Well Name: MCCORD 11; BHD
API #: 3004509643
Source: BRADENHEAD
Sample Type: GAS

Analysis No: HS20240041
Cust No: 35825-10195

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MCCORD 11; BHD	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	100 PSIG
Location:	N09-30N-13W	Flow Temp:	70 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004509643	Sample Method:	Purge & Fill
	ELB-713800	Sample Date:	04/25/2024
	73800-01	Sample Time:	9.01 AM
	AREA 2 / RUN 205	Sampled By:	ROGER TOM
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4349	0.4294	0.0480	0.00	0.0042
CO2	0.0382	0.0377	0.0070	0.00	0.0006
Methane	97.3387	96.1085	16.5320	983.12	0.5392
Ethane	1.3154	1.2988	0.3520	23.28	0.0137
Propane	0.6368	0.6288	0.1760	16.02	0.0097
Iso-Butane	0.1281	0.1265	0.0420	4.17	0.0026
N-Butane	0.0536	0.0529	0.0170	1.75	0.0011
I-Pentane	0.0075	0.0074	0.0030	0.30	0.0002
N-Pentane	0.0046	0.0045	0.0020	0.18	0.0001
Hexane Plus	0.0422	0.0417	0.0190	2.22	0.0014
Total	100.0000	98.7362	17.1980	1031.05	0.5726

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0021	CYLINDER #:	2170
BTU/CU.FT IDEAL:	1033.4	CYLINDER PRESSURE:	64 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1035.6	ANALYIS DATE:	05/06/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1017.6	ANALYIS TIME:	03:07:59 PM
DRY BTU @ 15.025:	1056.3	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.5736		

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: 05/09/2024**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	MCCORD 11; BHD	BRADENHEAD	05/09/2024
Stn. No.:	3004509643	DK	35825-10195
Mtr. No.:	ELB-713800		

Smpl Date:	04/25/2024	08/19/2021	05/15/2018
Test Date:	05/06/2024	08/27/2021	05/17/2018
Run No:	HS20240041	HS2021193	HS180047
Nitrogen:	0.4349	0.4327	0.4332
CO2:	0.0382	0.0211	0.0324
Methane:	97.3387	97.4673	97.6324
Ethane:	1.3154	1.3017	1.1588
Propane:	0.6368	0.6237	0.5514
I-Butane:	0.1281	0.1258	0.1085
N-Butane:	0.0536	0.0094	0.0457
I-Pentane:	0.0075	0.0065	0.0045
N-Pentane:	0.0046	0.0044	0.0029
Hexane+:	0.0422	0.0074	0.0302
BTU:	1035.6	1032.9	1031.9
GPM:	17.1980	17.1780	17.1640
SPG:	0.5736	0.5716	0.5711

Well Name: MCCORD 11; CSG
API #: 3004509643
Source: CASING
Sample Type: GAS

Analysis No: HS20240042
Cust No: 35825-10200

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	MCCORD 11; CSG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	100 PSIG
Location:	DK	Flow Temp:	70 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	N09-30N-13W	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004509643	Sample Method:	Purge & Fill
	ELB-73800	Sample Date:	04/25/2024
	73800-01	Sample Time:	9.05 AM
	AREA 2 / RUN 205	Sampled By:	ROGER TOM
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5859	0.5792	0.0650	0.00	0.0057
CO2	0.9032	0.8929	0.1550	0.00	0.0137
Methane	78.0126	77.1269	13.2720	787.93	0.4321
Ethane	10.4614	10.3426	2.8080	185.14	0.1086
Propane	5.5251	5.4624	1.5280	139.02	0.0841
Iso-Butane	0.9355	0.9249	0.3070	30.42	0.0188
N-Butane	1.8813	1.8599	0.5950	61.37	0.0378
I-Pentane	0.6474	0.6400	0.2380	25.90	0.0161
N-Pentane	0.6111	0.6042	0.2220	24.50	0.0152
Hexane Plus	0.4365	0.4315	0.1950	23.01	0.0144
Total	100.0000	98.8645	19.3850	1277.28	0.7466

