



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

17 August 2018

Sabre Beebe BP America 380 Airport Rd. Durango, CO 81303

RE: API

Enclosed are the results of analyses for samples received by the laboratory on 08/06/18 16:40. If you need any further assistance, please feel free to contact me.

Sincerely,

Jereny S. all

Jeremy D Allen For Debbie Zufelt Reports Manager MMOGB FEB 1 3 2019

DISTRICT III

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



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BP America

Project: API

380 Airport Rd.

Project Name / Number: Bradenhead
Project Manager: Sabre Beebe

Reported:

Durango CO, 81303

08/17/18 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Florance 117	1808061-01	Water	08/06/18 09:12	08/06/18 16:40

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Jereny D. all



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BP America

Project: API

380 Airport Rd. Durango CO, 81303 Project Name / Number: Bradenhead
Project Manager: Sabre Beebe

Reported:

08/17/18 16:04

Florance 117

1808061-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analys
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	<10.0	10.0		mg/L	1	08/13/18	2320 B		JDU
Alkalinity, Carbonate as CaCO3*	54.0	10.0		mg/L	1	08/13/18	2320 B		JDU
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	1	08/13/18	2320 B		JDU
Alkalinity, Total as CaCO3*	63.0	10.0		mg/L	1	08/13/18	2320 B		JDU
Chloride*	<250	250	48.2	mg/L	250	08/16/18	EPA300.0		AES
Conductivity*	17900	10.0		uS/cm	1	08/09/18	2510 B		JDU
H*	9.83			pH Units	1	08/07/18	EPA150.1		JDU
Resistivity	55.9			ohm/cm	1	08/13/18	2510 B		JDU
Total Dissolved Solids*	13000	20.0		mg/L	2	08/13/18	EPA160.1		JDU
Specific Gravity	1.013	0.8000		No Unit	1	08/13/18	Hydrometer		JDU
ulfate*	9840	250	73.8	mg/L	250	08/16/18	EPA300.0		AES
Total Recoverable Metals by ICP (E200.	7)								
ron*	3.09	2.50	0.871	mg/L	50	08/16/18	EPA200.7		AES
Dissolved Metals by ICP									
Hardness	155	33.1	5.46	mg/L	50	08/16/18	2340 B		AES
Barium*	<1.00	1.00	0.104	mg/L	50	08/16/18	EPA200.7		AES
Calcium*	62.0	5.00	0.642	mg/L	50	08/16/18	EPA200.7		AES
ron*	< 2.50	2.50	1.38	mg/L	50	08/16/18	EPA200.7		AES
Magnesium*	< 5.00	5.00	0.938	mg/L	50	08/16/18	EPA200.7		AES
/langanese*	<1.00	1.00	0.134	mg/L	50	08/16/18	EPA200.7		AES
otassium*	< 50.0	50.0	4.78	mg/L	50	08/16/18	EPA200.7		AES
Sodium*	4460	50.0	18.3	mg/L	50	08/16/18	EPA200.7		AES
Strontium*	9.18	5.00	0.144	mg/L	50	08/16/18	EPA200.7		AES

Cation/Anion Balance

-3.21

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Jereny D. all



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BP America 380 Airport Rd. Durango CO, 81303 Project: API

