



Well Name: NANCE 1; BHD
 API #: 3004510310
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240044
 Cust No: 35825-14000

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	NANCE 1; BHD	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	80 PSIG
Location:		Flow Temp:	70 DEG. F
Lease/PA/CA:	NMSF078463A	Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004510310	Sample Method:	Purge & Fill
	20015	Sample Date:	04/25/2024
		Sample Time:	11.45 AM
	AREA 2 / RUN 0205	Sampled By:	ROGER TOM
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.3139	2.2649	0.2550	0.00	0.0224
CO2	0.0021	0.0021	0.0000	0.00	0.0000
Methane	96.1164	94.0800	16.3250	970.78	0.5324
Ethane	0.9362	0.9164	0.2510	16.57	0.0097
Propane	0.2642	0.2586	0.0730	6.65	0.0040
Iso-Butane	0.1171	0.1146	0.0380	3.81	0.0023
N-Butane	0.0597	0.0584	0.0190	1.95	0.0012
I-Pentane	0.0366	0.0358	0.0130	1.46	0.0009
N-Pentane	0.0142	0.0139	0.0050	0.57	0.0004
Hexane Plus	0.1396	0.1366	0.0620	7.36	0.0046
Total	100.0000	97.8813	17.0410	1009.14	0.5780

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	25
BTU/CU.FT IDEAL:	1011.5	CYLINDER PRESSURE:	30 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1013.6	ANALYSIS DATE:	05/06/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	996.0	ANALYSIS TIME:	02:15:50 AM
DRY BTU @ 15.025:	1033.9	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.579		

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:	NANCE 1; BHD	BRADENHEAD	05/09/2024
Stn. No.:	3004510310	DK	35825-14000
Mtr. No.:	20015		

Smpl Date:	04/25/2024	08/24/2021
Test Date:	05/06/2024	09/09/2021
Run No:	HS20240044	HS2021227
Nitrogen:	2.3139	2.0896
CO2:	0.0021	0.0262
Methane:	96.1164	96.1402
Ethane:	0.9362	1.0739
Propane:	0.2642	0.4094
I-Butane:	0.1171	0.1510
N-Butane:	0.0597	0.0624
I-Pentane:	0.0366	0.0288
N-Pentane:	0.0142	0.0066
Hexane+:	0.1396	0.0119
BTU:	1013.6	1013.7
GPM:	17.0410	17.0490
SPG:	0.5790	0.5770



Well Name: NANCE 1; CSG
 API #: 3004510310
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240045
 Cust No: 35825-14005

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	NANCE 1; CSG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	80 PSIG
Location:		Flow Temp:	70 DEG. F
Lease/PA/CA:	NMSF078463A	Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004510310	Sample Method:	Purge & Fill
	20015	Sample Date:	04/25/2024
	AREA 2 / RUN 0205	Sample Time:	11.50 AM
Heat Trace:	N	Sampled By:	ROGER TOM
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4006	0.3927	0.0440	0.00	0.0039
CO2	1.8017	1.7661	0.3090	0.00	0.0274
Methane	78.2744	76.7271	13.3170	790.57	0.4336
Ethane	10.4707	10.2637	2.8100	185.30	0.1087
Propane	5.0848	4.9843	1.4060	127.94	0.0774
Iso-Butane	0.8162	0.8001	0.2680	26.54	0.0164
N-Butane	1.2705	1.2454	0.4020	41.45	0.0255
I-Pentane	0.4787	0.4692	0.1760	19.15	0.0119
N-Pentane	0.4088	0.4007	0.1490	16.39	0.0102
Hexane Plus	0.9936	0.9740	0.4450	52.37	0.0329
Total	100.0000	98.0233	19.3260	1259.71	0.7478

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0038
BTU/CU.FT IDEAL:	1262.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1267.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1245.3
DRY BTU @ 15.025:	1292.8
REAL SPECIFIC GRAVITY:	0.7504

CYLINDER #:	05
CYLINDER PRESSURE:	111 PSIG
ANALYSIS DATE:	05/06/2024
ANALYSIS TIME:	02:33:45 PM
ANALYSIS RUN BY:	SARAH BALLARD

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:	NANCE 1; CSG	CASING	05/09/2024
Stn. No.:	3004510310	DK	35825-14005
Mtr. No.:	20015		

Smpl Date:	04/25/2024	08/24/2021
Test Date:	05/06/2024	09/08/2021
Run No:	HS20240045	HS2021228
Nitrogen:	0.4006	0.4299
CO2:	1.8017	1.5079
Methane:	78.2744	79.2610
Ethane:	10.4707	10.2123
Propane:	5.0848	4.4546
I-Butane:	0.8162	0.7460
N-Butane:	1.2705	1.3141
I-Pentane:	0.4787	0.5456
N-Pentane:	0.4088	0.4954
Hexane+:	0.9936	1.0332
BTU:	1267.4	1264.3
GPM:	19.3260	19.2660
SPG:	0.7504	0.7439



Well Name: NANCE 1; TBG
 API #: 3004510310
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240046
 Cust No: 35825-14010

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	NANCE 1; TBG	Well Flowing:	N
County/State:	SAN JUAN NM	Pressure:	80 PSIG
Location:		Flow Temp:	70 DEG. F
Lease/PA/CA:	NMSF078463A	Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3004510310	Sample Method:	Purge & Fill
	20015	Sample Date:	04/25/2024
	AREA 2 / RUN 0205	Sample Time:	11.45 AM
Heat Trace:	N	Sampled By:	ROGER TOM
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4000	0.4001	0.0440	0.00	0.0039
CO2	1.7782	1.7788	0.3050	0.00	0.0270
Methane	79.0138	79.0397	13.4410	798.04	0.4377
Ethane	10.2290	10.2324	2.7450	181.02	0.1062
Propane	4.8867	4.8883	1.3510	122.95	0.0744
Iso-Butane	0.7874	0.7877	0.2590	25.61	0.0158
N-Butane	1.2173	1.2177	0.3850	39.71	0.0244
I-Pentane	0.4551	0.4552	0.1670	18.21	0.0113
N-Pentane	0.3920	0.3921	0.1430	15.71	0.0098
Hexane Plus	0.8405	0.8408	0.3760	44.30	0.0278
Total	100.0000	100.0328	19.2160	1245.56	0.7383

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0037	CYLINDER #:	1906
BTU/CU.FT IDEAL:	1248.4	CYLINDER PRESSURE:	109 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1253.1	ANALYSIS DATE:	05/06/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1231.3	ANALYSIS TIME:	02:23:31 PM
DRY BTU @ 15.025:	1278.2	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7407		

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:	NANCE 1; TBG	TUBING	05/09/2024
Stn. No.:	3004510310	DK	35825-14010
Mtr. No.:	20015		

Smpl Date:	04/25/2024	08/24/2021
Test Date:	05/06/2024	09/08/2021
Run No:	HS20240046	HS2021229
Nitrogen:	0.4000	0.3937
CO2:	1.7782	1.7577
Methane:	79.0138	79.1940
Ethane:	10.2290	10.5136
Propane:	4.8867	4.3191
I-Butane:	0.7874	0.6776
N-Butane:	1.2173	1.1815
I-Pentane:	0.4551	0.4735
N-Pentane:	0.3920	0.3859
Hexane+:	0.8405	1.1034
BTU:	1253.1	1255.3
GPM:	19.2160	19.2360
SPG:	0.7407	0.7418

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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 344524

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 344524
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	5/16/2024