



Well Name: SAN JUAN 28-6 UNIT 67;
 API #: 3003907097
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220156
 Cust No: 35825-14665

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SAN JUAN 28-6 UNIT 67; BHD	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	103 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3003907097	Sample Method:	Purge & Fill
	71-888-01	Sample Date:	08/24/2022
	AREA 13 / RUN 1301	Sample Time:	2.04 PM
Heat Trace:	N	Sampled By:	R.DANIK
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2688	0.2694	0.0300	0.00	0.0026
CO2	0.4057	0.4066	0.0690	0.00	0.0062
Methane	89.5298	89.7180	15.2170	904.25	0.4959
Ethane	5.5231	5.5347	1.4810	97.74	0.0573
Propane	2.5086	2.5139	0.6930	63.12	0.0382
Iso-Butane	0.4615	0.4625	0.1510	15.01	0.0093
N-Butane	0.5861	0.5873	0.1850	19.12	0.0118
I-Pentane	0.1980	0.1984	0.0730	7.92	0.0049
N-Pentane	0.1345	0.1348	0.0490	5.39	0.0034
Hexane Plus	0.3839	0.3847	0.1720	20.24	0.0127
Total	100.0000	100.2103	18.1200	1132.79	0.6422

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	6245
BTU/CU.FT IDEAL:	1135.4	CYLINDER PRESSURE:	95 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1138.6	ANALYSIS DATE:	08/29/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1118.8	ANALYSIS TIME:	03:13:08 PM
DRY BTU @ 15.025:	1161.4	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6438		

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: 09/01/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 28-6 UNIT 67; BHD	BRADENHEAD	09/01/2022
Stn. No.:	3003907097	MV	35825-14665
Mtr. No.:	71-888-01		

Smpl Date: 08/24/2022
Test Date: 08/29/2022
Run No: HS20220156

Nitrogen: 0.2688
CO2: 0.4057
Methane: 89.5298
Ethane: 5.5231
Propane: 2.5086
I-Butane: 0.4615
N-Butane: 0.5861
I-Pentane: 0.1980
N-Pentane: 0.1345
Hexane+: 0.3839

BTU: 1138.6
GPM: 18.1200
SPG: 0.6438



Well Name: SAN JUAN 28-6 UNIT 67;
 API #: 3003907097
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20220158
 Cust No: 35825-14675

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 28-6 UNIT 67; INTRM	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	106 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3003907097	Sample Method:	Purge & Fill
	71-888-01	Sample Date:	08/24/2022
	AREA 13 / RUN 1301	Sample Time:	1.58 PM
Heat Trace:	N	Sampled By:	R. DANIK
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2674	0.2681	0.0290	0.00	0.0026
CO2	0.3706	0.3716	0.0630	0.00	0.0056
Methane	89.7002	89.9478	15.2440	905.97	0.4968
Ethane	5.5024	5.5176	1.4750	97.38	0.0571
Propane	2.5065	2.5134	0.6920	63.07	0.0382
Iso-Butane	0.4585	0.4598	0.1500	14.91	0.0092
N-Butane	0.5757	0.5773	0.1820	18.78	0.0116
I-Pentane	0.1863	0.1868	0.0680	7.45	0.0046
N-Pentane	0.1229	0.1232	0.0450	4.93	0.0031
Hexane Plus	0.3095	0.3104	0.1380	16.31	0.0102
Total	100.0000	100.2760	18.0860	1128.80	0.6391

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027	CYLINDER #:	6139
BTU/CU.FT IDEAL:	1131.4	CYLINDER PRESSURE:	98 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1134.5	ANALYSIS DATE:	08/29/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1114.8	ANALYSIS TIME:	03:20:26 PM
DRY BTU @ 15.025:	1157.2	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6405		

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: 09/01/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 28-6 UNIT 67; INTRM	INTERMEDIATE CASING	09/01/2022
Stn. No.:	3003907097	MV	35825-14675
Mtr. No.:	71-888-01		

Smpl Date: 08/24/2022
Test Date: 08/29/2022
Run No: HS20220158

Nitrogen:	0.2674
CO2:	0.3706
Methane:	89.7002
Ethane:	5.5024
Propane:	2.5065
I-Butane:	0.4585
N-Butane:	0.5757
I-Pentane:	0.1863
N-Pentane:	0.1229
Hexane+:	0.3095
BTU:	1134.5
GPM:	18.0860
SPG:	0.6405



Well Name: SAN JUAN 28-6 UNIT 67;
 API #: 3003907097
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20220157
 Cust No: 35825-14670

