OCD Received
7/27/2020

Well Name: SAN JUAN 29-6 UNIT 22;
API #: API # 3003907676
Source: BRADENHEAD
Sample Type: GAS

Analysis No: HS200085
Cust No: 35825-12395

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SAN JUAN 29-6 UNIT 22; BHD	Well Flowing:	
County/State:	RIO ARRIBA NM	Pressure:	12 PSIG
Location:		Flow Temp:	90 DEG. F
Lease/PA/CA:		Ambient Temp:	90 DEG. F
Formation:	MV	Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3003907676	Sample Method:	Purge & Fill
	86054	Sample Date:	07/14/2020
		Sample Time:	12.00 PM
	AREA 12 / RUN 1205	Sampled By:	JORDON NELSON
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2787	0.2719	0.0310	0.00	0.0027
CO2	1.3668	1.3336	0.2340	0.00	0.0208
Methane	84.7534	82.6923	14.4110	856.01	0.4694
Ethane	7.8519	7.6610	2.1060	138.96	0.0815
Propane	3.0983	3.0230	0.8560	77.96	0.0472
Iso-Butane	0.6291	0.6138	0.2060	20.46	0.0126
N-Butane	0.8225	0.8025	0.2600	26.83	0.0165
I-Pentane	0.3327	0.3246	0.1220	13.31	0.0083
N-Pentane	0.2279	0.2224	0.0830	9.14	0.0057
Hexane Plus	0.6387	0.6232	0.2860	33.67	0.0211
Total	100.0000	97.5683	18.5950	1176.32	0.6858

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032	CYLINDER #:	6137
BTU/CU.FT IDEAL:	1179.0	CYLINDER PRESSURE:	11 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1182.7	ANALYIS DATE:	07/15/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1162.1	ANALYIS TIME:	01:34:31 PM
DRY BTU @ 15.025:	1206.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6877		

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 22; BHD	BRADENHEAD	07/16/2020
Stn. No.:	API # 3003907676	MV	35825-12395
Mtr. No.:	86054		

Smpl Date:	07/14/2020
Test Date:	07/15/2020
Run No:	HS200085
Nitrogen:	0.2787
CO2:	1.3668
Methane:	84.7534
Ethane:	7.8519
Propane:	3.0983
I-Butane:	0.6291
N-Butane:	0.8225
I-Pentane:	0.3327
N-Pentane:	0.2279
Hexane+:	0.6387
BTU:	1182.7
GPM:	18.5950
SPG:	0.6877

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

GAS

Analysis No: HS200087
Cust No: 35825-12405

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE
Well Name:	SAN JUAN 29-6 UNIT 22; INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	95 PSIG
Location:		Flow Temp:	80 DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:	MV	Flow Rate:	80 MCF/D
Cust. Stn. No.:	API # 3003907676	Sample Method:	Purge & Fill
	86054	Sample Date:	07/13/2020
		Sample Time:	12.00 PM
	AREA 12/ RUN 1205	Sampled By:	JORDON NELSON
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1329	0.1305	0.0150	0.00	0.0013
CO2	1.5571	1.5289	0.2670	0.00	0.0237
Methane	84.6705	83.1365	14.3960	855.17	0.4690
Ethane	7.8510	7.7088	2.1060	138.94	0.0815
Propane	3.0890	3.0330	0.8540	77.72	0.0470
Iso-Butane	0.6131	0.6020	0.2010	19.94	0.0123
N-Butane	0.8246	0.8097	0.2610	26.90	0.0165
I-Pentane	0.3419	0.3357	0.1250	13.68	0.0085
N-Pentane	0.2385	0.2342	0.0870	9.56	0.0059
Hexane Plus	0.6814	0.6691	0.3050	35.92	0.0226
Total	100.0000	98.1884	18.6170	1177.83	0.6883

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032	CYLINDER #:	6031
BTU/CU.FT IDEAL:	1180.6	CYLINDER PRESSURE:	87 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1184.3	ANALYIS DATE:	07/15/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1163.7	ANALYIS TIME:	01:50:43 PM
DRY BTU @ 15.025:	1208.0	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6903		

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 22; INT	INTERMEDIATE	07/16/2020
Stn. No.:	API # 3003907676	MV	35825-12405
Mtr. No.:	86054		

Smpl Date:	07/13/2020
Test Date:	07/15/2020
Run No:	HS200087
Nitrogen:	0.1329
CO2:	1.5571
Methane:	84.6705
Ethane:	7.8510
Propane:	3.0890
I-Butane:	0.6131
N-Butane:	0.8246
I-Pentane:	0.3419
N-Pentane:	0.2385
Hexane+:	0.6814
BTU:	1184.3
GPM:	18.6170
SPG:	0.6903

