

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.: 35005204600004

**Completion Report**

Spud Date: December 23, 2015

OTC Prod. Unit No.: 005-223745

Drilling Finished Date: March 27, 2018

1st Prod Date: May 11, 2018

Completion Date: May 09, 2018

**Drill Type:** HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: CAIRO 3-31/30H

Purchaser/Measurer: MARKWEST

Location: ATOKA 31 2N 12E  
SW SW SW SW  
309 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	671347		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		210	SURFACE
PRODUCTION	5 1/2	23	P-110	18656		2061	10840

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

**Total Depth: 22288**

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
Jun 11, 2018	WOODFORD			5612		387	FLOWING	1500	128/64	219

Completion and Test Data by Producing Formation

Formation Name: WOODFORD

Code: 319WDFD

Class: GAS

Spacing Orders

Order No	Unit Size
532198	640
554390	640
671346	MULTIUNIT

Perforated Intervals

From	To
12040	18534

Acid Volumes

30,000 GALLONS 15% HCL

Fracture Treatments

248,292 BARRELS, 7,010,644 POUNDS 40/70

Formation	Top
WOODFORD	11157

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 ARE ISSUED.

Lateral Holes

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

NE NE NW NW

166 FNL 1302 FWL of 1/4 SEC

Depth of Deviation: 10577 Radius of Turn: 795 Direction: 359 Total Length: 10092

Measured Total Depth: 22288 True Vertical Depth: 11464 End Pt. Location From Release, Unit or Property Line: 166

FOR COMMISSION USE ONLY

Status: Accepted

1140364



# 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 3-31/30H  
Footage : 309' 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.



0' 660' 1320' 1980'  
1"=1320'

GPS DATUM  
NAD - 27  
OK SOUTH ZONE

Bottom Hole Loc.:  
Lat: 34°37'17.91"N  
Lon: 96°05'14.99"W  
X: 2575363  
Y: 474280

Last Perf:  
Lat: 34°36'40.82"N  
Lon: 96°05'14.67"W  
X: 2575461  
Y: 470532

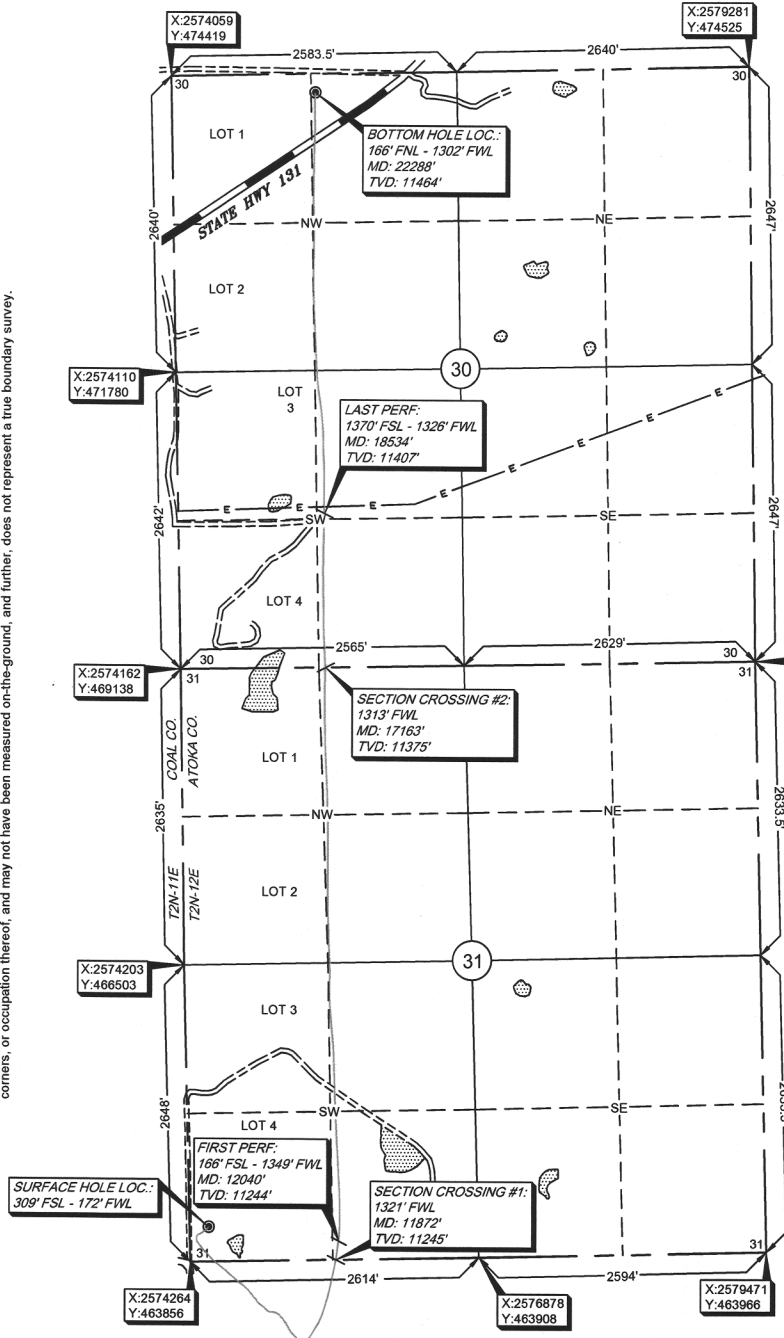
Section Crossing #2:  
Lat: 34°36'27.27"N  
Lon: 96°05'14.81"W  
X: 2575475  
Y: 469162

