N-Butane:** 1.0713  
**I-Pentane:** 0.3920  
**N-Pentane:** 0.2633  
**Hexane+:** 0.5567

**BTU:** 1219.8  
**GPM:** 18.8060  
**SPG:** 0.6976



Well Name: TRIBAL C1; CSG  
API #: 3003906655  
Source: CASING  
Sample Type: GAS  
Analysis No: HS200028  
Cust No: 35825-12170

### Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)  
Well Name: TRIBAL C1; CSG  
County/State: RIO ARRIBA NM  
Location:  
Lease/PA/CA:  
Formation: DK / PC  
Cust. Stn. No.: 3003906655  
8643601

Source: CASING  
Well Flowing: Y  
Pressure: 178 PSIG  
Flow Temp: DEG. F  
Ambient Temp: 73 DEG. F  
Flow Rate: 100 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 05/20/2020  
Sample Time: 1.37 PM  
Sampled By: JERRY NELSON  
Sampled by (CO): CHENAULT

Heat Trace: AREA 14 / RUN 1414  
N  
Remarks:

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5643	0.5545	0.0620	0.00	0.0055
CO2	0.3122	0.3068	0.0530	0.00	0.0047
Methane	83.3964	81.9514	14.1810	842.30	0.4619
Ethane	8.4467	8.3003	2.2660	149.48	0.0877
Propane	4.0886	4.0178	1.1300	102.87	0.0622
Iso-Butane	0.8486	0.8339	0.2790	27.60	0.0170
N-Butane	1.0853	1.0665	0.3430	35.41	0.0218
I-Pentane	0.4090	0.4019	0.1500	16.36	0.0102
N-Pentane	0.2784	0.2736	0.1010	11.16	0.0069
Hexane Plus	0.5705	0.5606	0.2550	30.07	0.0189
Total	100.0000	98.2673	18.8200	1215.25	0.6969

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
BTU/CU.FT IDEAL: 1218.1  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1222.1  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.8  
DRY BTU @ 15.025: 1246.6  
REAL SPECIFIC GRAVITY: 0.6989

CYLINDER #: 4090  
CYLINDER PRESSURE: 177 PSIG  
ANALYSIS DATE: 05/26/2020  
ANALYSIS TIME: 03:11:56 AM  
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

**Lease:** TRIBAL C1; CSG  
**Stn. No.:** 3003906655  
**Mtr. No.:** 8643601

CASING  
DK / PC

05/28/2020  
35825-12170

**Smpl Date:** 05/20/2020  
**Test Date:** 05/26/2020  
**Run No:** HS200028

**Nitrogen:** 0.5643  
**CO2:** 0.3122  
**Methane:** 83.3964  
**Ethane:** 8.4467  
**Propane:** 4.0886  
**I-Butane:** 0.8486  
**N-Butane:** 1.0853  
**I-Pentane:** 0.4090  
**N-Pentane:** 0.2784  
**Hexane+:** 0.5705

**BTU:** 1222.1  
**GPM:** 18.8200  
**SPG:** 0.6989



Well Name: TRIBAL C1; TBG  
 API #: API #3003906655  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: HS200029  
 Cust No: 35825-12175

### Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)  
 Well Name: TRIBAL C1; TBG  
 County/State: RIO ARRIBA NM  
 Location:  
 Lease/PA/CA:  
 Formation: DK / PC  
 Cust. Stn. No.: API #3003906655  
 8643601

Source: TUBING  
 Well Flowing: Y  
 Pressure: 132 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 73 DEG. F  
 Flow Rate: 100 MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 05/20/2020  
 Sample Time: 1.44 PM  
 Sampled By: JERRY NELSON  
 Sampled by (CO): CHENAULT

Heat Trace: AREA 14 / RUN 1414  
 N  
 Remarks:

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5527	0.5434	0.0610	0.00	0.0053
CO2	0.4235	0.4164	0.0720	0.00	0.0064
Methane	82.3650	80.9771	14.0060	831.89	0.4562
Ethane	9.4787	9.3190	2.5430	167.74	0.0984
Propane	4.3277	4.2548	1.1960	108.89	0.0659
Iso-Butane	0.7811	0.7679	0.2560	25.40	0.0157
N-Butane	0.9765	0.9600	0.3090	31.86	0.0196
I-Pentane	0.3298	0.3242	0.1210	13.19	0.0082
N-Pentane	0.2185	0.2148	0.0790	8.76	0.0054
Hexane Plus	0.5465	0.5373	0.2440	28.81	0.0181
Total	100.0000	98.3149	18.8870	1216.54	0.6993

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
 BTU/CU.FT IDEAL: 1219.4  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1223.4  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1202.1  
 DRY BTU @ 15.025: 1247.9  
 REAL SPECIFIC GRAVITY: 0.7013

CYLINDER #: 4212  
 CYLINDER PRESSURE: 174 PSIG  
 ANALYSIS DATE: 05/26/2020  
 ANALYSIS TIME: 03:32:14 AM  
 ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	TRIBAL C1; TBG	TUBING	05/28/2020
<b>Stn. No.:</b>	API #3003906655	DK / PC	35825-12175
<b>Mtr. No.:</b>	8643601		

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**Smpl Date:** 05/20/2020  
**Test Date:** 05/26/2020  
**Run No:** HS200029

**Nitrogen:** 0.5527  
**CO2:** 0.4235  
**Methane:** 82.3650  
**Ethane:** 9.4787  
**Propane:** 4.3277  
**I-Butane:** 0.7811  
**N-Butane:** 0.9765  
**I-Pentane:** 0.3298  
**N-Pentane:** 0.2185  
**Hexane+:** 0.5465

**BTU:** 1223.4  
**GPM:** 18.8870  
**SPG:** 0.7013

**Well Name: TRIBAL C #1**

API / UWI 3003906655	Surface Legal Location M-6-26N-3W	Field Name BASIN	Route 1414	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,948.00	Original KB/RT Elevation (ft) 6,959.00	KB-Ground Distance (ft) 11.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

## Vertical, Original Hole, 5/28/2020 1:49:12 PM

