Oklahoma Corporation Commission Oil & Gas Conservation Division Post Office Box 52000 Oklahoma City, Oklahoma 73152-2000

Rule 165: 10-3-25

API No.: 35005204630002 **Completion Report** Spud Date: August 22, 2017

OTC Prod. Unit No.: 005-225486-0-0000 Drilling Finished Date: January 31, 2019

1st Prod Date: March 29, 2019

Completion Date: March 25, 2019

Drill Type: HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: CAIRO 4-31/30H

Purchaser/Measurer: MARKWEST

Location: ATOKA 31 2N 12E NE SE SE SW

First Sales Date: 03/29/2019

387 FSL 2395 FWL of 1/4 SEC

Latitude: 34.5941381 Longitude: -96.08384751 Derrick Elevation: 702 Ground Elevation: 679

Operator: BRAVO ARKOMA LLC 23562

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

	Completion Type
Х	Single Zone
	Multiple Zone
	Commingled

Location Exception
Order No
694068

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

		Cas	sing and Ceme	nt			
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20			40			SURFACE
SURFACE	9 5/8	40	J-55	1001		315	SURFACE
PRODUCTION	5 1/2	23	P-110	20234		1615	8367

				Liner				
Туре	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
			There are	no Liner record	ds to displa	ay.		

Total Depth: 20348

Pac	ker
Depth	Brand & Type
There are no Packe	r records to display.

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

Initial Test Data

July 23, 2019 1 of 2

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
May 01, 2019	MISSISSIPPIAN			8191		777	FLOWING	2387	26/64	1348

Completion and Test Data by Producing Formation

Formation Name: MISSISSIPPIAN

Code: 359MSSP

Class: GAS

Spacing	Orders
Order No	Unit Size
532198	640
688921	640
694067	MULTIUNIT

Perforated	d Intervals
From	То
11614	20144

Acid Volumes

17,000 GALLONS 15% HCL 428.

Fracture Treatments

428,007 BARRELS FRAC WATER, 13,136,772 POUNDS 40/70 SAND, 4,206,635 POUNDS 100 MESH SAND

Formation	Тор
MISSISSIPPIAN	11259

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 SUBMITTED.

Lateral Holes

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

NE NE NW NE

151 FNL 1518 FEL of 1/4 SEC

Depth of Deviation: 10874 Radius of Turn: 646 Direction: 1 Total Length: 10016

Measured Total Depth: 20348 True Vertical Depth: 11541 End Pt. Location From Release, Unit or Property Line: 151

FOR COMMISSION USE ONLY

1143070

Status: Accepted

July 23, 2019 2 of 2

ADDRESS

CITY

STATE

ZIP

EMAIL ADDRESS

Rev. 2009

PLEASE TYPE OR USE BLACK INK ONLY
FORMATION RECORD
Give formation names and tops, if available, or descriptions and thickness of formations

NAMES OF FORMATIONS	TOP	-			FC	R COMMISS	ION USE ONLY	
Mississippian	11,259		ITD on file	YES	NO			
			APPROVED		APPROVED			
			APPROVED		APPROVED	2) Reject Co	odes	
						7		
							_	
			Were open hole	logs run?	yes	xno		
			Date Last log w	as run				
						· ·		-
			Was CO ₂ enco	untered?	yes		at what depths?	
			Was H₂S encou	ntered?	yes	X no a	at what depths?	
			Were unusual d	rilling circum	stances encountered	12		yes X no
			f yes, briefly ex		istances encountered	41	-	_yes110
NAI-					7			
Other remarks:								
•								
640 Agree	DOTTOM HOLE LOO ATION	20 30						
640 Acres	BOTTOM HOLE LOCATION I	FOR DIRECTI	ONAL HOLE					
	BOTTOM HOLE LOCATION F	FOR DIRECTI	ONAL HOLE	NTY				
				т т				
	SEC TWP Spot Location 1/4	RGE	1/4	1/4 F	eet From 1/4 Sec Lin			FWL
	SEC TWP Spot Location	RGE	COU	1/4 F	eet From 1/4 Sec Lin			FWL
	SEC TWP Spot Location 1/4	RGE	1/4	1/4 F				FWL
	SEC TWP Spot Location 1/4 Measured Total Depth	RGE 1/4 True \	1/4 ertical Depth	1/4 F				FWL
	SEC TWP Spot Location 1/4 Measured Total Depth BOTTOM HOLE LOCATION F	RGE 1/4 True \	1/4 ertical Depth	1/4 F				FWL
	SEC TWP Spot Location 1/4 Measured Total Depth BOTTOM HOLE LOCATION F	1/4 True \	1/4 ertical Depth	1/4 E				FWL
	SEC TWP Spot Location 1/4 Measured Total Depth BOTTOM HOLE LOCATION F	1/4 True \	1/4 ertical Depth	1/4 E		it, or Property		FWL
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more than three drainholes are proposed, attach a	SEC TWP Spot Location 1/4 Measured Total Depth BOTTOM HOLE LOCATION F LATERAL #1 SEC 30 TWP 02N Spot Location NE 1/4 NE Depth of Deviation 10,874	True \ True \ FOR HORIZO RGE 1/4 N\ Radius	1/4 ertical Depth NTAL HOLE: (L 2E COU V 1/4 N of Turn	1/4 F E E E E E E E E E E E E E E E E E E	SHL From Lease, Uni	At T	oka NL 151 Total Length	
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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, LLC Lease Name and No.: CAIRO #4-31/30H

Footage: 387' FSL - 2395' FWL Pad Elevation: 679' Section: 31 Township: 2N Range: 12E I.M.