Project Name / Number: Bradenhead
Project Manager: Sabre Beebe

Reported: 08/17/18 16:04

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B808077 - General Prep - Wet Chem										
Reference (B808077-SRM1)			Prepa	ared & Anal	lyzed: 08/07	7/18				
рН	8.72		pH Units	8.91		97.9	97.8-102.2			
Batch B808079 - General Prep - Wet Chem										
Reference (B808079-SRM1)			Prepa	ared & Anal	lyzed: 08/09	0/18				
Conductivity	486	10.0	uS/cm	491		99.0	90-110.1			
Batch B808089 - General Prep - Wet Chem										
Blank (B808089-BLK1)			Prepa	ared: 08/10/	18 Analyze	ed: 08/13/1	8			
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B808089-SRM1)			Prepa	ared: 08/10/	18 Analyze	ed: 08/13/1	8			
Total Dissolved Solids	370	10.0	mg/L	380		97.4	85-115			
Batch B808098 - General Prep - Wet Chem										
Blank (B808098-BLK1)			Prepa	ared & Anal	lyzed: 08/13	3/18				
Alkalinity, Total as CaCO3	ND	10.0	mg/L							
LCS (B808098-BS1)			Prepa	ared & Anal	lyzed: 08/13	5/18				
Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115			
LCS Dup (B808098-BSD1)			Prepa	ared & Anal	lyzed: 08/13	5/18				
Alkalinity, Total as CaCO3	111	10.0	mg/L	100		111	85-115	10.4	20	
Batch B808143 - General Prep - Wet Chem										
Blank (B808143-BLK1)			Prepa	ared & Anal	lyzed: 08/15	5/18				
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B808143-BS1)			Prepa	ared & Anal	lyzed: 08/15	/18				
Chloride	22.9	1.00	mg/L	25.0		91.6	90-110			
Sulfate	23.2	1.00	mg/L	25.0		92.9	90-110			
LCS Dup (B808143-BSD1)			Prepa	ared: 08/15/	18 Analyze	ed: 08/16/1	8			
Chloride	23.8	1.00	mg/L	25.0		95.1	90-110	3.75	20	
Sulfate	24.0	1.00	mg/L	25.0		95.8	90-110	3.16	20	

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BP America

Project: API

380 Airport Rd.

Project Name / Number: Bradenhead

Reported:

Durango CO, 81303

Project Manager: Sabre Beebe 08/17/18 16:04

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B808075 - Total Rec. 200.7/200.				20101		,,,,,				
Batch B8080/5 - Total Rec. 200. //200.	.8/200.2									
Blank (B808075-BLK1)			Prep	ared: 08/09/	18 Analyz	ed: 08/15/1	8			
Iron	ND	0.050	mg/L							
LCS (B808075-BS1)			Prep	ared: 08/09/	18 Analyz	ed: 08/15/1	8			
Iron	4.26	0.050	mg/L	4.00		106	85-115			
LCS Dup (B808075-BSD1)			Prep	ared: 08/09/	18 Analyz	ed: 08/15/1	8			
Iron	4.36	0.050	mg/L	4.00		109	85-115	2.52	20	

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380 Airport Rd. Project Name / Number: Bradenhead

Durango CO, 81303 Project Manager: Sabre Beebe

Reported: 08/17/18 16:04

Dissolved Metals by ICP - Quality Control

Project: API

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch B808081 - Diss. 200.7/200.8										
Blank (B808081-BLK1)			Prep	ared: 08/10/	18 Analyze	ed: 08/16/1	8			
Barium	ND	0.020	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Manganese	ND	0.020	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
LCS (B808081-BS1)			Prep	ared: 08/10/	18 Analyze	ed: 08/15/1	8			
Barium	2.43	0.020	mg/L	2.50		97.0	85-115			
Calcium	5.02	0.100	mg/L	5.00		100	85-115			
Iron	4.87	0.050	mg/L	5.00		97.4	85-115			
Magnesium	24.7	0.100	mg/L	25.0		98.9	85-115			
Manganese	2.45	0.020	mg/L	2.50		97.9	85-115			
Potassium	10.1	1.00	mg/L	10.0		101	85-115			
Sodium	3.79	1.00	mg/L	4.05		93.7	85-115			
Strontium	4.94	0.100	mg/L	5.00		98.7	85-115			
LCS Dup (B808081-BSD1)			Prep	ared: 08/10/	18 Analyze	ed: 08/15/1	8			
Barium	2.48	0.020	mg/L	2.50		99.2	85-115	2.17	20	
Calcium	5.06	0.100	mg/L	5.00		101	85-115	0.651	20	
Iron	4.93	0.050	mg/L	5.00		98.6	85-115	1.22	20	
Magnesium	25.1	0.100	mg/L	25.0		100	85-115	1.31	20	
Manganese	2.48	0.020	mg/L	2.50		99.2	85-115	1.27	20	
Potassium	10.2	1.00	mg/L	10.0		102	85-115	0.933	20	
Sodium	3.83	1.00	mg/L	4.05		94.4	85-115	0.789	20	
Strontium	5.02	0.100	mg/L	5.00		100	85-115	1.64	20	

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BP America

Project: API

380 Airport Rd.

Durango CO, 81303

Project Name / Number: Bradenhead

Project Manager: Sabre Beebe

Reported:

08/17/18 16:04

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

*Results reported on as received basis unless designated as dry.

