



Well Name: HAVASU COM #1; BHD

API #: API# 3004529458

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20220060

Cust No: 35825-13460

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: HAVASU COM #1; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: FC

Cust. Stn. No.: API# 3004529458
14033

AREA 2 / RUN 0211

Heat Trace:

Remarks:

Source: BRADENHEAD

Well Flowing: N

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: 64 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/29/2022

Sample Time: 11.50 AM

Sampled By: JEFF HOWE

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1745	0.1725	0.0190	0.00	0.0017
CO2	0.3111	0.3075	0.0530	0.00	0.0047
Methane	99.4866	98.3293	16.8950	1004.81	0.5511
Ethane	0.0278	0.0275	0.0070	0.49	0.0003
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	98.8368	16.9740	1005.31	0.5578

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1007.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1009.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 992.1
 DRY BTU @ 15.025: 1029.9
 REAL SPECIFIC GRAVITY: 0.5578

CYLINDER #: 6241
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 05/05/2022
 ANALYSIS TIME: 01:56:05 PM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	HAVASU COM #1; BHD	BRADENHEAD	05/06/2022
Stn. No.:	API# 3004529458	FC	35825-13460
Mtr. No.:	14033		

Smpl Date:	04/29/2022	04/21/2021
Test Date:	05/05/2022	04/26/2021
Run No:	HS20220060	HS2021015
Nitrogen:	0.1745	0.2336
CO2:	0.3111	0.3861
Methane:	99.4866	99.3419
Ethane:	0.0278	0.0283
Propane:	0.0000	0.0000
I-Butane:	0.0000	0.0000
N-Butane:	0.0000	0.0000
I-Pentane:	0.0000	0.0000
N-Pentane:	0.0000	0.0000
Hexane+:	0.0000	0.0101
BTU:	1009.7	1008.7
GPM:	16.9740	16.9760
SPG:	0.5587	0.5599



Well Name: HAVASU COM #1; CSG

API #: API# 3004529458

Source: CASING

Sample Type: GAS

Analysis No: HS20220061

Cust No: 35825-13465

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: HAVASU COM #1; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation: FC

Cust. Stn. No.: API# 3004529458
14033

AREA 2/ RUN 0211

Heat Trace:

Remarks:

Source: CASING

Well Flowing: N

Pressure: 144 PSIG

Flow Temp: DEG. F

Ambient Temp: 64 DEG. F

Flow Rate: 0 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/29/2022

Sample Time: 11.55 AM

Sampled By: JEFF HOWE

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1657	0.1639	0.0180	0.00	0.0016
CO2	0.3561	0.3522	0.0610	0.00	0.0054
Methane	99.4501	98.3537	16.8890	1004.45	0.5509
Ethane	0.0281	0.0278	0.0080	0.50	0.0003
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	98.8976	16.9760	1004.94	0.5582

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1007.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1009.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 991.7
 DRY BTU @ 15.025: 1029.5
 REAL SPECIFIC GRAVITY: 0.5591

CYLINDER #: 4217
 CYLINDER PRESSURE: 144 PSIG
 ANALYSIS DATE: 05/05/2022
 ANALYSIS TIME: 02:05:36 PM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	HAVASU COM #1; CSG	CASING	05/06/2022
Stn. No.:	API# 3004529458	FC	35825-13465
Mtr. No.:	14033		

Smpl Date:	04/29/2022	04/21/2021
Test Date:	05/05/2022	04/26/2021
Run No:	HS20220061	HS2021016
Nitrogen:	0.1657	0.1578
CO2:	0.3561	0.3565
Methane:	99.4501	99.4564
Ethane:	0.0281	0.0281
Propane:	0.0000	0.0000
I-Butane:	0.0000	0.0000
N-Butane:	0.0000	0.0000
I-Pentane:	0.0000	0.0000
N-Pentane:	0.0000	0.0000
Hexane+:	0.0000	0.0012
BTU:	1009.3	1009.4
GPM:	16.9760	16.9770
SPG:	0.5591	0.5591



Well Name: HAVASU COM #1; TBG
 API #: API# 3004529458
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20220062
 Cust No: 35825-13470

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: HAVASU COM #1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: FC
 Cust. Stn. No.: API# 3004529458
 14033

Source: TUBING
 Well Flowing: N
 Pressure: 144 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 64 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/29/2022
 Sample Time: 11.35 AM
 Sampled By: JEFF HOWE
 Sampled by (CO): HILCORP

AREA 2 / RUN 0211

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1602	0.1584	0.0180	0.00	0.0015
CO2	0.3493	0.3453	0.0600	0.00	0.0053
Methane	99.4623	98.3333	16.8910	1004.57	0.5509
Ethane	0.0282	0.0279	0.0080	0.50	0.0003
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	98.8649	16.9770	1005.07	0.5581

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1007.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1009.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 991.8
 DRY BTU @ 15.025: 1029.6
 REAL SPECIFIC GRAVITY: 0.559

CYLINDER #: 105
 CYLINDER PRESSURE: 148 PSIG
 ANALYSIS DATE: 05/05/2022
 ANALYSIS TIME: 02:15:35 PM
 ANALYSIS RUN BY: RICHARD WILSON

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: 05/06/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: HAVASU COM #1; TBG
Stn. No.: API# 3004529458
Mtr. No.: 14033

TUBING
FC

05/06/2022
35825-13470

Smpl Date:	04/29/2022	04/21/2021
Test Date:	05/05/2022	04/26/2021
Run No:	HS20220062	HS2021017
Nitrogen:	0.1602	0.1560
CO2:	0.3493	0.3624
Methane:	99.4623	99.4506
Ethane:	0.0282	0.0292
Propane:	0.0000	0.0000
I-Butane:	0.0000	0.0000
N-Butane:	0.0000	0.0000
I-Pentane:	0.0000	0.0000
N-Pentane:	0.0000	0.0000
Hexane+:	0.0000	0.0018
BTU:	1009.4	1009.4
GPM:	16.9770	16.9770
SPG:	0.5590	0.5591

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

COMMENTS

Action 105385

COMMENTS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 105385
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

COMMENTS

Created By	Comment	Comment Date
mkuehling	FOR RECORD ONLY	6/17/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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CONDITIONS

Action 105385

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 105385
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	6/17/2022