



Well Name: STEDJE GAS COM #1; BHD

API #: 3004509214

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20240069

Cust No: 35825-10705

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: STEDJE GAS COM #1; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3004509214
 73201

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 156 PSIG
 Flow Temp: 61 DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/02/2024
 Sample Time: 1.44 PM
 Sampled By: JACOB SANDOVAL
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 2 / RUN 0210

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7536	0.7355	0.0830	0.00	0.0073
CO2	0.0048	0.0047	0.0010	0.00	0.0001
Methane	88.2627	86.1418	15.0030	891.45	0.4889
Ethane	6.2866	6.1355	1.6860	111.25	0.0653
Propane	2.5719	2.5101	0.7100	64.71	0.0392
Iso-Butane	0.4798	0.4683	0.1570	15.60	0.0096
N-Butane	0.6790	0.6627	0.2150	22.15	0.0136
I-Pentane	0.2426	0.2368	0.0890	9.71	0.0060
N-Pentane	0.1773	0.1730	0.0640	7.11	0.0044
Hexane Plus	0.5417	0.5287	0.2420	28.55	0.0179
Total	100.0000	97.5971	18.2500	1150.54	0.6523

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1153.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1156.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1136.5
 DRY BTU @ 15.025: 1179.8
 REAL SPECIFIC GRAVITY: 0.654

CYLINDER #: 6133
 CYLINDER PRESSURE: 140 PSIG
 ANALYSIS DATE: 05/13/2024
 ANALYSIS TIME: 08:52:31 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: 05/17/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: STEDJE GAS COM #1; BHD
Stn. No.: 3004509214
Mtr. No.: 73201

BRADENHEAD
DK

05/17/2024
35825-10705

Smpl Date:	05/02/2024	08/29/2018
Test Date:	05/13/2024	09/05/2018
Run No:	HS20240069	HS180177
Nitrogen:	0.7536	0.3876
CO2:	0.0048	0.0460
Methane:	88.2627	88.2147
Ethane:	6.2866	6.4821
Propane:	2.5719	2.9344
I-Butane:	0.4798	0.5699
N-Butane:	0.6790	0.6975
I-Pentane:	0.2426	0.2356
N-Pentane:	0.1773	0.1625
Hexane+:	0.5417	0.2697
BTU:	1156.6	1156.9
GPM:	18.2500	18.2650
SPG:	0.6540	0.6509



Well Name: STEDJE GAS COM #1; CSG

API #: 3004509214

Source: CASING

Sample Type: GAS

Analysis No: HS20240070

Cust No: 35825-10710

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: STEDJE GAS COM #1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3004509214
 73201

Source: CASING
 Well Flowing: Y
 Pressure: 180 PSIG
 Flow Temp: 67 DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/02/2024
 Sample Time: 1.38 PM
 Sampled By: JACOB SANDOVAL
 Sampled by (CO):

Heat Trace: N
 AREA 2 / RUN 0210

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.7585	2.7177	0.3040	0.00	0.0267
CO2	0.2180	0.2148	0.0370	0.00	0.0033
Methane	79.8430	78.6613	13.5780	806.41	0.4423
Ethane	9.3736	9.2349	2.5150	165.88	0.0973
Propane	4.4705	4.4043	1.2350	112.48	0.0681
Iso-Butane	0.9395	0.9256	0.3080	30.55	0.0189
N-Butane	1.0623	1.0466	0.3360	34.66	0.0213
I-Pentane	0.4087	0.4027	0.1500	16.35	0.0102
N-Pentane	0.2936	0.2893	0.1070	11.77	0.0073
Hexane Plus	0.6323	0.6229	0.2830	33.33	0.0209
Total	100.0000	98.5201	18.8530	1211.44	0.7162

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1214.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1218.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1197.2
 DRY BTU @ 15.025: 1242.8
 REAL SPECIFIC GRAVITY: 0.7184

CYLINDER #: 4187
 CYLINDER PRESSURE: 178 PSIG
 ANALYSIS DATE: 05/13/2024
 ANALYSIS TIME: 09:14:24 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: 05/17/2024