Relative Percent Difference

RPD LCS

Laboratory Control Sample (Blank Spike)

RL

Report Limit

MDL

Method Detection Limit

Green Analytical Laboratories

Jeren D. all

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(970) 247-4220

service@greenanalytical.com or dzufelt@greenanalytical.com

Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Contact Person: SABRE BEEBE Address: Company: City: State: Zip: Adtr. Phone #: 946-947-9494 970-779-9398 Email: Sabre. beebe@8P.cm Project Name(optional): Braden head Project Name(optional): Sampler Name (Print): Scott William bear of Collected Matrix (check one) Braden head Phone #: Email: Email: Sampler Name (Print): Scott William bear of Collected Matrix (check one) Braden for Collected for Co	Company Name (If	Applicable): BP AMER	Charles and the second	(370) 247-4227	7000				Name and Address of the Owner, where the Owner, which the	to (CONTRACTOR .	ent)	;			-		Al	NAL	/SIS	REQ	JEST		
Address: City: State: Zip: Adm Sabre. bee be a 8P. cm City: State: Zip: Phone #: 9F0-94F-94N-9 Phone #: 9F0-94F-94N-9 Phone #: 9F0-94N-94N-9 Phone #: 9F0-94N-94N-94N-94N-94N-94N-94N-94N-94N-94N	Contact Person: 5	ABRE BEEBE				P.O. #:							T	T											
Phone #: 946-347-347-34 470 - 774 - 9398 Email: Sabre, bee 6 @ BP. cm Project Name(potanal): Braden head Collected Matrix (check one) # of containers Braden Hamilton Braden Hamilton Hamil						Con	npa	ny:																	
Phone 8: 970-179-9398 Email: Scabre, beeb @ P. cm Cary:	City:		State:	Zip:		Attı	n:																		
Email: Sabre. beebe BP. cm Project Name (print): Scott State: St		478 470-779-	9398			Add	ires	is:																	
Project Name (potional): Sampler Name (Print): \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					City	<i>/</i> :																			
Procest Number(optional): Sampler Name (Print): Scott William Scott Wil						Stat	te:		Z	ip:															
For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date For Lab Use Sample Name or Location Date Time For Lab Use Sample Name or Location Date For Lab Use Sample Name For Lab Use For L					Pho	one	#:																		
For Lab Use Sample Name or Location Date Time 8-6-18 9:1240 Date Time 90:100 N N N N N N N N N N N N N N N N N N			()			Em.	ail:																		
PARAMENOTE: CALL a statisty and other's scalable remody for any claim winking whether based in centered or but, shall be limited to the amount paid by the client for the analyses. All claims lockship than for registeries and any other cause arbitratewer shall be discontant or connect general dismages, including whitered limitation, business interruptions, loss of profits incurred by client, its administrators are registeries and any other cause arbitratewer shall be discontant or connect general dismages, including whitered fination, business interruptions, loss of profits incurred by client, its administrators are registeries and any other cause arbitratewer while the discontant or connect general dismages, including whitered fination, business interruptions, loss of profits incurred by client, its administrators are registeries. Relinquished By: Received By: Time: ADDITIONAL REMARKS: Report to State? (Circle) Yes No Received By: Time: ADDITIONAL REMARKS: Received By: Time: Yes No Received By: Time: Yes No Received By: Time: Yes No			A CONTRACTOR OF THE PARTY OF TH	Colle	cted								# of c	contai	ner	5									
PLEASE NOTE: CAL's liability and dear's exclusive remody for any claim sining whether based in centered or text, shall be limited to the amount point by the client for the analyses. At claims including from for regularize and any other cause whitescener shall be deemed waved unless made in writing and received by CAL specified with the desired and CAL be liable for incidental or consequented damages, including without finitiation, business interruptions, loss of use, or loss of profits incurred by client, the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless on white ground without successors writing out of or related to the performance of services hereunder by CAL regardless on white ground white subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless on the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless of the subsidiaries, efflicities or successors writing out of or related to the performance of services hereunder by CAL regardless or successors writing out of or related to the performance of services hereunder by CAL regardless or successors writing out of or related to the performance of services hereunder by CAL regardless or successors wri			Location	Date	Time	GROUNDWATER	DRINKING WATER	SURFACEWATER	WASTEWATER	SOIL	OTHER:	No preservation (general)	HNO3	HCI H ₂ SO ₄	Other.	Other.	API Water Quality								
by GAL within 30 days after completion. In no evert shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received By:	1808-061-01	FLORANCE 117		8-6-18	9:12Am														-		-	-	-	-	
by GAL within 30 days after completion. In no event shall GAL be liable for incidental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received By: ADDITIONAL REMARKS: Report to State? (Circle) Yes No Received By: Time: ADDITIONAL REMARKS: Report to State? (Circle) Yes No Received By: Time: Tim																									
Relinquished By: Received By:	by GAL within 30 days after comp	letion. In no event shall GAL be liable for incidental	or consequental damages, incl	shall be limited to the amou luding without limitation, bu	unt paid by the client fo siness interruptions, lo	or the a	analys se, or	ies. Ali ioss a	claims profits	including incurred	g those by clie	for neg	gigeno subsidia	and and	other ates o	Cause r succe	whatsoe	ver shall b	e deeme f or relate	d waived a	unless mad erformance	e of services	and receiv	ed r	
	Relinquished By: Relinquished By: Relinquished By: Relinquished By:	ch daim is based upon any of the above stated reas	Date: 0/18	Received Bv: Received Bv:		~	-	On the second	0/0	55	7			ADDIT	ION	AL RI	EMARI	S:		,	Report	to State		COLUMN TO SERVICE	
Sampler - UPS - FedEx - Kangaroo - Other:	Delivered By: (Ci	rcle One)	0850		3 Tempsrate	ire at	t rec	iept:	-	СНЕ	ECKE	D BY		33	1	3. a	10	DE	20						

