



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 6/11/65 Operator BP America Production Company API # 3004507432

Property Name GCU 139-DK Location: Unit P Section 18 Township 28 Range 11
(Well Name and Number)

Pressure (Shut-in or Producing) 171 Tubing 171 Intermediate 58 Casing 190 Bradenhead 9

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	-	190	58	W	190		
10 minutes	-	190	58	Ø	189		
15 minutes	-	190	58	Ø	190		✓
20 minutes		190		Ø	190		
25 minutes		190					
30 minutes		190					
5 minute SI	-	190	58	Ø	190	✓	

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

Clear ✓ Fresh Salty Sulfur Black

5 Minute Shut-in Bradenhead Intermediate Ø

REMARKS:

BH had water. Intermediate blew to a whisper in 5 sec.
Captured a quarter of a gallon through test.

By [Signature] Witness

(Position)



UPI 3004507432

OIL CONS. DIV DIST. 3

DEC 18 2015

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 139
P506025-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
pH @26.3°C	12.3		pH Units	1	1523034	06/05/15 14:04	06/05/15 14:05	150.1/4500H	H2
Electrical Conductivity	16500		umhos/cm	1	1523034	06/05/15 14:04	06/05/15 14:05	EPA 120.1	H2
Total Dissolved Solids	6340	10.0	mg/L	1	1524014	06/10/15	06/10/15	160.1/2540C	
Sodium Absorption Ratio	325		N/A	1	1525012	06/15/15	06/15/15	[CALC]	
Total Alkalinity as CaCO3	1200	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Total Hardness as CaCO3	2.65	0.07	mg/L		[CALC]	06/08/15	06/12/15	[CALC]	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Carbonate as CaCO3	3600	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Hydroxide as CaCO3	4800	10.0	mg/L	1	1523036	06/05/15	06/05/15	Hach Method 8203	
Nitrate-N	ND	10.0	mg/L	100	1523029	06/04/15 13:34	06/05/15 00:03	EPA 300.0	
Nitrite-N	ND	10.0	mg/L	100	1523029	06/04/15 13:34	06/05/15 00:03	EPA 300.0	
Chloride	ND	100	mg/L	100	1523029	06/04/15	06/05/15	EPA 300.0	
Fluoride	ND	10.0	mg/L	100	1523029	06/04/15	06/05/15	EPA 300.0	
o-Phosphate	ND	50.0	mg/L	100	1523029	06/04/15 13:34	06/05/15 00:03	EPA 300.0	
Sulfate	187	100	mg/L	100	1523029	06/04/15	06/05/15	EPA 300.0	
Iron	1.06	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Calcium	0.92	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Magnesium	0.08	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	
Potassium	403	0.10	mg/L	10	1524002	06/08/15	06/12/15	EPA 6010C	
Sodium	1210	0.01	mg/L	1	1524002	06/08/15	06/12/15	EPA 6010C	

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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envirotech-inc.com
laboratory@envirotech-inc.com



UPI 300450142

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

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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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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

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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DEC 18 2015

API 3004507432

**GCU 139**

Dakota
30-045-07432
T-28N, R-11-W, Sec. 18
San Juan County, New Mexico

History

9/7/63: Spud date
11/9/63: Dakota completion date
12/17/71: Casing Repair. Squeezed the 4 1/2" x 7" annulus w/ 210 sx Class A cement in order to shut off the gas flow from the intermediate casing.
1/18/08: Wireline. Fluid at 5100'. Pulled stop. Pin collar at 6080'. Reset stop @ 6033'.

Dakota Perforations

5943-5947, 5965-5971'
Frased w/ 19362 gals wtr & 20000# snd
6025-6035
Frased w/ 37430 gals wtr, 40000# snd

Formation Tops

Lewis Shale	1623
Mesaverde	3005
Mancos	4168
Gallup	5074
Mancos	5448
Greenhorn	5852
Graneros Shale	5905
Graneros Dakota	5941
Main Dakota	6016
Lower Dakota	6054

