



OCD Received
8/28/2020

Well Name: SAN JUAN 30-6 UNIT 12;
API #: API # 3003907752
Source: INTERMEDIATE CASING
Sample Type: GAS
Analysis No: HS200106
Cust No: 35825-12500

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 30-6 UNIT 12; INT
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 3003907752

Source: INTERMEDIATE CASING
Well Flowing:
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/30/2020
Sample Time: 2.26 PM
Sampled By:
Sampled by (CO): HILCORP

AREA 12 / RUN 1200

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1588	0.1587	0.0180	0.00	0.0015
CO2	2.0215	2.0197	0.3460	0.00	0.0307
Methane	88.4473	88.3680	15.0340	893.32	0.4899
Ethane	5.4493	5.4444	1.4610	96.44	0.0566
Propane	1.9042	1.9025	0.5260	47.91	0.0290
Iso-Butane	0.4045	0.4041	0.1330	13.15	0.0081
N-Butane	0.4891	0.4887	0.1550	15.96	0.0098
I-Pentane	0.2193	0.2191	0.0800	8.77	0.0055
N-Pentane	0.1511	0.1510	0.0550	6.06	0.0038
Hexane Plus	0.7549	0.7542	0.3380	39.79	0.0250
Total	100.0000	99.9104	18.1460	1121.40	0.6599

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1124.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1127.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1107.7
DRY BTU @ 15.025: 1149.9
REAL SPECIFIC GRAVITY: 0.6615

CYLINDER #: 6047
CYLINDER PRESSURE: 63 PSIG
ANALYSIS DATE: 07/30/2020
ANALYSIS TIME: 09:00:12 AM
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: 08/04/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 12; INT	INTERMEDIATE CASING	08/04/2020
Stn. No.:	API # 3003907752	MV	35825-12500
Mtr. No.:			

Smpl Date:	07/30/2020
Test Date:	07/30/2020
Run No:	HS200106
Nitrogen:	0.1588
CO2:	2.0215
Methane:	88.4473
Ethane:	5.4493
Propane:	1.9042
I-Butane:	0.4045
N-Butane:	0.4891
I-Pentane:	0.2193
N-Pentane:	0.1511
Hexane+:	0.7549
BTU:	1127.3
GPM:	18.1460
SPG:	0.6615



Well Name: SAN JUAN 30-6 UNIT 12;
 API #: API # 3003907752
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200105
 Cust No: 35825-12495

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 30-6 UNIT 12; CSG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	69 PSIG
Location:		Flow Temp:	89.2 DEG. F
Lease/PA/CA:		Ambient Temp:	89 DEG. F
Formation:	MV	Flow Rate:	242 MCF/D
Cust. Stn. No.:	API # 3003907752	Sample Method:	Purge & Fill
		Sample Date:	07/30/2020
		Sample Time:	2.25 PM
	AREA 12 / RUN 1200	Sampled By:	
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1030	0.1031	0.0110	0.00	0.0010
CO2	2.0279	2.0293	0.3470	0.00	0.0308
Methane	88.3988	88.4619	15.0260	892.83	0.4896
Ethane	5.4312	5.4351	1.4560	96.12	0.0564
Propane	1.9017	1.9031	0.5250	47.85	0.0290
Iso-Butane	0.4008	0.4011	0.1320	13.03	0.0080
N-Butane	0.4860	0.4863	0.1540	15.85	0.0098
I-Pentane	0.2230	0.2232	0.0820	8.92	0.0056
N-Pentane	0.1560	0.1561	0.0570	6.25	0.0039
Hexane Plus	0.8716	0.8722	0.3900	45.94	0.0288
Total	100.0000	100.0714	18.1800	1126.80	0.6629

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	6141
BTU/CU.FT IDEAL:	1129.4	CYLINDER PRESSURE:	62 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1132.7	ANALYSIS DATE:	07/30/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1113.0	ANALYSIS TIME:	08:44:33 AM
DRY BTU @ 15.025:	1155.4	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6645		

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: 08/04/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 12; CSG	CASING	08/04/2020
Stn. No.:	API # 3003907752	MV	35825-12495
Mtr. No.:			

Smpl Date:	07/30/2020
Test Date:	07/30/2020
Run No:	HS200105
Nitrogen:	0.1030
CO2:	2.0279
Methane:	88.3988
Ethane:	5.4312
Propane:	1.9017
I-Butane:	0.4008
N-Butane:	0.4860
I-Pentane:	0.2230
N-Pentane:	0.1560
Hexane+:	0.8716
BTU:	1132.7
GPM:	18.1800
SPG:	0.6645



Well Name: SAN JUAN 30-6 UNIT 12;
 API #: API # 3003907752
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200107
 Cust No: 35825-12505

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 30-6 UNIT 12; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	50 PSIG
Location:		Flow Temp:	89.2 DEG. F
Lease/PA/CA:		Ambient Temp:	89 DEG. F
Formation:	MV	Flow Rate:	243 MCF/D
Cust. Stn. No.:	API # 3003907752	Sample Method:	Purge & Fill
		Sample Date:	07/23/2020
		Sample Time:	2.27 PM
	AREA 12 / RUN 1200	Sampled By:	ADAM G.
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1065	0.1066	0.0120	0.00	0.0010
CO2	2.1970	2.1991	0.3760	0.00	0.0334
Methane	88.1334	88.2183	14.9810	890.15	0.4882
Ethane	5.6541	5.6595	1.5160	100.06	0.0587
Propane	1.9700	1.9719	0.5440	49.57	0.0300
Iso-Butane	0.4030	0.4034	0.1320	13.11	0.0081
N-Butane	0.4974	0.4979	0.1570	16.23	0.0100
I-Pentane	0.2249	0.2251	0.0820	9.00	0.0056
N-Pentane	0.1535	0.1536	0.0560	6.15	0.0038
Hexane Plus	0.6602	0.6608	0.2950	34.80	0.0218
Total	100.0000	100.0962	18.1510	1119.06	0.6606

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	6104
BTU/CU.FT IDEAL:	1121.6	CYLINDER PRESSURE:	50 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1124.9	ANALYSIS DATE:	07/30/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1105.3	ANALYSIS TIME:	08:58:42 AM
DRY BTU @ 15.025:	1147.4	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6623		

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: 08/04/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 12; TBG	TUBING	08/04/2020
Stn. No.:	API # 3003907752	MV	35825-12505
Mtr. No.:			

Smpl Date:	07/23/2020
Test Date:	07/30/2020
Run No:	HS200107
Nitrogen:	0.1065
CO2:	2.1970
Methane:	88.1334
Ethane:	5.6541
Propane:	1.9700
I-Butane:	0.4030
N-Butane:	0.4974
I-Pentane:	0.2249
N-Pentane:	0.1535
Hexane+:	0.6602
BTU:	1124.9
GPM:	18.1510
SPG:	0.6623