[†] GAL cannot always accept verbal changes. Please fax or email written change requests.

* Chain of Custody must be signed in "Reliquished By:" as an acceptance of services and all applicable charges.



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

Analysis No: SO180162 Cust No: 15950-11240

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT

Well Name:

FLORANCE #117;CSG

County/State:

SAN JUAN NM

Location:

Field:

Formation: PC

Cust. Stn. No.:

10

API # 3004523827

nmugu

FEB 1 3 2013

DISTRICT III

Source: CASING

Well Flowing: Y

Pressure: 129 PSIA Flow Temp: DEG. F

Ambient Temp: 78 DEG. F Flow Rate: MCF/D

Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/06/2018

Sample Date: Sample Time:

9.20 AM SCOTT WILLARD

Sampled By: SCOTT W Sampled by (CO): PESCO

Heat Trace:

N

Remarks:

Analysis

		Analysis	5		
Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3824	0.3804	0.0420	0.00	0.0037
CO2	1.4294	1.4218	0.2450	0.00	0.0217
Methane	78.2659	77.8475	13.3150	790.49	0.4335
Ethane	11.0317	10.9728	2.9610	195.23	0.1145
Propane	4.6061	4.5815	1.2730	115.89	0.0701
Iso-Butane	1.0372	1.0317	0.3410	33.73	0.0208
N-Butane	1.2927	1.2858	0.4090	42.17	0.0259
I-Pentane	0.6313	0.6279	0.2320	25.26	0.0157
N-Pentane	0.4204	0.4182	0.1530	16.85	0.0105
Hexane Plus	0.9029	0.8981	0.4040	47.59	0.0299
Total	100.0000	99.4657	19.3750	1267.21	0.7464

