



Well Name: NEUDECKER 7; BHD
 API #: 3004508255
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230098
 Cust No: 35825-15040

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	NEUDECKER 7; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	66 PSIG
Location:		Flow Temp:	84 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK/MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004508255	Sample Method:	Purge & Fill
	ELB73752	Sample Date:	06/29/2023
	AREA 8 / AREA 802	Sample Time:	10.40 AM
Heat Trace:	N	Sampled By:	
Remarks:		Sampled by (CO):	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8296	0.8227	0.0910	0.00	0.0080
CO2	0.0579	0.0574	0.0100	0.00	0.0009
Methane	89.4104	88.6622	15.1950	903.05	0.4952
Ethane	5.6803	5.6328	1.5230	100.52	0.0590
Propane	2.3704	2.3506	0.6550	59.64	0.0361
Iso-Butane	0.4785	0.4745	0.1570	15.56	0.0096
N-Butane	0.5743	0.5695	0.1810	18.74	0.0115
I-Pentane	0.2088	0.2071	0.0770	8.35	0.0052
N-Pentane	0.1190	0.1180	0.0430	4.77	0.0030
Hexane Plus	0.2708	0.2685	0.1210	14.27	0.0090
Total	100.0000	99.1633	18.0530	1124.90	0.6375

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027	CYLINDER #:	4153
BTU/CU.FT IDEAL:	1127.5	CYLINDER PRESSURE:	29 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1130.6	ANALYSIS DATE:	07/06/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1110.9	ANALYSIS TIME:	03:37:10 PM
DRY BTU @ 15.025:	1153.2	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6389		

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: 07/11/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	NEUDECKER 7; BHD	BRADENHEAD	07/11/2023
Stn. No.:	3004508255	DK/MV	35825-15040
Mtr. No.:	ELB73752		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230098

Nitrogen: 0.8296
CO2: 0.0579
Methane: 89.4104
Ethane: 5.6803
Propane: 2.3704
I-Butane: 0.4785
N-Butane: 0.5743
I-Pentane: 0.2088
N-Pentane: 0.1190
Hexane+: 0.2708

BTU: 1130.6
GPM: 18.0530
SPG: 0.6389



Well Name: NEUDECKER 7; CSG

API #: 3004508255

Source: CASING

Sample Type: GAS

Analysis No: HS20230099

Cust No: 35825-15045

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: NEUDECKER 7; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: DK/MV

Cust. Stn. No.: 3004508255

ELB73752

AREA 8 / RUN 802

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: Y

Pressure: 66 PSIG

Flow Temp: 84 DEG. F

Ambient Temp: DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 06/29/2023

Sample Time: 10.44 AM

Sampled By:

Sampled by (CO):

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4445	0.4363	0.0490	0.00	0.0043
CO2	0.0194	0.0190	0.0030	0.00	0.0003
Methane	76.9935	75.5765	13.1060	777.63	0.4265
Ethane	8.9125	8.7485	2.3930	157.72	0.0925
Propane	7.5653	7.4261	2.0930	190.35	0.1152
Iso-Butane	1.8744	1.8399	0.6160	60.95	0.0376
N-Butane	2.0296	1.9922	0.6420	66.21	0.0407
I-Pentane	0.7391	0.7255	0.2710	29.57	0.0184
N-Pentane	0.5501	0.5400	0.2000	22.05	0.0137
Hexane Plus	0.8716	0.8556	0.3900	45.94	0.0288
Total	100.0000	98.1596	19.7630	1350.44	0.7781

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0043
 BTU/CU.FT IDEAL: 1353.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1359.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1335.7
 DRY BTU @ 15.025: 1386.6
 REAL SPECIFIC GRAVITY: 0.7811

CYLINDER #: 7021
 CYLINDER PRESSURE: 64 PSIG
 ANALYSIS DATE: 07/06/2023
 ANALYSIS TIME: 03:45:49 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: 07/11/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	NEUDECKER 7; CSG	CASING	07/11/2023
Stn. No.:	3004508255	DK/MV	35825-15045
Mtr. No.:	ELB73752		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230099

Nitrogen: 0.4445
CO2: 0.0194
Methane: 76.9935
Ethane: 8.9125
Propane: 7.5653
I-Butane: 1.8744
N-Butane: 2.0296
I-Pentane: 0.7391
N-Pentane: 0.5501
Hexane+: 0.8716

BTU: 1359.4
GPM: 19.7630
SPG: 0.7811



Well Name: NEUDECKER 7; TBG
 API #: 3004508255
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20230100
 Cust No: 35825-15050

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	NEUDECKER 7; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	66 PSIG
Location:		Flow Temp:	84 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK/MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004508255	Sample Method:	Purge & Fill
	ELB73752	Sample Date:	06/29/2023
	AREA 8 / RUN 802	Sample Time:	10.47 AM
Heat Trace:	N	Sampled By:	
Remarks:		Sampled by (CO):	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3073	0.3089	0.0340	0.00	0.0030
CO2	1.0304	1.0357	0.1770	0.00	0.0157
Methane	76.6531	77.0454	13.0450	774.20	0.4246
Ethane	10.9496	11.0057	2.9400	193.78	0.1137
Propane	6.0282	6.0591	1.6670	151.68	0.0918
Iso-Butane	1.1237	1.1295	0.3690	36.54	0.0226
N-Butane	1.7987	1.8079	0.5690	58.68	0.0361
I-Pentane	0.6229	0.6261	0.2290	24.92	0.0155
N-Pentane	0.4846	0.4871	0.1760	19.43	0.0121
Hexane Plus	1.0015	1.0066	0.4480	52.79	0.0331
Total	100.0000	100.5120	19.6540	1312.01	0.7680

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0041	CYLINDER #:	6028
BTU/CU.FT IDEAL:	1315.0	CYLINDER PRESSURE:	66 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1320.5	ANALYSIS DATE:	07/06/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1297.5	ANALYSIS TIME:	03:27:38 PM
DRY BTU @ 15.025:	1346.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7709		

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: 07/11/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	NEUDECKER 7; TBG	TUBING	07/11/2023
Stn. No.:	3004508255	DK/MV	35825-15050
Mtr. No.:	ELB73752		

Smpl Date: 06/29/2023
Test Date: 07/06/2023
Run No: HS20230100

Nitrogen: 0.3073
CO2: 1.0304
Methane: 76.6531
Ethane: 10.9496
Propane: 6.0282
I-Butane: 1.1237
N-Butane: 1.7987
I-Pentane: 0.6229
N-Pentane: 0.4846
Hexane+: 1.0015

BTU: 1320.5
GPM: 19.6540
SPG: 0.7709

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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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 238887

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 238887
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	not similar	9/22/2023