



OCD Received
5/28/2020

Well Name: HURON #1A; BHD
API #: API #3003921511
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200024
Cust No: 35825-12150

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: HURON #1A; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API #3003921511
3329630

Source: BRADENHEAD
Well Flowing: N
Pressure: 56 PSIG
Flow Temp: DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 20 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/20/2020
Sample Time: 10.00 AM
Sampled By: JERRY NELSON
Sampled by (CO): HILCORP

RUN 14 / AREA 1414

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2357	0.2313	0.0260	0.00	0.0023
CO2	0.8873	0.8708	0.1520	0.00	0.0135
Methane	82.8020	81.2643	14.0820	836.30	0.4586
Ethane	8.7335	8.5713	2.3430	154.56	0.0907
Propane	3.9271	3.8542	1.0850	98.81	0.0598
Iso-Butane	0.7800	0.7655	0.2560	25.36	0.0157
N-Butane	1.0675	1.0477	0.3380	34.83	0.0214
I-Pentane	0.4050	0.3975	0.1490	16.20	0.0101
N-Pentane	0.3001	0.2945	0.1090	12.03	0.0075
Hexane Plus	0.8618	0.8458	0.3860	45.43	0.0285
Total	100.0000	98.1429	18.9260	1223.52	0.7080

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1226.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1230.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1209.1
DRY BTU @ 15.025: 1255.1
REAL SPECIFIC GRAVITY: 0.7102

CYLINDER #: 4008
CYLINDER PRESSURE: 62 PSIG
ANALYSIS DATE: 05/26/2020
ANALYSIS TIME: 04:37:41 PM
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: HURON #1A; BHD
Stn. No.: API #3003921511
Mtr. No.: 3329630

BRADENHEAD
MV

05/28/2020
35825-12150

Smpl Date: 05/20/2020
Test Date: 05/26/2020
Run No: HS200024

Nitrogen: 0.2357
CO2: 0.8873
Methane: 82.8020
Ethane: 8.7335
Propane: 3.9271
I-Butane: 0.7800
N-Butane: 1.0675
I-Pentane: 0.4050
N-Pentane: 0.3001
Hexane+: 0.8618

BTU: 1230.5
GPM: 18.9260
SPG: 0.7102



Well Name: HURON #1A; CSG
API #: API #3003921511
Source: CASING
Sample Type: GAS
Analysis No: HS200025
Cust No: 35825-12155

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: HURON #1A; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API #3003921511
3329630

Source: CASING
Well Flowing: Y
Pressure: 93 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 20 MCF/D
Sample Method:
Sample Date: 05/20/2020
Sample Time: 9.55 AM
Sampled By: JERRY NELSON
Sampled by (CO): HILCORP

RUN 14 / AREA 1414

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2406	0.2363	0.0270	0.00	0.0023
CO2	0.8450	0.8298	0.1450	0.00	0.0128
Methane	82.9103	81.4155	14.1000	837.39	0.4592
Ethane	8.7389	8.5813	2.3440	154.65	0.0907
Propane	3.9194	3.8487	1.0830	98.62	0.0597
Iso-Butane	0.7781	0.7641	0.2550	25.30	0.0156
N-Butane	1.0635	1.0443	0.3360	34.69	0.0213
I-Pentane	0.4002	0.3930	0.1470	16.01	0.0100
N-Pentane	0.2949	0.2896	0.1070	11.82	0.0073
Hexane Plus	0.8091	0.7945	0.3620	42.65	0.0268
Total	100.0000	98.1971	18.9060	1221.14	0.7059

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1224.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1228.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1206.7
DRY BTU @ 15.025: 1252.7
REAL SPECIFIC GRAVITY: 0.708

CYLINDER #: 6027
CYLINDER PRESSURE: 88 PSIG
ANALYSIS DATE: 05/26/2020
ANALYSIS TIME: 04:05:04 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: HURON #1A; CSG
Stn. No.: API #3003921511
Mtr. No.: 3329630

CASING
MV

05/28/2020
35825-12155

Smpl Date: 05/20/2020
Test Date: 05/26/2020
Run No: HS200025

Nitrogen: 0.2406
CO2: 0.8450
Methane: 82.9103
Ethane: 8.7389
Propane: 3.9194
I-Butane: 0.7781
N-Butane: 1.0635
I-Pentane: 0.4002
N-Pentane: 0.2949
Hexane+: 0.8091

BTU: 1228.1
GPM: 18.9060
SPG: 0.7080



Well Name: HURON #1A; TBG
API #: API #3003921511
Source: TUBING
Sample Type: GAS
Analysis No: HS200026
Cust No: 35825-12160

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: HURON #1A; TBG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API #3003921511
3329630

Source: TUBING
Well Flowing: Y
Pressure: 56 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 20 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/20/2020
Sample Time: 10.10 AM
Sampled By: JERRY NELSON
Sampled by (CO): HILCORP

Heat Trace: AREA 14 / RUN 1414

Remarks: N

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2444	0.2391	0.0270	0.00	0.0024
CO2	0.8992	0.8798	0.1540	0.00	0.0137
Methane	82.6069	80.8251	14.0500	834.33	0.4576
Ethane	8.7796	8.5902	2.3560	155.37	0.0911
Propane	3.9122	3.8278	1.0810	98.43	0.0596
Iso-Butane	0.8043	0.7870	0.2640	26.16	0.0161
N-Butane	1.0693	1.0462	0.3380	34.88	0.0215
I-Pentane	0.4080	0.3992	0.1500	16.32	0.0102
N-Pentane	0.3163	0.3095	0.1150	12.68	0.0079
Hexane Plus	0.9598	0.9391	0.4290	50.59	0.0318
Total	100.0000	97.8430	18.9640	1228.77	0.7117

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1231.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1235.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1214.4
DRY BTU @ 15.025: 1260.7
REAL SPECIFIC GRAVITY: 0.7139

CYLINDER #: 6171
CYLINDER PRESSURE: 60 PSIG
ANALYSIS DATE: 05/26/2020
ANALYSIS TIME: 04:25:16 PM
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: HURON #1A; TBG
Stn. No.: API #3003921511
Mtr. No.: 3329630

TUBING
MV

05/28/2020
35825-12160

Smpl Date: 05/20/2020
Test Date: 05/26/2020
Run No: HS200026

Nitrogen: 0.2444
CO2: 0.8992
Methane: 82.6069
Ethane: 8.7796
Propane: 3.9122
I-Butane: 0.8043
N-Butane: 1.0693
I-Pentane: 0.4080
N-Pentane: 0.3163
Hexane+: 0.9598

BTU: 1235.9
GPM: 18.9640
SPG: 0.7139

Well Name: HURON #1A

API / UWI 3003921511	Surface Legal Location E-2-26N-4W	Field Name BLANCO	Route 1414	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,924.00	Original KB/RT Elevation (ft) 6,936.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Vertical, Original Hole, 5/28/2020 1:51:19 PM
