



NMOC

JUN 18 2018

DISTRICT III

30-045-09643

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

Analysis No: HS180047
Cust No: 35825-10195

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: MCCORD 11; BHD
County/State: SAN JUAN NM
Location: N09-30N-13W
Field: AREA 1 / RUN 100
Formation: DK
Cust. Stn. No.: 73800-01

Source: BRADENHEAD
Well Flowing: Y
Pressure: 55 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/15/2018
Sample Time: 2.50 PM
Sampled By: PETER JIM
Sampled by (CO): HILCORP

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4332	0.4209	0.0480	0.00	0.0042
CO2	0.0324	0.0315	0.0060	0.00	0.0005
Methane	97.6324	94.8537	16.5820	986.09	0.5408
Ethane	1.1588	1.1258	0.3100	20.51	0.0120
Propane	0.5514	0.5357	0.1520	13.87	0.0084
Iso-Butane	0.1085	0.1054	0.0360	3.53	0.0022
N-Butane	0.0457	0.0444	0.0140	1.49	0.0009
I-Pentane	0.0045	0.0044	0.0020	0.18	0.0001
N-Pentane	0.0029	0.0028	0.0010	0.12	0.0001
Hexane Plus	0.0302	0.0293	0.0130	1.59	0.0010
Total	100.0000	97.1539	17.1640	1027.38	0.5702

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 1029.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1031.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1013.9
DRY BTU @ 15.025: 1052.6
REAL SPECIFIC GRAVITY: 0.5711

CYLINDER #: 6042
CYLINDER PRESSURE: 37 PSIG
ANALYSIS DATE: 05/17/2018
ANALYSIS TIME: 01:22:44 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: 05/18/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD 11; BHD
Stn. No.: 73800-01
Mtr. No.:

BRADENHEAD
DK

05/18/2018
35825-10195

Smpl Date: 05/15/2018
Test Date: 05/17/2018
Run No: HS180047
Nitrogen: 0.4332
CO2: 0.0324
Methane: 97.6324
Ethane: 1.1588
Propane: 0.5514
I-Butane: 0.1085
N-Butane: 0.0457
I-Pentane: 0.0045
N-Pentane: 0.0029
Hexane+: 0.0302
BTU: 1031.9
GPM: 17.1640
SPG: 0.5711



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

Analysis No: HS180048
Cust No: 35825-10200

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: MCCORD 11; CSG
County/State: SAN JUAN NM
Location: DK
Field: AREA 1 / RUN 100
Formation: N09-30N-13W
Cust. Str. No.: 73800-01

Source: CASING
Well Flowing:
Pressure: 142 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/15/2018
Sample Time: 2.45 PM
Sampled By: PETER JIM
Sampled by (CO): HILCORP

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7904	0.2266	0.0870	0.00	0.0076
CO2	0.0195	0.0056	0.0030	0.00	0.0003
Methane	77.6761	22.2703	13.2190	784.53	0.4302
Ethane	9.9296	2.8469	2.6660	175.72	0.1031
Propane	5.6420	1.6176	1.5600	141.96	0.0859
Iso-Butane	1.0003	0.2868	0.3290	32.53	0.0201
N-Butane	2.2724	0.6515	0.7190	74.13	0.0456
I-Pentane	0.9466	0.2714	0.3480	37.87	0.0236
N-Pentane	0.9205	0.2639	0.3350	36.90	0.0229
Hexane Plus	0.8026	0.2301	0.3590	42.31	0.0266
Total	100.0000	28.6707	19.6250	1325.95	0.7659

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
BTU/CU.FT IDEAL: 1329.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1334.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1311.3
DRY BTU @ 15.025: 1361.2
REAL SPECIFIC GRAVITY: 0.7688

CYLINDER #: 4109
CYLINDER PRESSURE: 0 PSIG
ANALYSIS DATE: 05/17/2018
ANALYSIS TIME: 02:06:16 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: 05/18/2018

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: MCCORD 11; CSG
Stn. No.: 73800-01
Mtr. No.:

CASING
N09-30N-13W

05/18/2018
35825-10200

Smpl Date: 05/15/2018
Test Date: 05/17/2018
Run No: HS180048

Nitrogen: 0.7904
CO2: 0.0195
Methane: 77.6761
Ethane: 9.9296
Propane: 5.6420
I-Butane: 1.0003
N-Butane: 2.2724
I-Pentane: 0.9466
N-Pentane: 0.9205
Hexane+: 0.8026

BTU: 1334.5
GPM: 19.6250
SPG: 0.7688