



Well Name: MADDOX C WN FED 1F;
 API #: 3004534530
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240038
 Cust No: 35825-10870

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MADDOX C WN FED 1F; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	35 PSIG
Location:		Flow Temp:	95 DEG. F
Lease/PA/CA:	NM0546	Ambient Temp:	78 DEG. F
Formation:	DK	Flow Rate:	15 MCF/D
Cust. Stn. No.:	3004534530	Sample Method:	Purge & Fill
	ELB88495	Sample Date:	04/23/2024
	AREA 2 / RUN 0206	Sample Time:	2.00 PM
Heat Trace:	N	Sampled By:	S.W.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4016	0.3936	0.0440	0.00	0.0039
CO2	0.0094	0.0092	0.0020	0.00	0.0001
Methane	93.5805	91.7227	15.8970	945.16	0.5183
Ethane	4.6568	4.5643	1.2480	82.41	0.0483
Propane	1.0130	0.9929	0.2800	25.49	0.0154
Iso-Butane	0.1492	0.1462	0.0490	4.85	0.0030
N-Butane	0.1078	0.1057	0.0340	3.52	0.0022
I-Pentane	0.0205	0.0201	0.0080	0.82	0.0005
N-Pentane	0.0106	0.0104	0.0040	0.42	0.0003
Hexane Plus	0.0506	0.0496	0.0230	2.67	0.0017
Total	100.0000	98.0147	17.5890	1065.34	0.5937

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0023	CYLINDER #:	6227
BTU/CU.FT IDEAL:	1067.8	CYLINDER PRESSURE:	35 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1070.3	ANALYSIS DATE:	05/01/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1051.7	ANALYSIS TIME:	04:37:27 PM
DRY BTU @ 15.025:	1091.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5949		

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:	MADDOX C WN FED 1F; BHD	BRADENHEAD	05/09/2024
Stn. No.:	3004534530	DK	35825-10870
Mtr. No.:	ELB88495		

Smpl Date:	04/23/2024	07/26/2021	09/26/2018
Test Date:	05/01/2024	08/03/2021	09/26/2018
Run No:	HS20240038	HS2021147	HS180212
Nitrogen:	0.4016	0.3301	0.3135
CO2:	0.0094	0.0065	0.0038
Methane:	93.5805	92.8368	93.1806
Ethane:	4.6568	5.2873	4.9975
Propane:	1.0130	1.2334	1.1384
I-Butane:	0.1492	0.1258	0.1600
N-Butane:	0.1078	0.1155	0.1260
I-Pentane:	0.0205	0.0166	0.0218
N-Pentane:	0.0106	0.0094	0.0109
Hexane+:	0.0506	0.0386	0.0475
BTU:	1070.3	1078.3	1076.3
GPM:	17.5890	17.6700	17.6430
SPG:	0.5949	0.5992	0.5977



Well Name: MADDOX C WN FED 1F;
 API #: 3004534530
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240039
 Cust No: 35825-10875

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	MADDOX C WN FED 1F; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	130 PSIG
Location:		Flow Temp:	95 DEG. F
Lease/PA/CA:	NM0546	Ambient Temp:	78 DEG. F
Formation:	DK	Flow Rate:	15 MCF/D
Cust. Stn. No.:	3004534530	Sample Method:	Purge & Fill
	ELB88495	Sample Date:	04/23/2024
	AREA 2 / RUN 0206	Sample Time:	2.00 PM
Heat Trace:	N	Sampled By:	S.W.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8376	0.7830	0.0920	0.00	0.0081
CO2	1.0654	0.9959	0.1820	0.00	0.0162
Methane	80.3326	75.0921	13.6640	811.36	0.4450
Ethane	9.4545	8.8378	2.5370	167.32	0.0982
Propane	4.0992	3.8318	1.1330	103.14	0.0624
Iso-Butane	0.6994	0.6538	0.2300	22.74	0.0140
N-Butane	1.3859	1.2955	0.4380	45.21	0.0278
I-Pentane	0.6442	0.6022	0.2360	25.77	0.0160
N-Pentane	0.6399	0.5982	0.2330	25.65	0.0159
Hexane Plus	0.8413	0.7864	0.3760	44.35	0.0278
Total	100.0000	93.4767	19.1210	1245.54	0.7315

