

Oklahoma Corporation Commission  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165: 10-3-25

Form 1002A

API No.: 35083243920000

**Completion Report**

Spud Date: December 03, 2016

OTC Prod. Unit No.: 083-218214

Drilling Finished Date: December 11, 2016

1st Prod Date: February 14, 2017

Completion Date: January 28, 2017

**Drill Type:** STRAIGHT HOLE

Well Name: STATE 2-16

Purchaser/Measurer:

Location: LOGAN 16 17N 4W  
C SW SW  
330 FSL 330 FWL of 1/4 SEC  
Derrick Elevation: 1105 Ground Elevation: 1092

First Sales Date:

Operator: ARROWHEAD ENERGY INC 10239

2934 NW 156TH ST  
EDMOND, OK 73013-2102

Completion Type	
	Single Zone
	Multiple Zone
X	Commingled

Location Exception
Order No
There are no Location Exception records to display.

Increased Density
Order No
There are no Increased Density records to display.

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	16			75			SURFACE
SURFACE	8 5/8	24	J-55	508		300	SURFACE
PRODUCTION	5 1/2	17	N-80	7086		180	5764

Liner								
Type	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
There are no Liner records to display.								

**Total Depth: 7106**

Packer	
Depth	Brand & Type
There are no Packer records to display.	

Plug	
Depth	Plug Type
There are no Plug records to display.	

Initial Test Data
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Test Date	Formation	Oil BBL/Day	Oil-Gravity (API)	Gas MCF/Day	Gas-Oil Ratio Cu FT/BBL	Water BBL/Day	Pumpin or Flowing	Initial Shut-In Pressure	Choke Size	Flow Tubing Pressure
Mar 06, 2017	HUNTON-WOODFORD-MISSISSIPPI LIME	100		240	2400	138	PUMPING			

#### Completion and Test Data by Producing Formation

Formation Name: HUNTON

Code: 269HNTN

Class: OIL

##### Spacing Orders

Order No	Unit Size
62015	80

##### Perforated Intervals

From	To
6828	6850

##### Acid Volumes

There are no Acid Volume records to display.
--

##### Fracture Treatments

26,060 BARRELS SLICK WATER, 315,230 POUNDS 40/70
--

Formation Name: WOODFORD

Code: 319WDFD

Class: OIL

##### Spacing Orders

Order No	Unit Size
There are no Spacing Order records to display.	

##### Perforated Intervals

From	To
6820	6828

##### Acid Volumes

There are no Acid Volume records to display.
--

##### Fracture Treatments

There are no Fracture Treatments records to display.
--

Formation Name: MISSISSIPPI LIME

Code: 351MSSLM

Class: OIL

##### Spacing Orders

Order No	Unit Size
62761	80

##### Perforated Intervals

From	To
6301	6678

##### Acid Volumes

There are no Acid Volume records to display.
--

##### Fracture Treatments

There are no Fracture Treatments records to display.
--

Formation Name: HUNTON-WOODFORD-MISSISSIPPI LIME

Code:

Class: OIL

Formation	Top
UPPER LAYTON SAND	5156
BIG LIME	5852
OSWEGO	5944
VERDIGRIS LIME	6090
LOWER SKINNER SAND	6170
PINK	6188
RED FORK SAND	6200

Were open hole logs run? Yes

Date last log run: December 11, 2016

Were unusual drilling circumstances encountered? No

Explanation:

MISSISSIPPI LIME	6296
WOODFORD	6718
HUNTON	6828
SYLVAN	6852
VIOLA	6950

<b>Other Remarks</b>
There are no Other Remarks.

<b>FOR COMMISSION USE ONLY</b>	
Status: Accepted	1138276

API NO. 083-24392  
OTC PROD. UNIT NO. 083-218214

PLEASE TYPE OR USE BLACK INK ONLY  
NOTE:

Attach copy of original 1002A  
if recompletion or reentry.

OKLAHOMA CORPORATION COMMISSION  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165:10-3-25

RECEIVED

Form 1002A  
Rev. 2009

DEC 04 2017

OKLAHOMA CORPORATION  
COMMISSION  
640 Acres

☒ ORIGINAL  
☐ AMENDED (Reason)

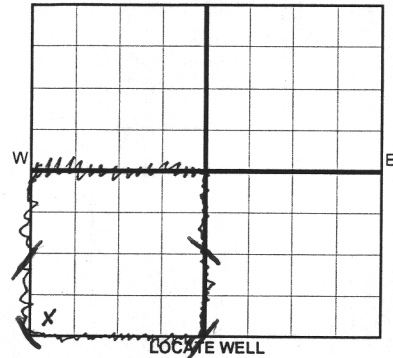
TYPE OF DRILLING OPERATION

☒ STRAIGHT HOLE ☐ DIRECTIONAL HOLE ☐ HORIZONTAL HOLE  
☐ SERVICE WELL

If directional or horizontal, see reverse for bottom hole location.

