

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.: 35005204590002

Completion Report

Spud Date: December 23, 2015

OTC Prod. Unit No.: 005-223745

Drilling Finished Date: January 30, 2018

1st Prod Date: May 11, 2018

Completion Date: May 09, 2018

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: CAIRO 2-31/30H

Purchaser/Measurer: MARKWEST

Location: ATOKA 31 2N 12E
SW SW SW SW
294 FSL 172 FWL of 1/4 SEC
Derrick Elevation: 0 Ground Elevation: 647

First Sales Date: 05/11/2018

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	671345		670280	
	Commingled			673665	

Casing and Cement							
Type	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20			40			SURFACE
SURFACE	9 5/8	40	J-55	1006		310	SURFACE
PRODUCTION	5 1/2	23	P-110	21770		3500	8860

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

Total Depth: 21793

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
Jun 11, 2018	WOODFORD			9618		509	FLOWING	1343	105/64	223

Completion and Test Data by Producing Formation

Formation Name: WOODFORD

Code: 319WDFD

Class: GAS

Spacing Orders

Order No	Unit Size
532198	640
554390	640
671344	MULTIUNIT

Perforated Intervals

From	To
12042	21751

Acid Volumes

44,500 GALLONS 15% HCL

Fracture Treatments

347,348 BARRELS, 10,047,836 POUNDS 40/70

Formation	Top
WOODFORD	11175

Were open hole logs run? No

Date last log run:

Were unusual drilling circumstances encountered? No

Explanation:

Other Remarks

OCC - THIS DOCUMENT IS ACCEPTED BASED ON THE DATA SUBMITTED NEITHER THE FINAL LOCATION EXCEPTION NOR THE FINAL MULTIUNIT ORDERS HAVE BEEN ISSUED.

Lateral Holes

Sec: 30 TWP: 2N RGE: 12E County: ATOKA

SE NW NW NW

636 FNL 402 FWL of 1/4 SEC

Depth of Deviation: 10479 Radius of Turn: 830 Direction: 1 Total Length: 9635

Measured Total Depth: 21793 True Vertical Depth: 11475 End Pt. Location From Release, Unit or Property Line: 402

FOR COMMISSION USE ONLY

Status: Accepted

1140362



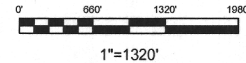
Well Location Plat - As-Drilled

S.H.L. Sec. 31-2N-12E I.M.
B.H.L. Sec. 30-2N-12E I.M.

Operator : BRAVO NATURAL RESOURCES
Lease Name and No. : CAIRO 2-31/30H
Footage : 294' FSL - 172' FWL GR. ELEVATION : 647' Good Site? YES
Section : 31 Township : 2N Range : 12E I.M.
County : Atoka State of Oklahoma
Alternate Loc. : N/A
Terrain at Loc. : Location fell in open pasture.

Accessibility : From the West

Directions : From the town of Wardville, OK, go 7.0 miles Southwest on State Hwy 131 and 2.0 miles East on "Mail Rte. Rd." to the Southwest Corner of Section 31-2N-12E.



