

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

API NUMBER: 063 24882 A

Approval Date: 02/15/2019  
Expiration Date: 08/15/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: CHANGE TO HORIZONTAL OIL/GAS WELL; ADD FORMATION; UPDATE ORDERS;

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 8N Rge: 11E County: HUGHES  
SPOT LOCATION:  NW  NW  NE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 2363 1120

Lease Name: **BROWN** Well No: **2-26/23/14H** Well will be **1120** 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

RYAN BROWN & RACHEL BROWN  
7940 E. 138 ROAD  
HOLDENVILLE OK 74848

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4220	6	
2	CANEY	4380	7	
3	WOODFORD	4735	8	
4	SYLVAN	4820	9	
5			10	

Spacing Orders: 657005 Location Exception Orders: Increased Density Orders:  
659541

Pending CD Numbers: 201900892  
201900893  
201900894  
201900897  
201900899  
201900898  
Special Orders:

Total Depth: 14801 Ground Elevation: 762 **Surface Casing: 1000** Depth to base of Treatable Water-Bearing FM: 190

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

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: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: SENORA

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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: 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: SENORA

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: SENORA

HORIZONTAL HOLE 1

Sec 14 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: N2 S2 NW SE

Feet From: SOUTH 1/4 Section Line: 1700

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 4179

Radius of Turn: 750

Direction: 355

Total Length: 9444

Measured Total Depth: 14801

True Vertical Depth: 4820

End Point Location from Lease,  
Unit, or Property Line: 1700

Notes:

Category

Description

DEEP SURFACE CASING

2/12/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

Category	Description
HYDRAULIC FRACTURING	2/25/2019 - 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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a> ; 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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
MEMO	2/12/2019 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM & OBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC; PIT 3 - OBM TO VENDOR
PENDING CD - 201900892	2/25/2019 - G75 - (640)(HOR) 23-8N-11E EXT 668322 MSSP, WDFD, SLVN COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (SLVN) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 2-25-2019 (M. PORTER)
PENDING CD - 201900893	2/25/2019 - G75 - (I.O.) 26, 23 & 14-8N-11E EST MULTIUNIT HORIZONTAL WELL X657005 CNEY, WDFD, SLVN 26-8N-11E X201900892 MSSP, WDFD, SLVN 23-8N-11E X659541 MSSP, WDFD, SLVN 14-8N-11E (CNEY, MSSP, SLVN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 20% 26-8N-11E 70% 23-8N-11E 10% 14-8N-11E NO OP. NAMED REC 2-25-2019 (M. PORTER)
PENDING CD - 201900894	2/25/2019 - G75 - (I.O.) 26, 23 & 14-8N-11E X657005 CNEY, WDFD, SLVN 26-8N-11E X201900892 MSSP, WDFD, SLVN 23-8N-11E X659541 MSSP, WDFD, SLVN 14-8N-11E COMPL. INT. (26-8N-11E) NFT 2362' FSL, NCT 0' FNL, NCT 990' FEL COMPL. INT. (23-8N-11E) NCT 0' FSL, NCT 0' FNL, NCT 990' FEL COMPL. INT. (14-8N-11E) NCT 0' FSL, NCT 2640' FNL, NCT 990' FEL NO OP. NAMED REC 2-25-2019 (M. PORTER)
PENDING CD - 201900897	2/25/2019 - G75 - (I.O.) 14-8N-11E X659541 WDFD 2 WELLS NO OP. NAMED REC 2-25-2019 (M. PORTER)
PENDING CD - 201900898	2/25/2019 - G75 - 23-8N-11E X201900892 WDFD 1 WELL NO OP. NAMED REC 2-25-2019 (M. PORTER)
PENDING CD - 201900899	2/25/2019 - G75 - 26-8N-11E X657005 WDFD 2 WELLS NO OP. NAMED REC 2-25-2019 (M. PORTER)
SPACING - 657005	2/25/2019 - G75 - (640)(HOR) 26-8N-11E EXT 616553 CNEY EXT 642100 WDFD, SLVN COMPL. INT. (CNEY, SLVN) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 524633 CNEY, WDFD)
SPACING - 659541	2/25/2019 - G75 - (640)(HOR) 14-8N-11E EXT 641266 MSSP, WDFD, SLVN, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (SLVN) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

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.

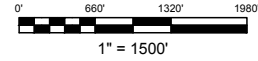
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Operator: BRAVO NATURAL RESOURCES, LLC  
 Lease Name and No.: BROWN 2-26/23/14H  
 Footage: 2363' FSL - 1120' FEL Gr. Elevation: 762'  
 Section: 26 Township: 8N Range: 11E I.M.  
 County: Hughes State of Oklahoma  
 Terrain at Loc.: Location fell in a pasture with light timber.

## API 063-24882 A



All bearings shown  
are grid bearings.

