



Well Name: WAYNE MOORE COM 1A;
 API #: 3004523978
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230042
 Cust No: 35825-13195

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	WAYNE MOORE COM 1A; BHD	Well Flowing:	Y
County/State:	NM	Pressure:	127 PSIG
Location:		Flow Temp:	83 DEG. F
Lease/PA/CA:	E-5167-13	Ambient Temp:	70 DEG. F
Formation:	MV/PC	Flow Rate:	60 MCF/D
Cust. Stn. No.:	3004523978	Sample Method:	Purge & Fill
	14-396-01	Sample Date:	05/11/2023
	AREA 4 / RUN 0408	Sample Time:	1.30 PM
Heat Trace:	N	Sampled By:	LAWRENCE LUCERO
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.2509	1.2353	0.1380	0.00	0.0121
CO2	0.1185	0.1170	0.0200	0.00	0.0018
Methane	98.3174	97.0893	16.6970	993.01	0.5446
Ethane	0.2126	0.2099	0.0570	3.76	0.0022
Propane	0.0011	0.0011	0.0000	0.03	0.0000
Iso-Butane	0.0011	0.0011	0.0000	0.04	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0075	0.0074	0.0030	0.30	0.0002
Hexane Plus	0.0909	0.0898	0.0410	4.79	0.0030
Total	100.0000	98.7509	16.9560	1001.92	0.5639

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.002	CYLINDER #:	1418
BTU/CU.FT IDEAL:	1004.2	CYLINDER PRESSURE:	34 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1006.3	ANALYSIS DATE:	05/16/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	988.8	ANALYSIS TIME:	04:26:00 PM
DRY BTU @ 15.025:	1026.5	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.5648		

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: 05/23/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	WAYNE MOORE COM 1A; BHD	BRADENHEAD	05/23/2023
Stn. No.:	3004523978	MV/PC	35825-13195
Mtr. No.:	14-396-01		

Smpl Date:	05/11/2023	08/25/2020
Test Date:	05/16/2023	09/02/2020
Run No:	HS20230042	HS200264
Nitrogen:	1.2509	1.4959
CO2:	0.1185	0.2358
Methane:	98.3174	97.9705
Ethane:	0.2126	0.2242
Propane:	0.0011	0.0114
I-Butane:	0.0011	0.0000
N-Butane:	0.0000	0.0000
I-Pentane:	0.0000	0.0000
N-Pentane:	0.0075	0.0000
Hexane+:	0.0909	0.0622
BTU:	1006.3	1001.3
GPM:	16.9560	16.9340
SPG:	0.5648	0.5662



Well Name: WAYNE MOORE COM 1A;
 API #: 3004523978
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20230043
 Cust No: 35825-13200

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	WAYNE MOORE COM 1A; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	122 PSIG
Location:		Flow Temp:	83 DEG. F
Lease/PA/CA:	E-5167-13	Ambient Temp:	70 DEG. F
Formation:	MV/PC	Flow Rate:	60 MCF/D
Cust. Stn. No.:	3004523978	Sample Method:	Purge & Fill
	14-396-01	Sample Date:	05/11/2023
	AREA 4 / RUN 0408	Sample Time:	1.30 PM
Heat Trace:	N	Sampled By:	LAWRENCE LUCERO
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0548	0.0548	0.0060	0.00	0.0005
CO2	2.6208	2.6193	0.4480	0.00	0.0398
Methane	85.7997	85.7504	14.5860	866.58	0.4752
Ethane	6.1864	6.1828	1.6590	109.48	0.0642
Propane	3.3170	3.3151	0.9160	83.46	0.0505
Iso-Butane	0.5279	0.5276	0.1730	17.17	0.0106
N-Butane	0.6665	0.6661	0.2110	21.74	0.0134
I-Pentane	0.1899	0.1898	0.0700	7.60	0.0047
N-Pentane	0.1437	0.1436	0.0520	5.76	0.0036
Hexane Plus	0.4933	0.4930	0.2210	26.00	0.0163
Total	100.0000	99.9425	18.3420	1137.79	0.6789

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	222
BTU/CU.FT IDEAL:	1140.4	CYLINDER PRESSURE:	100 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1143.9	ANALYSIS DATE:	05/16/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1124.0	ANALYSIS TIME:	04:22:00 PM
DRY BTU @ 15.025:	1166.8	ANALYSIS RUN BY:	KERRA GONZALEZ
REAL SPECIFIC GRAVITY:	0.6807		

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: 05/23/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	WAYNE MOORE COM 1A; CSG	CASING	05/23/2023
Stn. No.:	3004523978	MV/PC	35825-13200
Mtr. No.:	14-396-01		

Smpl Date:	05/11/2023	08/25/2020
Test Date:	05/16/2023	09/02/2020
Run No:	HS20230043	HS200265
Nitrogen:	0.0548	0.0840
CO2:	2.6208	2.3279
Methane:	85.7997	86.7287
Ethane:	6.1864	5.9139
Propane:	3.3170	2.9154
I-Butane:	0.5279	0.4749
N-Butane:	0.6665	0.6044
I-Pentane:	0.1899	0.1883
N-Pentane:	0.1437	0.1425
Hexane+:	0.4933	0.6200
BTU:	1143.9	1141.1
GPM:	18.3420	18.2870
SPG:	0.6807	0.6745

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District III
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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 219987

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 219987
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	different	10/6/2023