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0038	CYLINDER #:	4083
BTU/CU.FT IDEAL:	1280.2	CYLINDER PRESSURE:	131 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1285.1	ANALYIS DATE:	05/06/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1262.7	ANALYIS TIME:	03:23:29 PM
DRY BTU @ 15.025:	1310.8	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7491		

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: 05/09/2024**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	MCCORD 11; CSG	CASING	05/09/2024
Stn. No.:	3004509643	N09-30N-13W	35825-10200
Mtr. No.:	ELB-73800		

Smpl Date:	04/25/2024	08/19/2021	05/15/2018
Test Date:	05/06/2024	08/27/2021	05/17/2018
Run No:	HS20240042	HS2021194	HS180048
Nitrogen:	0.5859	0.5892	0.7904
CO2:	0.9032	0.2223	0.0195
Methane:	78.0126	75.4136	77.6761
Ethane:	10.4614	10.9904	9.9296
Propane:	5.5251	6.2292	5.6420
I-Butane:	0.9355	1.1317	1.0003
N-Butane:	1.8813	2.3959	2.2724
I-Pentane:	0.6474	1.0061	0.9466
N-Pentane:	0.6111	1.0130	0.9205
Hexane+:	0.4365	1.0086	0.8026
BTU:	1285.1	1371.1	1334.5
GPM:	19.3850	19.9350	19.6250
SPG:	0.7491	0.7934	0.7688

Well Name: MCCORD 11; TBG
API #: 3004509643
Source: TUBING
Sample Type: GAS

Analysis No: HS20240043
Cust No: 35825-10205

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	MCCORD 11; TBG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	100 PSIG
Location:	N09-30N-13W	Flow Temp:	70 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004509643	Sample Method:	Purge & Fill
	ELB-73800	Sample Date:	04/25/2024
	73800-01	Sample Time:	9.01 AM
	AREA 2 / RUN 205	Sampled By:	ROGER TOM
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6056	0.6056	0.0670	0.00	0.0059
CO2	1.3952	1.3951	0.2390	0.00	0.0212
Methane	78.9844	78.9804	13.4360	797.74	0.4375
Ethane	10.3074	10.3069	2.7660	182.41	0.1070
Propane	5.0054	5.0052	1.3840	125.94	0.0762
Iso-Butane	0.7651	0.7651	0.2510	24.88	0.0154
N-Butane	1.4165	1.4164	0.4480	46.21	0.0284
I-Pentane	0.4218	0.4218	0.1550	16.88	0.0105
N-Pentane	0.3963	0.3963	0.1440	15.89	0.0099
Hexane Plus	0.7023	0.7023	0.3140	37.02	0.0232
Total	100.0000	99.9951	19.2040	1246.97	0.7352

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0037	CYLINDER #:	6061
BTU/CU.FT IDEAL:	1249.8	CYLINDER PRESSURE:	81 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1254.5	ANALYIS DATE:	05/06/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1232.7	ANALYIS TIME:	03:15:36 PM
DRY BTU @ 15.025:	1279.6	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7376		

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: 05/09/2024**
GC Method: C6+ Gas

HILCORP (BHD PROJECT)

WELL ANALYSIS COMPARISON

Lease:	MCCORD 11; TBG	TUBING	05/09/2024
Stn. No.:	3004509643	DK	35825-10205
Mtr. No.:	ELB-73800		

Smpl Date:	04/25/2024	08/19/2021	05/15/2018
Test Date:	05/06/2024	08/27/2021	05/17/2018
Run No:	HS20240043	HS2021195	HS180049
Nitrogen:	0.6056	0.5880	0.5691
CO2:	1.3952	1.4266	1.4012
Methane:	78.9844	78.2783	78.5900
Ethane:	10.3074	10.7390	10.7029
Propane:	5.0054	5.2559	5.0595
I-Butane:	0.7651	0.7852	0.7625
N-Butane:	1.4165	1.4599	1.4451
I-Pentane:	0.4218	0.4304	0.4337
N-Pentane:	0.3963	0.3924	0.3886
Hexane+:	0.7023	0.6443	0.6474
BTU:	1254.5	1260.5	1257.0
GPM:	19.2040	19.2690	19.2400
SPG:	0.7376	0.7418	0.7389

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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 346869

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 346869
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead 100 at time of sample - for record	7/22/2024