APPLICATION TO DRILL, RECOMPLETE OR REENTER

FORM 1000
REV. 2018
Page 1 of 2

FILE ORIGINAL ONLY
PLEASE TYPE OR USE BLACK INK

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

BATCH NUMBER (OCC USE ONLY)

1. OTC/OCC OPERATOR NUMBER: **23562**

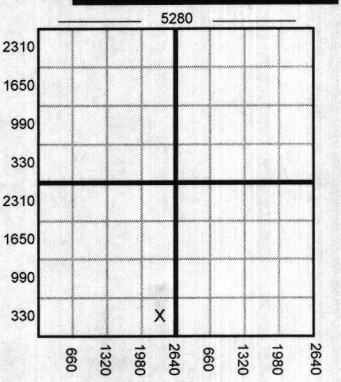
2. API NUMBER: **35-005-20463**

NOTE: Annotate one of the fee options on Page 2.

3. NOTICE OF INTENT TO: *(CHECK ONLY ONE)*
___ DRILL ___ RECOMPLETE ___ REENTER ___ DEEPEN X AMEND - REASON
NOTE: ATTACH COPY OF 1002-A IF RECOMPLETION OR REENTRY.

4. TYPE OF DRILLING OPERATION >>>>>>>> (NOTE: If directional or horizontal, see reverse side for bottom hole location)
A. ___ STRAIGHT HOLE ___ DIRECTIONAL HOLE X HORIZONTAL HOLE ___ MULTI ___ TEMPORARY
B. X OIL/GAS ___ INJECTION ___ DISPOSAL ___ WATER SUPPLY ___ STRAT TEST ___ SERVICE WELL

6. LOCATE WELL AND OUTLINE LEASE OR SPACING UNIT IN INK ⬇ BELOW ⬇



5. WELL LOCATION:

SECTION	TOWNSHIP	RANGE	COUNTY
31	02N	12E	ATOKA

SPOT LOCATION	FEET FROM ¼ - SECTION:	NORTH / SOUTH (?) LINE: (circle one option above)	EAST / WEST (?) LINE: (circle one option above)
NE 1/4 | SE 1/4 | SE 1/4 | SW 1/4		387 ⬅ feet	2395 ⬅ feet

7. Well will be 387 feet from nearest unit / property boundary.

8. LEASE NAME: CAIRO WELL NUMBER: 4-31/30H

9. NAME OF OPERATOR: BRAVO ARKOMA, LLC EMAIL ADDRESS: THAROLD@BRAVONR.COM
ADDRESS: 1323 E 71st STREET, SUITE 400 PHONE (AC/NUMBER): (918)894-4481
CITY: TULSA STATE: OK ZIP CODE: 74136

10. SURFACE OWNER (ONE ONLY, ATTACH SHEET FOR ADDITIONAL OWNERS): BRAVO ARKOMA, LLC
ADDRESS: 1323 E 71ST STREET, SUITE 400
CITY: TULSA STATE: OK ZIP CODE: 74136

11. Well located on lands under federal jurisdiction? ___ Y X N

12. Will a water well be drilled ___ Y X N
Will surface water be used X Y ___ N

13. Spud Date: 08/22/17

14. LIST TARGET FORMATIONS AND DEPTHS OF EACH BELOW (LIMITED TO TEN)

1) MISSISSIPPIAN - 11,073
2) WOODFORD - 11,364
3) HUNTON - 11,527
4)
5)
6)
7)
8)
9)
10)

15. SPACING ORDER NUMBER(S) AND SIZE UNIT(S): 246342 / 532198 UNSPACED LEASE OUTLINE

16. PENDING APPLICATION C.D. NO.: 201808647/201809566/201809565
17. LOCATION EXCEPTION ORDER NO.:
18. INCREASED DENSITY ORDER NO.:

19. TOTAL DEPTH	20. GROUND ELEV.	21. BASE OF TREATABLE WATER	22. SURFACE CASING	23. ALT CASING PROG USED?
20232	679	100	1000	___ Y X N

24. ALTERNATIVE CASING PROCEDURE, check box and fill in blank (AFFIDAVIT REQUIRED, see reverse side, line 31.)
___ A. Cement will be circulated from total depth to ground surface on the production casing string.
___ B. Cement will be circulated from _____ depth to _____ depth by use of a two stage cementing tool.

