



OCD Received
7/29/2020

Well Name: SAN JUAN 30-6 UNIT 42;
API #: API # 3003907831
Source: CASING
Sample Type: GAS
Analysis No: HS200079
Cust No: 35825-12330

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 30-6 UNIT 42; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 3003907831
7165001
AREA 11 / RUN 1106
Heat Trace: N
Remarks:

Source: CASING
Well Flowing: Y
Pressure: 56 PSIG
Flow Temp: 67 DEG. F
Ambient Temp: 77 DEG. F
Flow Rate: 95 MCF/D
Sample Method:
Sample Date: 07/10/2020
Sample Time: 10.10 AM
Sampled By: PAT S.
Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1364	0.1350	0.0150	0.00	0.0013
CO2	2.6021	2.5757	0.4450	0.00	0.0395
Methane	92.3712	91.4354	15.6930	932.95	0.5116
Ethane	3.6578	3.6207	0.9800	64.73	0.0380
Propane	0.7956	0.7875	0.2200	20.02	0.0121
Iso-Butane	0.1209	0.1197	0.0400	3.93	0.0024
N-Butane	0.1386	0.1372	0.0440	4.52	0.0028
I-Pentane	0.0485	0.0480	0.0180	1.94	0.0012
N-Pentane	0.0287	0.0284	0.0100	1.15	0.0007
Hexane Plus	0.1002	0.0992	0.0450	5.28	0.0033
Total	100.0000	98.9868	17.5100	1034.52	0.6130

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1036.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1039.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1021.2
DRY BTU @ 15.025: 1060.1
REAL SPECIFIC GRAVITY: 0.6142

CYLINDER #: 6151
CYLINDER PRESSURE: 42 PSIG
ANALYSIS DATE: 07/14/2020
ANALYSIS TIME: 01:35:29 PM
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: 07/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 42; CSG	CASING	07/28/2020
Stn. No.:	API # 3003907831	MV	35825-12330
Mtr. No.:	7165001		

Smpl Date: 07/10/2020
Test Date: 07/14/2020
Run No: HS200079

Nitrogen: 0.1364
CO2: 2.6021
Methane: 92.3712
Ethane: 3.6578
Propane: 0.7956
I-Butane: 0.1209
N-Butane: 0.1386
I-Pentane: 0.0485
N-Pentane: 0.0287
Hexane+: 0.1002

BTU: 1039.3
GPM: 17.5100
SPG: 0.6142



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

Analysis No: HS200080
Cust No: 35825-12335

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 30-6 UNIT 42; INT
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 3003907831
7165001

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 56 PSIG
Flow Temp: 67 DEG. F
Ambient Temp: 78 DEG. F
Flow Rate: 95 MCF/D
Sample Method: Purge & Fill
Sample Date: 07/10/2020
Sample Time: 10.20 AM
Sampled By: PAT S.
Sampled by (CO): HILCORP

Heat Trace: AREA 11 / RUN 1106
N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1077	0.1067	0.0120	0.00	0.0010
CO2	2.6019	2.5785	0.4450	0.00	0.0395
Methane	92.3883	91.5561	15.6960	933.12	0.5117
Ethane	3.6679	3.6349	0.9830	64.91	0.0381
Propane	0.7978	0.7906	0.2200	20.07	0.0121
Iso-Butane	0.1214	0.1203	0.0400	3.95	0.0024
N-Butane	0.1392	0.1379	0.0440	4.54	0.0028
I-Pentane	0.0486	0.0482	0.0180	1.94	0.0012
N-Pentane	0.0286	0.0283	0.0100	1.15	0.0007
Hexane Plus	0.0986	0.0977	0.0440	5.20	0.0033
Total	100.0000	99.0992	17.5120	1034.88	0.6130

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1037.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1039.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1021.7
DRY BTU @ 15.025: 1060.6
REAL SPECIFIC GRAVITY: 0.6142

CYLINDER #: 4136
CYLINDER PRESSURE: 40 PSIG
ANALYSIS DATE: 07/14/2020
ANALYSIS TIME: 01:44:29 PM
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: 07/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 42; INT	INTERMEDIATE	07/28/2020
Stn. No.:	API # 3003907831	MV	35825-12335
Mtr. No.:	7165001		

Smpl Date:	07/10/2020
Test Date:	07/14/2020
Run No:	HS200080
Nitrogen:	0.1077
CO2:	2.6019
Methane:	92.3883
Ethane:	3.6679
Propane:	0.7978
I-Butane:	0.1214
N-Butane:	0.1392
I-Pentane:	0.0486
N-Pentane:	0.0286
Hexane+:	0.0986
BTU:	1039.8
GPM:	17.5120
SPG:	0.6142



Well Name: SAN JUAN 30-6 UNIT 42;
API #: API # 3003907831
Source: TUBING
Sample Type: GAS
Analysis No: HS200081
Cust No: 35825-12340

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 30-6 UNIT 42; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	52 PSIG
Location:		Flow Temp:	67 DEG. F
Lease/PA/CA:		Ambient Temp:	77 DEG. F
Formation:	MV	Flow Rate:	95 MCF/D
Cust. Stn. No.:	API # 3003907831	Sample Method:	Purge & Fill
	7165001	Sample Date:	07/10/2020
	AREA 11 / RUN 1106	Sample Time:	10.00 AM
Heat Trace:	N	Sampled By:	PAT S.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0961	0.0938	0.0110	0.00	0.0009
CO2	2.6143	2.5516	0.4470	0.00	0.0397
Methane	92.4138	90.1992	15.7010	933.38	0.5119
Ethane	3.6519	3.5644	0.9790	64.63	0.0379
Propane	0.7924	0.7734	0.2190	19.94	0.0121
Iso-Butane	0.1185	0.1157	0.0390	3.85	0.0024
N-Butane	0.1329	0.1297	0.0420	4.34	0.0027
I-Pentane	0.0488	0.0476	0.0180	1.95	0.0012
N-Pentane	0.0277	0.0270	0.0100	1.11	0.0007
Hexane Plus	0.1036	0.1011	0.0460	5.46	0.0034
Total	100.0000	97.6035	17.5120	1034.66	0.6129

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024
BTU/CU.FT IDEAL:	1037.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1039.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1021.3
DRY BTU @ 15.025:	1060.2
REAL SPECIFIC GRAVITY:	0.6141

CYLINDER #:	4067
CYLINDER PRESSURE:	38 PSIG
ANALYSIS DATE:	07/14/2020
ANALYSIS TIME:	01:50:03 PM
ANALYSIS RUN BY:	SHYANN ELLEDGE

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: 07/28/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 30-6 UNIT 42; TBG	TUBING	07/28/2020
Stn. No.:	API # 3003907831	MV	35825-12340
Mtr. No.:	7165001		

Smpl Date:	07/10/2020
Test Date:	07/14/2020
Run No:	HS200081
Nitrogen:	0.0961
CO2:	2.6143
Methane:	92.4138
Ethane:	3.6519
Propane:	0.7924
I-Butane:	0.1185
N-Butane:	0.1329
I-Pentane:	0.0488
N-Pentane:	0.0277
Hexane+:	0.1036
BTU:	1039.4
GPM:	17.5120
SPG:	0.6141