



NMOCD REC'D
9/30/20

2030 Afton Place
Farmington, NM 87401
(505) 325-6622
GAS

Analysis No: HS200313
Cust No: 35825-13370

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: WAYNE MOORE COM 1; INT
County/State:
Location:
Lease/PA/CA:
Formation: MV/PC
Cust. Stn. No.: API # 3004510674
97-334-01

Source: INTERMEDIATE
Well Flowing:
Pressure: 98 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/21/2020
Sample Time: 10.20 AM
Sampled By: JOHN RANTS
Sampled by (CO): HILCORP

AREA 04 / RUN 0405

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1476	0.1446	0.0160	0.00	0.0014
CO2	2.5509	2.4996	0.4370	0.00	0.0388
Methane	84.7824	83.0766	14.4140	856.30	0.4696
Ethane	7.1566	7.0126	1.9190	126.65	0.0743
Propane	2.9689	2.9092	0.8200	74.70	0.0452
Iso-Butane	0.5123	0.5020	0.1680	16.66	0.0103
N-Butane	0.7557	0.7405	0.2390	24.65	0.0152
I-Pentane	0.2643	0.2590	0.0970	10.57	0.0066
N-Pentane	0.1960	0.1921	0.0710	7.86	0.0049
Hexane Plus	0.6653	0.6519	0.2980	35.07	0.0220
Total	100.0000	97.9881	18.4790	1152.47	0.6882

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1155.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1158.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1138.5
DRY BTU @ 15.025: 1181.9
REAL SPECIFIC GRAVITY: 0.6901

CYLINDER #: 6245
CYLINDER PRESSURE: 93 PSIG
ANALYSIS DATE: 09/26/2020
ANALYSIS TIME: 01:43:17 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: 09/29/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	WAYNE MOORE COM 1; INT	INTERMEDIATE	09/29/2020
Stn. No.:	API # 3004510674	MV/PC	35825-13370
Mtr. No.:	97-334-01		

Smpl Date:	09/21/2020
Test Date:	09/26/2020
Run No:	HS200313
Nitrogen:	0.1476
CO2:	2.5509
Methane:	84.7824
Ethane:	7.1566
Propane:	2.9689
I-Butane:	0.5123
N-Butane:	0.7557
I-Pentane:	0.2643
N-Pentane:	0.1960
Hexane+:	0.6653
BTU:	1158.7
GPM:	18.4790
SPG:	0.6901



Well Name: WAYNE MOORE COM 1;
API #: API # 3004510674
Source: TUBING
Sample Type: GAS
Analysis No: HS200311
Cust No: 35825-13360

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT) Source: TUBING
Well Name: WAYNE MOORE COM 1; TBG Well Flowing:
County/State: Pressure: 98 PSIG
Location: Flow Temp: DEG. F
Lease/PA/CA: Ambient Temp: DEG. F
Formation: MV/PC Flow Rate: MCF/D
Cust. Stn. No.: API # 3004510674 Sample Method: Purge & Fill
97-334-01 Sample Date: 09/21/2020
Sample Time: 10.20 AM
Sampled By: JOHN RANTS
Sampled by (CO): HILCORP
Heat Trace: AREA 04 / RUN 0405
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1590	0.1557	0.0180	0.00	0.0015
CO2	2.5468	2.4944	0.4360	0.00	0.0387
Methane	84.7767	83.0324	14.4130	856.24	0.4696
Ethane	7.1602	7.0129	1.9200	126.71	0.0743
Propane	2.9683	2.9072	0.8200	74.69	0.0452
Iso-Butane	0.5117	0.5012	0.1680	16.64	0.0103
N-Butane	0.7548	0.7393	0.2390	24.62	0.0151
I-Pentane	0.2633	0.2579	0.0970	10.53	0.0066
N-Pentane	0.1950	0.1910	0.0710	7.82	0.0049
Hexane Plus	0.6642	0.6505	0.2970	35.01	0.0220
Total	100.0000	97.9425	18.4790	1152.27	0.6882

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	4034
BTU/CU.FT IDEAL:	1154.9	CYLINDER PRESSURE:	100 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1158.5	ANALYSIS DATE:	09/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1138.3	ANALYSIS TIME:	01:54:39 PM
DRY BTU @ 15.025:	1181.7	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.69		

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: 09/29/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	WAYNE MOORE COM 1; TBG	TUBING	09/29/2020
Stn. No.:	API # 3004510674	MV/PC	35825-13360
Mtr. No.:	97-334-01		

Smpl Date: 09/21/2020
Test Date: 09/26/2020
Run No: HS200311

Nitrogen: 0.1590
CO2: 2.5468
Methane: 84.7767
Ethane: 7.1602
Propane: 2.9683
I-Butane: 0.5117
N-Butane: 0.7548
I-Pentane: 0.2633
N-Pentane: 0.1950
Hexane+: 0.6642

BTU: 1158.5
GPM: 18.4790
SPG: 0.6900



Well Name: WAYNE MOORE COM 1;
API #: API # 3004510674
Source: CASING
Sample Type: GAS
Analysis No: HS200312
Cust No: 35825-13365

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT) Source: CASING
Well Name: WAYNE MOORE COM 1; CSG Well Flowing:
County/State: Pressure: 98 PSIG
Location: Flow Temp: DEG. F
Lease/PA/CA: Ambient Temp: DEG. F
Formation: MV/PC Flow Rate: MCF/D
Cust. Stn. No.: API # 3004510674 Sample Method: Purge & Fill
97-334-01 Sample Date: 09/21/2020
Sample Time: 10.20 AM
Sampled By: JOHN RANTS
Sampled by (CO): HILCORP
AREA 04 / RUN 0405
Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1569	0.1537	0.0170	0.00	0.0015
CO2	2.5388	2.4871	0.4350	0.00	0.0386
Methane	84.6875	82.9616	14.3980	855.34	0.4691
Ethane	7.1543	7.0085	1.9190	126.61	0.0743
Propane	2.9757	2.9151	0.8220	74.87	0.0453
Iso-Butane	0.5137	0.5032	0.1690	16.71	0.0103
N-Butane	0.7646	0.7490	0.2420	24.94	0.0153
I-Pentane	0.2700	0.2645	0.0990	10.80	0.0067
N-Pentane	0.2025	0.1984	0.0740	8.12	0.0050
Hexane Plus	0.7360	0.7210	0.3290	38.80	0.0244
Total	100.0000	97.9621	18.5040	1156.19	0.6905

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	4039
BTU/CU.FT IDEAL:	1158.9	CYLINDER PRESSURE:	69 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1162.5	ANALYSIS DATE:	09/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1142.3	ANALYSIS TIME:	01:27:29 PM
DRY BTU @ 15.025:	1185.8	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.6924		

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: 09/29/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	WAYNE MOORE COM 1; CSG	CASING	09/29/2020
Stn. No.:	API # 3004510674	MV/PC	35825-13365
Mtr. No.:	97-334-01		

Smpl Date: 09/21/2020
Test Date: 09/26/2020
Run No: HS200312

Nitrogen: 0.1569
CO2: 2.5388
Methane: 84.6875
Ethane: 7.1543
Propane: 2.9757
I-Butane: 0.5137
N-Butane: 0.7646
I-Pentane: 0.2700
N-Pentane: 0.2025
Hexane+: 0.7360

BTU: 1162.5
GPM: 18.5040
SPG: 0.6924