Well Name: SAN JUAN 29-6 UNIT 22;
API #: API # 3003907676
Source: CASING
Sample Type: GAS

Analysis No: HS200086
Cust No: 35825-12400

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 29-6 UNIT 22; CSG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	92 PSIG
Location:		Flow Temp:	80 DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:	MV	Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3003907676	Sample Method:	Purge & Fill
	86054	Sample Date:	07/13/2020
		Sample Time:	12.00 PM
	AREA 12 / RUN 1205	Sampled By:	JORDON NELSON
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1318	0.1294	0.0150	0.00	0.0013
CO2	1.5528	1.5249	0.2660	0.00	0.0236
Methane	84.6024	83.0809	14.3850	854.48	0.4686
Ethane	7.8636	7.7222	2.1090	139.16	0.0816
Propane	3.1018	3.0460	0.8570	78.04	0.0472
Iso-Butane	0.6189	0.6078	0.2030	20.13	0.0124
N-Butane	0.8312	0.8163	0.2630	27.12	0.0167
I-Pentane	0.3456	0.3394	0.1270	13.83	0.0086
N-Pentane	0.2418	0.2375	0.0880	9.69	0.0060
Hexane Plus	0.7101	0.6973	0.3180	37.43	0.0235
Total	100.0000	98.2017	18.6310	1179.88	0.6896

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032	CYLINDER #:	6017
BTU/CU.FT IDEAL:	1182.6	CYLINDER PRESSURE:	91 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1186.4	ANALYIS DATE:	07/15/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1165.8	ANALYIS TIME:	01:31:18 PM
DRY BTU @ 15.025:	1210.2	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6915		

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 22; CSG	CASING	07/16/2020
Stn. No.:	API # 3003907676	MV	35825-12400
Mtr. No.:	86054		

Smpl Date:	07/13/2020
Test Date:	07/15/2020
Run No:	HS200086
Nitrogen:	0.1318
CO2:	1.5528
Methane:	84.6024
Ethane:	7.8636
Propane:	3.1018
I-Butane:	0.6189
N-Butane:	0.8312
I-Pentane:	0.3456
N-Pentane:	0.2418
Hexane+:	0.7101
BTU:	1186.4
GPM:	18.6310
SPG:	0.6915

Well Name: SAN JUAN 29-6 UNIT 22;
API #: API # 3003907676
Source: TUBING
Sample Type: GAS

Analysis No: HS200088
Cust No: 35825-12410

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	TUBING
Well Name:	SAN JUAN 29-6 UNIT 22; TBG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	70 PSIG
Location:		Flow Temp:	80 DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:	MV	Flow Rate:	54 MCF/D
Cust. Stn. No.:	API # 3003907676	Sample Method:	Purge & Fill
	86054	Sample Date:	07/13/2020
		Sample Time:	11.45 AM
	AREA 12 / RUN 1205	Sampled By:	JORDON NELSON
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1290	0.1264	0.0140	0.00	0.0012
CO2	1.4838	1.4542	0.2540	0.00	0.0225
Methane	85.1906	83.4926	14.4830	860.43	0.4719
Ethane	7.8392	7.6829	2.1020	138.73	0.0814
Propane	2.9702	2.9110	0.8210	74.73	0.0452
Iso-Butane	0.5812	0.5696	0.1910	18.90	0.0117
N-Butane	0.7436	0.7288	0.2350	24.26	0.0149
I-Pentane	0.2948	0.2889	0.1080	11.79	0.0073
N-Pentane	0.1985	0.1945	0.0720	7.96	0.0049
Hexane Plus	0.5691	0.5578	0.2550	30.00	0.0188
Total	100.0000	98.0067	18.5350	1166.80	0.6800

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0031	CYLINDER #:	4248
BTU/CU.FT IDEAL:	1169.5	CYLINDER PRESSURE:	85 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1173.1	ANALYIS DATE:	07/15/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1152.7	ANALYIS TIME:	01:59:11 PM
DRY BTU @ 15.025:	1196.6	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6818		

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 22; TBG	TUBING	07/16/2020
Stn. No.:	API # 3003907676	MV	35825-12410
Mtr. No.:	86054		

Smpl Date:	07/13/2020
Test Date:	07/15/2020
Run No:	HS200088
Nitrogen:	0.1290
CO2:	1.4838
Methane:	85.1906
Ethane:	7.8392
Propane:	2.9702
I-Butane:	0.5812
N-Butane:	0.7436
I-Pentane:	0.2948
N-Pentane:	0.1985
Hexane+:	0.5691
BTU:	1173.1
GPM:	18.5350
SPG:	0.6818