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 28-6 UNIT 67; CSG	Well Flowing:	N
County/State:	RIO ARRIB NM	Pressure:	106 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3003907097	Sample Method:	Purge & Fill
	71-888-01	Sample Date:	08/24/2022
	AREA 13 / RUN 1301	Sample Time:	1.48 PM
Heat Trace:	N	Sampled By:	R. DANIK
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2624	0.2631	0.0290	0.00	0.0025
CO2	0.3699	0.3710	0.0630	0.00	0.0056
Methane	89.6833	89.9393	15.2410	905.80	0.4968
Ethane	5.5003	5.5160	1.4750	97.34	0.0571
Propane	2.5043	2.5114	0.6920	63.01	0.0381
Iso-Butane	0.4595	0.4608	0.1510	14.94	0.0092
N-Butane	0.5765	0.5781	0.1820	18.81	0.0116
I-Pentane	0.1891	0.1896	0.0690	7.57	0.0047
N-Pentane	0.1246	0.1250	0.0450	4.99	0.0031
Hexane Plus	0.3301	0.3310	0.1480	17.40	0.0109
Total	100.0000	100.2853	18.0950	1129.86	0.6397

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027	CYLINDER #:	6234
BTU/CU.FT IDEAL:	1132.5	CYLINDER PRESSURE:	100 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1135.5	ANALYSIS DATE:	08/29/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1115.7	ANALYSIS TIME:	03:37:44 PM
DRY BTU @ 15.025:	1158.2	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6412		

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: 09/01/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 28-6 UNIT 67; CSG	CASING	09/01/2022
Stn. No.:	3003907097	MV	35825-14670
Mtr. No.:	71-888-01		

Smpl Date: 08/24/2022
Test Date: 08/29/2022
Run No: HS20220157

Nitrogen: 0.2624
CO2: 0.3699
Methane: 89.6833
Ethane: 5.5003
Propane: 2.5043
I-Butane: 0.4595
N-Butane: 0.5765
I-Pentane: 0.1891
N-Pentane: 0.1246
Hexane+: 0.3301

BTU: 1135.5
GPM: 18.0950
SPG: 0.6412



Well Name: SAN JUAN 68-6 UNIT 67;
 API #: 3003907097
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20220159
 Cust No: 35825-14680

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 68-6 UNIT 67; TBG	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	104 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	3003907097	Sample Method:	Purge & Fill
	71-888-01	Sample Date:	08/24/2022
	AREA 13 / RUN 1301	Sample Time:	2.12 PM
Heat Trace:	N	Sampled By:	R. DANIK
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2648	0.2655	0.0290	0.00	0.0026
CO2	0.3452	0.3462	0.0590	0.00	0.0052
Methane	89.4525	89.7035	15.2040	903.47	0.4955
Ethane	5.5033	5.5187	1.4760	97.39	0.0571
Propane	2.5336	2.5407	0.7000	63.75	0.0386
Iso-Butane	0.4760	0.4773	0.1560	15.48	0.0096
N-Butane	0.6166	0.6183	0.1950	20.12	0.0124
I-Pentane	0.2083	0.2089	0.0760	8.33	0.0052
N-Pentane	0.1382	0.1386	0.0500	5.54	0.0034
Hexane Plus	0.4615	0.4628	0.2060	24.33	0.0153
Total	100.0000	100.2805	18.1510	1138.40	0.6448

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	6100
BTU/CU.FT IDEAL:	1141.0	CYLINDER PRESSURE:	98 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1144.2	ANALYSIS DATE:	08/29/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1124.3	ANALYSIS TIME:	03:28:40 PM
DRY BTU @ 15.025:	1167.1	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6464		

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: 09/01/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 68-6 UNIT 67; TBG	TUBING	09/01/2022
Stn. No.:	3003907097	MV	35825-14680
Mtr. No.:	71-888-01		

Smpl Date: 08/24/2022
Test Date: 08/29/2022
Run No: HS20220159

Nitrogen: 0.2648
CO2: 0.3452
Methane: 89.4525
Ethane: 5.5033
Propane: 2.5336
I-Butane: 0.4760
N-Butane: 0.6166
I-Pentane: 0.2083
N-Pentane: 0.1382
Hexane+: 0.4615

BTU: 1144.2
GPM: 18.1510
SPG: 0.6464

District I

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

District II

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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 140519

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 140519
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas all strings - test shows 2 on bradenhead however sampling shows 103 on bradenhead	9/14/2022