

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

API NUMBER: 063 24829 A

Approval Date: 07/18/2018

Expiration Date: 01/18/2019

Horizontal Hole Oil & Gas

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

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 8N Rge: 11E County: HUGHES  
SPOT LOCATION: ☐ SE ☐ SW ☐ NE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 1497 814

Lease Name: JOHNSON TRUST Well No: 3-9/16H Well will be 814 feet from nearest unit or lease boundary.  
Operator Name: BRAVO ARKOMA LLC Telephone: 9188944440; 9188944 OTC/OCC Number: 23562 0

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

MARK L. MASENBRICK  
16217 SE 119TH STREET  
NEWALLA OK 74857

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	3758	6	
2	WOODFORD	4318	7	
3			8	
4			9	
5			10	

Spacing Orders: 662335

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805678  
201805681  
201805679  
201805680

Special Orders:

Total Depth: 12116 Ground Elevation: 865 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

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: CALVIN

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. PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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: CALVIN

HORIZONTAL HOLE 1

Sec 16 Twp 8N Rge 11E County HUGHES

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 4056

Radius of Turn: 382

Direction: 170

Total Length: 7460

Measured Total Depth: 12116

True Vertical Depth: 4583

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

Notes:

Category

Description

DEEP SURFACE CASING

7/16/2018 - 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

8/6/2018 - 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)

PENDING CD - 201805678

8/21/2018 - G75 - (640)(HOR) 16-8N-11E  
EXT 666137 MSSP, WDFD, OTHER  
COMPL. INT. (MSSP) NLT 660' FB  
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL  
REC 8-6-2018 (DUNN)

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 24829 JOHNSON TRUST 3-9/16H

Category	Description
PENDING CD - 201805679	8/22/2018 - G75 - (I.O.) 9 & 16-8N-11E EST MULTIUNIT HORIZONTAL WELL X662335 MSSP, WDFD 9-8N-11E X201805678 MSSP, WDFD 16-8N-11E (MSSP ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 28% 9-8N-11E 72% 16-8N-11E NO OP. NAMED REC 8-6-2018 (DUNN)
PENDING CD - 201805680	8/22/2018 - G75 - (I.O.) 9 & 16-8N-11E X662335 MSSP, WDFD 9-8N-11E X201805678 MSSP, WDFD 16-8N-11E COMPL. INT. (9-8N-11E) NCT 2640' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (16-8N-11E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 8-6-2018 (DUNN)
PENDING CD - 201805681	8/22/2018 - G75 - (I.O.) 9-8N-11E X662335 WDFD 1 WELL NO OP. NAMED REC 8-6-2018 (DUNN)
SPACING - 662335	8/21/2018 - G75 - (640)(HOR) 9-8N-11E EXT 659540 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' 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.



# Well Location Plat

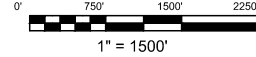
S.H.L. Sec. 8-8N-11E I.M.  
B.H.L. Sec. 16-8N-11E I.M.

Operator: BRAVO NATURAL RESOURCES, LLC  
Lease Name and No.: JOHNSON TRUST 3-9/16H  
Footage: 1497' FSL - 814' FEL Gr. Elevation: 865'  
Section: 8 Township: 8N Range: 11E I.M.  
County: Hughes State of Oklahoma  
Terrain at Loc.: Location fell on existing location.

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All bearings shown  
are grid bearings.

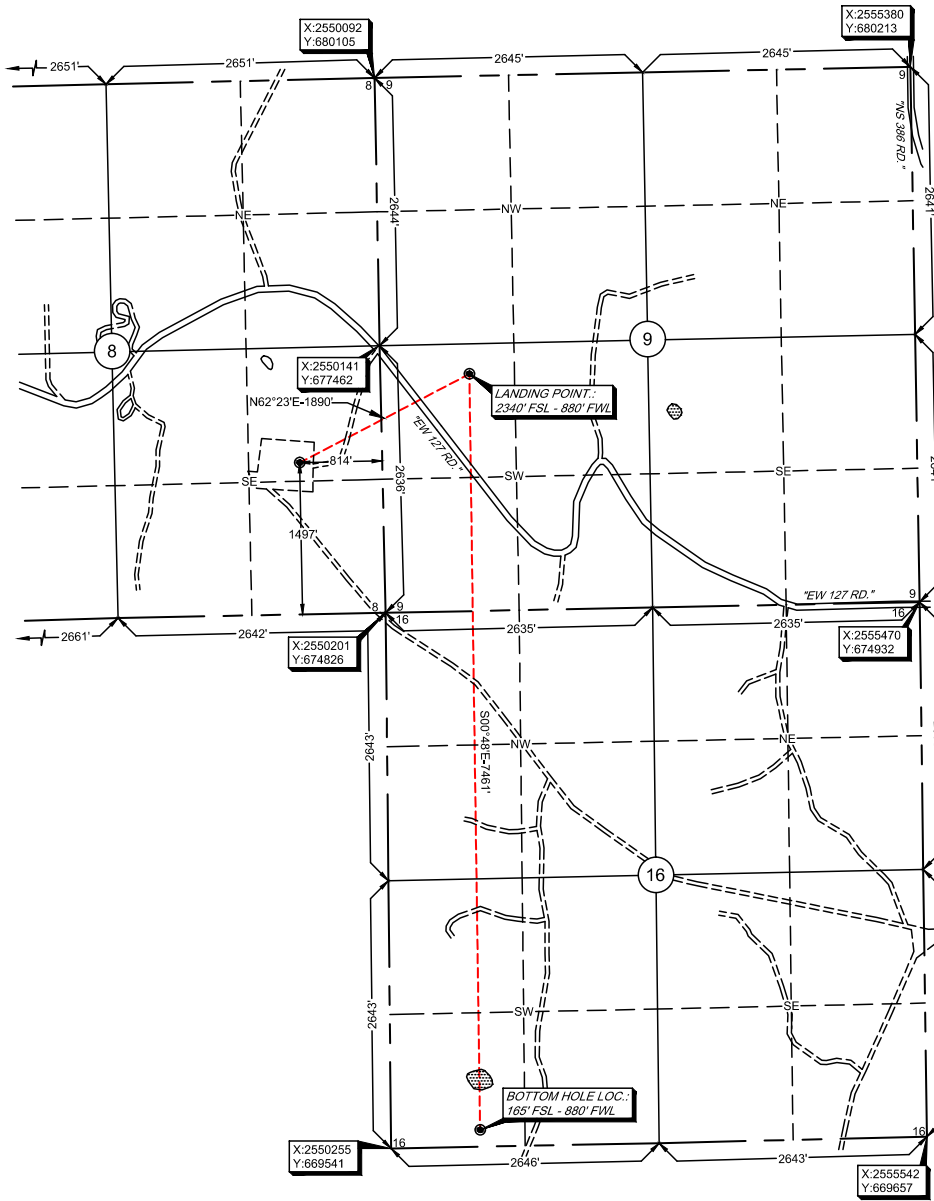


GPS DATUM  
NAD 27  
OK SOUTH ZONE

Surface Hole Loc.:  
Lat: 35°10'40.72"N  
Lon: 96°09'42.15"W  
X: 2549353  
Y: 676307

Landing Point:  
Lat: 35°10'49.08"N  
Lon: 96°09'21.79"W  
X: 2551027  
Y: 677183

Bottom Hole Loc.:  
Lat: 35°09'35.29"N  
Lon: 96°09'22.16"W  
X: 2551133  
Y: 669723



\*Please note that this location was staked on the ground under the supervision of the undersigned and is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is obtained 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, and is not intended to be used as such. The location of the well is assumed at a proportionate distance from opposing section corners. Location 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 #6954-B-C  
Date Staked: 07/09/18 By: D.A.  
Date Drawn: 07/11/18 By: C.K.  
Added LP & BHL: 07/20/18 By: K.B.

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 07/25/18  
OK LPLS 1664

