



NMOCD REC'D
6-15-20

Well Name: SAN JUAN 29-6 UNIT 86;
API #: API #3003907516
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200046
Cust No: 35825-12230

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SAN JUAN 29-6 UNIT 86; BHD	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	25 PSIG
Location:		Flow Temp:	77 DEG. F
Lease/PA/CA:		Ambient Temp:	76 DEG. F
Formation:	MV / DK	Flow Rate:	MCF/D
Cust. Stn. No.:	API #3003907516	Sample Method:	Purge & Fill
		Sample Date:	06/03/2020
		Sample Time:	9.30 AM
	AREA 13 / RUN 1306	Sampled By:	C. HAMILTON
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	10.5247	4.6240	1.1610	0.00	0.1018
CO2	0.0797	0.0350	0.0140	0.00	0.0012
Methane	77.3653	33.9901	13.1480	781.39	0.4285
Ethane	6.4999	2.8557	1.7430	115.03	0.0675
Propane	3.1788	1.3966	0.8780	79.98	0.0484
Iso-Butane	0.4850	0.2131	0.1590	15.77	0.0097
N-Butane	0.8137	0.3575	0.2570	26.55	0.0163
I-Pentane	0.2779	0.1221	0.1020	11.12	0.0069
N-Pentane	0.2381	0.1046	0.0870	9.54	0.0059
Hexane Plus	0.5369	0.2359	0.2400	28.30	0.0178
Total	100.0000	43.9346	17.7890	1067.68	0.7041

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027
BTU/CU.FT IDEAL:	1070.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1073.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1054.3
DRY BTU @ 15.025:	1094.5
REAL SPECIFIC GRAVITY:	0.7057

CYLINDER #:	7030
CYLINDER PRESSURE:	PSIG
ANALYSIS DATE:	06/08/2020
ANALYSIS TIME:	10:29:21 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: 06/12/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 86; BHD	BRADENHEAD	06/12/2020
Stn. No.:	API #3003907516	MV / DK	35825-12230
Mtr. No.:			

Smpl Date:	06/03/2020
Test Date:	06/08/2020
Run No:	HS200046
Nitrogen:	10.5247
CO2:	0.0797
Methane:	77.3653
Ethane:	6.4999
Propane:	3.1788
I-Butane:	0.4850
N-Butane:	0.8137
I-Pentane:	0.2779
N-Pentane:	0.2381
Hexane+:	0.5369
BTU:	1073.0
GPM:	17.7890
SPG:	0.7057



Well Name: SAN JUAN 29-6 UNIT 86;
API #: API #3003907516
Source: CASING
Sample Type: GAS
Analysis No: HS200047
Cust No: 35825-12235

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 29-6 UNIT 86; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation: MV / DK
Cust. Stn. No.: API #3003907516

Source: CASING
Well Flowing: Y
Pressure: 67 PSIG
Flow Temp: 77 DEG. F
Ambient Temp: 76 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/03/2020
Sample Time: 9.10 AM
Sampled By: CLAYTON H.
Sampled by (CO): HILCORP

Heat Trace: N
Remarks: AREA 13 / RUN 1306

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3926	0.3840	0.0430	0.00	0.0038
CO2	0.0185	0.0181	0.0030	0.00	0.0003
Methane	85.0007	83.1424	14.4540	858.51	0.4708
Ethane	7.6346	7.4677	2.0480	135.11	0.0793
Propane	3.7901	3.7072	1.0470	95.36	0.0577
Iso-Butane	0.5716	0.5591	0.1880	18.59	0.0115
N-Butane	0.9921	0.9704	0.3140	32.37	0.0199
I-Pentane	0.3549	0.3471	0.1300	14.20	0.0088
N-Pentane	0.3124	0.3056	0.1140	12.52	0.0078
Hexane Plus	0.9325	0.9121	0.4170	49.15	0.0309
Total	100.0000	97.8137	18.7580	1215.81	0.6907

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1218.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1222.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1201.4
DRY BTU @ 15.025: 1247.2
REAL SPECIFIC GRAVITY: 0.6927

CYLINDER #: 6179
CYLINDER PRESSURE: 66 PSIG
ANALYSIS DATE: 06/08/2020
ANALYSIS TIME: 10:44:38 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: 06/12/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 86; CSG	CASING	06/12/2020
Stn. No.:	API #3003907516	MV / DK	35825-12235
Mtr. No.:			

Smpl Date:	06/03/2020
Test Date:	06/08/2020
Run No:	HS200047
Nitrogen:	0.3926
CO2:	0.0185
Methane:	85.0007
Ethane:	7.6346
Propane:	3.7901
I-Butane:	0.5716
N-Butane:	0.9921
I-Pentane:	0.3549
N-Pentane:	0.3124
Hexane+:	0.9325
BTU:	1222.7
GPM:	18.7580
SPG:	0.6927



Well Name: SAN JUAN 29-6 UNIT 86;
 API #: API #3003907516
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200048
 Cust No: 35825-12240

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 29-6 UNIT 86; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	47 PSIG
Location:		Flow Temp:	77 DEG. F
Lease/PA/CA:		Ambient Temp:	76 DEG. F
Formation:	MV / DK	Flow Rate:	285 MCF/D
Cust. Stn. No.:	API #3003907516	Sample Method:	Purge & Fill
		Sample Date:	06/03/2020
		Sample Time:	1.22 PM
		Sampled By:	C. HAMILTON
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1691	0.1647	0.0190	0.00	0.0016
CO2	1.3454	1.3101	0.2300	0.00	0.0204
Methane	81.8580	79.7083	13.9220	826.77	0.4534
Ethane	8.6168	8.3905	2.3120	152.49	0.0895
Propane	4.3017	4.1887	1.1890	108.24	0.0655
Iso-Butane	0.9060	0.8822	0.2970	29.46	0.0182
N-Butane	1.1665	1.1359	0.3690	38.05	0.0234
I-Pentane	0.4313	0.4200	0.1580	17.26	0.0107
N-Pentane	0.3173	0.3090	0.1150	12.72	0.0079
Hexane Plus	0.8879	0.8646	0.3970	46.80	0.0294
Total	100.0000	97.3740	19.0080	1231.79	0.7201

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	5000
BTU/CU.FT IDEAL:	1234.6	CYLINDER PRESSURE:	45 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1239.0	ANALYSIS DATE:	06/08/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1217.4	ANALYSIS TIME:	10:58:47 AM
DRY BTU @ 15.025:	1263.8	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7223		

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: 06/12/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-6 UNIT 86; TBG	TUBING	06/12/2020
Stn. No.:	API #3003907516	MV / DK	35825-12240
Mtr. No.:			

Smpl Date:	06/03/2020
Test Date:	06/08/2020
Run No:	HS200048
Nitrogen:	0.1691
CO2:	1.3454
Methane:	81.8580
Ethane:	8.6168
Propane:	4.3017
I-Butane:	0.9060
N-Butane:	1.1665
I-Pentane:	0.4313
N-Pentane:	0.3173
Hexane+:	0.8879
BTU:	1239.0
GPM:	19.0080
SPG:	0.7223