25.1. PIT INFORMATION: Using more than one pit or mud system? ___ Y ___ N If yes, fill out line 25.2 on top reverse side.
A. TYPE OF MUD SYSTEM: X WATER BASED ___ OIL BASED ___ GAS BASED (AIR DRILL)
B. EXPECTED MUD CHLORIDE CONTENT: maximum: 8000 ppm; average: 5000 ppm.
PIT #1 C. TYPE OF PIT SYSTEM: ___ on-site ___ off-site X closed If off-site, specify location: _____
D. IS DEPTH TO TOP OF GROUND WATER GREATER THAN 10 FT BELOW BASE OF PIT? X Y ___ N
E. WITHIN 1 MILE OF MUNICIPAL WATER WELL? ___ Y X N Off-Site Pit No. _____
F. WELLHEAD PROTECTION AREA? ___ Y X N

26.1 *OCC USE ONLY*
A. CATEGORY 1A 1B 2 3 4 C
B. PIT LOCATION: ___ Alluvial Plain ___ Terrace Deposit ___ Bedrock Aquifer ___ Other H.S.A. ___ Non-H.S.A. Fm: _____
C. Special area or field rule? _____ _____ D. DEEP SCA? ___ Y ___ N E. CBL required? ___ Y ___ N
F. SOIL COMPACTED LINER REQUIRED? ___ Y ___ N G. 20 mil GEOMEMBRANE LINER REQUIRED? ___ Y ___ N

27. PROPOSED METHOD FOR DISPOSAL OF DRILLING FLUIDS (**MUST BE COMPLETED**)
X A. Evaporation/dewater and backfilling of reserve pit.
___ B. Public Landfill: Location _____
___ C. Annular Injection (REQUIRES PERMIT and surface casing set **200** feet below base of treatable water-bearing formation.) PERMIT NO _____
___ D. One time land application ---------- (REQUIRES PERMIT) PERMIT NO. _____
___ E. Haul to Commercial pit facility; Specify site: _____ Order No. _____
X F. Haul to Commercial soil farming facility; Specify site: 14-7N-9E Order No. 551649
___ G. Haul to recycling/re-use facility; Specify site: _____ Order No. _____
___ H. Other, Specify: WBM & OBM cuttings captured in lined pit, solidified and held until disposal; Pit 2 - OBM to vendor

I hereby certify I am authorized to submit this two page application prepared by me or under my supervision.
The facts and proposals made herein are true, correct and complete to the best of my knowledge and belief.

SIGNATURE	NAME (Print or Type)	PHONE (AC/NO.)	FAX (AC/NO.)	DATE
	Tyler Harold	(918)894-4481	(918)894-4052	11/19/18

NOTICE:

NOTICE: Approval is void if operations have not commenced within eighteen months of the date of approval.
An approved permit must be posted at the location during drilling and completion operations.
File the Form 1001A, Spud Report, within fourteen days of commencement of operations.

NOTIFY DISTRICT OFFICE 24 HOURS PRIOR TO CEMENTING SURFACE CASING.