GPS DATUM
NAD - 27
OK SOUTH ZONE

Bottom Hole Loc.:
Lat: 34°37'13.25"N
Lon: 96°05'25.75"W
X: 2574473
Y: 473792

Last Perf:
Lat: 34°37'12.83"N
Lon: 96°05'25.75"W
X: 2574473
Y: 473750

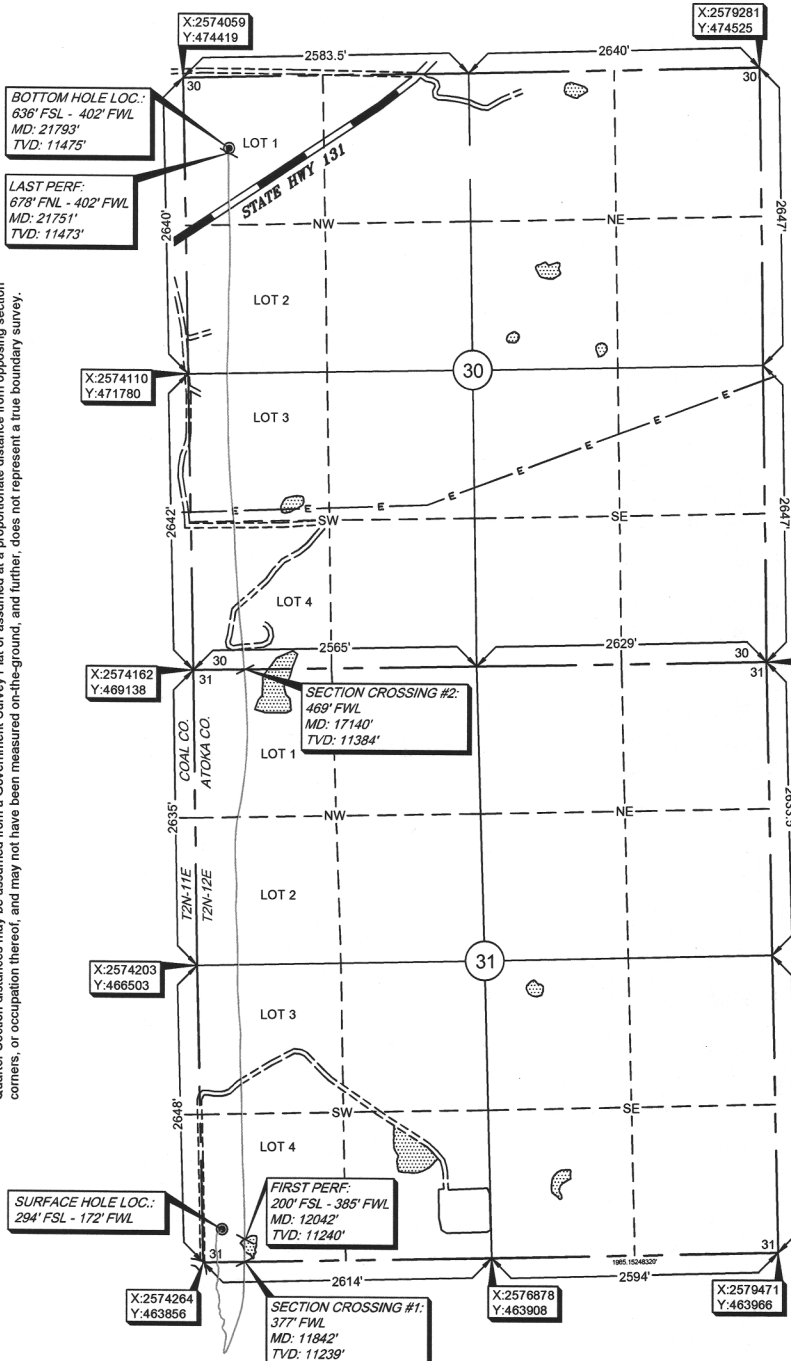
Section Crossing #2:
Lat: 34°36'27.28"N
Lon: 96°05'24.90"W
X: 2574632
Y: 469147

First Perf:
Lat: 34°35'37.00"N
Lon: 96°05'25.91"W
X: 2574644
Y: 464064

Section Crossing #1:
Lat: 34°35'35.02"N
Lon: 96°05'25.99"W
X: 2574641
Y: 463864

Surface Hole Loc.:
Lat: 34°35'37.93"N
Lon: 96°05'28.44"W
X: 2574430
Y: 464154

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

survey and plat by,
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2016

Invoice #5993-A-AD
Date Staked : 11/19/15 By : H.S.
Date Drawn : 11/23/15 By : J.H.
New BHL Loc./Sec. : 03/14/16 By : K.M.
Added As-Drilled : 04/05/18 By : S.S.

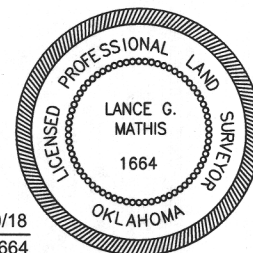
Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

04/10/18

OK LPLS 1664



API NO. 005-20459
OTC PROD. 005223745
UNIT NO.

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

JUL 09 2018

Form 1002A
Rev. 2009

OKLAHOMA CORPORATION
COMMISSION

☒ ORIGINAL
☐ AMENDED (Reason)

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	Atoka	SEC	31	TWP	02N	RGE	12E
LEASE NAME	Cairo	WELL NO.	2-3130	1st PROD DATE	5/11/18		
SW 1/4 SW 1/4 SW 1/4 SW 1/4	FSL OF 1/4 SEC	294	FWL OF 1/4 SEC	172	RECOMP DATE		
ELEVATION N Derrick	Ground	647	Latitude (if known)	Longitude (if known)			
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
COMINGLED
Application Date
LOCATION
EXCEPTION ORDER
INCREASED DENSITY
ORDER NO.

