Well Name: SULLIVAN A 1F; BHD
API #: API # 3004535372
Source: BRADENHEAD
Sample Type: GAS

Analysis No: HS200330
Cust No: 35825-12360

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	SULLIVAN A 1F; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	37 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	FEE	Ambient Temp:	80 DEG. F
Formation:	CH	Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004535372	Sample Method:	Purge & Fill
	91118	Sample Date:	10/15/2020
		Sample Time:	1.30 PM
	AREA 7 / RUN 705	Sampled By:	PAT HUDMAN
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6882	0.6736	0.0760	0.00	0.0067
CO2	0.0275	0.0269	0.0050	0.00	0.0004
Methane	88.5177	86.6350	15.0430	894.03	0.4903
Ethane	6.6630	6.5213	1.7860	117.92	0.0692
Propane	2.7341	2.6760	0.7550	68.79	0.0416
Iso-Butane	0.4576	0.4479	0.1500	14.88	0.0092
N-Butane	0.5669	0.5548	0.1790	18.49	0.0114
I-Pentane	0.1459	0.1428	0.0530	5.84	0.0036
N-Pentane	0.0864	0.0846	0.0310	3.46	0.0022
Hexane Plus	0.1127	0.1103	0.0500	5.94	0.0037
Total	100.0000	97.8732	18.1280	1129.35	0.6383

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

COMPRESSIBLITY FACTOR (1/Z):	1.0027	CYLINDER #:	5034
BTU/CU.FT IDEAL:	1132.0	CYLINDER PRESSURE:	38 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1135.0	ANALYIS DATE:	10/16/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1115.3	ANALYIS TIME:	07:58:21 AM
DRY BTU @ 15.025:	1157.7	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.6397		

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: 10/16/2020**
GC Method: C6+ Gas

Well Name: SULLIVAN A 1F; CSG
API #: API # 3004535372
Source: CASING
Sample Type: GAS

Analysis No: HS200331
Cust No: 35825-12365

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SULLIVAN A 1F; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	66 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	FEE	Ambient Temp:	80 DEG. F
Formation:	CH	Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004535372	Sample Method:	Purge & Fill
	91118	Sample Date:	10/15/2020
		Sample Time:	1.35 PM
	AREA 7 / RUN 705	Sampled By:	PAT HUDMAN
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3826	0.3787	0.0420	0.00	0.0037
CO2	1.3409	1.3274	0.2300	0.00	0.0204
Methane	78.3079	77.5174	13.3240	790.91	0.4337
Ethane	10.7893	10.6804	2.8960	190.94	0.1120
Propane	4.6715	4.6243	1.2920	117.54	0.0711
Iso-Butane	0.7943	0.7863	0.2610	25.83	0.0159
N-Butane	1.4184	1.4041	0.4490	46.27	0.0285
I-Pentane	0.5425	0.5370	0.1990	21.70	0.0135
N-Pentane	0.4571	0.4525	0.1660	18.32	0.0114
Hexane Plus	1.2955	1.2824	0.5800	68.29	0.0429
Total	100.0000	98.9905	19.4390	1279.81	0.7531

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

COMPRESSIBLITY FACTOR (1/Z):	1.0039	CYLINDER #:	6245
BTU/CU.FT IDEAL:	1282.8	CYLINDER PRESSURE:	64 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1287.8	ANALYIS DATE:	10/16/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1265.4	ANALYIS TIME:	08:10:30 AM
DRY BTU @ 15.025:	1313.6	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.7558		

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: 10/16/2020**
GC Method: C6+ Gas