25.2. PIT INFORMATION:

A. TYPE OF MUD SYSTEM: ___ WATER BASED X OIL BASED ___ GAS BASED (AIR DRILL)

B. EXPECTED MUD CHLORIDE CONTENT: maximum: 300000 ppm; average: 200000 ppm.

PIT #2 C. TYPE OF PIT SYSTEM: ___ on-site ___ off-site X closed If off-site, specify location: _____

D. IS DEPTH TO TOP OF GROUND WATER GREATER THAN 10 FT BELOW BASE OF PIT? X Y ___ N

E. WITHIN 1 MILE OF MUNICIPAL WATER WELL? ___ Y X N Off-Site Pit No. _____

F. WELLHEAD PROTECTION AREA? ___ Y X N

26.2 OCC USE ONLY A. CATEGORY 1A 1B 2 3 4 C Fm: _____

B. PIT LOCATION: ___ Alluvial Plain ___ Terrace Deposit ___ Bedrock Aquifer ___ Other H.S.A. ___ Non-H.S.A.

C. Special area or field rule? _____ D. DEEP SCA? ___ Y ___ N E. CBL? ___ Y ___ N

F. SOIL COMPACTED LINER REQUIRED? ___ Y ___ N G. 20 mil GEOMEMBRANE LINER REQUIRED? ___ Y ___ N

29. Bottom Hole Location for Directional Hole: SEC TWP RGE COUNTY

SPOT LOCATION: 1/4 1/4 1/4 1/4 | FEET FROM QUARTER SECTION LINES: from SOUTH LINE from WEST LINE

Measured Total Depth | True Vertical Depth | BHL from nearest Lease, Unit, Or Property Line:

30. Bottom Hole Location for Horizontal Hole: (LATERALS)

LATERAL #1: SEC 30 TWP 02N RGE 12E COUNTY ATKOA

SPOT LOCATION: NE 1/4 NW 1/4 NW 1/4 NE 1/4 | FEET FROM QUARTER SECTION LINES: from NORTH LINE 165 from EAST LINE 2000

Depth of Deviation	Radius of Turn	Direction	Total Length
10693	680	359	20232

Measured Total Depth	True Vertical Depth	End Point location from nearest lease, unit or property line:
10015	11386	165

LATERAL #2: SEC TWP RGE COUNTY

SPOT LOCATION: 1/4 1/4 1/4 1/4 | FEET FROM QUARTER SECTION LINES: from SOUTH LINE from WEST LINE

Depth of Deviation	Radius of Turn	Direction	Total Length

Measured Total Depth	True Vertical Depth	End Point location from nearest lease, unit or property line:

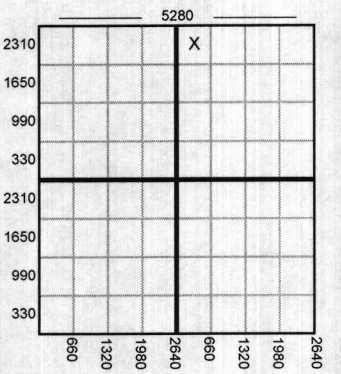
LATERAL #3: SEC TWP RGE COUNTY

SPOT LOCATION: 1/4 1/4 1/4 1/4 | FEET FROM QUARTER SECTION LINES: from SOUTH LINE from WEST LINE

Depth of Deviation	Radius of Turn	Direction	Total Length

Measured Total Depth	True Vertical Depth	End Point location from nearest lease, unit or property line:

28. Locate Bottom Hole



1. If more than two drainholes are proposed, attach separate sheet indicating the necessary information.
2. Direction must be stated in degrees azimuth.
3. Please note the horizontal drainhole and its end point must be located within the legal boundaries of the lease or spacing unit. Directional surveys are required for all drainholes and directional wells.

31. AFFIDAVIT FOR ALTERNATIVE CASING PROGRAM (Signature on front of this form attests to this affidavit)

1. This well ___ WILL ___ WILL NOT penetrate any known lost circulation zones.
2. During the drilling of this well, withdrawals from any water well within 1/4 mile ___ WILL ___ WILL NOT exceed 50 gallons per minute.
3. The projected depth of the well ___ IS ___ IS NOT less than 100 feet from the top of any enhanced recovery project or gas storage facility.
4. List the following for all water wells within 1/4 mile of this well. (Information concerning some water wells may be obtained from the OKLAHOMA WATER RESOURCES BOARD, 3800 N. Classen Blvd., Oklahoma City, OK 73118). IF NO WATER WELLS FOUND, SO STATE. (ATTACH ADDITIONAL SHEET IF NECESSARY)

