

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

API NUMBER: 029 21344 A

Approval Date: 08/18/2016
Expiration Date: 02/18/2017

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION: FOOTAGES

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 1N Rge: 9E

County: COAL

SPOT LOCATION: NW NW NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 215 250

Lease Name: OWL ROAD

Well No: 2-4/9H

Well will be 165 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

COAL COUNTY PROPERTIES LLC
37234 CR 1680
CENTRAHOMA OK 74534

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

	Name	Depth	Name	Depth
1	CANEY	7120	6	
2	WOODFORD	7260	7	
3	HUNTON	7460	8	
4	SYLVAN	7690	9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602188
201602187
201602189

Special Orders:

Total Depth: 14000

Ground Elevation: 658

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 250

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: SAVANNA

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: SAVANNA

PIT 3 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER 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 09 Twp 1N Rge 9E County COAL

Spot Location of End Point: S2 N2 SW SW

Feet From: SOUTH 1/4 Section Line: 760

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 6600

Radius of Turn: 1003

Direction: 170

Total Length: 5825

Measured Total Depth: 14000

True Vertical Depth: 7690

End Point Location from Lease,
Unit, or Property Line: 760

Notes:

Category	Description
DEEP SURFACE CASING	8/16/2016 - 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	8/16/2016 - 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 HTTP://FRACFOCUS.ORG/ 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
MEMO	8/16/2016 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201602187	8/17/2016 - G60 - (640) 4 & 9-1N-9E EXT 650787 CNEY, WDFD, HNTN, SLVN COMPL. INT. (HNTN) NLT 606' FB COMPL. INT. (CNEY, SLVN) NLT 330' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP. ORDER 108560/267042 HNTN SECTION 4; SP. ORDER 108560/422953 HNTN SW4 SECTION 4 SP. ORDER 583283 MSSP, WDFD, HNTN, SLVN N2 SECTION 4; SP. ORDER 108560 HNTN, SECTION 9 REC. 8-15-16 (JOHNSON)
PENDING CD - 201602188	8/17/2016 - G60 - (I.O.) 4 & 9-1N-9E EST MULTIUNIT HORIZONTAL WELL X201602187 CNEY, WDFD, HNTN, SLVN (CNEY, HNTN, SLVN ARE ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) NO OP. NAMED REC. 8-15-16 (JOHNSON) 38% 4-1N-9E 62% 9-1N-9E
PENDING CD - 201602189	8/17/2016 - G60 - (I.O.) 4 & 9-1N-9E X201602187 CNEY, WDFD, HNTN, SLVN SHL NCT 2490' FNL, NCT 410' FSL ** COMPL INT. (4-1N-9E) NCT 2145' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (9-1N-9E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 8-15-16 (JOHNSON)

** ON ITD 215' FNL, 250' FEL (4-1N-9E) WILL BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR