

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

API NUMBER: 063 24658

Approval Date: 03/13/2017  
Expiration Date: 09/13/2017

Horizontal Hole Oil & Gas

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: 1470 960

Lease Name: PICKLE Well No: 1-8/5/32H Well will be 960 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	3976	6	
2	WOODFORD	4286	7	
3	SYLVAN	4356	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701162  
201701193  
201701173

Special Orders:

Total Depth: 13982 Ground Elevation: 864 Surface Casing: 1500 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. 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: CALVIN

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: CALVIN

HORIZONTAL HOLE 1

Sec 32 Twp 9N Rge 11E County HUGHES

Spot Location of End Point: NW NW SW SE

Feet From: SOUTH 1/4 Section Line: 1000

Feet From: EAST 1/4 Section Line: 2565

Depth of Deviation: 3949

Radius of Turn: 900

Direction: 350

Total Length: 8619

Measured Total Depth: 13982

True Vertical Depth: 4356

End Point Location from Lease,  
Unit, or Property Line: 1000

Notes:

Category	Description
DEEP SURFACE CASING	3/9/2017 - 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	3/9/2017 - 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

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Category	Description
MEMO	3/9/2017 - G71 - PIT 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 3 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201701162	3/9/2017 - G75 - (640)(HOR) 8 & 5-8N-11E, 32-9N-11E EXT 659540 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 3-10-2017 (JOHNSON)
PENDING CD - 201701173	3/9/2017 - G75 - (I.O.) 8 & 5-8N-11E, 32-9N-11E EST MULTIUNIT HORIZONTAL WELL X201701162 MSSP, WDFD, SLVN (MSSP, SLVN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 26% 8-8N-11E 62% 5-8N-11E 12% 32-9N-11E NO OP. NAMED REC 3-10-2017 (JOHNSON)
PENDING CD - 201701193	3/9/2017 - G75 - (I.O.) 8 & 5-8N-11E, 32-9N-11E X201701162 MSSP, WDFD, SLVN COMPL. INT. (8-8N-11E) NFT 2640' FNL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (5-8N-11E) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (32-9N-11E) NCT 0' FSL, NCT 2640' FSL, NCT 330' FEL NO OP. NAMED REC 3-10-2017 (JOHNSON)

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Office of the Conservation Division as to when Surface Casing will be run.

