



OIL CONS. DIV DIST. 3

OCT 03 2017

API # 30-045-34076

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

Analysis No: HS170001
Cust No: 35825-10000

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 32-7 43M; CSG
County/State: SAN JUAN NM
Location: I32-N07-W21
Field: AREA 4 / RUN 411
Formation: MV
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 139 PSIG
Flow Temp: DEG. F
Ambient Temp: 74 DEG. F
Flow Rate: MCF/D
Sample Method:
Date Sampled: 08/17/2017
Sample Time: 12.15 PM
Sampled By: TERRY GOMEZ
Sampled by (CO): HILCORP

Remarks: SPOT

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1309	0.0140	0.00	0.0013
CO2	1.9287	0.3300	0.00	0.0293
Methane	91.1439	15.4860	920.55	0.5048
Ethane	4.8169	1.2910	85.24	0.0500
Propane	1.1739	0.3240	29.54	0.0179
Iso-Butane	0.2056	0.0670	6.69	0.0041
N-Butane	0.2236	0.0710	7.29	0.0045
I-Pentane	0.0955	0.0350	3.82	0.0024
N-Pentane	0.0603	0.0220	2.42	0.0015
Hexane Plus	0.2207	0.0990	11.63	0.0073
Total	100.0000	17.7390	1067.19	0.6231

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1069.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1072.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1053.6
DRY BTU @ 15.025: 1093.8
REAL SPECIFIC GRAVITY: 0.6244

CYLINDER #: 030
CYLINDER PRESSURE: 146 PSIG
DATE RUN: 8/29/17 12:00 AM
ANALYSIS RUN BY: CAMERON MANGAN

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: 09/27/2017

GC Method: C6+ Gas

4



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 32-7 43M; CSG
Stn. No.:
Mtr. No.:

CASING
MV

09/27/2017
35825-10000

Smpl Date: 08/17/2017
Test Date: 08/29/2017
Run No: HS170001

Nitrogen: 0.1309
CO2: 1.9287
Methane: 91.1439
Ethane: 4.8169
Propane: 1.1739
I-Butane: 0.2056
N-Butane: 0.2236
I-Pentane: 0.0955
N-Pentane: 0.0603
Hexane+: 0.2207

BTU: 1072.3
GPM: 17.7390
SPG: 0.6244



API # 30045-3406

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: HS170002
Cust No: 35825-10005**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)
Well Name: SAN JUAN 32-7 43M; INTRM CSG
County/State: SAN JUAN NM
Location: I32-N07-W21
Field: AREA 4 / RUN 411
Formation:
Cust. Stn. No.:Source: INTRM CASING
Well Flowing: Y
Pressure: 550 PSIG
Flow Temp: DEG. F
Ambient Temp: 74 DEG. F
Flow Rate: MCF/D
Sample Method:
Date Sampled: 08/17/2017
Sample Time: 12.30 PM
Sampled By: TERRY GOMEZ
Sampled by (CO): HILCORPOIL CONS. DIV DIST. 3
OCT 03 2017

Remarks: SPOT

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1721	0.0190	0.00	0.0017
CO2	0.0012	0.0000	0.00	0.0000
Methane	86.2482	14.6620	871.11	0.4777
Ethane	8.8621	2.3770	156.83	0.0920
Propane	2.8935	0.7990	72.80	0.0441
Iso-Butane	0.5273	0.1730	17.15	0.0106
N-Butane	0.6146	0.1940	20.05	0.0123
I-Pentane	0.2472	0.0910	9.89	0.0062
N-Pentane	0.1544	0.0560	6.19	0.0038
Hexane Plus	0.2794	0.1250	14.73	0.0092
Total	100.0000	18.4960	1168.75	0.6576

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1171.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1174.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1154.5
DRY BTU @ 15.025: 1198.4
REAL SPECIFIC GRAVITY: 0.6593CYLINDER #: 089
CYLINDER PRESSURE: 575 PSIG
DATE RUN: 8/29/17 12:00 AM
ANALYSIS RUN BY: CAMERON MANGAN

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: 09/27/2017

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 32-7 43M; INTRM CSG
Stn. No.:
Mtr. No.:

INTRM CASING

09/27/2017
35825-10005

Smpl Date: 08/17/2017
Test Date: 08/29/2017
Run No: HS170002

Nitrogen: 0.1721
CO2: 0.0012
Methane: 86.2482
Ethane: 8.8621
Propane: 2.8935
I-Butane: 0.5273
N-Butane: 0.6146
I-Pentane: 0.2472
N-Pentane: 0.1544
Hexane+: 0.2794

BTU: 1174.9
GPM: 18.4960
SPG: 0.6593