



Well Name: SAN JUAN 29-6 UNIT 6A;
 API #: 3003921251
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230164
 Cust No: 35825-12100

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SAN JUAN 29-6 UNIT 6A; BHD	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	3.5 PSIG
Location:		Flow Temp:	85 DEG. F
Lease/PA/CA:		Ambient Temp:	85 DEG. F
Formation:	MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3003921251	Sample Method:	Purge & Fill
		Sample Date:	07/25/2023
		Sample Time:	9.00 AM
		Sampled By:	R. DANEK
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

AREA 13 / RUN 1306

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7978	1.7819	0.1980	0.00	0.0174
CO2	0.0134	0.0133	0.0020	0.00	0.0002
Methane	96.2993	95.4482	16.3560	972.62	0.5334
Ethane	1.2765	1.2652	0.3420	22.59	0.0133
Propane	0.3903	0.3869	0.1080	9.82	0.0059
Iso-Butane	0.0922	0.0914	0.0300	3.00	0.0019
N-Butane	0.0663	0.0657	0.0210	2.16	0.0013
I-Pentane	0.0282	0.0280	0.0100	1.13	0.0007
N-Pentane	0.0102	0.0101	0.0040	0.41	0.0003
Hexane Plus	0.0258	0.0256	0.0120	1.36	0.0009
Total	100.0000	99.1163	17.0830	1013.09	0.5752

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	1876
BTU/CU.FT IDEAL:	1015.4	CYLINDER PRESSURE:	19 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1017.6	ANALYSIS DATE:	07/31/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	999.9	ANALYSIS TIME:	10:51:32 AM
DRY BTU @ 15.025:	1038.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5762		

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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; BHD	BRADENHEAD	07/31/2023
Stn. No.:	3003921251	MV	35825-12100
Mtr. No.:			

Smpl Date:	07/25/2023	05/12/2020
Test Date:	07/31/2023	05/14/2020
Run No:	HS20230164	HS200012
Nitrogen:	1.7978	1.9675
CO2:	0.0134	0.6341
Methane:	96.2993	95.6713
Ethane:	1.2765	1.1907
Propane:	0.3903	0.3466
I-Butane:	0.0922	0.0828
N-Butane:	0.0663	0.0586
I-Pentane:	0.0282	0.0249
N-Pentane:	0.0102	0.0092
Hexane+:	0.0258	0.0143
BTU:	1017.6	1007.2
GPM:	17.0830	17.0530
SPG:	0.5762	0.5814



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HS20230165
Cust No: 35825-12105

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	METER RUN
Well Name:	SAN JUAN 29-6 UNIT 6A; CSG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	52 PSIG
Location:		Flow Temp:	85 DEG. F
Lease/PA/CA:		Ambient Temp:	85 DEG. F
Formation:	MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3003921251	Sample Method:	Purge & Fill
		Sample Date:	07/25/2023
		Sample Time:	9.05 AM
		Sampled By:	R. DANEK
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1234	0.1231	0.0140	0.00	0.0012
CO2	1.6911	1.6872	0.2890	0.00	0.0257
Methane	83.7689	83.5734	14.2450	846.07	0.4640
Ethane	7.8316	7.8133	2.1010	138.60	0.0813
Propane	3.4102	3.4022	0.9420	85.80	0.0519
Iso-Butane	0.7118	0.7101	0.2340	23.15	0.0143
N-Butane	0.9226	0.9204	0.2920	30.10	0.0185
I-Pentane	0.3660	0.3651	0.1340	14.64	0.0091
N-Pentane	0.2640	0.2634	0.0960	10.58	0.0066
Hexane Plus	0.9104	0.9083	0.4070	47.99	0.0301
Total	100.0000	99.7665	18.7540	1196.92	0.7027

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0033	CYLINDER #:	1872
BTU/CU.FT IDEAL:	1199.7	CYLINDER PRESSURE:	36 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1203.7	ANALYSIS DATE:	07/31/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1182.8	ANALYSIS TIME:	10:38:51 AM
DRY BTU @ 15.025:	1227.8	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7048		

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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; CSG	METER RUN	07/31/2023
Stn. No.:	3003921251	MV	35825-12105
Mtr. No.:			

Smpl Date:	07/25/2023	05/12/2020
Test Date:	07/31/2023	05/14/2020
Run No:	HS20230165	HS200013
Nitrogen:	0.1234	0.1400
CO2:	1.6911	2.3657
Methane:	83.7689	87.6931
Ethane:	7.8316	6.0861
Propane:	3.4102	2.1126
I-Butane:	0.7118	0.3162
N-Butane:	0.9226	0.5001
I-Pentane:	0.3660	0.1652
N-Pentane:	0.2640	0.1325
Hexane+:	0.9104	0.4885
BTU:	1203.7	1116.5
GPM:	18.7540	18.1290
SPG:	0.7048	0.6599



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HS20230166
Cust No: 35825-12110

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	METER RUN
Well Name:	SAN JUAN 29-6 UNIT 6A; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	52 PSIG
Location:		Flow Temp:	85 DEG. F
Lease/PA/CA:		Ambient Temp:	85 DEG. F
Formation:	MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3003921251	Sample Method:	Purge & Fill
		Sample Date:	07/25/2023
		Sample Time:	9.10 AM
		Sampled By:	R. DANEK
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1382	0.1382	0.0150	0.00	0.0013
CO2	1.6686	1.6686	0.2860	0.00	0.0254
Methane	83.8794	83.8814	14.2630	847.18	0.4646
Ethane	7.8548	7.8550	2.1070	139.01	0.0815
Propane	3.4121	3.4122	0.9430	85.85	0.0519
Iso-Butane	0.7035	0.7035	0.2310	22.88	0.0141
N-Butane	0.9038	0.9038	0.2860	29.48	0.0181
I-Pentane	0.3665	0.3665	0.1340	14.66	0.0091
N-Pentane	0.2661	0.2661	0.0970	10.67	0.0066
Hexane Plus	0.8070	0.8070	0.3610	42.54	0.0267
Total	100.0000	100.0023	18.7230	1192.27	0.6995

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0033	CYLINDER #:	2186
BTU/CU.FT IDEAL:	1195.0	CYLINDER PRESSURE:	16 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1199.0	ANALYSIS DATE:	07/31/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1178.1	ANALYSIS TIME:	11:02:50 AM
DRY BTU @ 15.025:	1223.0	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7016		

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: 07/31/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 6A; TBG	METER RUN	07/31/2023
Stn. No.:	3003921251	MV	35825-12110
Mtr. No.:			

Smpl Date:	07/25/2023	05/12/2020
Test Date:	07/31/2023	05/14/2020
Run No:	HS20230166	HS200014
Nitrogen:	0.1382	0.1301
CO2:	1.6686	1.3334
Methane:	83.8794	83.7809
Ethane:	7.8548	8.1213
Propane:	3.4121	3.6568
I-Butane:	0.7035	0.7681
N-Butane:	0.9038	0.9421
I-Pentane:	0.3665	0.3594
N-Pentane:	0.2661	0.2513
Hexane+:	0.8070	0.6566
BTU:	1199.0	1203.4
GPM:	18.7230	18.7460
SPG:	0.7016	0.6989

District I
1625 N. French Dr., Hobbs, NM 88240
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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 247026

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 247026
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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