



Well Name: MCCOY GAS COM D #1;
 API #: 3004509218
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240107
 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:	SAN JUAN NM	Pressure:	155 PSIG
Location:		Flow Temp:	75 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	3004509218	Sample Method:	
	22004	Sample Date:	05/16/2024
		Sample Time:	2.00 PM
	AREA 2 / RUN 0208	Sampled By:	JESSE RANGEL
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.9390	1.9180	0.2140	0.00	0.0188
CO2	0.0012	0.0012	0.0000	0.00	0.0000
Methane	93.0663	92.0567	15.8100	939.97	0.5155
Ethane	3.0031	2.9705	0.8050	53.15	0.0312
Propane	1.1399	1.1275	0.3150	28.68	0.0174
Iso-Butane	0.2818	0.2787	0.0920	9.16	0.0057
N-Butane	0.2964	0.2932	0.0940	9.67	0.0059
I-Pentane	0.1016	0.1005	0.0370	4.06	0.0025
N-Pentane	0.0612	0.0605	0.0220	2.45	0.0015
Hexane Plus	0.1095	0.1083	0.0490	5.77	0.0036
Total	100.0000	98.9151	17.4380	1052.92	0.6021

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023
BTU/CU.FT IDEAL:	1055.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1057.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1039.4
DRY BTU @ 15.025:	1079.0
REAL SPECIFIC GRAVITY:	0.6032

CYLINDER #:	2146
CYLINDER PRESSURE:	140 PSIG
ANALYSIS DATE:	05/23/2024
ANALYSIS TIME:	04:37:53 PM
ANALYSIS RUN BY:	ALEXIS MITCHELL

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D #1; BHD	BRADENHEAD	05/29/2024
Stn. No.:	3004509218	DAKOTA	35825-10610
Mtr. No.:	22004		

Smpl Date:	05/16/2024	04/26/2021	08/24/2018
Test Date:	05/23/2024	04/29/2021	09/04/2018
Run No:	HS20240107	HS2021047	HS180158
Nitrogen:	1.9390	1.9094	1.9932
CO2:	0.0012	0.0242	0.0274
Methane:	93.0663	92.1459	90.8045
Ethane:	3.0031	3.3374	4.0961
Propane:	1.1399	1.3989	1.7293
I-Butane:	0.2818	0.3315	0.3545
N-Butane:	0.2964	0.4339	0.4830
I-Pentane:	0.1016	0.1616	0.1651
N-Pentane:	0.0612	0.1061	0.1071
Hexane+:	0.1095	0.1511	0.2398
BTU:	1057.8	1073.6	1089.2
GPM:	17.4380	17.5620	17.7050
SPG:	0.6032	0.6134	0.6244



Well Name: MCCOY GAS COM D #1;
 API #: 3004509218
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240108
 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:	SAN JUAN NM	Pressure:	2 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	75 DEG. F
Formation:	DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	3004509218	Sample Method:	
	22004	Sample Date:	05/16/2024
		Sample Time:	2.00 PM
	AREA 2 / RUN 0208	Sampled By:	JESSE RANGEL
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5768	0.1765	0.0640	0.00	0.0056
CO2	1.3923	0.4260	0.2380	0.00	0.0212
Methane	82.2605	25.1699	13.9900	830.83	0.4556
Ethane	8.7591	2.6801	2.3500	155.01	0.0909
Propane	3.8604	1.1812	1.0670	97.13	0.0588
Iso-Butane	0.5324	0.1629	0.1750	17.31	0.0107
N-Butane	1.0233	0.3131	0.3240	33.38	0.0205
I-Pentane	0.3160	0.0967	0.1160	12.64	0.0079
N-Pentane	0.2621	0.0802	0.0950	10.51	0.0065
Hexane Plus	1.0171	0.3112	0.4550	53.61	0.0337
Total	100.0000	30.5978	18.8740	1210.43	0.7114

