



Well Name: MCCLANAHAN #16; TBG

API #: API# 3004507298

Source: TUBING

Sample Type: GAS

Analysis No: HS2021022

Cust No: 35825-13490

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: MCCLANAHAN #16; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: API# 3004507298

AREA 08 / RUN 0806

Heat Trace: N

Remarks:

Source: TUBING

Well Flowing: Y

Pressure: 68 PSIG

Flow Temp: 67 DEG. F

Ambient Temp: 65 DEG. F

Flow Rate: 25 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/22/2021

Sample Time: 12.25 PM

Sampled By: LAWRENCE L.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6103	0.6150	0.0670	0.00	0.0059
CO2	0.2487	0.2506	0.0430	0.00	0.0038
Methane	78.0880	78.6865	13.2850	788.69	0.4325
Ethane	10.8659	10.9492	2.9160	192.29	0.1128
Propane	6.3235	6.3720	1.7480	159.11	0.0963
Iso-Butane	1.2184	1.2277	0.4000	39.62	0.0245
N-Butane	1.2540	1.2636	0.3970	40.91	0.0252
I-Pentane	0.3903	0.3933	0.1430	15.62	0.0097
N-Pentane	0.2868	0.2890	0.1040	11.50	0.0071
Hexane Plus	0.7141	0.7196	0.3200	37.64	0.0236
Total	100.0000	100.7665	19.4230	1285.37	0.7414

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1288.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1293.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1270.8
 DRY BTU @ 15.025: 1319.2
 REAL SPECIFIC GRAVITY: 0.7439

CYLINDER #: 5019
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 04/27/2021
 ANALYSIS TIME: 03:05:36 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 05/04/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCLANAHAN #16; TBG
Stn. No.: API# 3004507298
Mtr. No.:

TUBING

05/04/2021
35825-13490

Smpl Date: 04/22/2021
Test Date: 04/27/2021
Run No: HS2021022

Nitrogen: 0.6103
CO2: 0.2487
Methane: 78.0880
Ethane: 10.8659
Propane: 6.3235
I-Butane: 1.2184
N-Butane: 1.2540
I-Pentane: 0.3903
N-Pentane: 0.2868
Hexane+: 0.7141

BTU: 1293.3
GPM: 19.4230
SPG: 0.7439



Well Name: MCCLANAHAN #16; CSG

API #: API# 3004507298

Source: CASING

Sample Type: GAS

Analysis No: HS2021021

Cust No: 35825-13485

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCLANAHAN #16; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API# 3004507298

Source: CASING
 Well Flowing: Y
 Pressure: 68 PSIG
 Flow Temp: 67 DEG. F
 Ambient Temp: 65 DEG. F
 Flow Rate: 25 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/22/2021
 Sample Time: 12.45 PM
 Sampled By: LAWRENCE L.
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 08 / RUN 0806

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5927	0.5818	0.0650	0.00	0.0057
CO2	0.2536	0.2490	0.0430	0.00	0.0039
Methane	77.2968	75.8812	13.1520	780.70	0.4281
Ethane	11.1973	10.9922	3.0050	198.16	0.1163
Propane	6.6749	6.5527	1.8460	167.95	0.1016
Iso-Butane	1.2578	1.2348	0.4130	40.90	0.0252
N-Butane	1.2725	1.2492	0.4030	41.51	0.0255
I-Pentane	0.3966	0.3893	0.1460	15.87	0.0099
N-Pentane	0.2900	0.2847	0.1060	11.63	0.0072
Hexane Plus	0.7678	0.7537	0.3440	40.47	0.0254
Total	100.0000	98.1686	19.5230	1297.18	0.7489

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1300.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1305.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1282.6
 DRY BTU @ 15.025: 1331.4
 REAL SPECIFIC GRAVITY: 0.7515

CYLINDER #: 4159
 CYLINDER PRESSURE: 63 PSIG
 ANALYSIS DATE: 04/27/2021
 ANALYSIS TIME: 02:56:25 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: 05/04/2021

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCLANAHAN #16; CSG
Stn. No.: API# 3004507298
Mtr. No.:

CASING

05/04/2021
35825-13485

Smpl Date: 04/22/2021
Test Date: 04/27/2021
Run No: HS2021021

Nitrogen: 0.5927
CO2: 0.2536
Methane: 77.2968
Ethane: 11.1973
Propane: 6.6749
I-Butane: 1.2578
N-Butane: 1.2725
I-Pentane: 0.3966
N-Pentane: 0.2900
Hexane+: 0.7678

BTU: 1305.3
GPM: 19.5230
SPG: 0.7515

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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 28979

CONDITIONS OF APPROVAL

Operator:	HILCORP ENERGY COMPANY	1111 Travis Street	Houston, TX77002	OGRID:	372171	Action Number:	28979	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								