

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

API NUMBER: 029 21332 A

Approval Date: 03/29/2016  
Expiration Date: 09/29/2016

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE LOCATION, SURFACE OWNER & TOTAL DEPTH; UPDATE ORDERS & BOTTOM-HOLE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 35 Twp: 2N Rge: 11E County: COAL  
SPOT LOCATION:  NW  NE  NW  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 175 1885

Lease Name: MCENTIRE Well No: 3-35/2H Well will be 175 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

BRENDA JUNE POGUE  
ROUTE 1, BOX 1143  
COALGATE OK 74538

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

	Name	Depth	Name	Depth
1	CANEY	10230	6	
2	WOODFORD	10668	7	
3			8	
4			9	
5			10	

Spacing Orders: 556923 Location Exception Orders: 652450 Increased Density Orders: 652239  
556919 652099  
557850  
652237

Pending CD Numbers:

Special Orders:

Total Depth: 19906 Ground Elevation: 690 **Surface Casing: 1000** Depth to base of Treatable Water-Bearing FM: 110

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

PIT 1 INFORMATION

Type of Pit System: ON SITE  
Type of Mud System: AIR

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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.

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

H. SEE MEMO

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: SAVANNA

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

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: 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: SAVANNA

PIT 3 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: SAVANNA

HORIZONTAL HOLE 1

Sec 02 Twp 1N Rge 11E County COAL

Spot Location of End Point: NE SE NW SE

Feet From: SOUTH 1/4 Section Line: 1700

Feet From: EAST 1/4 Section Line: 1337

Depth of Deviation: 10496

Radius of Turn: 566

Direction: 175

Total Length: 8521

Measured Total Depth: 19906

True Vertical Depth: 10804

End Point Location from Lease,  
Unit, or Property Line: 1337

Notes:

Category	Description
DEEP SURFACE CASING	3/22/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	3/22/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

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.

Category	Description
INCREASED DENSITY - 652099	9/20/2016 - G75 - 35-2N-11E X556923 WDFD 3 WELLS BRAVO ARKOMA, LLC 4-26-2016
INCREASED DENSITY - 652239	9/20/2016 - G75 - 2-1N-11E X556919/557850 WDFD 3 WELLS BRAVO ARKOMA, LLC 4-29-2016
LOCATION EXCEPTION - 652450	9/20/2016 - G75 - (I.O.) 35-2N-11E & 2-1N-11E X556923 CNEY, WDFD 35-2N-11E X556919/557850 CNEY, WDFD 2-1N-11E SHL (35-2N-11E) COMPL. INT. (35-2N-11E) NCT 165' FNL, NCT 0' FSL, NCT 931' FEL COMPL. INT. (2-1N-11E) NCT 0' FNL, NCT 165' FSL, NCT 931' FEL BRAVO ARKOMA, LLC 5-6-2016
MEMO	3/22/2016 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM RETURNED TO VENDOR, OBM CUTTINGS PERMITTED PER DISTRICT
SPACING - 556919	3/23/2016 - G75 - (640) 2-1N-11E EXT 552331 WDFD EST CNEY
SPACING - 556923	3/23/2016 - G75 - (640) 35-2N-11E EXT OTHERS EXT 552331 WDFD EST CNEY
SPACING - 557850	3/23/2016 - G75 - NPT 556919 CHANGING FORMATION DEPTHS IN PARAGRAPH 1 OF ORDER
SPACING - 652237	9/20/2016 - G75 - (I.O.) 35-2N-11E & 2-1N-11E EST MULTIUNIT HORIZONTAL WELL X556923 CNEY, WDFD 35-2N-11E X556919/557850 CNEY, WDFD 2-1N-11E (CNEY ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 50% 35-2N-11E 50% 2-1N-11E BRAVO ARKOMA, LLC 4-29-2016

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.

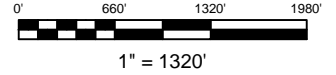


# WELL LOCATION PLAT - AS-DRILLED

S.H.L. Sec. 35-2N-11E I.M.  
B.H.L. Sec. 2-1N-11E I.M.