COUNTY	Logan	SEC	16	TWP	17N	RGE	04W
LEASE NAME	State		WELL NO.	2-16			
1/4 SW 1/4 SW 1/4 SW 1/4		FSL OF 1/4 SEC	330	FWL OF 1/4 SEC	380		
ELEVATION N Derrick	1105	Ground	1092	Latitude (if known)			
OPERATOR NAME	Arrowhead Energy, Inc.			OTC/OCC OPERATOR NO.	10239 10329		
ADDRESS	2934 NW 156th Street						
CITY	Edmond	STATE	OK	ZIP	73013		

SPUD DATE 12/03/16  
DRLG FINISHED DATE 12/11/16  
DATE OF WELL COMPLETION 01/28/17  
1st PROD DATE 02/14/17  
RECOMP DATE



COMPLETION TYPE

<input type="checkbox"/> SINGLE ZONE
<input type="checkbox"/> MULTIPLE ZONE
<input type="checkbox"/> Application Date
<input checked="" type="checkbox"/> COMMINGLED
<input type="checkbox"/> Application Date
LOCATION
EXCEPTION ORDER
INCREASED DENSITY
ORDER NO.

CASING & CEMENT (Form 1002C must be attached)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
CONDUCTOR	16"			75'			Surface
SURFACE	8 5/8	24#	J-55	508		300	Surface
INTERMEDIATE							
PRODUCTION	5 1/2	17#	N-80	7086		180	5764
LINER							
				TOTAL DEPTH	7,106		

PACKER @ \_\_\_\_\_ BRAND & TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_  
PACKER @ \_\_\_\_\_ BRAND & TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_ PLUG @ \_\_\_\_\_ TYPE \_\_\_\_\_

COMPLETION & TEST DATA BY PRODUCING FORMATION 269HNTN 319WDPD 351MISSLM

FORMATION	Hunton	Woodford	Mississippi	Line
SPACING & SPACING ORDER NUMBER	62015-59564 (80)	none	62761 (80)	
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	Oil	Oil	Oil	
PERFORATED INTERVALS	6828-50	6820-28	6301-26	6492-6562
			6379-6400	6586-6678
			6428-50	
ACID/VOLUME				
FRACTURE TREATMENT (Fluids/Prop Amounts)	26,060 bbls Slick Wat			
	315,230# 40/70			

Reported to FreeFocus

INITIAL TEST DATA

INITIAL TEST DATE	3/6/2017
OIL-BBL/DAY	100
OIL-GRAVITY ( API)	
GAS-MCF/DAY	240
GAS-OIL RATIO CU FT/BBL	2400/1
WATER-BBL/DAY	138
PUMPING OR FLOWING	Pumping
INITIAL SHUT-IN PRESSURE	na
CHOKE SIZE	
FLOW TUBING PRESSURE	

AS SUBMITTED

A record of the formations drilled through, and pertinent remarks are presented on the reverse. I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belief.

*William F Varner*

William F Varner

10/1/2017

405-848-5777

SIGNATURE

NAME (PRINT OR TYPE)

DATE

PHONE NUMBER

2934 NW 156TH Street

Edmond

OK

73013

arrowhead@arrowheadenergy.com

ADDRESS

CITY

STATE

ZIP

EMAIL ADDRESS

**PLEASE TYPE OR USE BLACK INK ONLY**  
**FORMATION RECORD**

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

NAMES OF FORMATIONS	TOP
Upper Layton Sand	5,156
Big Lime	5,852
Oswego	5944
Verdigris Lm	6,090
Lower Skinner sd	6,170
Pink	6,188
Red Fork sd	6,200
Mississippi Lime	6,296
Woodford	6,718
Hunton	6,828
Sylvan	6,852
Viola	6,950
TD	7,106

LEASE NAME \_\_\_\_\_ State \_\_\_\_\_ WELL NO. 2-16

FOR COMMISSION USE ONLY	
ITD on file <input type="checkbox"/> YES <input type="checkbox"/> NO	
APPROVED _____	DISAPPROVED _____
2) Reject Codes	
_____	
_____	
_____	
_____	
_____	

Were open hole logs run?	<u>X</u> yes <input type="checkbox"/> no
Date Last log was run	<u>12/11/2016</u>
Was CO <sub>2</sub> encountered?	<input type="checkbox"/> yes <u>X</u> no at what depths? _____
Was H <sub>2</sub> S encountered?	<input type="checkbox"/> yes <u>X</u> no at what depths? _____
Were unusual drilling circumstances encountered? If yes, briefly explain below	<input type="checkbox"/> yes <u>X</u> no

Other remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

640 Acres


If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth.  
Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.

640 Acres


**BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE**

SEC	TWP	RGE	COUNTY
Spot Location			
1/4	1/4	1/4	1/4
Measured Total Depth		True Vertical Depth	Feet From 1/4 Sec Lines FSL FWL
BHL From Lease, Unit, or Property Line:			

**BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)**

**LATERAL #1**

SEC	TWP	RGE	COUNTY
Spot Location			
1/4	1/4	1/4	1/4
Depth of Deviation		Radius of Turn	Direction Total Length
Measured Total Depth		True Vertical Depth	BHL From Lease, Unit, or Property Line:

**LATERAL #2**

SEC	TWP	RGE	COUNTY
Spot Location			
1/4	1/4	1/4	1/4
Depth of Deviation		Radius of Turn	Direction Total Length
Measured Total Depth		True Vertical Depth	BHL From Lease, Unit, or Property Line:

**LATERAL #3**

SEC	TWP	RGE	COUNTY
Spot Location			
1/4	1/4	1/4	1/4
Depth of Deviation		Radius of Turn	Direction Total Length
Measured Total Depth		True Vertical Depth	BHL From Lease, Unit, or Property Line: