



Well Name: THOMPSON #6; BHD
 API #: 3004510266
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230154
 Cust No: 35825-15245

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	THOMPSON #6; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004510266	Sample Method:	
		Sample Date:	07/17/2023
		Sample Time:	4.27 PM
		Sampled By:	JAKE S.
		Sampled by (CO):	HILCORP

Heat Trace: AREA 3 / RUN 308

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8319	0.6010	0.0920	0.00	0.0080
CO2	0.0476	0.0344	0.0080	0.00	0.0007
Methane	88.5295	63.9606	15.0470	894.15	0.4904
Ethane	5.6130	4.0553	1.5050	99.33	0.0583
Propane	2.8519	2.0604	0.7880	71.76	0.0434
Iso-Butane	0.6606	0.4773	0.2170	21.48	0.0133
N-Butane	0.6883	0.4973	0.2180	22.45	0.0138
I-Pentane	0.2864	0.2069	0.1050	11.46	0.0071
N-Pentane	0.1600	0.1156	0.0580	6.41	0.0040
Hexane Plus	0.3308	0.2390	0.1480	17.44	0.0109
Total	100.0000	72.2478	18.1860	1144.48	0.6500

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
 BTU/CU.FT IDEAL: 1147.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1150.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1130.4
 DRY BTU @ 15.025: 1173.4
 REAL SPECIFIC GRAVITY: 0.6515

CYLINDER #: 6027
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 07/21/2023
 ANALYSIS TIME: 10:35:49 AM
 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: 07/28/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: THOMPSON #6; BHD
Stn. No.: 3004510266
Mtr. No.:

BRADENHEAD

07/28/2023
35825-15245

Smpl Date: 07/17/2023
Test Date: 07/21/2023
Run No: HS20230154

Nitrogen: 0.8319
CO2: 0.0476
Methane: 88.5295
Ethane: 5.6130
Propane: 2.8519
I-Butane: 0.6606
N-Butane: 0.6883
I-Pentane: 0.2864
N-Pentane: 0.1600
Hexane+: 0.3308

BTU: 1150.4
GPM: 18.1860
SPG: 0.6515



Well Name: THOMPSON #6; CSG

API #: 3004510266

Source: CASING

Sample Type: GAS

Analysis No: HS20230155

Cust No: 35825-15250

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: THOMPSON #6; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004510266

Source: CASING
 Well Flowing: Y
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 07/17/2023
 Sample Time: 4.33 PM
 Sampled By: JAKE S.
 Sampled by (CO): HILCORP

AREA 3 / RUN 308

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3566	0.3655	0.0390	0.00	0.0034
CO2	1.3734	1.4077	0.2350	0.00	0.0209
Methane	79.3335	81.3125	13.4960	801.27	0.4394
Ethane	10.7939	11.0632	2.8970	191.02	0.1121
Propane	4.3442	4.4526	1.2010	109.30	0.0661
Iso-Butane	0.7946	0.8144	0.2610	25.84	0.0159
N-Butane	1.2280	1.2586	0.3880	40.06	0.0246
I-Pentane	0.4406	0.4516	0.1620	17.63	0.0110
N-Pentane	0.3390	0.3475	0.1230	13.59	0.0084
Hexane Plus	0.9962	1.0211	0.4460	52.51	0.0330
Total	100.0000	102.4947	19.2480	1251.22	0.7349

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1254.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1258.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1236.9
 DRY BTU @ 15.025: 1284.0
 REAL SPECIFIC GRAVITY: 0.7374

CYLINDER #: 6167
 CYLINDER PRESSURE: 21 PSIG
 ANALYSIS DATE: 07/21/2023
 ANALYSIS TIME: 10:43:11 AM
 ANALYSIS RUN BY: ACEDA GOODNOH

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: 07/28/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: THOMPSON #6; CSG
Stn. No.: 3004510266
Mtr. No.:

CASING

07/28/2023
35825-15250

Smpl Date: 07/17/2023
Test Date: 07/21/2023
Run No: HS20230155

Nitrogen: 0.3566
CO2: 1.3734
Methane: 79.3335
Ethane: 10.7939
Propane: 4.3442
I-Butane: 0.7946
N-Butane: 1.2280
I-Pentane: 0.4406
N-Pentane: 0.3390
Hexane+: 0.9962

BTU: 1258.8
GPM: 19.2480
SPG: 0.7374

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 245932

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 245932
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	does not appear to be the same gas	9/18/2023