County: Atoka State of Oklahoma

LOT 1

LOT 2

D

LOT 3

A TOKA CO.

72N - R11E 72N - R12E

LOT 1

LOT 2

LOT 3

LOT 4

X:2574162 Y:469138

Terrain at Loc.: Location fell on existing Bravo Pad. 15' South of existing Thoman #1-31

151' FNL - 1518' FEL MD: 20348'

FIRST PERF: 355' FNL - 1523' FEI MD: 20144'

0

30

SECTION CROSSING

31

a

LAST PER 1800' FSL - 2159' FEI MD: 11614' TVD: 11263

1558' FFI

■

@

wellhead.



GPS DATUM NAD 27 OK SOUTH ZONE

X:2579240 Y:474505

X:2579356 Y:469232

Surface Hole Loc.: Lat: 34°35'38.90"N Lon: 96°05'01.85"W Lat: 34.59413809 Lon: -96.08384751 X: 2576651 Y: 464293

Last Perf: Lat: 34°35'52.89"N Lon: 96°04'54.09"W Lat: 34.59802395 Lon: -96.08169065 X: 2577273 Y: 465719

Section Crossing: Lat: 34°36'27.26"N Lon: 96°04'47.02"W Lat: 34.60757094 Lon: -96.07972821 X: 2577798 Y: 469204

First Perf: Lat: 34°37'15.94"N Lon: 96°04'46.76"W Lat: 34.62109442 Lon: -96.07965677 X: 2577725 Y: 474125

Bottom Hole Loc.: Lat: 34°37'17.96"N Lon: 96°04'46.71"W Lat: 34.62165459 Lon: -96.07964215 X: 2577726

nt Survey Plat or assum pation thereof, and may esent a true boundary s

Y: 474329

POFE SSIONAL PROFESSIONAL CARD LANCE G. SURVEYOR CENSED MATHIS 1664

OKLAHOMA

TOWIT TO

X:257426 Y:463856 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, 2020 Invoice #7284-AD Date Staked: 08/07/17 By: B.M.

Date Drawn: 05/08/19

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 05/08/19

OK LPLS 1664

X:2579471 Y:463966

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



API No.: \$005204680002 OTC Prod. Unit No.: 005-225486-0-000

Completion Report

Spud Date: August 22, 2017

Drilling Finished Date: January 31, 2019

1st Prod Date: March 29, 2019

Completion Date: March 25, 2019

Drill Type:

HORIZONTAL HOLE

Min Gas Allowable: Yes

Well Name: CAIRO 4-31/30H

Purchaser/Measurer: MARKWEST

Location:

ATOKA 31 2N 12E

NE SE SE SW 387 FSL 2395 FWL of 1/4 SEC First Sales Date: 03/29/2019

Latitude: 34.5941381 Longitude: -96.08384751 Derrick Elevation: 702 Ground Elevation: 679

Operator:

BRAVO ARKOMA LLC 23562

Multiunit: Sec. 31: 42.24% 225486

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

Sec. 30: 57.76% 225486A I

	Completion Type	
Х	Single Zone	
	Multiple Zone	
	Commingled	_

 Location Exception	
Order No	
694068	

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

1008-10

Casing and Cement							
Туре	Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR	20			40			SURFACE
SURFACE	9 5/8	40	J-55	1001		315	SURFACE
PRODUCTION	5 1/2	23	P-110	20234		1615	8367

Type Size Weight Grade Length PSI	SAX	Top Depth	Bottom Depth

Total Depth: 20348

Pac	ker
Depth	Brand & Type
There are no Packet	r records to display.

F	Plug
Depth	Plug Type
There are no Plu	g records to display.

Initial Test Data

359 MSSP

2387

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
May 01, 2019	MISSISSIPPIAN			8191		777	FLOWING	2387	26/64	1348

Completion and Test Data by Producing Formation

Formation Name: MISSISSIPPIAN

Code: 359MSSP

Class: GAS

Spacing Orders				
Order No	Unit Size			
532198 (30)	640			
688921 (3)	640 [
FO 7 6940673	MULTIUNIT			

Perforate	d Intervals
From	То
11614	20144

Acid Volumes

17,000 GALLONS 15% HCL

Fracture Treatments

428,007 BARRELS FRAC WATER, 13,136,772 POUNDS 40/70 SAND, 4,206,635 POUNDS 100 MESH SAND

Formation	Тор
MISSISSIPPIAN	11259

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 SUBMITTED.

Lateral Holes

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

NE NE NW NE

151 FNL 1518 FEL of 1/4 SEC

Depth of Deviation: 10874 Radius of Turn: 646 Direction: 1 Total Length: 10016

Measured Total Depth: 20348 True Vertical Depth: 11541 End Pt. Location From Release, Unit or Property Line: 151

FOR COMMISSION USE ONLY

1143070

Status: Accepted