



Well Name: MCCOY GAS COM D #1;
 API #: API # 3004509218
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS2021047
 Cust No: 35825-10610

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MCCOY GAS COM D #1; BHD	Well Flowing:	Y
County/State:	NM	Pressure:	79 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	46 DEG. F
Formation:		Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3004509218	Sample Method:	Purge & Fill
		Sample Date:	04/26/2021
		Sample Time:	7.50 AM
		Sampled By:	NED HERNANDEZ
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.9094	1.8810	0.2110	0.00	0.0185
CO2	0.0242	0.0238	0.0040	0.00	0.0004
Methane	92.1459	90.7731	15.6550	930.67	0.5104
Ethane	3.3374	3.2877	0.8940	59.06	0.0346
Propane	1.3989	1.3781	0.3860	35.20	0.0213
Iso-Butane	0.3315	0.3266	0.1090	10.78	0.0067
N-Butane	0.4339	0.4274	0.1370	14.16	0.0087
I-Pentane	0.1616	0.1592	0.0590	6.47	0.0040
N-Pentane	0.1061	0.1045	0.0390	4.25	0.0026
Hexane Plus	0.1511	0.1488	0.0680	7.96	0.0050
Total	100.0000	98.5102	17.5620	1068.55	0.6122

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024	CYLINDER #:	4106
BTU/CU.FT IDEAL:	1071.0	CYLINDER PRESSURE:	58 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1073.6	ANALYSIS DATE:	04/29/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1054.9	ANALYSIS TIME:	04:05:38 PM
DRY BTU @ 15.025:	1095.1	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6134		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D #1; BHD	BRADENHEAD	05/05/2021
Stn. No.:	API # 3004509218		35825-10610
Mtr. No.:			

Smpl Date:	04/26/2021	08/24/2018
Test Date:	04/29/2021	09/04/2018
Run No:	HS2021047	HS180158
Nitrogen:	1.9094	1.9932
CO2:	0.0242	0.0274
Methane:	92.1459	90.8045
Ethane:	3.3374	4.0961
Propane:	1.3989	1.7293
I-Butane:	0.3315	0.3545
N-Butane:	0.4339	0.4830
I-Pentane:	0.1616	0.1651
N-Pentane:	0.1061	0.1071
Hexane+:	0.1511	0.2398
BTU:	1073.6	1089.2
GPM:	17.5620	17.7050
SPG:	0.6134	0.6244



Well Name: MCCOY GAS COM D #1;
 API #: API # 3004509218
 Source: CASING
 Sample Type: GAS
 Analysis No: HS2021048
 Cust No: 35825-10615

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	MCCOY GAS COM D #1; CSG	Well Flowing:	Y
County/State:	NM	Pressure:	11 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	46 DEG. F
Formation:		Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3004509218	Sample Method:	Purge & Fill
		Sample Date:	04/26/2021
		Sample Time:	7.50 AM
	AREA 2 / RUN 0208	Sampled By:	NED HERNANDEZ
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	16.5366	4.4787	1.8240	0.00	0.1599
CO2	1.2982	0.3516	0.2220	0.00	0.0197
Methane	69.4476	18.8088	11.8010	701.42	0.3847
Ethane	7.3369	1.9871	1.9670	129.84	0.0762
Propane	3.0199	0.8179	0.8340	75.98	0.0460
Iso-Butane	0.4324	0.1171	0.1420	14.06	0.0087
N-Butane	0.7687	0.2082	0.2430	25.08	0.0154
I-Pentane	0.2215	0.0600	0.0810	8.86	0.0055
N-Pentane	0.1924	0.0521	0.0700	7.71	0.0048
Hexane Plus	0.7458	0.2020	0.3330	39.31	0.0247
Total	100.0000	27.0835	17.5170	1002.27	0.7456

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0026	CYLINDER #:	4030
BTU/CU.FT IDEAL:	1004.6	CYLINDER PRESSURE:	0 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1007.2	ANALYSIS DATE:	05/03/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	989.7	ANALYSIS TIME:	09:42:39 AM
DRY BTU @ 15.025:	1027.4	ANALYSIS RUN BY:	SHYANN GALLEGOS
REAL SPECIFIC GRAVITY:	0.7472		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D #1; CSG	CASING	05/05/2021
Stn. No.:	API # 3004509218		35825-10615
Mtr. No.:			

Smpl Date:	04/26/2021	08/24/2018
Test Date:	05/03/2021	09/04/2018
Run No:	HS2021048	HS180159
Nitrogen:	16.5366	1.4414
CO2:	1.2982	1.5514
Methane:	69.4476	81.6943
Ethane:	7.3369	8.6459
Propane:	3.0199	3.5764
I-Butane:	0.4324	0.4971
N-Butane:	0.7687	0.9229
I-Pentane:	0.2215	0.2797
N-Pentane:	0.1924	0.2466
Hexane+:	0.7458	1.1443
BTU:	1007.2	1202.6
GPM:	17.5170	18.7860
SPG:	0.7472	0.7159



Well Name: MCCOY GAS COM D1; TBG
 API #: API # 3004509218
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS2021049
 Cust No: 35825-13585

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	MCCOY GAS COM D1; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	4 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	46 DEG. F
Formation:		Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3004509218	Sample Method:	Purge & Fill
		Sample Date:	04/26/2021
		Sample Time:	7.50 AM
		Sampled By:	NED HERNANDEZ
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks: AREA 2 / RUN 0208
 PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6070	0.2277	0.0670	0.00	0.0059
CO2	1.6042	0.6018	0.2750	0.00	0.0244
Methane	82.7244	31.0342	14.0710	835.52	0.4582
Ethane	7.8982	2.9630	2.1190	139.77	0.0820
Propane	3.2531	1.2204	0.8990	81.85	0.0495
Iso-Butane	0.4814	0.1806	0.1580	15.65	0.0097
N-Butane	0.8282	0.3107	0.2620	27.02	0.0166
I-Pentane	0.2823	0.1059	0.1040	11.29	0.0070
N-Pentane	0.2698	0.1012	0.0980	10.82	0.0067
Hexane Plus	2.0514	0.7696	0.9180	108.13	0.0679
Total	100.0000	37.5151	18.9710	1230.06	0.7279

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036	CYLINDER #:	4213
BTU/CU.FT IDEAL:	1232.9	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1237.4	ANALYSIS DATE:	04/29/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1215.9	ANALYSIS TIME:	04:20:15 PM
DRY BTU @ 15.025:	1262.2	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7302		

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: 05/05/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D1; TBG	TUBING	05/05/2021
Stn. No.:	API # 3004509218		35825-13585
Mtr. No.:			

Smpl Date: 04/26/2021
Test Date: 04/29/2021
Run No: HS2021049

Nitrogen: 0.6070
CO2: 1.6042
Methane: 82.7244
Ethane: 7.8982
Propane: 3.2531
I-Butane: 0.4814
N-Butane: 0.8282
I-Pentane: 0.2823
N-Pentane: 0.2698
Hexane+: 2.0514

BTU: 1237.4
GPM: 18.9710
SPG: 0.7302

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 27519

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	27519	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								