



NMOCD REC'D
9/24/20

Well Name: OHIO F GOVT #1A; BHD
API #: API #3004523000
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200144
Cust No: 35825-12685

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: OHIO F GOVT #1A; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA: 021126
Formation: MV
Cust. Stn. No.: API #3004523000
22077

Source: BRADENHEAD
Well Flowing: Y
Pressure: 32 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/04/2020
Sample Time: 11.00 AM
Sampled By: PETE JIM
Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6993	1.6501	0.1870	0.00	0.0164
CO2	0.0057	0.0055	0.0010	0.00	0.0001
Methane	86.0354	83.5434	14.6240	868.96	0.4766
Ethane	7.5515	7.3328	2.0250	133.64	0.0784
Propane	2.7176	2.6389	0.7510	68.38	0.0414
Iso-Butane	0.4952	0.4809	0.1620	16.10	0.0099
N-Butane	0.4688	0.4552	0.1480	15.29	0.0094
I-Pentane	0.2235	0.2170	0.0820	8.94	0.0056
N-Pentane	0.0601	0.0584	0.0220	2.41	0.0015
Hexane Plus	0.7429	0.7214	0.3320	39.16	0.0246
Total	100.0000	97.1036	18.3340	1152.88	0.6638

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1155.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1158.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1138.7
DRY BTU @ 15.025: 1182.1
REAL SPECIFIC GRAVITY: 0.6655

CYLINDER #: 4122
CYLINDER PRESSURE: 29 PSIG
ANALYSIS DATE: 08/06/2020
ANALYSIS TIME: 03:28:22 AM
ANALYSIS RUN BY: RICHARD WILSON

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: OHIO F GOVT #1A; BHD
Stn. No.: API #3004523000
Mtr. No.: 22077

BRADENHEAD
MV

09/17/2020
35825-12685

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200144

Nitrogen: 1.6993
CO2: 0.0057
Methane: 86.0354
Ethane: 7.5515
Propane: 2.7176
I-Butane: 0.4952
N-Butane: 0.4688
I-Pentane: 0.2235
N-Pentane: 0.0601
Hexane+: 0.7429

BTU: 1158.9
GPM: 18.3340
SPG: 0.6655



Well Name: OHIO F GOVT #1A; CSG
 API #: API #3004523000
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200145
 Cust No: 35825-12690

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: OHIO F GOVT #1A; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 021126
 Formation: MV
 Cust. Stn. No.: API #3004523000
 22077

Source: CASING
 Well Flowing: Y
 Pressure: 47 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/04/2020
 Sample Time: 11.00 AM
 Sampled By: PETE JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1894	0.1858	0.0210	0.00	0.0018
CO2	0.3170	0.3109	0.0540	0.00	0.0048
Methane	82.0333	80.4660	13.9520	828.54	0.4544
Ethane	9.7254	9.5396	2.6090	172.11	0.1010
Propane	4.2891	4.2072	1.1850	107.92	0.0653
Iso-Butane	0.8533	0.8370	0.2800	27.75	0.0171
N-Butane	1.1103	1.0891	0.3510	36.22	0.0223
I-Pentane	0.4558	0.4471	0.1670	18.24	0.0114
N-Pentane	0.3248	0.3186	0.1180	13.02	0.0081
Hexane Plus	0.7016	0.6882	0.3140	36.98	0.0232
Total	100.0000	98.0895	19.0510	1240.77	0.7094

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1243.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1248.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1226.3
 DRY BTU @ 15.025: 1273.0
 REAL SPECIFIC GRAVITY: 0.7116

CYLINDER #: 4079
 CYLINDER PRESSURE: 37 PSIG
 ANALYSIS DATE: 08/06/2020
 ANALYSIS TIME: 03:42:41 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: OHIO F GOVT #1A; CSG
Stn. No.: API #3004523000
Mtr. No.: 22077

CASING
MV

09/17/2020
35825-12690

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200145

Nitrogen: 0.1894
CO2: 0.3170
Methane: 82.0333
Ethane: 9.7254
Propane: 4.2891
I-Butane: 0.8533
N-Butane: 1.1103
I-Pentane: 0.4558
N-Pentane: 0.3248
Hexane+: 0.7016

BTU: 1248.0
GPM: 19.0510
SPG: 0.7116



Well Name: OHIO F GOVT #1A; TBG
API #: API #3004523000
Source: TUBING
Sample Type: GAS
Analysis No: HS200146
Cust No: 35825-12695

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: OHIO F GOVT #1A; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA: 021126
Formation: MV
Cust. Stn. No.: API #3004523000
22077

Source: TUBING
Well Flowing:
Pressure: 35 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/04/2020
Sample Time: 11.00 AM
Sampled By: PETE JIM
Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1706	0.1671	0.0190	0.00	0.0017
CO2	0.7615	0.7460	0.1300	0.00	0.0116
Methane	81.7501	80.0908	13.9040	825.68	0.4528
Ethane	9.5886	9.3940	2.5730	169.69	0.0995
Propane	4.1898	4.1047	1.1580	105.42	0.0638
Iso-Butane	0.8309	0.8140	0.2730	27.02	0.0167
N-Butane	1.1166	1.0939	0.3530	36.43	0.0224
I-Pentane	0.4265	0.4178	0.1560	17.06	0.0106
N-Pentane	0.2933	0.2873	0.1070	11.76	0.0073
Hexane Plus	0.8721	0.8544	0.3900	45.97	0.0289
Total	100.0000	97.9700	19.0630	1239.02	0.7152

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1241.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1246.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1224.6
DRY BTU @ 15.025: 1271.3
REAL SPECIFIC GRAVITY: 0.7175

CYLINDER #: 6086
CYLINDER PRESSURE: 42 PSIG
ANALYSIS DATE: 08/06/2020
ANALYSIS TIME: 03:57:27 AM
ANALYSIS RUN BY: RICHARD WILSON

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: OHIO F GOVT #1A; TBG
Stn. No.: API #3004523000
Mtr. No.: 22077

TUBING
MV

09/17/2020
35825-12695

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200146
Nitrogen: 0.1706
CO2: 0.7615
Methane: 81.7501
Ethane: 9.5886
Propane: 4.1898
I-Butane: 0.8309
N-Butane: 1.1166
I-Pentane: 0.4265
N-Pentane: 0.2933
Hexane+: 0.8721
BTU: 1246.3
GPM: 19.0630
SPG: 0.7175