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036	CYLINDER #:	6215
BTU/CU.FT IDEAL:	1248.4	CYLINDER PRESSURE:	128 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1252.9	ANALYSIS DATE:	05/01/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1231.1	ANALYSIS TIME:	04:45:53 PM
DRY BTU @ 15.025:	1278.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7338		

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:	MADDOX C WN FED 1F; CSG	CASING	05/09/2024
Stn. No.:	3004534530	DK	35825-10875
Mtr. No.:	ELB88495		

Smpl Date:	04/23/2024	07/26/2021	09/26/2018
Test Date:	05/01/2024	08/03/2021	09/26/2018
Run No:	HS20240039	HS2021148	HS180213
Nitrogen:	0.8376	0.7897	0.9384
CO2:	1.0654	1.1015	0.8151
Methane:	80.3326	81.6222	86.0922
Ethane:	9.4545	9.4582	8.7236
Propane:	4.0992	3.7067	2.5031
I-Butane:	0.6994	0.5575	0.2420
N-Butane:	1.3859	1.0207	0.2889
I-Pentane:	0.6442	0.4638	0.0724
N-Pentane:	0.6399	0.4565	0.0579
Hexane+:	0.8413	0.8232	0.2664
BTU:	1252.9	1223.7	1129.2
GPM:	19.1210	18.9280	18.2420
SPG:	0.7338	0.7151	0.6513



Well Name: MADDOX C WN FED 1F;
 API #: 3004534530
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240040
 Cust No: 35825-10880

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	MADDOX C WN FED 1F; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	130 PSIG
Location:		Flow Temp:	95 DEG. F
Lease/PA/CA:	NM0546	Ambient Temp:	78 DEG. F
Formation:	DK	Flow Rate:	15 MCF/D
Cust. Stn. No.:	3004534530	Sample Method:	Purge & Fill
	ELB88495	Sample Date:	04/23/2024
	AREA 2 / RUN 0206	Sample Time:	2.00 PM
Heat Trace:	N	Sampled By:	S.W.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5529	0.5501	0.0610	0.00	0.0053
CO2	1.5802	1.5721	0.2710	0.00	0.0240
Methane	79.8127	79.4048	13.5750	806.11	0.4421
Ethane	10.3561	10.3032	2.7790	183.27	0.1075
Propane	4.5253	4.5022	1.2510	113.86	0.0689
Iso-Butane	0.6817	0.6782	0.2240	22.17	0.0137
N-Butane	1.2580	1.2516	0.3980	41.04	0.0252
I-Pentane	0.3832	0.3812	0.1410	15.33	0.0095
N-Pentane	0.3410	0.3393	0.1240	13.67	0.0085
Hexane Plus	0.5089	0.5063	0.2280	26.82	0.0168
Total	100.0000	99.4890	19.0520	1222.27	0.7217

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	7008
BTU/CU.FT IDEAL:	1225.1	CYLINDER PRESSURE:	133 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1229.4	ANALYSIS DATE:	05/01/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1208.0	ANALYSIS TIME:	04:54:07 PM
DRY BTU @ 15.025:	1254.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7239		

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:	MADDOX C WN FED 1F; TBG	TUBING	05/09/2024
Stn. No.:	3004534530	DK	35825-10880
Mtr. No.:	ELB88495		

Smpl Date:	04/23/2024	07/26/2021	09/26/2018
Test Date:	05/01/2024	08/03/2021	09/26/2018
Run No:	HS20240040	HS2021149	HS180214
Nitrogen:	0.5529	0.5432	0.5509
CO2:	1.5802	1.5649	1.5096
Methane:	79.8127	79.1310	79.2311
Ethane:	10.3561	10.6199	10.3139
Propane:	4.5253	4.6814	4.5706
I-Butane:	0.6817	0.6923	0.7127
N-Butane:	1.2580	1.2788	1.3285
I-Pentane:	0.3832	0.3929	0.4414
N-Pentane:	0.3410	0.3607	0.4146
Hexane+:	0.5089	0.7349	0.9267
BTU:	1229.4	1245.4	1254.9
GPM:	19.0520	19.1680	19.2120
SPG:	0.7239	0.7339	0.7392

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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 355524

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 355524
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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