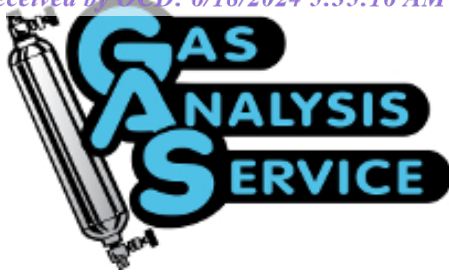
GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	STEDJE GAS COM #1; CSG	CASING	05/17/2024
Stn. No.:	3004509214	DK	35825-10710
Mtr. No.:	73201		

Smpl Date:	05/02/2024	08/29/2018
Test Date:	05/13/2024	09/05/2018
Run No:	HS20240070	HS180178
Nitrogen:	2.7585	0.6645
CO2:	0.2180	0.9426
Methane:	79.8430	78.4864
Ethane:	9.3736	10.4612
Propane:	4.4705	5.2069
I-Butane:	0.9395	0.8180
N-Butane:	1.0623	1.5688
I-Pentane:	0.4087	0.5101
N-Pentane:	0.2936	0.4718
Hexane+:	0.6323	0.8697
BTU:	1218.4	1279.6
GPM:	18.8530	19.3480
SPG:	0.7184	0.7471



Well Name: STEDJE GAS COM #1; TBG

API #: 3004509214

Source: TUBING

Sample Type: GAS

Analysis No: HS20240071

Cust No: 35825-10715

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: STEDJE GAS COM #1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3004509214
 73201

Source: TUBING
 Well Flowing: Y
 Pressure: 158 PSIG
 Flow Temp: 97 DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: 383 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/02/2024
 Sample Time: 1.13 PM
 Sampled By: JACOB SANDOVAL
 Sampled by (CO):

AREA 2 / RUN 0210

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	6.8699	6.7387	0.7580	0.00	0.0664
CO2	1.1864	1.1637	0.2030	0.00	0.0180
Methane	74.1773	72.7604	12.6160	749.19	0.4109
Ethane	9.1346	8.9601	2.4510	161.66	0.0948
Propane	4.5552	4.4682	1.2590	114.61	0.0694
Iso-Butane	0.7737	0.7589	0.2540	25.16	0.0155
N-Butane	1.3780	1.3517	0.4360	44.95	0.0277
I-Pentane	0.4554	0.4467	0.1670	18.22	0.0113
N-Pentane	0.4025	0.3948	0.1460	16.14	0.0100
Hexane Plus	1.0670	1.0466	0.4770	56.24	0.0353
Total	100.0000	98.0898	18.7670	1186.17	0.7594

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1188.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1193.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1172.3
 DRY BTU @ 15.025: 1217.0
 REAL SPECIFIC GRAVITY: 0.7618

CYLINDER #: 7030
 CYLINDER PRESSURE: 162 PSIG
 ANALYSIS DATE: 05/13/2024
 ANALYSIS TIME: 09:04:39 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: 05/17/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	STEDJE GAS COM #1; TBG	TUBING	05/17/2024
Stn. No.:	3004509214	DK	35825-10715
Mtr. No.:	73201		

Smpl Date:	05/02/2024	08/29/2018
Test Date:	05/13/2024	09/05/2018
Run No:	HS20240071	HS180179
Nitrogen:	6.8699	0.6861
CO2:	1.1864	1.7066
Methane:	74.1773	79.9653
Ethane:	9.1346	9.2584
Propane:	4.5552	4.4801
I-Butane:	0.7737	0.7594
N-Butane:	1.3780	1.3474
I-Pentane:	0.4554	0.4412
N-Pentane:	0.4025	0.4028
Hexane+:	1.0670	0.9527
BTU:	1193.1	1244.2
GPM:	18.7670	19.1050
SPG:	0.7618	0.7370

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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 355292

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 355292
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	BH = 156 at sampling - similar gas	8/27/2024