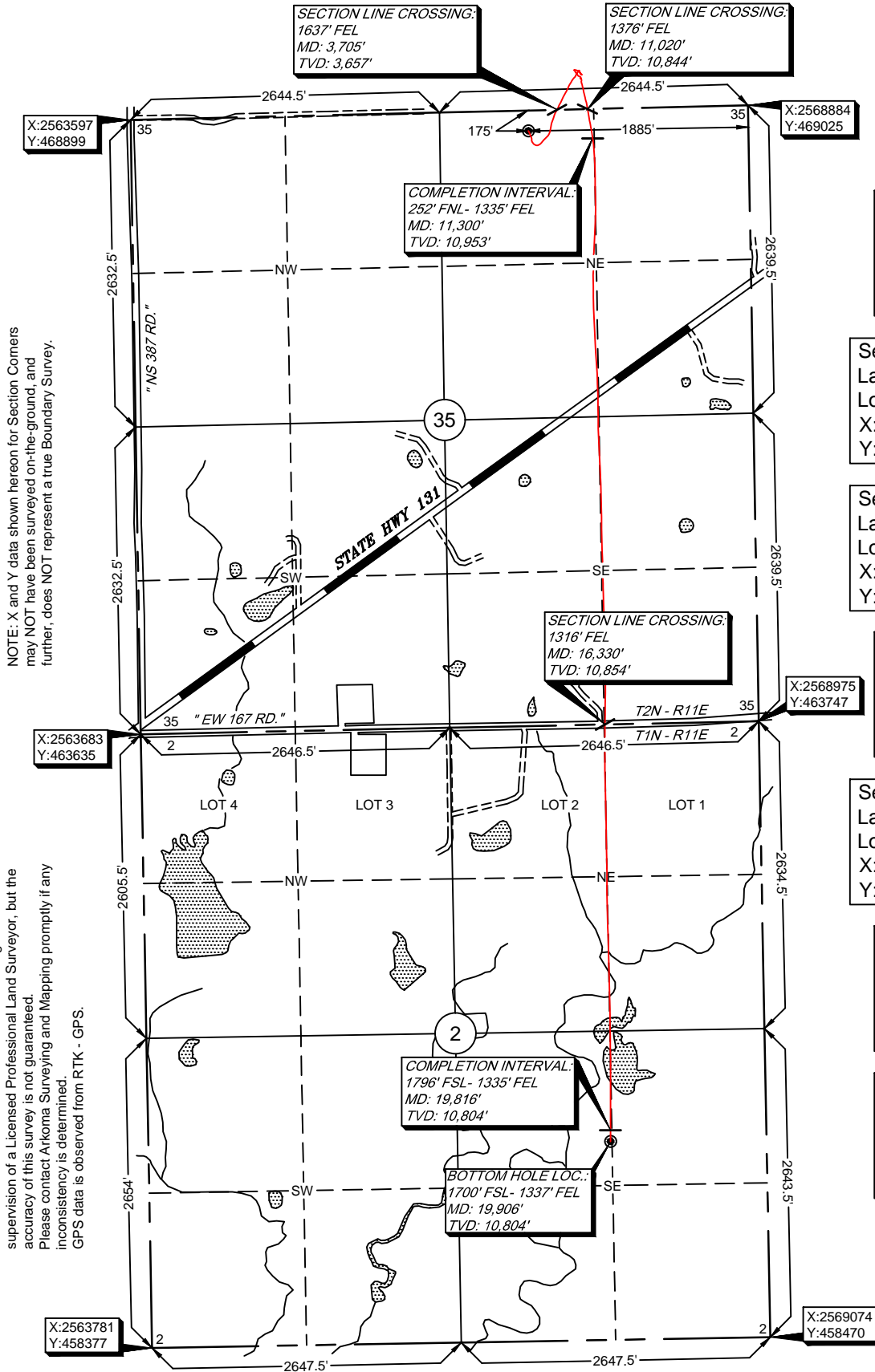
Operator : BRAVO NATURAL RESOURCES  
Lease Name and No. : McENTIRE 3-35/2H  
Footage : 175' FNL - 1885' FEL GR. ELEVATION : 690' Good Site? YES  
Section : 35 Township : 2N Range : 11E I.M.  
County : Coal State of Oklahoma  
Alternate Loc. : N/A  
Terrain at Loc. : Location fell in a flat, wooded area.

## API 029-21332 A



Accessibility : From the Southwest.

Directions : From the junction of U.S. Hwy 75/State Hwy 3 & State Hwy 31 in the town of Coalgate, OK, go 5.5 miles Northeast on State Hwy 31, continue 2.4 miles Northeast on State Hwy 131. Entrance of proposed location will be on the North side of highway.



GPS DATUM  
NAD - 27  
OK SOUTH ZONE

Surface Hole Loc.:  
Lat: 34°36'25.32"N  
Lon: 96°06'56.23"W  
X: 2567003  
Y: 468805

Section Line Crossing:  
Lat: 34°36'27.06"N  
Lon: 96°06'53.26"W  
X: 2567248  
Y: 468986

Section Line Crossing:  
Lat: 34°36'27.08"N  
Lon: 96°06'50.13"W  
X: 2567509  
Y: 468992

Completion Interval:  
Lat: 34°36'24.59"N  
Lon: 96°06'49.66"W  
X: 2567554  
Y: 468741

Section Line Crossing:  
Lat: 34°35'34.90"N  
Lon: 96°06'49.51"W  
X: 2567659  
Y: 463719

Completion Interval:  
Lat: 34°35'00.50"N  
Lon: 96°06'49.74"W  
X: 2567706  
Y: 460242

Bottom Hole Loc.:  
Lat: 34°34'59.55"N  
Lon: 96°06'49.76"W  
X: 2567706  
Y: 460146

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 August 31, 2018

Invoice #6230-B  
Date Staked : 03/14/16 By : H.S.  
Date Drawn : 03/15/16 By : K.M.  
Add As-Drilled : 08/30/16 By : R.S.  
Rev. BHL MD & TVD: 09/07/16 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

09/07/16  
OK LPLS 1664

