



JONES A LS 14

30-045-23768

Bradenhead Sample

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

Analysis No: SO180164
Cust No: 15950-11250

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JONES A LS #14; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: PC
Cust. Str. No.: API # 3004523768

Source: BRADENHEAD
Well Flowing: Y
Pressure: 71 PSIA
Flow Temp: DEG. F
Ambient Temp: 90 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/01/2018
Sample Time: 3:10 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): PESCO

Heat Trace: N

Remarks:

NMCOB
FEB 13 2013
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4291	1.4431	0.1580	0.00	0.0138
CO2	0.0056	0.0057	0.0010	0.00	0.0001
Methane	86.4399	87.2877	14.6930	873.04	0.4788
Ethane	6.0448	6.1041	1.6210	106.97	0.0628
Propane	3.5523	3.5871	0.9810	89.38	0.0541
Iso-Butane	0.7997	0.8075	0.2620	26.01	0.0160
N-Butane	0.9178	0.9268	0.2900	29.94	0.0184
I-Pentane	0.2964	0.2993	0.1090	11.86	0.0074
N-Pentane	0.2103	0.2124	0.0760	8.43	0.0052
Hexane Plus	0.3041	0.3071	0.1360	16.03	0.0101
Total	100.0000	100.9808	18.3270	1161.66	0.6667

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1164.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1167.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1147.4
DRY BTU @ 15.025: 1191.1
REAL SPECIFIC GRAVITY: 0.6684

CYLINDER #: 7016
CYLINDER PRESSURE: 69 PSIG
ANALYSIS DATE: 08/16/2018
ANALYSIS TIME: 12:54:01 AM
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

GC Method: C6+ Gas

Last Cal/Verify: 08/23/2018



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JONES A LS #14; BHD
Stn. No.: API # 3004523768
Mtr. No.:

BRADENHEAD
PC

08/23/2018
15950-11250

Smpl Date: 08/01/2018
Test Date: 08/16/2018
Run No: SO180164

Nitrogen: 1.4291
CO2: 0.0056
Methane: 86.4399
Ethane: 6.0448
Propane: 3.5523
I-Butane: 0.7997
N-Butane: 0.9178
I-Pentane: 0.2964
N-Pentane: 0.2103
Hexane+: 0.3041

BTU: 1167.7
GPM: 18.3270
SPG: 0.6684



JONES A LS 14
30-045-23768
Casing Sample

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

Analysis No: SO180165
Cust No: 15950-11255

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JONES A LS #14; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: PC
Cust. Stn. No.: API # 3004523768

Source: CASING
Well Flowing: Y
Pressure: 17 PSIA
Flow Temp: DEG. F
Ambient Temp: 90 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 08/01/2018
Sample Time: 3.16 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): PESCO

Heat Trace: N
Remarks:

NM000
FEB 13 2019
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4180	0.4173	0.0460	0.00	0.0040
CO2	0.5510	0.5501	0.0940	0.00	0.0084
Methane	87.7596	87.6144	14.9190	886.37	0.4861
Ethane	5.5350	5.5258	1.4840	97.95	0.0575
Propane	3.1464	3.1412	0.8690	79.17	0.0479
Iso-Butane	0.6392	0.6381	0.2100	20.79	0.0128
N-Butane	0.8064	0.8051	0.2550	26.31	0.0162
I-Pentane	0.3111	0.3106	0.1140	12.45	0.0077
N-Pentane	0.2133	0.2129	0.0780	8.55	0.0053
Hexane Plus	0.6200	0.6190	0.2770	32.68	0.0205
Total	100.0000	99.8345	18.3460	1164.26	0.6665

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1167.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1170.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1150.1
DRY BTU @ 15.025: 1193.9
REAL SPECIFIC GRAVITY: 0.6682

CYLINDER #: 7015
CYLINDER PRESSURE: 15 PSIG
ANALYSIS DATE: 08/16/2018
ANALYSIS TIME: 11:31:58 AM
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

GC Method: C6+ Gas

Last Cal/Verify: 08/23/2018



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JONES A LS #14; CSG
Stn. No.: API # 3004523768
Mtr. No.:

CASING
PC

08/23/2018
15950-11255

Smpl Date: 08/01/2018
Test Date: 08/16/2018
Run No: SO180165
Nitrogen: 0.4180
CO2: 0.5510
Methane: 87.7596
Ethane: 5.5350
Propane: 3.1464
I-Butane: 0.6392
N-Butane: 0.8064
I-Pentane: 0.3111
N-Pentane: 0.2133
Hexane+: 0.6200
BTU: 1170.5
GPM: 18.3460
SPG: 0.6682