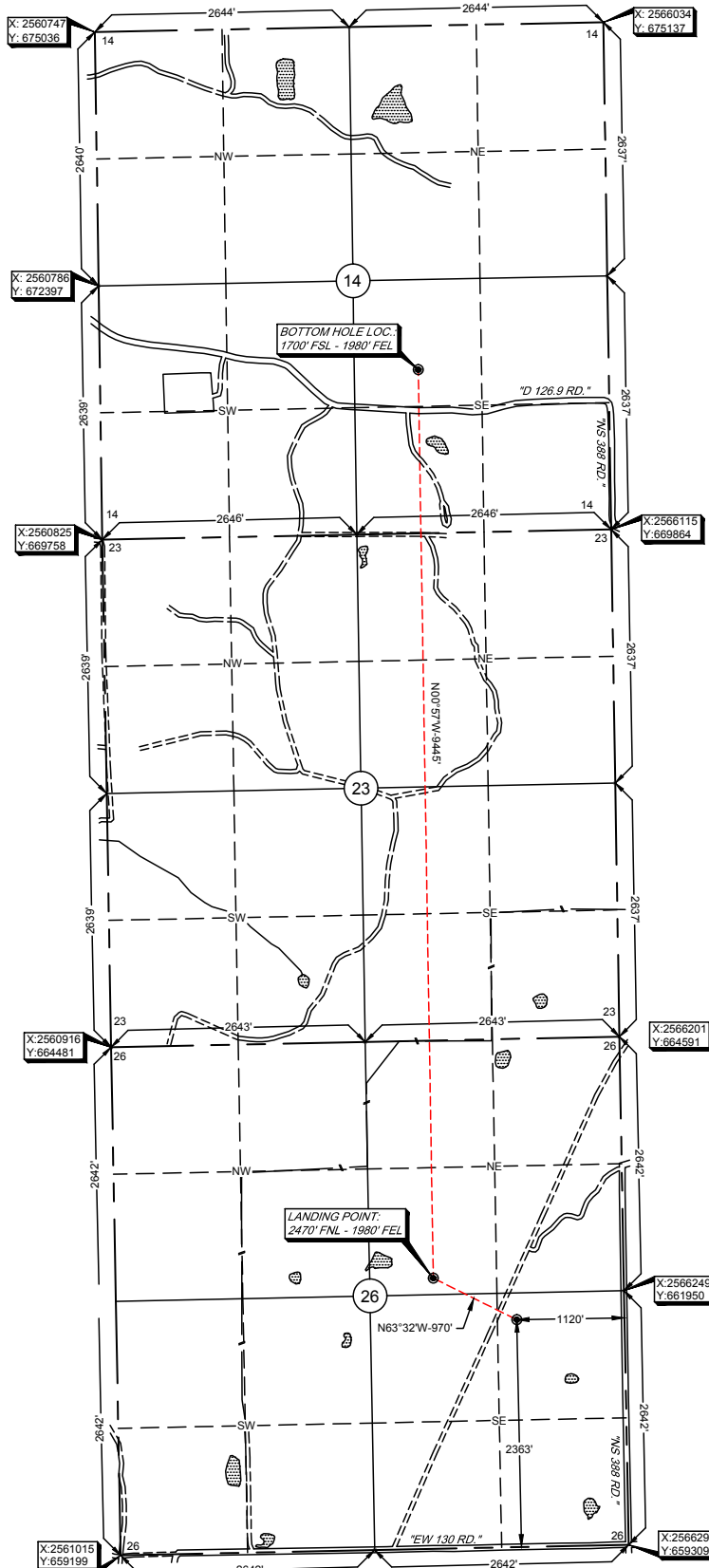


GPS DATUM  
NAD 27  
OK SOUTH ZONE

Surface Hole Loc.:  
 Lat: 35°08'12.87"N  
 Lon: 96°06'35.38"W  
 Lat: 35.13690827  
 Lon: -96.10982777  
 X: 2565135  
 Y: 661648

Landing Point:  
 Lat: 35°08'17.31"N  
 Lon: 96°06'45.74"W  
 Lat: 35.13814033  
 Lon: -96.11270427  
 X: 2564266  
 Y: 662080

Bottom Hole Loc.:  
 Lat: 35°09'50.73"N  
 Lon: 96°06'45.50"W  
 Lat: 35.16409088  
 Lon: -96.11263773  
 X: 2564110  
 Y: 671524



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, and the accuracy of this survey is dependent upon the accuracy of the ground measurements. GPS data is observed from RTK - GPS. Any inconsistency is determined. GPS data is observed from RTK - GPS. -NOTE: X and Y data shown herein 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 on file with the Oklahoma State Department of Transportation. X and Y data shown herein 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

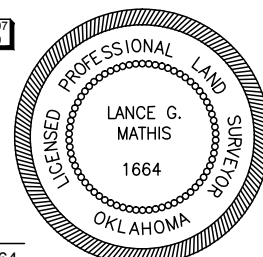
**Certification:**

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

02/13/19

OK LPLS 1664



Invoice #8384-A-B  
 Date Staked: 12/11/18 By: D.A.  
 Date Drawn: 12/12/18 By: J.H.  
 Rev. Lse. Name/Added LP & BHL: 02/12/19 By: J.K.