



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

Analysis No: HS180158
Cust No: 35825-10610

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: MCCOY GAS COM D #1; BHD
County/State: NM
Location:
Field: AREA N/A
Formation: DK
Cust. Stn. No.: 22004 / 70718

Source: BRADENHEAD
Well Flowing: Y
Pressure: 6 PSIG
Flow Temp: 93 DEG. F
Ambient Temp: 79 DEG. F
Flow Rate: 62 MCF/D
Sample Method: Purge & Fill
Sample Date: 08/24/2018
Sample Time: 11.32 AM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

API 3004509218

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.9932	1.6779	0.2200	0.00	0.0193
CO2	0.0274	0.0231	0.0050	0.00	0.0004
Methane	90.8045	76.4417	15.4290	917.13	0.5030
Ethane	4.0961	3.4482	1.0980	72.49	0.0425
Propane	1.7293	1.4558	0.4770	43.51	0.0263
Iso-Butane	0.3545	0.2984	0.1160	11.53	0.0071
N-Butane	0.4830	0.4066	0.1530	15.76	0.0097
I-Pentane	0.1651	0.1390	0.0610	6.61	0.0041
N-Pentane	0.1071	0.0902	0.0390	4.29	0.0027
Hexane Plus	0.2398	0.2019	0.1070	12.64	0.0079
Total	100.0000	84.1828	17.7050	1083.95	0.6230

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1086.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1089.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1070.2
DRY BTU @ 15.025: 1111.0
REAL SPECIFIC GRAVITY: 0.6244

CYLINDER #: 4233
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 09/04/2018
ANALYSIS TIME: 10:14:15 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

GC Method: C6+ Gas

Last Cal/Verify: 09/07/2018

NM000

SEP 11 2018

DISTRICT III



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCOY GAS COM D #1; BHD
Stn. No.: 22004 / 70718
Mtr. No.: API 3004509218

BRADENHEAD
DK

09/07/2018
35825-10610

Smpl Date: 08/24/2018
Test Date: 09/04/2018
Run No: HS180158

Nitrogen: 1.9932
CO2: 0.0274
Methane: 90.8045
Ethane: 4.0961
Propane: 1.7293
I-Butane: 0.3545
N-Butane: 0.4830
I-Pentane: 0.1651
N-Pentane: 0.1071
Hexane+: 0.2398

BTU: 1089.2
GPM: 17.7050
SPG: 0.6244



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

Analysis No: HS180159
Cust No: 35825-10615

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: MCCOY GAS COM D #1; CSG
County/State: NM
Location:
Field: AREA N/A
Formation: DK
Cust. Stn. No.: 22004 / 70718

Source: CASING
Well Flowing: Y
Pressure: 6 PSIG
Flow Temp: 93 DEG. F
Ambient Temp: 79 DEG. F
Flow Rate: 62 MCF/D
Sample Method: Purge & Fill
Sample Date: 08/24/2018
Sample Time: 11.32 AM
Sampled By: KALAN DIBBLE
Sampled by (CO): HILCORP

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

API 3004509218

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4414	0.7973	0.1590	0.00	0.0139
CO2	1.5514	0.8582	0.2660	0.00	0.0236
Methane	81.6943	45.1901	13.8930	825.11	0.4525
Ethane	8.6459	4.7826	2.3200	153.01	0.0898
Propane	3.5764	1.9783	0.9880	89.99	0.0545
Iso-Butane	0.4971	0.2750	0.1630	16.17	0.0100
N-Butane	0.9229	0.5105	0.2920	30.11	0.0185
I-Pentane	0.2797	0.1547	0.1030	11.19	0.0070
N-Pentane	0.2466	0.1364	0.0900	9.89	0.0061
Hexane Plus	1.1443	0.6330	0.5120	60.32	0.0379
Total	100.0000	55.3161	18.7860	1195.77	0.7137

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1198.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1202.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1181.7
DRY BTU @ 15.025: 1226.7
REAL SPECIFIC GRAVITY: 0.7159

CYLINDER #: 7006
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 09/04/2018
ANALYSIS TIME: 10:01:10 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: 09/07/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D #1; CSG	CASING	09/07/2018
Stn. No.:	22004 / 70718	DK	35825-10615
Mtr. No.:	API 3004509218		

Smpl Date:	08/24/2018
Test Date:	09/04/2018
Run No:	HS180159
Nitrogen:	1.4414
CO2:	1.5514
Methane:	81.6943
Ethane:	8.6459
Propane:	3.5764
I-Butane:	0.4971
N-Butane:	0.9229
I-Pentane:	0.2797
N-Pentane:	0.2466
Hexane+:	1.1443
BTU:	1202.6
GPM:	18.7860
SPG:	0.7159

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emnrd.state.nm.us/ocd/District III/3district.htm](http://emnrd.state.nm.us/ocd/District%20III/3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 8/23/2018 Operator Hilcorp Energy Company API # 3004509218
Property Name MCCOY GAS COM D Well No. 1 Location: Unit H Section 28 Township 030N Range 012W
Well Status Flowing Initial PSI: Tubing 5 Intermediate Casing 5 Bradenhead 39

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE					FLOW CHARACTERISTICS	
	BRADENHEAD			INTERM		BRADENHEAD	INTERMEDIATE
	BH	Int	Csg	Int	Csg		
5 min	0		5			Steady Flow	
10 min	0		5			Surges	
15 min	0		5			Down to Nothing Y	
20 min						Nothing	
25 min						Gas Y	
30 min						Gas & Water	
						Water	

If Bradenhead flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

If Intermediate flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN PRESSURE Bradenhead 0 Intermediate

REMARKS:

NMOC
SEP 11 2018
DISTRICT III

Tested By kdibble Witness Monica Kuehling