Well Name: Heaton LS 004
API# 30 - 045 - 10349
Casing Sampled: Bradenhead
Sample Type Gas

Analysis No: SO190050
Cust No: 15950-10015

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	BRADENHEAD
Well Name:	HEATON LS 004; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	19.8 PSIA
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	68 DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	API 3004510349	Sample Method:	
		Sample Date:	06/13/2019
		Sample Time:	8.36 AM
		Sampled By:	
Heat Trace:	N	Sampled by (CO):	
Remarks:	PRESSURED WITH HELIUM TO 30LBS.		

NMOCD
DISTRICT III

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	16.1260	11.3430	1.7770	0.00	0.1560
CO2	0.0220	0.0155	0.0040	0.00	0.0003
Methane	81.4484	57.2907	13.8290	822.63	0.4511
Ethane	1.5381	1.0819	0.4120	27.22	0.0160
Propane	0.4379	0.3080	0.1210	11.02	0.0067
Iso-Butane	0.0699	0.0492	0.0230	2.27	0.0014
N-Butane	0.1079	0.0759	0.0340	3.52	0.0022
I-Pentane	0.0368	0.0259	0.0130	1.47	0.0009
N-Pentane	0.0297	0.0209	0.0110	1.19	0.0007
Hexane Plus	0.1833	0.1289	0.0820	9.66	0.0061
Total	100.0000	70.3399	16.3060	878.98	0.6414

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0018	CYLINDER #:	7061
BTU/CU.FT IDEAL:	881.0	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	882.6	ANALYIS DATE:	06/20/2019
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	867.2	ANALYIS TIME:	10:41:35 AM
DRY BTU @ 15.025:	900.3	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6423		

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: 06/25/2019**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	HEATON LS 004; BHD	BRADENHEAD	06/25/2019
Stn. No.:	API 3004510349	MV	15950-10015
Mtr. No.:			

Smpl Date:	06/13/2019	05/11/2017
Test Date:	06/20/2019	05/11/2017
Run No:	SO190050	SO170004
Nitrogen:	16.1260	16.7748
CO2:	0.0220	0.0170
Methane:	81.4484	81.0622
Ethane:	1.5381	1.4280
Propane:	0.4379	0.3700
I-Butane:	0.0699	0.0640
N-Butane:	0.1079	0.0950
I-Pentane:	0.0368	0.0380
N-Pentane:	0.0297	0.0400
Hexane+:	0.1833	0.1110
BTU:	882.6	871.0
GPM:	16.3060	16.2270
SPG:	0.6423	0.6416

Well Name: Heaton LS 004
API# 30 - 045 - 10349
Casing Sampled: Production
Sample Type GAS

Analysis No: SO190054
Cust No: 15950-10020

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	CASING
Well Name:	HEATON LS 004; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	239.3 PSIA
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	68 DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	API 3004510349	Sample Method:	
		Sample Date:	06/13/2019
		Sample Time:	8.41 AM
		Sampled By:	EUGENIA HAMILTON
Heat Trace:	N	Sampled by (CO):	PESCO
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3033	0.2968	0.0330	0.00	0.0029
CO2	0.2865	0.2804	0.0490	0.00	0.0044
Methane	77.9504	76.2900	13.2630	787.30	0.4318
Ethane	10.6271	10.4007	2.8520	188.07	0.1103
Propane	6.5795	6.4393	1.8190	165.55	0.1002
Iso-Butane	1.2150	1.1891	0.3990	39.51	0.0244
N-Butane	1.6934	1.6573	0.5360	55.24	0.0340
I-Pentane	0.5180	0.5070	0.1900	20.72	0.0129
N-Pentane	0.3987	0.3902	0.1450	15.98	0.0099
Hexane Plus	0.4281	0.4190	0.1920	22.57	0.0142
Total	100.0000	97.8698	19.4780	1294.94	0.7449

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0039	CYLINDER #:	7089
BTU/CU.FT IDEAL:	1297.9	CYLINDER PRESSURE:	77 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1303.0	ANALYIS DATE:	06/21/2019
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1280.3	ANALYIS TIME:	09:49:08 AM
DRY BTU @ 15.025:	1329.1	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.7475		

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: 06/25/2019**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	HEATON LS 004; CSG	CASING	06/25/2019
Stn. No.:	API 3004510349	MV	15950-10020
Mtr. No.:			

Smpl Date:	06/13/2019	05/11/2017
Test Date:	06/21/2019	05/11/2017
Run No:	SO190054	SO170005
Nitrogen:	0.3033	0.2890
CO2:	0.2865	0.5370
Methane:	77.9504	78.6824
Ethane:	10.6271	10.0288
Propane:	6.5795	5.6299
I-Butane:	1.2150	1.0860
N-Butane:	1.6934	1.6840
I-Pentane:	0.5180	0.6490
N-Pentane:	0.3987	0.5370
Hexane+:	0.4281	0.8770
BTU:	1303.0	1305.9
GPM:	19.4780	19.4770
SPG:	0.7475	0.7534

Well Name: Heaton LS 004
API# 30 - 045 - 10349
Casing Sampled: Tubing
Sample Type Gas

Analysis No: SO190055
Cust No: 15950-10025

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	TUBING
Well Name:	HEATON LS 004; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	155.7 PSIA
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	68 DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	API # 3004510349	Sample Method:	
		Sample Date:	06/13/2019
		Sample Time:	8.36 AM
		Sampled By:	EUGENIA HAMILTON
Heat Trace:	N	Sampled by (CO):	PESCO
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2740	0.2690	0.0300	0.00	0.0027
CO2	0.7765	0.7622	0.1330	0.00	0.0118
Methane	82.1553	80.6427	13.9720	829.77	0.4551
Ethane	10.0636	9.8783	2.7000	178.10	0.1045
Propane	4.0429	3.9685	1.1170	101.72	0.0616
Iso-Butane	0.5630	0.5526	0.1850	18.31	0.0113
N-Butane	0.9254	0.9084	0.2930	30.19	0.0186
I-Pentane	0.2948	0.2894	0.1080	11.79	0.0073
N-Pentane	0.2432	0.2387	0.0880	9.75	0.0061
Hexane Plus	0.6613	0.6491	0.2960	34.86	0.0219
Total	100.0000	98.1589	18.9220	1214.49	0.7007

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0034	CYLINDER #:	7010
BTU/CU.FT IDEAL:	1217.3	CYLINDER PRESSURE:	161 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1221.4	ANALYIS DATE:	06/20/2019
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1200.1	ANALYIS TIME:	02:11:38 PM
DRY BTU @ 15.025:	1245.9	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7028		

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: 06/25/2019**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	HEATON LS 004; TBG	TUBING	06/25/2019
Stn. No.:	API # 3004510349	MV	15950-10025
Mtr. No.:			

Smpl Date:	06/13/2019	05/11/2017
Test Date:	06/20/2019	05/11/2017
Run No:	SO190055	SO170006
Nitrogen:	0.2740	0.3210
CO2:	0.7765	0.8230
Methane:	82.1553	82.7513
Ethane:	10.0636	9.1038
Propane:	4.0429	3.8509
I-Butane:	0.5630	0.6200
N-Butane:	0.9254	1.1550
I-Pentane:	0.2948	0.4580
N-Pentane:	0.2432	0.3460
Hexane+:	0.6613	0.5710
BTU:	1221.4	1220.8
GPM:	18.9220	18.8730
SPG:	0.7028	0.7037