

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.: 35029213300001

Completion Report

Spud Date: July 30, 2016

OTC Prod. Unit No.: 029-217964

Drilling Finished Date: August 31, 2016

1st Prod Date: October 13, 2016

Amended

Completion Date: October 10, 2016

Amend Reason: DID NOT RUN OPEN HOLE LOGS

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: WARD 3-33/4H

Purchaser/Measurer: MARKWEST

Location: COAL 33 2N 11E
NE NE NW NE
261 FNL 1395 FEL of 1/4 SEC
Latitude: 34.606753 Longitude: -96.149172
Derrick Elevation: 0 Ground Elevation: 604

First Sales Date: 10/13/2016

Operator: BRAVO ARKOMA LLC 23562

1323 E 71ST ST STE 400
TULSA, OK 74136-5067

Completion Type		Location Exception		Increased Density	
X	Single Zone	Order No		Order No	
	Multiple Zone	660143		651615	
	Commingled			651748	

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20			40			SURFACE
SURFACE	9 5/8	36	J-55	1000		530	SURFACE
PRODUCTION	5 1/2	23	P-110	20742		2627	7206

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

Total Depth: 20742

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

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
Oct 22, 2016	WOODFORD			9471		2400	FLOWING		84/64	

Completion and Test Data by Producing Formation

Formation Name: WOODFORD

Code: 319WDFD

Class: GAS

Spacing Orders

Order No	Unit Size
546135	640
551741	640
660142	MULTIUNIT

Perforated Intervals

From	To
11124	20657

Acid Volumes

34,884 GALLONS 15% HCL

Fracture Treatments

556,592 BARRELS, 7,795,613 POUNDS 40/70, 1,006,012 POUNDS 100 MESH
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Formation	Top
WOODFORD	10536

Were open hole logs run? No

Date last log run:

Were unusual drilling circumstances encountered? No

Explanation:

Other Remarks

There are no Other Remarks.

Lateral Holes

Sec: 4 TWP: 1N RGE: 11E County: COAL

SW NE SW SE

716 FSL 1867 FEL of 1/4 SEC

Depth of Deviation: 10143 Radius of Turn: 578 Direction: 179 Total Length: 9527

Measured Total Depth: 20742 True Vertical Depth: 10314 End Pt. Location From Release, Unit or Property Line: 716

FOR COMMISSION USE ONLY

1135724

Status: Accepted

API NO. 029-21330
OTC PROD. UNIT NO. 029217964

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

JAN 20 2017

Form 1002A
Rev. 2009

OKLAHOMA CORPORATION
COMMISSION

☐ ORIGINAL
☒ AMENDED (Reason)

Did not run open hole logs

COMPLETION REPORT

TYPE OF DRILLING OPERATION

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

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

COUNTY	Coal	SEC	33	TWP	2N	RGE	11E
LEASE NAME	Ward	WELL NO.	3-33/4H	DATE OF WELL COMPLETION	10/10/16	1st PROD DATE	10/13/16
NE 1/4 NE 1/4 NW 1/4 NE 1/4	FNL OF 1/4 SEC 261	FEL OF 1/4 SEC 1395	RECOMP DATE				
ELEVATION Derrick	Ground 604	Latitude (if known)	34.606753	Longitude (if known)	-96.149172		
OPERATOR NAME	Bravo Arkoma, LLC			OTC/OCC OPERATOR NO.	23562		
ADDRESS	1323 East 71st Street, Suite 400						
CITY	Tulsa	STATE	OK	ZIP	74136		

640 Acres

LOCATE WELL

COMPLETION TYPE

☒ SINGLE ZONE
☐ MULTIPLE ZONE
Application Date
COMMIN'LED
Application Date
LOCATION
EXCEPTION ORDER
INCREASED DENSITY
ORDER NO. 651615, 651748

CASING & CEMENT (Form 1002C must be attached)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
CONDUCTOR	20"			40'			Surface
SURFACE	9 5/8"	36#	J-55	1000'		530	Surface
INTERMEDIATE							
PRODUCTION	5 1/2"	23#	P-110	20,742'		2627	7206
LINER							