Name of Owner/Operator	Address of Owner/Operator	Location (Nearest 1/4 1/4 1/4 1/4))	Depth of Well
No water wells found			

5. A cement bond log is required to be run and submitted from not less than 100 feet below the base of the treatable water-bearing formation to the surface. **OCC USE ONLY**
6. If casing depth is more than 250 feet deeper than base of the treatable water-bearing formation, operator must submit a letter of request listing reasons and precautions to be taken.

SURETY: APPROVED	SURETY: REJECTED	INTENT TO DRILL CHECKLIST -- OCC USE ONLY	GEOLOGY: APPROVED	GEOLOGY: REJECTED
		A. NONE filed. B. EXPIRED Date ➡ _____ C. OUTSTANDING CONTEMPT ORDER		

OCC FEE SCHEDULE EFFECTIVE 10-1-2018

(mark only ONE of the check-boxes) ➘	NORMAL OAC 165:5-3-1 (b)(1)(I)(i-iv)	EXPEDITED OAC 165:5-3-1 (b)(1)(J)(i-iv)	TEMPORARY OAC 165:5-3-1 (b)(1)(K)(i-iv)
DIRECTIONAL WELL	$350 ⬅check box	$600 ⬅check box	$350 ⬅check box
VERTICAL WELL	$350 ⬅check box	$600 ⬅check box	$350 ⬅check box
HORIZONTAL WELL	$400 ⬅check box	x $600 ⬅check box	$350 ⬅check box
MULTIUNIT WELL	$600 ⬅check box	$800 ⬅check box	$350 ⬅check box

➡ RECEIPT NO. ➡

OKLAHOMA CITY MAILING ADDRESS:
Oklahoma Corporation Commission
Attention: Central Processing
P.O. Box 52000
Oklahoma City, OK 73152-2000
(checks or money orders only)