^{* @ 14.730} PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

^{**@ 14.730} PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.0038	CYLINDER #:	7083
BTU/CU.FT IDEAL:		1270.1	CYLINDER PRESSURE:	118 PSIG
BTU/CU.FT (DRY) CORRECTED	FOR (1/Z):	1275.0	ANALYIS DATE:	08/16/2018
BTU/CU.FT (WET) CORRECTED	FOR (1/Z):	1252.8	ANALYIS TIME:	12:15:00 AM
DRY BTU @ 15.025:		1300.5	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:		0.749		

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: 08/23/2018

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT WELL ANALYSIS COMPARISON

Lease:

FLORANCE #117;CSG

Stn. No.: API # 3004523827

Mtr. No.:

CASING

PC

08/23/2018

15950-11240

Smpl Date: 08/06/2018 Test Date: 08/16/2018 Run No: SO180162 Nitrogen: 0.3824 CO2: 1.4294 Methane: 78.2659 Ethane: 11.0317 Propane: 4.6061 I-Butane: 1.0372 N-Butane: 1.2927 I-Pentane: 0.6313 N-Pentane: 0.4204 Hexane+: 0.9029 BTU: 1275.0 GPM: 19.3750 SPG: 0.7490



FLORANCE 117 30-045-23827 Tubing SAMPLE

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

Analysis No: SO180163 Cust No: 15950-11245

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT

Well Name:

FLORANCE #117; TBG

County/State:

SAN JUAN NM

Location:

Field:

Formation:

PC

N

Cust. Stn. No.:

Heat Trace:

Remarks:

API # 3004523827

FEB 13 2013

DISTRICT III

Source:

TUBING

Well Flowing:

Pressure:

Flow Temp:

127 PSIA DEG. F

Ambient Temp:

78 DEG. F

Flow Rate:

MCF/D

Sample Method: Purge & Fill

08/06/2018

Sample Date: Sample Time:

9.30 AM

Sampled By:

SCOTT WILLARD

Sampled by (CO): PESCO

Analysis

		Analysis			
Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4117	0.4090	0.0450	0.00	0.0040
CO2	1.4072	1.3979	0.2410	0.00	0.0214
Methane	78.7300	78.2124	13.3940	795.17	0.4361
Ethane	10.8203	10.7492	2.9040	191.49	0.1123
Propane	4.5795	4.5494	1.2660	115.22	0.0697
Iso-Butane	1.0174	1.0107	0.3340	33.08	0.0204
N-Butane	1.2582	1.2499	0.3980	41.05	0.0252
I-Pentane	0.5626	0.5589	0.2060	22.51	0.0140
N-Pentane	0.3787	0.3762	0.1380	15.18	0.0094
Hexane Plus	0.8344	0.8289	0.3730	43.98	0.0276
Total	100.0000	99.3425	19.2990	1257.69	0.7402

^{* @ 14.730} PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

^{**@ 14.730} PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.0038	CYLINDER #:	7045
BTU/CU.FT IDEAL:		1260.6	CYLINDER PRESSURE:	113 PSIG
BTU/CU.FT (DRY) CORRECTED	FOR (1/Z):	1265.3	ANALYIS DATE:	08/16/2018
BTU/CU.FT (WET) CORRECTED	FOR (1/Z):	1243.3	ANALYIS TIME:	12:29:29 AM
DRY BTU @ 15.025:		1290.6	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:		0.7427		

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: 08/23/2018

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT WELL ANALYSIS COMPARISON

Lease:

FLORANCE #117; TBG

Stn. No.: API # 3004523827

Mtr. No.:

I-Pentane:

TUBING PC

08/23/2018

15950-11245

Smpl Date: 08/06/2018 Test Date: 08/16/2018 Run No: SO180163 Nitrogen: 0.4117 CO2: 1.4072 Methane: 78.7300 Ethane: 10.8203 Propane: 4.5795 I-Butane: 1.0174 N-Butane: 1.2582

0.5626 N-Pentane: 0.3787 Hexane+: 0.8344

BTU: 1265.3 GPM: 19.2990 SPG: 0.7427