671345 I.D.
673665, 670280

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"	40#	J-55	1006'		310	Surface
INTERMEDIATE							
PRODUCTION	5 1/2"	23#	P-110	21,770'		3500	8860
LINER							
TOTAL DEPTH							21,793

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

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Woodford	319 WDFD					
SPACING & SPACING ORDER NUMBER	554390 (640)	532198 (640)	671344 (MU)				
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	Gas						
PERFORATED INTERVALS	12,042' - 21,751						
ACID/VOLUME	44,500 gal	15% HCl					
FRACTURE TREATMENT (Fluids/Prop Amounts)	347,348 bbl	10,047,836 lbs of	40/70				

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

Gas Purchaser/Measurer

MarkWest

☒

OR

First Sales Date

5/11/2018

INITIAL TEST DATA

Oil Allowable (165:10-13-3)

INITIAL TEST DATE	6/11/2018						
OIL-BBL/DAY	0						
OIL-GRAVITY (API)	0						
GAS-MCF/DAY	9618						
GAS-OIL RATIO CU FT/BBL	N/A						
WATER-BBL/DAY	509						
PUMPING OR FLOWING	Flowing						
INITIAL SHUT-IN PRESSURE	1343						
CHOKE SIZE	105/64						
FLOW TUBING PRESSURE	N/A	FCP 223psi					

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	TYLER HAROLD	NAME (PRINT OR TYPE)	7/5/18	918-894-4481
1323 East 71st St, Suite 400	Tulsa	OK 74136	/ DATE	PHONE NUMBER
ADDRESS	CITY	STATE	ZIP	EMAIL ADDRESS
				tharold@bravonr.com

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	11,175

LEASE NAME Cairo WELL NO. 2-31/30H

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

x					

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		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
30	02N	12E	Atoka
Spot Location	SE	NW	NW
1/4	1/4	1/4	1/4
Depth of Deviation	10,479	Radius of Turn	830
Measured Total Depth	21,793	True Vertical Depth	11,475
Feet From 1/4 Sec Lines		FNL	636
Direction		360 X	FWL
Total Length		9,635	
BHL From Lease, Unit, or Property Line: 402			

LATERAL #2

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		BHL From Lease, Unit, or Property Line:
			FSL
			FWL
Total Length			

LATERAL #3

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		BHL From Lease, Unit, or Property Line:
			FSL
			FWL
Total Length			

API NO. 005-20459
OTC PROD. UNIT NO. 005223745

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ELEVATION N Derrick	Ground	647	Latitude (if known)				
OPERATOR NAME	Bravo Arkoma, LLC	OTC/OCC OPERATOR NO.	23562				
ADDRESS	1323 East 71st Street, Suite 400						
CITY	Tulsa	STATE	OK	ZIP	74136		

SPUD DATE	12/23/15
DRLG FINISHED DATE	1/30/18
DATE OF WELL COMPLETION	5/9/18
1st PROD DATE	5/11/18
RECOMP DATE	
Longitude (if known)	

640 Acres

1016EZ

W E

x

LOCATE WELL

COMPLETION TYPE

☒ SINGLE ZONE
☐ MULTIPLE ZONE
Application Date
COMINGLED
Application Date
LOCATION
EXCEPTION ORDER
INCREASED DENSITY
ORDER NO. 673665, 670280

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LINER							
TOTAL DEPTH							21,793

PACKER @ BRAND & TYPE

PLUG @ TYPE

PLUG @ TYPE

TOTAL DEPTH 21,793

COMPLETION & TEST DATA BY PRODUCING FORMATION

319 WDFD

FORMATION	Woodford	I.O.	Monitor
SPACING & SPACING ORDER NUMBER	(31) 554390 (640)	(33) 532198 (640)	671344 (MU)
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	Gas	Sec. 31: 52.51% 22374.5 I	
PERFORATED INTERVALS	12,042' - 21,751	Sec. 30: 47.49% 22374.5A I	
ACID/VOLUME	44,500 gal	15% HCl	
FRACTURE TREATMENT (Fluids/Prop Amounts)	347,348 bbl	10,047,836 lbs of	40/70

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

Gas Purchaser/Measurer

Mark West

☒

OR

First Sales Date

5/11/2018

INITIAL TEST DATA

Oil Allowable (165:10-13-3)

INITIAL TEST DATE	6/11/2018
OIL-BBL/DAY	0
OIL-GRAVITY (API)	0
GAS-MCF/DAY	9618
GAS-OIL RATIO CU FT/BBL	N/A
WATER-BBL/DAY	509
PUMPING OR FLOWING	Flowing
INITIAL SHUT-IN PRESSURE	1343
CHOKE SIZE	105/64
FLOW TUBING PRESSURE	N/A
FCP	223psi

AS SUBMITTED

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SIGNATURE	Tyler Harold	DATE	7/5/18	PHONE NUMBER	918-894-4481
1323 East 71st St, Suite 400	Tulsa	OK	74136	tharold@bravonr.com	
ADDRESS	CITY	STATE	ZIP	EMAIL ADDRESS	

SCANNED

OR