PACKER @ _____ BRAND & TYPE _____ PLUG @ _____ TYPE _____ PLUG @ _____ TYPE _____
PACKER @ _____ BRAND & TYPE _____ PLUG @ _____ TYPE _____ PLUG @ _____ TYPE _____

TOTAL DEPTH 20,742

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Woodford					
SPACING & SPACING ORDER NUMBER	551741 (640)	546135 (640)	652258 (640)			
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	Gas					
PERFORATED INTERVALS	20,657'-20,445'	20,370'-20,161'	20,098'-19,970'	19,888'-19,735'	19,705'-19,510'	19,445'-19,240'
	19,135'-18,955'	18,905'-18,708'	18,636'-18,441'	12,928'-12,711'	12,649'-12,477'	12,450'-12,267'
	12,214'-12,069'	11,968'-11,848'	11,765'-11,605'	11,547'-11,332'	11,282'-11,124'	
ACID/VOLUME	34,884 gal	15% HCl				
FRACTURE TREATMENT (Fluids/Prop Amounts)	556,592 bbls	7,795,613 lbs of	40/70	1,006,012 lbs of	100 mesh	

Min Gas Allowable (165:10-17-7)

☒

OR

Oil Allowable (165:10-13-3)

Gas Purchaser/Measurer
First Sales Date

MarkWest

13-Oct-2016

INITIAL TEST DATA

INITIAL TEST DATE	10/22/2016
OIL-BBL/DAY	
OIL-GRAVITY (API)	
GAS-MCF/DAY	9471
GAS-OIL RATIO CU FT/BBL	
WATER-BBL/DAY	2400
PUMPING OR FLOWING	Flowing
INITIAL SHUT-IN PRESSURE	
CHOKE SIZE	84/64
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.

SIGNATURE	NAME (PRINT OR TYPE)	DATE	PHONE NUMBER
1323 East 71st St, Suite 400	Tulsa OK 74136	1/17/2017	918-894-4481
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
Woodford	10,536

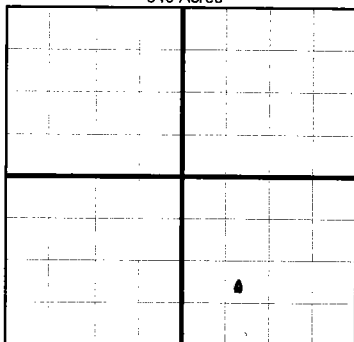
LEASE NAME Ward WELL NO. 3-33/4H

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?	_____ yes <input checked="" type="checkbox"/> no
Date Last log was run	_____
Was CO ₂ encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Was H ₂ S encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Were unusual drilling circumstances encountered?	_____ yes <input checked="" type="checkbox"/> no
If yes, briefly explain below	

Other remarks:

640 Acres



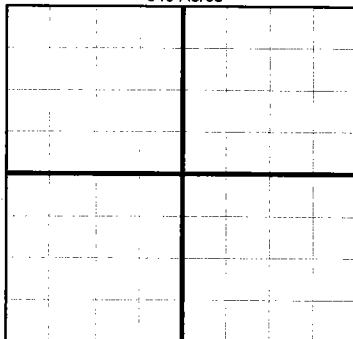
If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

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
Measured Total Depth	True Vertical Depth		BHL From Lease, Unit, or Property Line:
Feet From 1/4 Sec Lines	FSL	FWL	

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

Per Final LE order

SEC	TWP	RGE	COUNTY
Spot Location	SW 1/4	NE 1/4	SW 1/4 SE 1/4
Depth of Deviation	10,143	Radius of Turn	578
Measured Total Depth	20,742	True Vertical Depth	10,314
Feet From 1/4 Sec Lines	FSL	FEL	1867
Direction	179	Total Length	9,527
BHL From Lease, Unit, or Property Line:			

716 787 716

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

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