

DEC 18 2015

30-045-28757

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: BHD Sample (Liquid) Project Number: 03143-0424 Project Manager: Sabre Beebe	Reported: 16-Jun-15 09:01
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GCU 416
P506025-01 (Water)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Cation/Anion Analysis									
pH @25°C	9.10		pH Units	1	1523034	06/05/15 14:04	06/05/15 14:05	150.1/4500H	H2
Electrical Conductivity	3170		umhos/cm	1	1523034	06/05/15 14:04	06/05/15 14:05	EPA 120.1	H2
Total Dissolved Solids	3020	10.0	mg/L	1	1524014	06/10/15	06/10/15	160.1/2540C	
Sodium Absorption Ratio	5.67		N/A	1	1525012	06/15/15	06/15/15	[CALC]	
Total Alkalinity as CaCO3	140	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Total Hardness as CaCO3	1050	0.07	mg/L		[CALC]	06/08/15	06/12/15	[CALC]	
Bicarbonate as CaCO3	140	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Carbonate as CaCO3	ND	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Hydroxide as CaCO3	ND	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Nitrate-N	ND	0.50	mg/L	5	1523029	06/04/15 13:34	06/04/15 23:42	EPA 300.0	
Nitrite-N	ND	0.50	mg/L	5	1523029	06/04/15 13:34	06/04/15 23:42	EPA 300.0	
Chloride	14.0	5.00	mg/L	5	1523029	06/04/15	06/04/15	EPA 300.0	
Fluoride	0.56	0.50	mg/L	5	1523029	06/04/15	06/04/15	EPA 300.0	
o-Phosphate	2.70	2.50	mg/L	5	1523029	06/04/15 13:34	06/04/15 23:42	EPA 300.0	
Sulfate	2040	5.00	mg/L	5	1523029	06/04/15	06/04/15	EPA 300.0	
Iron	0.07	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Calcium	390	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Magnesium	18.4	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Potassium	10.7	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Sodium	422	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: BHD Sample (Liquid)
Project Number: 03143-0424
Project Manager: Sabre Beebe

Reported:
16-Jun-15 09:01

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523029 - Anion Extraction EPA 300.0										
Blank (1523029-BLK1)				Prepared & Analyzed: 04-Jun-15						
Nitrate-N	ND	0.10	mg/L							
Nitrite-N	ND	0.10	"							
Chloride	ND	1.00	"							
Fluoride	ND	0.10	"							
o-Phosphate	ND	0.50	"							
Sulfate	ND	1.00	"							
LCS (1523029-BS1)				Prepared & Analyzed: 04-Jun-15						
Nitrate-N	5.15	0.10	mg/L	5.00		103	90-110			
Nitrite-N	5.28	0.10	"	5.00		106	90-110			
Chloride	52.4	1.00	"	50.0		105	90-110			
Fluoride	5.31	0.10	"	5.00		106	90-110			
o-Phosphate	25.6	0.50	"	25.0		102	90-110			
Sulfate	52.0	1.00	"	50.0		104	90-110			
Matrix Spike (1523029-MS1)				Source: P506019-01		Prepared & Analyzed: 04-Jun-15				
Nitrate-N	50.7	1.00	mg/L	50.0	ND	101	80-120			
Nitrite-N	51.7	1.00	"	50.0	ND	103	80-120			
Chloride	533	10.0	"	500	16.2	103	80-120			
Fluoride	55.1	1.00	"	50.0	2.89	104	80-120			
o-Phosphate	253	5.00	"	250	ND	101	80-120			
Sulfate	1420	10.0	"	500	916	102	80-120			
Matrix Spike Dup (1523029-MSD1)				Source: P506019-01		Prepared & Analyzed: 04-Jun-15				
Nitrate-N	53.1	1.00	mg/L	50.0	ND	106	80-120	4.57	20	
Nitrite-N	54.5	1.00	"	50.0	ND	109	80-120	5.20	20	
Chloride	556	10.0	"	500	16.2	108	80-120	4.34	20	
Fluoride	57.8	1.00	"	50.0	2.89	110	80-120	4.68	20	
o-Phosphate	267	5.00	"	250	ND	107	80-120	5.41	20	
Sulfate	1480	10.0	"	500	916	113	80-120	3.95	20	

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Notes and Definitions

H2	Sample was analyzed after regulatory hold-time exceeded for target analyte.
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
RPD	Relative Percent Difference

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NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://www.emnrd.state.nm.us/ocd/>

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

OIL CONS. DIV DIST. 3

DEC 18 2015

Date of Test 6/11/15 Operator BP America Production Company API # 3004528757

Property Name GCU 416-FT Location: Unit G Section 19 Township 28 Range 11
(Well Name and Number)

Pressure (Shut-in or Producing) 2 Tubing 2 Intermediate n/a Casing 7 Bradenhead 7

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate		Bradenhead Flowed	Intermediate Flowed
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		
5 minutes	—	7					
10 minutes	—	7					
15 minutes	—	7					
20 minutes	—	7					
25 minutes	—	7					
30 minutes	—	7					
5 minute SI	—	7					
						Steady Flow	
						Surges	
						Down to Nothing	
						No Flow	
						Gas	
						Gas and Water	
						Water	

If bradenhead flowed water, check all of the descriptions that apply below:

Clear ☒ Fresh ☐ Salty ☐ Sulfur ☐ Black ☐

5 Minute Shut-in Bradenhead — Intermediate n/a

REMARKS:

BH had water. BH flowed water through test. Blew from 1" valve. Captured half a gallon of water.

W = water

By [Signature] Witness

(Position)