First Perf:  
Lat: 34°35'36.68"N  
Lon: 96°05'14.37"W  
X: 2575609  
Y: 464049

Section Crossing #1:  
Lat: 34°35'35.03"N  
Lon: 96°05'14.70"W  
X: 2575584  
Y: 463882

Surface Hole Loc.:  
Lat: 34°35'38.08"N  
Lon: 96°05'28.44"W  
X: 2574430  
Y: 464169

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

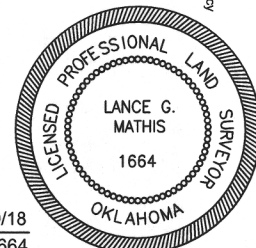
Invoice #5993-B  
Date Staked : 11/19/15 By: H.S.  
Date Drawn : 11/23/15 By: J.H.  
New BHL Loc./Sec.: 03/14/16 By: K.M.  
Added As-Drilled : 04/05/18 By: S.S.  
Rev. First Perf : 04/19/18 By: R.S.

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

04/19/18

OK LPLS 1664



API NO. 005-20460  
OTC PROD. UNIT NO. 005223745

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

OKLAHOMA CORPORATION  
COMMISSION

Form 1002A  
Rev. 2009

☒ 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	Atoka	SEC	31	TWP	02N	RGE	12E
LEASE NAME	Cairo	WELL NO.	3-31/30H	1st PROD DATE	5/11/18		
SW 1/4 SW 1/4 SW 1/4 SW 1/4	FSL OF 1/4 SEC	309	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		

COMPLETION REPORT

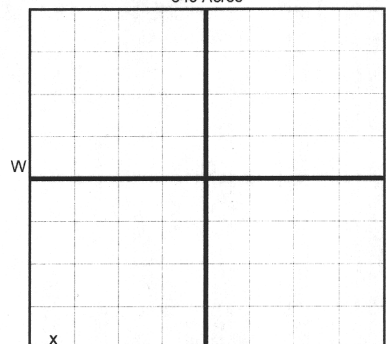
SPUD DATE 12/23/15

DRLG FINISHED DATE 3/27/18

DATE OF WELL COMPLETION 5/9/18

RECOMP DATE

Longitude (if known)



LOCATE WELL

COMPLETION TYPE

<input checked="" type="checkbox"/> SINGLE ZONE
MULTIPLE ZONE
Application Date
COMINGLED
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	20"			40'			Surface
SURFACE	9 5/8"	40#	J-55	1006'		210	Surface
INTERMEDIATE							
PRODUCTION	5 1/2"	23#	P-110	18,656		2061	10840
LINER							
TOTAL DEPTH							22,288

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

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	Woodford	I.O.	
SPACING & SPACING ORDER NUMBER	554390 (640)	532198 (640)	671346 (MU)
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	Gas		
PERFORATED INTERVALS	12,040' - 18,534'		
ACID/VOLUME	30,000 gal	15% HCl	
FRACTURE TREATMENT (Fluids/Prop Amounts)	248,292 bbl	7,010,644 lbs of	40/70

Monitor  
Report to Frac Focus

Min Gas Allowable (165:10-17-7) Gas Purchaser/Measurer MarkWest  
OR  
Oil Allowable (165:10-13-3) First Sales Date 5/11/2018

INITIAL TEST DATA

INITIAL TEST DATE	6/11/2018
OIL-BBL/DAY	0
OIL-GRAVITY ( API)	0
GAS-MCF/DAY	5612
GAS-OIL RATIO CU FT/BBL	N/A
WATER-BBL/DAY	387
PUMPING OR FLOWING	Flowing
INITIAL SHUT-IN PRESSURE	1500
CHOKE SIZE	128/64
FLOW TUBING PRESSURE	N/A FCP 219psi

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  
1323 East 71st St, Suite 400 Tulsa OK 74136  
ADDRESS CITY STATE ZIP  
DATE 7/5/18 PHONE NUMBER 918-894-4481  
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	11,157

LEASE NAME Cairo WELL NO. 3-31/30H

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 <u>X</u> no
Date Last log was run	_____
Was CO <sub>2</sub> encountered?	____ yes <u>X</u> no at what depths? _____
Was H <sub>2</sub> S encountered?	____ yes <u>X</u> no at what depths? _____
Were unusual drilling circumstances encountered?	____ yes <u>X</u> no
If yes, briefly explain below	

Other remarks:

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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		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	NE	NW	NW
1/4	1/4	1/4	1/4
Feet From 1/4 Sec Lines	FNL	166	FWL
1302			
Depth of Deviation	10,577	Radius of Turn	795
Direction	359	Total Length	10,092
Measured Total Depth	22,288	True Vertical Depth	11,464
		BHL From Lease, Unit, or Property Line:	166

LATERAL #2

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

