



NMOCD REC'D
10/12/20

Well Name: EE ELLIOTT A1; CSG
API #: API # 300450947100
Source: CASING
Sample Type: GAS
Analysis No: SO200029
Cust No: 15950-11650

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: EE ELLIOTT A1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300450947100

Source: CASING
Well Flowing: Y
Pressure: 38.4 PSIG
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/17/2020
Sample Time: 12.19 PM
Sampled By: JASON M.
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1808	0.1767	0.0200	0.00	0.0017
CO2	1.7802	1.7403	0.3050	0.00	0.0271
Methane	81.1026	79.2832	13.7970	819.14	0.4492
Ethane	8.6993	8.5041	2.3350	153.95	0.0903
Propane	4.1400	4.0471	1.1440	104.17	0.0630
Iso-Butane	0.7884	0.7707	0.2590	25.64	0.0158
N-Butane	1.2259	1.1984	0.3880	39.99	0.0246
I-Pentane	0.4682	0.4577	0.1720	18.73	0.0117
N-Pentane	0.3618	0.3537	0.1320	14.50	0.0090
Hexane Plus	1.2528	1.2247	0.5610	66.04	0.0415
Total	100.0000	97.7566	19.1130	1242.16	0.7339

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1245.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1249.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1228.0
DRY BTU @ 15.025: 1274.7
REAL SPECIFIC GRAVITY: 0.7364

CYLINDER #: 1419
CYLINDER PRESSURE: 37 PSIG
ANALYSIS DATE: 06/22/2020
ANALYSIS TIME: 02:55:52 PM
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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: EE ELLIOTT A1; CSG
Stn. No.: API #
Mtr. No.:

CASING

06/25/2020
15950-11650

Smpl Date: 06/17/2020
Test Date: 06/22/2020
Run No: SO200029

Nitrogen: 0.1808
CO2: 1.7802
Methane: 81.1026
Ethane: 8.6993
Propane: 4.1400
I-Butane: 0.7884
N-Butane: 1.2259
I-Pentane: 0.4682
N-Pentane: 0.3618
Hexane+: 1.2528

BTU: 1249.7
GPM: 19.1130
SPG: 0.7364



NMOCD REC'D
10/12/20

Well Name: EE ELLIOTT A1; INT
API #: API # 300450947100
Source: INTERMEDIATE CASING
Sample Type: GAS
Analysis No: SO200030
Cust No: 15950-11655

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	INTERMEDIATE CASING
Well Name:	EE ELLIOTT A1; INT	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	39.1 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	84 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 300450947100	Sample Method:	
		Sample Date:	06/17/2020
		Sample Time:	12.27 PM
		Sampled By:	JASON M.
		Sampled by (CO):	ABC

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1706	0.1651	0.0190	0.00	0.0017
CO2	1.7237	1.6683	0.2950	0.00	0.0262
Methane	81.1018	78.4937	13.7970	819.13	0.4492
Ethane	8.7222	8.4417	2.3410	154.36	0.0906
Propane	4.2269	4.0910	1.1690	106.35	0.0644
Iso-Butane	0.8307	0.8040	0.2730	27.01	0.0167
N-Butane	1.2550	1.2146	0.3970	40.94	0.0252
I-Pentane	0.4736	0.4584	0.1740	18.95	0.0118
N-Pentane	0.3645	0.3528	0.1330	14.61	0.0091
Hexane Plus	1.1310	1.0946	0.5060	59.62	0.0374
Total	100.0000	96.7842	19.1040	1240.97	0.7321

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0037	CYLINDER #:	0101
BTU/CU.FT IDEAL:	1243.8	CYLINDER PRESSURE:	38 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1248.5	ANALYSIS DATE:	06/22/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1226.8	ANALYSIS TIME:	03:07:01 PM
DRY BTU @ 15.025:	1273.5	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	0.7346		

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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: EE ELLIOTT A1; INT
Stn. No.: API #
Mtr. No.:

INTERMEDIATE CASING

06/25/2020
15950-11655

Smpl Date: 06/17/2020
Test Date: 06/22/2020
Run No: SO200030

Nitrogen: 0.1706
CO2: 1.7237
Methane: 81.1018
Ethane: 8.7222
Propane: 4.2269
I-Butane: 0.8307
N-Butane: 1.2550
I-Pentane: 0.4736
N-Pentane: 0.3645
Hexane+: 1.1310

BTU: 1248.5
GPM: 19.1040
SPG: 0.7346



NMOCD REC'D
10/12/20

Well Name: EE ELLIOTT A1; TBG
API #: API # 300450947100
Source: TUBING
Sample Type: GAS
Analysis No: SO200031
Cust No: 15950-11660

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: EE ELLIOTT A1; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300450947100

Source: TUBING
Well Flowing: Y
Pressure: 34 PSIG
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/17/2020
Sample Time: 12.10 PM
Sampled By: JASON M.
Sampled by (CO): ABC

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3130	0.3111	0.0350	0.00	0.0030
CO2	1.9498	1.9379	0.3340	0.00	0.0296
Methane	79.7595	79.2736	13.5700	805.57	0.4418
Ethane	9.0637	9.0085	2.4330	160.40	0.0941
Propane	4.4528	4.4257	1.2310	112.04	0.0678
Iso-Butane	0.8769	0.8716	0.2880	28.52	0.0176
N-Butane	1.4037	1.3952	0.4440	45.79	0.0282
I-Pentane	0.5488	0.5455	0.2010	21.96	0.0137
N-Pentane	0.4311	0.4285	0.1570	17.28	0.0107
Hexane Plus	1.2007	1.1934	0.5370	63.29	0.0397
Total	100.0000	99.3910	19.2300	1254.85	0.7463

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT IDEAL: 1257.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1262.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1240.5
DRY BTU @ 15.025: 1287.8
REAL SPECIFIC GRAVITY: 0.7488

CYLINDER #: 28
CYLINDER PRESSURE: 34 PSIG
ANALYSIS DATE: 06/18/2020
ANALYSIS TIME: 04:18:56 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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: EE ELLIOTT A1; TBG
Stn. No.: API #
Mtr. No.:

TUBING

06/25/2020
15950-11660

Smpl Date: 06/17/2020
Test Date: 06/18/2020
Run No: SO200031

Nitrogen: 0.3130
CO2: 1.9498
Methane: 79.7595
Ethane: 9.0637
Propane: 4.4528
I-Butane: 0.8769
N-Butane: 1.4037
I-Pentane: 0.5488
N-Pentane: 0.4311
Hexane+: 1.2007

BTU: 1262.5
GPM: 19.2300
SPG: 0.7488