



Well Name: SCHWERDTFEGER A 3M;
 API #: 3004524583
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240082
 Cust No: 35825-15755

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SCHWERDTFEGER A 3M; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF-079319
 Formation: DK/MV
 Cust. Stn. No.: 3004524583

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 122 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/08/2024
 Sample Time: 8.10 AM
 Sampled By: DENNIS JACQUEZ
 Sampled by (CO): HILCORP

Heat Trace: AREA 8 / RUN 0803

Remarks: N

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5116	0.5221	0.0560	0.00	0.0049
CO2	0.3190	0.3256	0.0550	0.00	0.0048
Methane	80.3105	81.9608	13.6620	811.14	0.4448
Ethane	9.4861	9.6810	2.5460	167.88	0.0985
Propane	5.3033	5.4123	1.4660	133.44	0.0807
Iso-Butane	1.1113	1.1341	0.3650	36.14	0.0223
N-Butane	1.4896	1.5202	0.4710	48.60	0.0299
I-Pentane	0.5292	0.5401	0.1940	21.17	0.0132
N-Pentane	0.3951	0.4032	0.1440	15.84	0.0098
Hexane Plus	0.5443	0.5555	0.2440	28.69	0.0180
Total	100.0000	102.0549	19.2030	1262.88	0.7271

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1265.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.3
 DRY BTU @ 15.025: 1295.8
 REAL SPECIFIC GRAVITY: 0.7294

CYLINDER #: 6086
 CYLINDER PRESSURE: 119 PSIG
 ANALYSIS DATE: 05/14/2024
 ANALYSIS TIME: 10:56:14 AM
 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:	SCHWERDTFEGER A 3M; BHD	BRADENHEAD	05/29/2024
Stn. No.:	3004524583	DK/MV	35825-15755
Mtr. No.:			

Smpl Date:	05/08/2024
Test Date:	05/14/2024
Run No:	HS20240082
Nitrogen:	0.5116
CO2:	0.3190
Methane:	80.3105
Ethane:	9.4861
Propane:	5.3033
I-Butane:	1.1113
N-Butane:	1.4896
I-Pentane:	0.5292
N-Pentane:	0.3951
Hexane+:	0.5443
BTU:	1270.4
GPM:	19.2030
SPG:	0.7294



Well Name: SCHWEDTFEGER A 3M;
 API #: 3004524583
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240081
 Cust No: 35825-15830

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SCHWEDTFEGER A 3M; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	126 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	NMSF - 079319	Ambient Temp:	DEG. F
Formation:	DK / MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3004524583	Sample Method:	Purge & Fill
		Sample Date:	05/08/2024
		Sample Time:	8.40 AM
		Sampled By:	DENNIS JAQUEZ
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5358	0.5375	0.0590	0.00	0.0052
CO2	0.3191	0.3201	0.0550	0.00	0.0048
Methane	80.3810	80.6382	13.6730	811.85	0.4452
Ethane	9.4246	9.4547	2.5290	166.79	0.0978
Propane	5.4223	5.4396	1.4990	136.43	0.0826
Iso-Butane	1.0605	1.0639	0.3480	34.49	0.0213
N-Butane	1.3663	1.3707	0.4320	44.57	0.0274
I-Pentane	0.5141	0.5157	0.1890	20.57	0.0128
N-Pentane	0.4032	0.4045	0.1470	16.16	0.0100
Hexane Plus	0.5731	0.5749	0.2560	30.21	0.0190
Total	100.0000	100.3198	19.1870	1261.07	0.7262

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036	CYLINDER #:	2150
BTU/CU.FT IDEAL:	1264.0	CYLINDER PRESSURE:	86 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1268.5	ANALYSIS DATE:	05/14/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1246.4	ANALYSIS TIME:	11:35:00 AM
DRY BTU @ 15.025:	1293.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7285		

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:	SCHWEDTFEGER A 3M; CSG	CASING	05/29/2024
Stn. No.:	3004524583	DK / MV	35825-15830
Mtr. No.:			

Smpl Date: 05/08/2024
Test Date: 05/14/2024
Run No: HS20240081

Nitrogen:	0.5358
CO2:	0.3191
Methane:	80.3810
Ethane:	9.4246
Propane:	5.4223
I-Butane:	1.0605
N-Butane:	1.3663
I-Pentane:	0.5141
N-Pentane:	0.4032
Hexane+:	0.5731
BTU:	1268.5
GPM:	19.1870
SPG:	0.7285



Well Name: SCHWERTFEGER A 3M;
 API #: 3004524583
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240083
 Cust No: 35825-15760

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SCHWERTFEGER A 3M; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMSF-079319
 Formation: DK/MV
 Cust. Stn. No.: 3004524583

Source: TUBING
 Well Flowing: Y
 Pressure: 113 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/08/2024
 Sample Time: 8.25 AM
 Sampled By: DENNIS JACQUEZ
 Sampled by (CO): HILCORP

AREA 8 / RUN 0803

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3973	0.4062	0.0440	0.00	0.0038
CO2	0.6237	0.6376	0.1070	0.00	0.0095
Methane	76.4280	78.1318	13.0050	771.92	0.4233
Ethane	11.4693	11.7250	3.0790	202.97	0.1191
Propane	6.5172	6.6625	1.8020	163.98	0.0992
Iso-Butane	1.3563	1.3865	0.4450	44.11	0.0272
N-Butane	1.7032	1.7412	0.5390	55.56	0.0342
I-Pentane	0.5152	0.5267	0.1890	20.61	0.0128
N-Pentane	0.3658	0.3740	0.1330	14.66	0.0091
Hexane Plus	0.6240	0.6379	0.2790	32.89	0.0207
Total	100.0000	102.2294	19.6220	1306.71	0.7589

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1309.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1315.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1292.1
 DRY BTU @ 15.025: 1341.3
 REAL SPECIFIC GRAVITY: 0.7617

CYLINDER #: 6095
 CYLINDER PRESSURE: 113 PSIG
 ANALYSIS DATE: 05/14/2024
 ANALYSIS TIME: 11:07:37 AM
 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:	SCHWERDTFEGER A 3M; TBG	TUBING	05/29/2024
Stn. No.:	3004524583	DK/MV	35825-15760
Mtr. No.:			

Smpl Date: 05/08/2024
Test Date: 05/14/2024
Run No: HS20240083

Nitrogen: 0.3973
CO2: 0.6237
Methane: 76.4280
Ethane: 11.4693
Propane: 6.5172
I-Butane: 1.3563
N-Butane: 1.7032
I-Pentane: 0.5152
N-Pentane: 0.3658
Hexane+: 0.6240

BTU: 1315.0
GPM: 19.6220
SPG: 0.7617

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District III
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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 349151

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 349151
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas production and bradenhead	8/1/2024