NMOCD REC'D
10/12/20

Well Name: NEBU 229J; BHD
API #: API # 300453278500
Source: BRADENHEAD
Sample Type: GAS

Analysis No: SO200105
Cust No: 15950-11905

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	BRADENHEAD
Well Name:	NEBU 229J; BHD	Well Flowing:	N
County/State:	NM	Pressure:	19 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 300453278500	Sample Method:	Purge & Fill
		Sample Date:	08/21/2020
		Sample Time:	10.15 AM
		Sampled By:	SEAN CASAUS
Heat Trace:	N	Sampled by (CO):	ABC
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	99.4822	48.1470	10.9450	0.00	0.9622
CO2	0.0095	0.0046	0.0020	0.00	0.0001
Methane	0.4479	0.2168	0.0760	4.52	0.0025
Ethane	0.0132	0.0064	0.0040	0.23	0.0001
Propane	0.0116	0.0056	0.0030	0.29	0.0002
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0025	0.0012	0.0010	0.08	0.0001
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0331	0.0160	0.0150	1.74	0.0011
Total	100.0000	48.3976	11.0460	6.88	0.9663

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

COMPRESSIBLITY FACTOR (1/Z):	1.0003	CYLINDER #:	1270
BTU/CU.FT IDEAL:	6.9	CYLINDER PRESSURE:	19 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	6.9	ANALYIS DATE:	08/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	6.8	ANALYIS TIME:	01:51:02 AM
DRY BTU @ 15.025:	7.0	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.9662		

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: 09/03/2020**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	NEBU 229J; BHD	BRADENHEAD	09/03/2020
Stn. No.:	API #		15950-11905
Mtr. No.:			

Smpl Date:	08/21/2020
Test Date:	08/26/2020
Run No:	SO200105
Nitrogen:	99.4822
CO2:	0.0095
Methane:	0.4479
Ethane:	0.0132
Propane:	0.0116
I-Butane:	0.0000
N-Butane:	0.0025
I-Pentane:	0.0000
N-Pentane:	0.0000
Hexane+:	0.0331
BTU:	6.9
GPM:	11.0460
SPG:	0.9662

NMOCD REC'D
10/12/20

Well Name: NEBU 229J; CSG
API #: API # 300453278500
Source: CASING
Sample Type: GAS

Analysis No: SO200106
Cust No: 15950-11910

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	CASING
Well Name:	NEBU 229J; CSG	Well Flowing:	Y
County/State:	NM	Pressure:	76 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 300453278500	Sample Method:	Purge & Fill
		Sample Date:	08/21/2020
		Sample Time:	10.20 AM
		Sampled By:	SEAN C.
Heat Trace:	N	Sampled by (CO):	ABC
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1969	0.1929	0.0220	0.00	0.0019
CO2	0.4530	0.4438	0.0780	0.00	0.0069
Methane	82.5856	80.9063	14.0460	834.11	0.4574
Ethane	8.9255	8.7440	2.3950	157.95	0.0927
Propane	4.2851	4.1980	1.1840	107.82	0.0652
Iso-Butane	0.7414	0.7263	0.2430	24.11	0.0149
N-Butane	1.0576	1.0361	0.3350	34.50	0.0212
I-Pentane	0.3632	0.3558	0.1330	14.53	0.0090
N-Pentane	0.2968	0.2908	0.1080	11.90	0.0074
Hexane Plus	1.0949	1.0726	0.4900	57.71	0.0362
Total	100.0000	97.9666	19.0340	1242.64	0.7129

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

COMPRESSIBLITY FACTOR (1/Z):	1.0035	CYLINDER #:	1421
BTU/CU.FT IDEAL:	1245.5	CYLINDER PRESSURE:	70 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1249.9	ANALYIS DATE:	08/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1228.2	ANALYIS TIME:	01:35:48 PM
DRY BTU @ 15.025:	1274.9	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7151		

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: 09/03/2020**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	NEBU 229J; CSG	CASING	09/03/2020
Stn. No.:	API #		15950-11910
Mtr. No.:			

Smpl Date:	08/21/2020
Test Date:	08/26/2020
Run No:	SO200106
Nitrogen:	0.1969
CO2:	0.4530
Methane:	82.5856
Ethane:	8.9255
Propane:	4.2851
I-Butane:	0.7414
N-Butane:	1.0576
I-Pentane:	0.3632
N-Pentane:	0.2968
Hexane+:	1.0949
BTU:	1249.9
GPM:	19.0340
SPG:	0.7151

NMOCD REC'D
10/12/20

Well Name: NEBU 229J; TBG
API #: API # 300453278500
Source: TUBING
Sample Type: GAS

Analysis No: SO200107
Cust No: 15950-11915

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	TUBING
Well Name:	NEBU 229J; TBG	Well Flowing:	Y
County/State:	NM	Pressure:	70 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 300453278500	Sample Method:	Purge & Fill
		Sample Date:	08/21/2020
		Sample Time:	10.25 AM
		Sampled By:	SEAN C.
Heat Trace:	N	Sampled by (CO):	ABC
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2225	0.2173	0.0250	0.00	0.0022
CO2	0.4729	0.4618	0.0810	0.00	0.0072
Methane	83.2402	81.2816	14.1550	840.73	0.4611
Ethane	8.9451	8.7346	2.4000	158.30	0.0929
Propane	4.2133	4.1142	1.1640	106.01	0.0641
Iso-Butane	0.7069	0.6903	0.2320	22.99	0.0142
N-Butane	0.9827	0.9596	0.3110	32.06	0.0197
I-Pentane	0.3049	0.2977	0.1120	12.20	0.0076
N-Pentane	0.2342	0.2287	0.0850	9.39	0.0058
Hexane Plus	0.6773	0.6614	0.3030	35.70	0.0224
Total	100.0000	97.6472	18.8680	1217.37	0.6972

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

COMPRESSIBLITY FACTOR (1/Z):	1.0033	CYLINDER #:	1426
BTU/CU.FT IDEAL:	1220.2	CYLINDER PRESSURE:	64 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1224.2	ANALYIS DATE:	08/26/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1202.9	ANALYIS TIME:	02:00:26 AM
DRY BTU @ 15.025:	1248.7	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6992		

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: 09/03/2020**
GC Method: C6+ Gas

BP - SOUTH BHD PROJECT

WELL ANALYSIS COMPARISON

Lease:	NEBU 229J; TBG	TUBING	09/03/2020
Stn. No.:	API #		15950-11915
Mtr. No.:			

Smpl Date:	08/21/2020
Test Date:	08/26/2020
Run No:	SO200107
Nitrogen:	0.2225
CO2:	0.4729
Methane:	83.2402
Ethane:	8.9451
Propane:	4.2133
I-Butane:	0.7069
N-Butane:	0.9827
I-Pentane:	0.3049
N-Pentane:	0.2342
Hexane+:	0.6773
BTU:	1224.2
GPM:	18.8680
SPG:	0.6992