

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.: 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
387 FSL 2395 FWL of 1/4 SEC
Latitude: 34.5941381 Longitude: -96.08384751
Derrick Elevation: 702 Ground Elevation: 679

First Sales Date: 03/29/2019

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	694068		There are no Increased Density records to display.	
	Commingled				

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

Total Depth: 20348

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
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 Intervals

From	To
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
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Formation	Top
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

OKLAHOMA CORPORATION
COMMISSION

COMPLETION REPORT

640 Acres

W

x

LOCATE WELL

EMAIL ADDRESS

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

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 X no

Date Last log was run _____

Was CO₂ encountered? yes X no at what depths? _____

Was H₂S encountered? yes X no at what depths? _____

Were unusual drilling circumstances encountered? yes X no

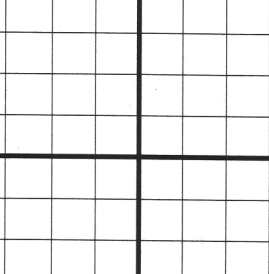
If yes, briefly explain below

640 Acres

x

y

640 Acres



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

LATERAL #1											
SEC	30	TWP	02N	RGE	12E	COUNTY					
						Atoka					
Spot Location						Feet From 1/4 Sec Lines		FNL	151	FEL	1518
NE 1/4		NE 1/4		NW 1/4		NE 1/4					
Depth of Deviation				Radius of Turn		Direction		Total Length			
10,874				646		1		10,016			
Measured Total Depth				True Vertical Depth		BHL From Lease, Unit, or Property Line:					
20,348				11,541		151					

SEC	TWP	RGE	COUNTY			
Spot Location						
1/4	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:		

SEC	TWP	RGE	COUNTY			
Spot Location						
1/4	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:		



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



All bearings shown
are grid bearings.



1" = 1320'

GPS DATUM
NAD 27
OK SOUTH ZONE

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

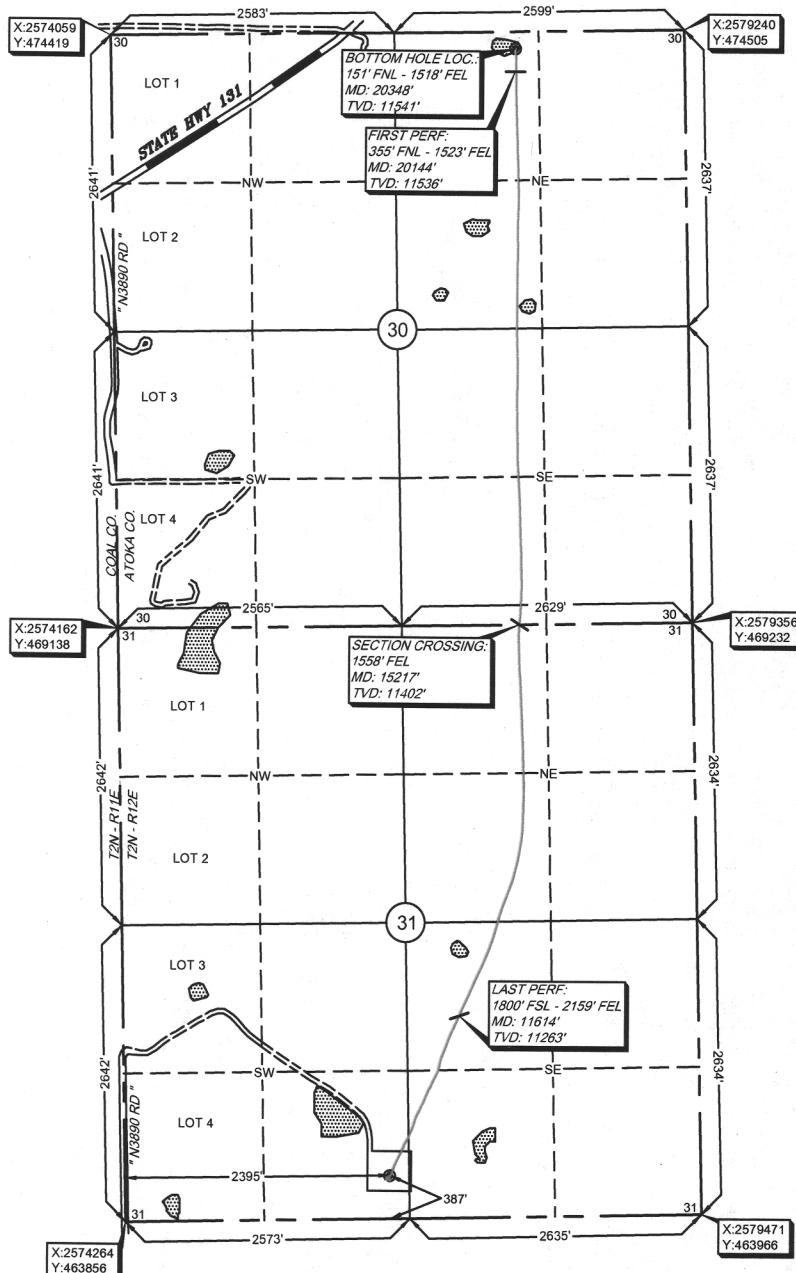
Last Perf:
Lat: 34°35'52.89"N
Lon: 96°04'54.09"W
Lat: 34.59802395
Lon: -96.08169065
X: 2577273
Y: 465719

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
Y: 474329

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 Atoka Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.
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. 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.



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 By: R.S.

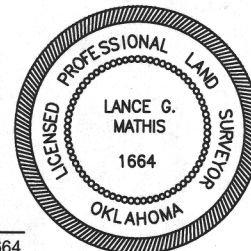
Certification:

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

05/08/19

OK LPLS 1664



8/1/19
Oklahoma Corporation Commission
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000
Rule 165: 10-3-25

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1016EZ

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TULSA, OK 74136-5067

Multifunit:

Sec. 31: 42.24% 225486 I

Sec. 30: 57.76% 225486A I

Completion Type	
X	Single Zone
	Multiple Zone
	Commingled

Location Exception	
Order No	
694068	

Increased Density	
Order No	
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~~700870~~

Multifunit FO:
700673

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Initial Test Data

July 23, 2019

EZ
EZ

5/1/19

359MSSP

2387

1 of 2

[Signature]

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