

OKLAHOMA CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
P.O. BOX 52000  
OKLAHOMA CITY, OK 73152-2000  
(Rule 165:10-3-1)

API NUMBER: 063 24868 A

Approval Date: 12/21/2018  
Expiration Date: 06/21/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: CHANGE TO HORIZONTAL MULTIUNIT OIL/GAS  
WELL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 8N Rge: 11E County: HUGHES  
SPOT LOCATION: SE SW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 1050 1670

Lease Name: ANDERSON WEST Well No: 2-3/34H Well will be 1050 feet from nearest unit or lease boundary.  
Operator BRAVO ARKOMA LLC Telephone: 9188944440; 9188944 OTC/OCC Number: 23562 0  
Name:

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

RAY ANDERSON & FELICIA ANDERSON  
8616 E. 126 ROAD  
WETUMKA OK 74883

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4108	6	
2	WOODFORD	4400	7	
3			8	
4			9	
5			10	

Spacing Orders: 659540  
666312

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810726  
201810727

Special Orders:

Total Depth: 15345 Ground Elevation: 867 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 120

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: CALVIN

F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:  
551649  
H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District  
Office of the Conservation Division as to when Surface Casing will be run.

## PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: CALVIN

## HORIZONTAL HOLE 1

Sec 34 Twp 9N Rge 11E County HUGHES

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1680

Depth of Deviation: 3963

Radius of Turn: 750

Direction: 5

Total Length: 10204

Measured Total Depth: 15345

True Vertical Depth: 4400

End Point Location from Lease,  
Unit, or Property Line: 165

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

12/19/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

#### HYDRAULIC FRACTURING

1/25/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: [FRACFOCUS.ORG](http://FRACFOCUS.ORG)

#### MEMO

1/28/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

063 24868 ANDERSON WEST 2-3/34H

Category	Description
PENDING CD - 201810726	2/1/2019 - G75 - (I.O.) 3-8N-11E & 34-9N-11E EST MULTIUNIT HORIZONTAL WELL X659540 MSSP, WDFD 3-8N-11E X666312 MSSP, WDFD 34-9N-11E (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 3-8N-11E 50% 34-9N-11E NO OP. NAMED REC 1-14-2019 (JOHNSON)
PENDING CD - 201810727	2/1/2019 - G75 - (I.O.) 3-8N-11E & 34-9N-11E X659540 MSSP, WDFD 3-8N-11E X666312 MSSP, WDFD 34-9N-11E COMPL. INT. (3-8N-11E) NCT 165' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (34-9N-11E) NCT 0' FSL, NCT 165' FNL, NCT 660' FWL NO OP. NAMED REC 1-14-2019 (JOHNSON)
SPACING - 659540	2/1/2019 - G75 - (640)(HOR) 3-8N-11E EXT 641266 MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 666312	2/1/2019 - G75 - (640)(HOR) 34-9N-11E EST OTHER EXT 663552 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

Terrain at Loc.: Location fell in timber, sloping down from the Northeast corner to the South and West.

All bearings shown  
are grid bearings.

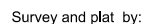
0'                      750                      1500                      2250

$$1'' = 1500'$$

OK SOUTH ZONE

realtor

\*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 Adams Surveying and Mapping promptly if you have any inconsistency or a determined GPS value is obtained from NGS. GPSs were surveyed on the ground, and further, does NOT represent a true Boundary Survey. Certain 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.



Rev. LP & BHL: 01/29/19 By: C.K.

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

02/01/19

OK LPLS 1664

