



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

Analysis No: HS190214
Cust No: 35825-11820

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: TAFOYA 1C;BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API #3004532187

Source: BRADENHEAD
Well Flowing: Y
Pressure: 109 PSIG
Flow Temp: DEG. F
Ambient Temp: 90 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/25/2019
Sample Time: 4.05 PM
Sampled By: DANIEL RIOS
Sampled by (CO): HILCORP

AREA 2 / RUN 211

Heat Trace:
Remarks:

NMOC
SEP 09 2019
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3255	0.3237	0.0360	0.00	0.0031
CO2	0.0088	0.0088	0.0020	0.00	0.0001
Methane	92.3358	91.8271	15.6890	932.59	0.5114
Ethane	5.4244	5.3945	1.4540	96.00	0.0563
Propane	1.0239	1.0183	0.2830	25.76	0.0156
Iso-Butane	0.2435	0.2422	0.0800	7.92	0.0049
N-Butane	0.2473	0.2459	0.0780	8.07	0.0050
I-Pentane	0.1217	0.1210	0.0450	4.87	0.0030
N-Pentane	0.0500	0.0497	0.0180	2.00	0.0012
Hexane Plus	0.2191	0.2179	0.0980	11.55	0.0073
Total	100.0000	99.4491	17.7830	1088.76	0.6080

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1091.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1093.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1074.9
DRY BTU @ 15.025: 1115.8
REAL SPECIFIC GRAVITY: 0.6092

CYLINDER #: 4232
CYLINDER PRESSURE: 93 PSIG
ANALYSIS DATE: 08/07/2019
ANALYSIS TIME: 02:20:38 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: 08/09/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: TAFOYA 1C;BHD
Stn. No.: API #3004532187
Mtr. No.:

BRADENHEAD
MV

08/09/2019
35825-11820

Smpl Date: 07/25/2019
Test Date: 08/07/2019
Run No: HS190214

Nitrogen: 0.3255
CO2: 0.0088
Methane: 92.3358
Ethane: 5.4244
Propane: 1.0239
I-Butane: 0.2435
N-Butane: 0.2473
I-Pentane: 0.1217
N-Pentane: 0.0500
Hexane+: 0.2191

BTU: 1093.9
GPM: 17.7830
SPG: 0.6092



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

Analysis No: HS190215
Cust No: 35825-11825

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: TAFOYA 1C; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API #3004532187

Source: TUBING
Well Flowing: Y
Pressure: 66 PSIG
Flow Temp: DEG. F
Ambient Temp: 90 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/25/2019
Sample Time: 4.00 PM
Sampled By: DANIEL RIOS
Sampled by (CO):

Heat Trace: AREA 2 / RUN 211
Remarks: N

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1637	0.1606	0.0180	0.00	0.0016
CO2	0.7867	0.7719	0.1350	0.00	0.0120
Methane	83.4794	81.9139	14.1970	843.14	0.4624
Ethane	8.1561	8.0032	2.1880	144.34	0.0847
Propane	3.8633	3.7909	1.0680	97.20	0.0588
Iso-Butane	0.7961	0.7812	0.2610	25.89	0.0160
N-Butane	1.1430	1.1216	0.3610	37.29	0.0229
I-Pentane	0.4325	0.4244	0.1590	17.30	0.0108
N-Pentane	0.3238	0.3177	0.1180	12.98	0.0081
Hexane Plus	0.8554	0.8394	0.3830	45.09	0.0283
Total	100.0000	98.1248	18.8880	1223.23	0.7055

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1226.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1230.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1208.8
DRY BTU @ 15.025: 1254.8
REAL SPECIFIC GRAVITY: 0.7076

CYLINDER #: 6237
CYLINDER PRESSURE: 56 PSIG
ANALYSIS DATE: 08/07/2019
ANALYSIS TIME: 02:00:31 AM
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: 08/09/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: TAFOYA 1C; TBG
Stn. No.: API #3004532187
Mtr. No.:

TUBING
MV

08/09/2019
35825-11825

Smpl Date: 07/25/2019
Test Date: 08/07/2019
Run No: HS190215

Nitrogen: 0.1637
CO2: 0.7867
Methane: 83.4794
Ethane: 8.1561
Propane: 3.8633
I-Butane: 0.7961
N-Butane: 1.1430
I-Pentane: 0.4325
N-Pentane: 0.3238
Hexane+: 0.8554

BTU: 1230.2
GPM: 18.8880
SPG: 0.7076