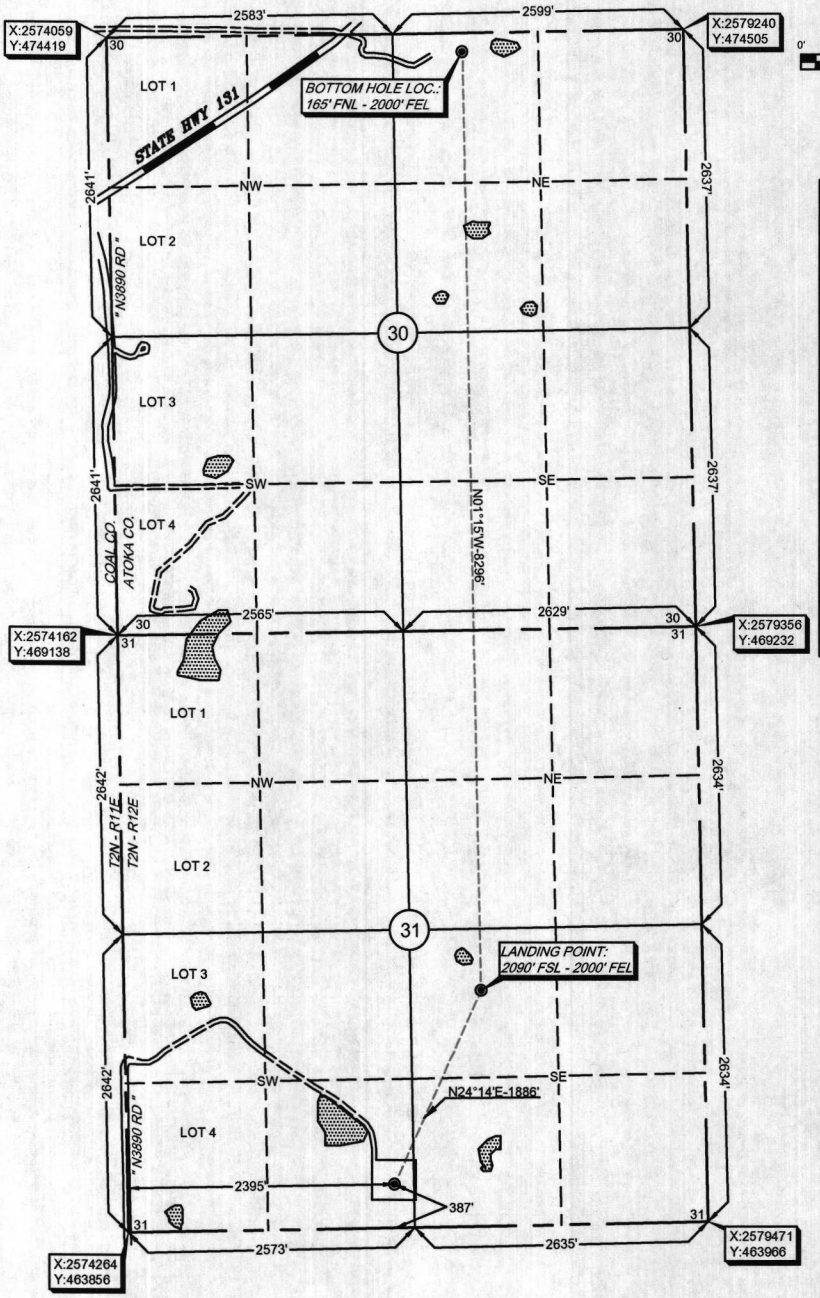
HAND-DELIVERY STREET ADDRESS:
The Jim Thorpe Office Building
(Take to the Cashier on the First Floor)
2101 N. Lincoln Blvd.
Oklahoma City, OK 73105
(cash, checks or money orders only)

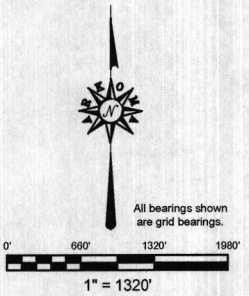
Send questions about payments to: OCCRevenue@occemail.com

Well Location Plat

S.H.L. Sec. 31-2N-12E I.M.
B.H.L. Sec. 30-2N-12E I.M.

Operator: BRAVO NATURAL RESOURCES, LLC
Lease Name and No.: CAIRO #4-31/30H
Footage: 387' FSL - 2395' FWL Pad Elevation: 679'
Section: 31 Township: 2N Range: 12E I.M.
County: Atoka State of Oklahoma
Terrain at Loc.: Location fell on existing Bravo Pad. 15' South of existing Thoman #1-31 wellhead.





GPS DATUM
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:	
Lat: 34°35'38.90"N	
Lon: 96°05'01.85"W	
Lat: 34.59413809	
Lon: -96.08384751	
X: 2576651	
Y: 464293	
Landing Point:	
Lat: 34°35'55.76"N	
Lon: 96°04'52.20"W	
Lat: 34.59882305	
Lon: -96.08116548	
X: 2577426	
Y: 466013	
Bottom Hole Loc.:	
Lat: 34°37'17.83"N	
Lon: 96°04'52.48"W	
Lat: 34.62161930	
Lon: -96.08124549	
X: 2577244	
Y: 474307	

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.

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. 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.

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 #7284
Date Staked: 08/07/17 By: B.M.
Date Drawn: 08/09/17 By: K.B.
Add LP & BHL: 11/14/17 By: P.B.
Moved LP & BHL: 11/16/18 By: E.W.

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.

11/19/18
LANCE G. MATHIS OK LPLS 1664

PROFESSIONAL LAND SURVEYOR
LICENSED
LANCE G. MATHIS
1664
OKLAHOMA