# BNR Well Location Plat

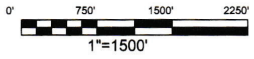
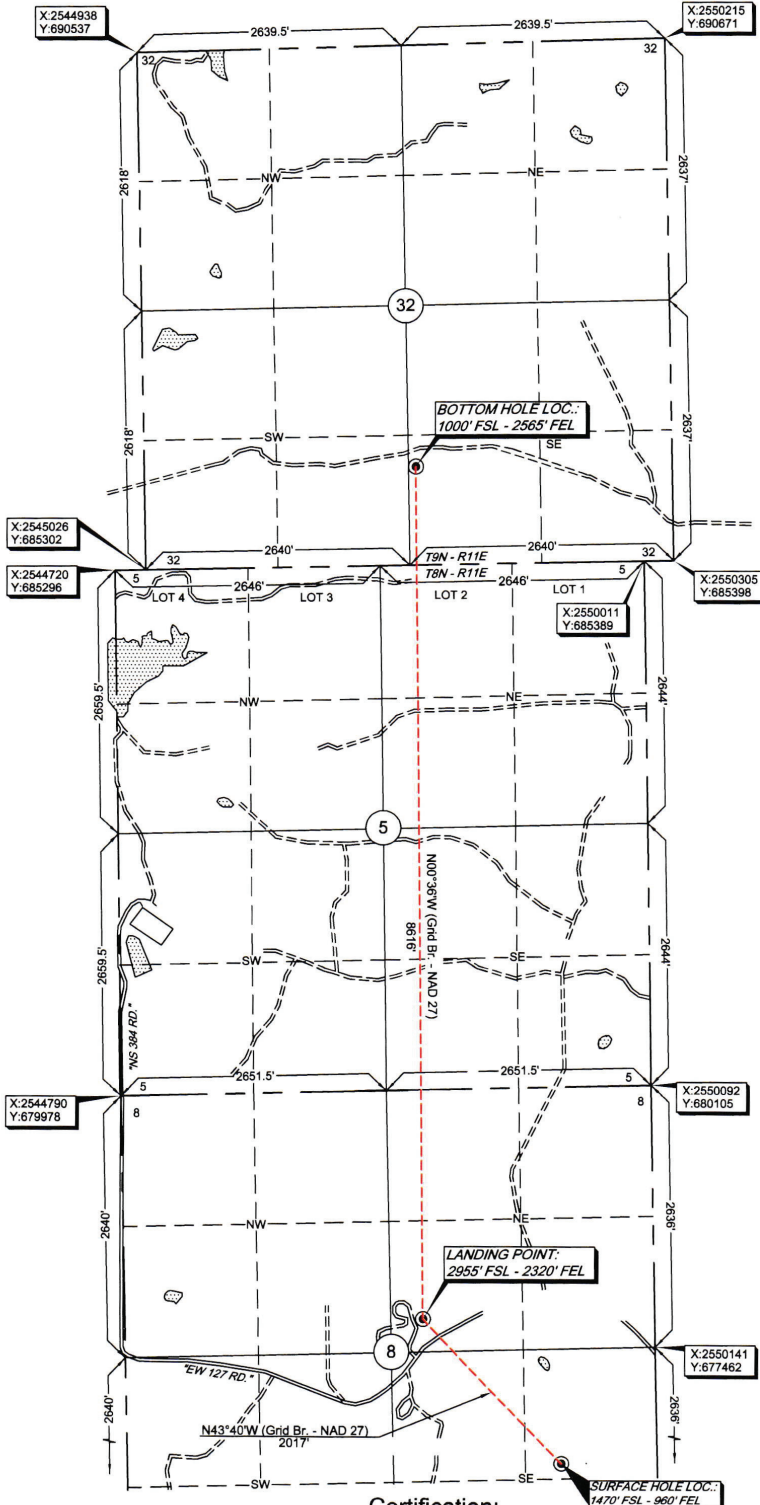
S.H.L. Sec. 8-8N-11E I.M.  
B.H.L. Sec. 32-9N-11E I.M.

Operator: BRAVO NATURAL RESOURCES  
Lease Name and No. : PICKLE 1-8/5/32H  
Footage : 1470' FSL - 960' FEL GR. ELEVATION : 864' Good Site? YES  
Section: 8 Township: 8N Range: 11E I.M.  
County : Hughes State of Oklahoma  
Alternate Loc.: N/A

API 063-24658



Terrain at Loc. : Location fell in timber.  
Accessibility : From the South. Directions : From the junction of State Highway 9 and US Highway 75 in Wetumka, OK, go 3.1 miles South on US Highway 75, go 4.0 miles East on "EW126 Road", go 0.5 mile South on "NS384 Road", go 1.2 miles East on "EW127 Road" to the Southwest Corner of Section 8-8N-11E.



GPS DATUM  
NAD - 27  
OK SOUTH ZONE

Surface Hole Loc.:  
Lat: 35°10'40.45"N  
Lon: 96°09'43.90"W  
X: 2549208  
Y: 676277

Landing Point:  
Lat: 35°10'55.12"N  
Lon: 96°10'00.35"W  
X: 2547815  
Y: 677736

Bottom Hole Loc.:  
Lat: 35°12'20.33"N  
Lon: 96°09'59.57"W  
X: 2547724  
Y: 686351

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. 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.

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, 2018  
Invoice #6954-A-A  
Date Staked : 03/06/17 By : H.S.  
Date Drawn : 03/07/17 By : P.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*  
LANCE G. MATHIS 03/08/17  
OK LPLS 1664

