



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)	Source: BRADENHEAD
Well Name: TRIBAL C1; BHD	Well Flowing: Y
County/State: RIO ARRIBA NM	Pressure: 78 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 73 DEG. F
Formation: DK / PC	Flow Rate: 100 MCF/D
Cust. Stn. No.: API #3003906655	Sample Method: Purge & Fill
8643601	Sample Date: 05/20/2020
AREA 14 / RUN 1414	Sample Time: 1.30 PM
Heat Trace: N	Sampled By: JERRY NELSON
Remarks:	Sampled by (CO): CHENAULT

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	CYLINDER #:	4232
BTU/CU.FT IDEAL:	1215.8	CYLINDER PRESSURE:	77 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1219.8	ANALYSIS DATE:	05/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1198.6	ANALYSIS TIME:	03:44:50 AM
DRY BTU @ 15.025:	1244.2	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.6976		

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	BRADENHEAD	05/28/2020
Stn. No.:	API #3003906655	DK / PC	35825-12165
Mtr. No.:	8643601		

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

AREA 14 / RUN 1414

Heat Trace: 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
 AREA 14 / RUN 1414
 Heat Trace: N
 Remarks:

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

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

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

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