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0034	CYLINDER #:	1916
BTU/CU.FT IDEAL:	1213.2	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1217.4	ANALYSIS DATE:	05/23/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1196.2	ANALYSIS TIME:	04:45:43 PM
DRY BTU @ 15.025:	1241.8	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7135		

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCOY GAS COM D #1; CSG	CASING	05/29/2024
Stn. No.:	3004509218	DAKOTA	35825-10615
Mtr. No.:	22004		

Smpl Date:	05/16/2024	04/26/2021	08/24/2018
Test Date:	05/23/2024	05/03/2021	09/04/2018
Run No:	HS20240108	HS2021048	HS180159
Nitrogen:	0.5768	16.5366	1.4414
CO2:	1.3923	1.2982	1.5514
Methane:	82.2605	69.4476	81.6943
Ethane:	8.7591	7.3369	8.6459
Propane:	3.8604	3.0199	3.5764
I-Butane:	0.5324	0.4324	0.4971
N-Butane:	1.0233	0.7687	0.9229
I-Pentane:	0.3160	0.2215	0.2797
N-Pentane:	0.2621	0.1924	0.2466
Hexane+:	1.0171	0.7458	1.1443
BTU:	1217.4	1007.2	1202.6
GPM:	18.8740	17.5170	18.7860
SPG:	0.7135	0.7472	0.7159



Well Name: MCCOY GAS COM D1; TBG

API #: 3004509218

Source: TUBING

Sample Type: GAS

Analysis No: HS20240109

Cust No: 35825-13585

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCOY GAS COM D1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DAKOTA
 Cust. Stn. No.: 3004509218
 22004

Source: TUBING
 Well Flowing: Y
 Pressure: 2 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 75 DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 05/16/2024
 Sample Time: 2.00 PM
 Sampled By: JESSE RANGEL
 Sampled by (CO): HILCORP

Heat Trace: AREA 2 / RUN 0208

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5707	0.1661	0.0630	0.00	0.0055
CO2	1.4352	0.4177	0.2460	0.00	0.0218
Methane	82.4037	23.9821	14.0140	832.28	0.4564
Ethane	8.8004	2.5612	2.3610	155.74	0.0914
Propane	3.8790	1.1289	1.0720	97.60	0.0591
Iso-Butane	0.5247	0.1527	0.1720	17.06	0.0105
N-Butane	0.9978	0.2904	0.3160	32.55	0.0200
I-Pentane	0.2921	0.0850	0.1070	11.69	0.0073
N-Pentane	0.2436	0.0709	0.0890	9.77	0.0061
Hexane Plus	0.8528	0.2482	0.3820	44.95	0.0282
Total	100.0000	29.1032	18.8220	1201.64	0.7063

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1204.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1208.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1187.5
 DRY BTU @ 15.025: 1232.7
 REAL SPECIFIC GRAVITY: 0.7084

CYLINDER #: 027
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 05/24/2024
 ANALYSIS TIME: 08:04:38 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 05/29/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCOY GAS COM D1; TBG
Stn. No.: 3004509218
Mtr. No.: 22004

TUBING
DAKOTA

05/29/2024
35825-13585

Smpl Date:	05/16/2024	04/26/2021
Test Date:	05/24/2024	04/29/2021
Run No:	HS20240109	HS2021049
Nitrogen:	0.5707	0.6070
CO2:	1.4352	1.6042
Methane:	82.4037	82.7244
Ethane:	8.8004	7.8982
Propane:	3.8790	3.2531
I-Butane:	0.5247	0.4814
N-Butane:	0.9978	0.8282
I-Pentane:	0.2921	0.2823
N-Pentane:	0.2436	0.2698
Hexane+:	0.8528	2.0514
BTU:	1208.5	1237.4
GPM:	18.8220	18.9710
SPG:	0.7084	0.7302

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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 352731

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 352731
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	BH = 155 Not same gas	8/27/2024