



NMOCD REC'D
10/12/20

Well Name: LINDSEY B 1; BHD
API #: API # 300452342500
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200157
Cust No: 15950-10245

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: LINDSEY B 1; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: DK
Cust. Stn. No.: API # 300452342500
93044

Source: BRADENHEAD
Well Flowing: Y
Pressure: 25 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 4.00 PM
Sampled By: TONY FELIX
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	30.6692	3.0126	3.3800	0.00	0.2966
CO2	0.1924	0.0189	0.0330	0.00	0.0029
Methane	61.8372	6.0742	10.5010	624.56	0.3425
Ethane	3.9245	0.3855	1.0510	69.45	0.0407
Propane	1.4863	0.1460	0.4100	37.40	0.0226
Iso-Butane	0.2209	0.0217	0.0720	7.18	0.0044
N-Butane	0.2433	0.0239	0.0770	7.94	0.0049
I-Pentane	0.1486	0.0146	0.0540	5.95	0.0037
N-Pentane	0.0509	0.0050	0.0180	2.04	0.0013
Hexane Plus	1.2267	0.1205	0.5480	64.66	0.0406
Total	100.0000	9.8229	16.1440	819.17	0.7603

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 821.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 822.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 808.3
DRY BTU @ 15.025: 839.1
REAL SPECIFIC GRAVITY: 0.7615

CYLINDER #: 25
CYLINDER PRESSURE: 23 PSIG
ANALYSIS DATE: 09/28/2020
ANALYSIS TIME: 02:47:06 PM
ANALYSIS RUN BY: PATRICIA KING

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: 09/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: LINDSEY B 1; BHD
Stn. No.: API #
Mtr. No.: 93044

BRADENHEAD
DK

09/29/2020
15950-10245

Smpl Date:	09/23/2020	07/12/2017
Test Date:	09/28/2020	07/12/2017
Run No:	SO200157	SO170049
Nitrogen:	30.6692	28.2623
CO2:	0.1924	0.3917
Methane:	61.8372	62.9471
Ethane:	3.9245	4.3200
Propane:	1.4863	1.4843
I-Butane:	0.2209	0.3337
N-Butane:	0.2433	0.3381
I-Pentane:	0.1486	0.3024
N-Pentane:	0.0509	0.2076
Hexane+:	1.2267	1.4128
BTU:	822.6	870.2
GPM:	16.1440	16.4730
SPG:	0.7615	0.7697



NMOCD REC'D
10/12/20

Well Name: LINDSEY B 1; CSG
API #: API # 300452342500
Source: CASING
Sample Type: GAS
Analysis No: SO200158
Cust No: 15950-12150

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: LINDSEY B 1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300452342500
93044

Source: CASING
Well Flowing: Y
Pressure: 80.4 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 4.15 PM
Sampled By: TONY FELIX
Sampled by (CO): ABC

Heat Trace: N
Remarks: CO-MINGLED TBG / CSG

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1540	0.1530	0.0170	0.00	0.0015
CO2	2.0263	2.0138	0.3470	0.00	0.0308
Methane	92.5926	92.0213	15.7310	935.19	0.5129
Ethane	3.5098	3.4881	0.9410	62.11	0.0364
Propane	0.7760	0.7712	0.2140	19.52	0.0118
Iso-Butane	0.2718	0.2701	0.0890	8.84	0.0055
N-Butane	0.1623	0.1613	0.0510	5.29	0.0033
I-Pentane	0.1308	0.1300	0.0480	5.23	0.0033
N-Pentane	0.0560	0.0557	0.0200	2.24	0.0014
Hexane Plus	0.3204	0.3184	0.1430	16.89	0.0106
Total	100.0000	99.3829	17.6010	1055.32	0.6174

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1057.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1060.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1041.9
DRY BTU @ 15.025: 1081.5
REAL SPECIFIC GRAVITY: 0.6186

CYLINDER #: 1422
CYLINDER PRESSURE: 72 PSIG
ANALYSIS DATE: 09/28/2020
ANALYSIS TIME: 02:59:51 PM
ANALYSIS RUN BY: PATRICIA KING

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: 09/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: LINDSEY B 1; CSG
Stn. No.: API #
Mtr. No.: 93044

CASING

09/29/2020
15950-12150

Smpl Date: 09/23/2020
Test Date: 09/28/2020
Run No: SO200158

Nitrogen: 0.1540
CO2: 2.0263
Methane: 92.5926
Ethane: 3.5098
Propane: 0.7760
I-Butane: 0.2718
N-Butane: 0.1623
I-Pentane: 0.1308
N-Pentane: 0.0560
Hexane+: 0.3204

BTU: 1060.3
GPM: 17.6010
SPG: 0.6186