



30-045-23425
Bradenhead
2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: SO170049
Cust No: 15950-10245

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: LINDSEY B 1 BHD
County/State: NM
Location:
Field:
Formation: DK
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 23 PSIG
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 07/12/2017
Sampled By: MATHEW YAZZIE
Foreman/Engr.: SABRE BEEBE

OIL CONS. DIV DIST. 3
AUG 09 2017

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	28.2623	3.1150	0.00	0.2734
CO2	0.3917	0.0670	0.00	0.0060
Methane	62.9471	10.6910	635.77	0.3487
Ethane	4.3200	1.1570	76.45	0.0449
Propane	1.4843	0.4100	37.35	0.0226
Iso-Butane	0.3337	0.1090	10.85	0.0067
N-Butane	0.3381	0.1070	11.03	0.0068
I-Pentane	0.3024	0.1110	12.10	0.0075
N-Pentane	0.2076	0.0750	8.32	0.0052
Hexane Plus	1.4128	0.6310	74.47	0.0468
Total	100.0000	16.4730	866.34	0.7684

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0021	CYLINDER #:	80746
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	870.2	CYLINDER PRESSURE:	22 PSIG
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	855.1	DATE RUN:	7/27/17 4:35 PM
REAL SPECIFIC GRAVITY:	0.7697	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: 08/01/2017

30-045-2342
Bradenhead



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: LINDSEY B 1 BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
DK

08/01/2017
15950-10245

Smpl Date: 07/12/2017
Test Date: 07/27/2017
Run No: SO170049

Nitrogen: 28.2623
CO2: 0.3917
Methane: 62.9471
Ethane: 4.3200
Propane: 1.4843
I-Butane: 0.3337
N-Butane: 0.3381
I-Pentane: 0.3024
N-Pentane: 0.2076
Hexane+: 1.4128

BTU: 870.2
GPM: 16.4730
SPG: 0.7697



30-045-23425

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

Analysis No: SO170050
Cust No: 15950-10240

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: LINDSEY B 001 CSG
County/State: NM
Location:
Field:
Formation: DK
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 117 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 07/12/2017
Sampled By: MATHEW YAZZIE
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1597	0.0180	0.00	0.0015
CO2	1.8638	0.3190	0.00	0.0283
Methane	91.2167	15.5020	921.29	0.5052
Ethane	3.6806	0.9870	65.14	0.0382
Propane	0.9510	0.2630	23.93	0.0145
Iso-Butane	0.3964	0.1300	12.89	0.0080
N-Butane	0.2803	0.0890	9.14	0.0056
I-Pentane	0.3038	0.1110	12.15	0.0076
N-Pentane	0.1606	0.0580	6.44	0.0040
Hexane Plus	0.9871	0.4410	52.03	0.0327
Total	100.0000	17.9180	1103.01	0.6456

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0027	CYLINDER #:	96846
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1108.6	CYLINDER PRESSURE:	101 PSIG
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1089.3	DATE RUN:	7/27/17 12:00 AM
REAL SPECIFIC GRAVITY:	0.6471	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: 08/01/2017

GC Method: C6+ Gas



30-045-2346
Casing

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: LINDSEY B 001 CSG
Stn. No.:
Mtr. No.:

CASING
DK

08/01/2017
15950-10240

Smpl Date: 07/12/2017
Test Date: 07/27/2017
Run No: SO170050

Nitrogen: 0.1597
CO2: 1.8638
Methane: 91.2167
Ethane: 3.6806
Propane: 0.9510
I-Butane: 0.3964
N-Butane: 0.2803
I-Pentane: 0.3038
N-Pentane: 0.1606
Hexane+: 0.9871

BTU: 1108.6
GPM: 17.9180
SPG: 0.6471



30-045-23425
tubing
2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: SO170051
Cust No: 15950-10235

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: LINDSEY B 001 TBG
County/State: NM
Location:
Field:
Formation: DK
Cust. Str. No.:

Source: TUBING
Well Flowing: Y
Pressure: 106 PSIG
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 07/12/2017
Sampled By: MATHEW YAZZIE
Foreman/Engr.: SABRE BEEBE

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1295	0.0140	0.00	0.0013
CO2	2.0380	0.3490	0.00	0.0310
Methane	92.6468	15.7400	935.73	0.5132
Ethane	3.4678	0.9290	61.37	0.0360
Propane	0.7497	0.2070	18.86	0.0114
Iso-Butane	0.2734	0.0900	8.89	0.0055
N-Butane	0.1656	0.0520	5.40	0.0033
I-Pentane	0.1388	0.0510	5.55	0.0035
N-Pentane	0.0690	0.0250	2.77	0.0017
Hexane Plus	0.3214	0.1440	16.94	0.0106
Total	100.0000	17.6010	1055.52	0.6174

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024	CYLINDER #:	7000
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1060.5	CYLINDER PRESSURE:	114 PSIG
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1042.0	DATE RUN:	7/27/17 4:38 PM
REAL SPECIFIC GRAVITY:	0.6187	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: 08/01/2017

GC Method: C6+ Gas



30-045-2346
tubing

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: LINDSEY B 001 TBG
Stn. No.:
Mtr. No.:

TUBING
DK

08/01/2017
15950-10235

Smpl Date: 07/12/2017
Test Date: 07/27/2017
Run No: SO170051
Nitrogen: 0.1295
CO2: 2.0380
Methane: 92.6468
Ethane: 3.4678
Propane: 0.7497
I-Butane: 0.2734
N-Butane: 0.1656
I-Pentane: 0.1388
N-Pentane: 0.0690
Hexane+: 0.3214
BTU: 1060.5
GPM: 17.6010
SPG: 0.6187