



OCD received
7/27/2020

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

Analysis No: HS200083
Cust No: 35825-12325

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE
Well Name:	SAN JUAN 29-6 UNIT 8M; INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	72 PSIG
Location:		Flow Temp:	72 DEG. F
Lease/PA/CA:		Ambient Temp:	72 DEG. F
Formation:	MV/DK	Flow Rate:	120 MCF/D
Cust. Stn. No.:	API # 3003929751	Sample Method:	
		Sample Date:	07/09/2020
		Sample Time:	11.02 AM
		Sampled By:	JORDON NELSON
		Sampled by (CO):	HILCORP
Heat Trace:	N		
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5911	0.5796	0.0650	0.00	0.0057
CO2	0.0027	0.0026	0.0000	0.00	0.0000
Methane	85.1792	83.5177	14.4830	860.31	0.4718
Ethane	7.0871	6.9489	1.9010	125.42	0.0736
Propane	4.2037	4.1217	1.1620	105.77	0.0640
Iso-Butane	0.8959	0.8784	0.2940	29.13	0.0180
N-Butane	0.8623	0.8455	0.2730	28.13	0.0173
I-Pentane	0.2843	0.2788	0.1040	11.37	0.0071
N-Pentane	0.1923	0.1885	0.0700	7.71	0.0048
Hexane Plus	0.7014	0.6877	0.3140	36.97	0.0232
Total	100.0000	98.0494	18.6660	1204.82	0.6855

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	8001
BTU/CU.FT IDEAL:	1207.6	CYLINDER PRESSURE:	42 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1211.5	ANALYSIS DATE:	07/14/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1190.4	ANALYSIS TIME:	10:24:38 AM
DRY BTU @ 15.025:	1235.8	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6874		

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: 07/16/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-6 UNIT 8M; INT
Stn. No.: API # 3003929751
Mtr. No.:

INTERMEDIATE
MV/DK

07/16/2020
35825-12325

Smpl Date: 07/09/2020
Test Date: 07/14/2020
Run No: HS200083

Nitrogen: 0.5911
CO2: 0.0027
Methane: 85.1792
Ethane: 7.0871
Propane: 4.2037
I-Butane: 0.8959
N-Butane: 0.8623
I-Pentane: 0.2843
N-Pentane: 0.1923
Hexane+: 0.7014

BTU: 1211.5
GPM: 18.6660
SPG: 0.6874



Well Name: SAN JUAN 29-6 UNIT 8M;
API #: API # 3003929751
Source: CASING
Sample Type: GAS
Analysis No: HS200082
Cust No: 35825-12320

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 29-6 UNIT 8M;CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV/DK
Cust. Stn. No.: API # 3003929751
83001
AREA 12 / RUN 1205
Heat Trace: N
Remarks:

Source: CASING
Well Flowing: Y
Pressure: 72 PSIG
Flow Temp: 72 DEG. F
Ambient Temp: 72 DEG. F
Flow Rate: 120 MCF/D
Sample Method:
Sample Date: 07/09/2020
Sample Time: 11.02 AM
Sampled By: JORDON NELSON
Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6472	0.6370	0.0710	0.00	0.0063
CO2	0.0055	0.0054	0.0010	0.00	0.0001
Methane	86.2449	84.8826	14.6630	871.07	0.4777
Ethane	6.5682	6.4644	1.7620	116.24	0.0682
Propane	3.8540	3.7931	1.0650	96.97	0.0587
Iso-Butane	0.8345	0.8213	0.2740	27.14	0.0167
N-Butane	0.8037	0.7910	0.2540	26.22	0.0161
I-Pentane	0.2854	0.2809	0.1050	11.42	0.0071
N-Pentane	0.1930	0.1900	0.0700	7.74	0.0048
Hexane Plus	0.5636	0.5547	0.2520	29.71	0.0187
Total	100.0000	98.4204	18.5170	1186.50	0.6744

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	031
BTU/CU.FT IDEAL:	1189.2	CYLINDER PRESSURE:	69 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1192.9	ANALYSIS DATE:	07/14/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1172.1	ANALYSIS TIME:	10:22:51 AM
DRY BTU @ 15.025:	1216.8	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.6762		

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: 07/16/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 8M;CSG	CASING	07/16/2020
Stn. No.:	API # 3003929751	MV/DK	35825-12320
Mtr. No.:	83001		

Smpl Date:	07/09/2020
Test Date:	07/14/2020
Run No:	HS200082
Nitrogen:	0.6472
CO2:	0.0055
Methane:	86.2449
Ethane:	6.5682
Propane:	3.8540
I-Butane:	0.8345
N-Butane:	0.8037
I-Pentane:	0.2854
N-Pentane:	0.1930
Hexane+:	0.5636
BTU:	1192.9
GPM:	18.5170
SPG:	0.6762



Well Name: SAN JUAN 29-6 UNIT 8M;
API #: API # 3003929751
Source: TUBING
Sample Type: GAS
Analysis No: HS200084
Cust No: 35825-12390

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 29-6 UNIT 8M; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	9 PSIG
Location:		Flow Temp:	76 DEG. F
Lease/PA/CA:		Ambient Temp:	76 DEG. F
Formation:	MV/DK	Flow Rate:	120 MCF/D
Cust. Stn. No.:	API # 3003929751	Sample Method:	Purge & Fill
	83001	Sample Date:	07/13/2020
		Sample Time:	11.10 AM
	AREA 12 / RUN 1205	Sampled By:	JORDON NELSON
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2829	0.1176	0.0310	0.00	0.0027
CO2	1.8502	0.7690	0.3170	0.00	0.0281
Methane	86.9845	36.1535	14.7880	878.54	0.4818
Ethane	5.8759	2.4422	1.5760	103.99	0.0610
Propane	2.2780	0.9468	0.6290	57.32	0.0347
Iso-Butane	0.4875	0.2026	0.1600	15.85	0.0098
N-Butane	0.5815	0.2417	0.1840	18.97	0.0117
I-Pentane	0.2635	0.1095	0.0970	10.54	0.0066
N-Pentane	0.1783	0.0741	0.0650	7.15	0.0044
Hexane Plus	1.2177	0.5061	0.5450	64.19	0.0403
Total	100.0000	41.5631	18.3920	1156.54	0.6811

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	4098
BTU/CU.FT IDEAL:	1159.2	CYLINDER PRESSURE:	6 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1162.8	ANALYSIS DATE:	07/15/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1142.6	ANALYSIS TIME:	02:29:21 PM
DRY BTU @ 15.025:	1186.1	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6829		

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: 07/16/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 8M; TBG	TUBING	07/16/2020
Stn. No.:	API # 3003929751	MV/DK	35825-12390
Mtr. No.:	83001		

Smpl Date:	07/13/2020
Test Date:	07/15/2020
Run No:	HS200084
Nitrogen:	0.2829
CO2:	1.8502
Methane:	86.9845
Ethane:	5.8759
Propane:	2.2780
I-Butane:	0.4875
N-Butane:	0.5815
I-Pentane:	0.2635
N-Pentane:	0.1783
Hexane+:	1.2177
BTU:	1162.8
GPM:	18.3920
SPG:	0.6829