

APPLICATION TO DRILL, RECOMPLETE OR REENTER

FORM 1000
REV. 2009

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)

WALK THROUGH

1. OTC/OCC OPERATOR NUMBER
22299

2. API NUMBER

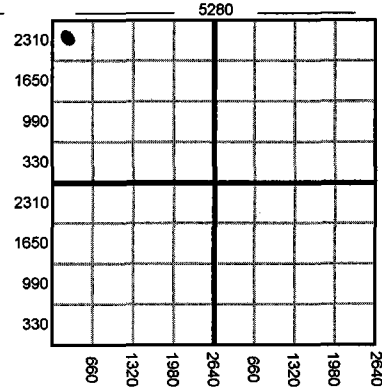
3. NOTICE OF INTENT TO: (CHECK ONLY ONE)
 DRILL RECOMPLETE REENTER DEEPEN AMEND - REASON
NOTE: ATTACH COPY OF 1002-A IF RECOMPLETION OR REENTRY.

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

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

5. WELL LOCATION:

SECTION	29	TOWNSHIP	19N	RANGE	4E	COUNTY	Payne
SPOT LOCATION: NW 1/4 NW 1/4 NW 1/4 SECTION LINES: 190' FNL 200' FWL							
7. Well will be 190' feet from nearest unit or property boundary.							
8. LEASE NAME: Pickering				WELL NUMBER: #20-2MH			
9. NAME OF OPERATOR: Calyx Energy LLC				EMAIL ADDRESS: joel@uls-mail.com			
ADDRESS: 10820 E 45th St, Ste 208				PHONE (AC/NUMBER): 918-949-4224			
CITY: Tulsa		STATE: OK		ZIP CODE: 74146			
10. SURFACE OWNER (ONE ONLY, ATTACH SHEET FOR ADDITIONAL OWNERS): John W. Pickering							



ADDRESS: 10817 East 19th Street	11. Is well located on lands under federal jurisdiction? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
CITY: Stillwater STATE: OK ZIP CODE: 74074	12. Will a water well be drilled? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Will surface water be used? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

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

1) Mississippian (4019')	6)
2)	7)
3)	8)
4)	9)
5)	10)

13. Date Operation to Begin: 4/20/2013

15. SPACING ORDER NUMBER(S) AND SIZE UNIT(S): 597615 (horizontal 640)

16. PENDING APPLICATION C.D. NO.	17. LOCATION EXCEPTION ORDER NO. 201302288	18. INCREASED DENSITY ORDER NO. 201302094
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19. TOTAL DEPTH: 8930	20. GROUND ELEV.: 855	21. BASE OF TREATABLE WATER: 250	22. SURFACE CASING: 300	23. ALT CASING PROG USED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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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: WATER BASED OIL BASED GAS BASED (AIR DRILL)
 B. EXPECTED MUD CHLORIDE CONTENT: maximum: 15000 ppm; average: 7500 ppm.
 PIT #1 C. TYPE OF PIT SYSTEM: on-site off-site closed If off-site, specify location: _____
 D. IS DEPTH TO TOP OF GROUND WATER GREATER THAN 10 FT BELOW BASE OF PIT? Y N
 E. WITHIN 1 MILE OF MUNICIPAL WATER WELL? Y N Off-Site Pit No. _____
 F. WELLHEAD PROTECTION AREA? Y N

26.1 OCC USE ONLY

A. CATEGORY: 1A 1B 2 3 4 C	B. PIT LOCATION: <input type="checkbox"/> Alluvial Plain <input type="checkbox"/> Terrace Deposit <input type="checkbox"/> Bedrock Aquifer <input type="checkbox"/> Other H.S.A. <input type="checkbox"/> Non-H.S.A. Fm: _____
C. Special area or field rule?	D. DEEP SCA? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N E. CBL required? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
F. SOIL COMPACTED LINER REQUIRED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	G. 20 mil GEOMEMBRANE LINER REQUIRED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

27. PROPOSED METHOD FOR DISPOSAL OF DRILLING FLUIDS (MUST BE COMPLETED)

A. Evaporation/dewater and backfilling of reserve pit.
 B. Solidification of pit contents.
 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. 13-22902
 E. Haul to Commercial pit facility; Specify site: _____ Order No. _____
 F. Haul to Commercial soil farming facility; Specify site: _____ Order No. _____
 G. Haul to recycling/re-use facility; Specify site: _____ Order No. _____
 H. Other, Specify: Closed System

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: <i>Joel M. Johnson</i>	NAME (Print or Type): Joel M. Johnson	PHONE (AC/NO.): 918-671-0958	FAX: 918-748-0446	DATE: 4/16/2013
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NOTICE: Approval is void if operations have not commenced within six 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.

SEC 20
 TOWNSHIP 19N
 RANGE 4E
 PICKERING #20-2A

NOTIFY DISTRICT OFFICE 24 HOURS PRIOR TO CEMENTING SURFACE CASING.

25.2. PIT INFORMATION:

A. TYPE OF MUD SYSTEM: WATER BASED OIL BASED GAS BASED (AIR DRILL)
 B. EXPECTED MUD CHLORIDE CONTENT: maximum: ppm; average: ppm.
 PIT #2 C. TYPE OF PIT SYSTEM: on-site off-site closed If off-site, specify location:
 D. IS DEPTH TO TOP OF GROUND WATER GREATER THAN 10 FT BELOW BASE OF PIT? Y N
 E. WITHIN 1 MILE OF MUNICIPAL WATER WELL? Y N
 F. WELLHEAD PROTECTION AREA? Y N Off-Site Pit No.

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 REQUIRI Y N

29 Bottom Hole Location SEC TWP RGE COUNTY
 for Directional Hole:
 SPOT LOCATION: 1/4 1/4 1/4 1/4 FEET FROM QUARTER from SOUTH LINE from WEST LINE
 SECTION LINES:
 Measured Total True Vertical BHL from nearest Lease, Unit, Or Property Line:
 Depth Depth

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

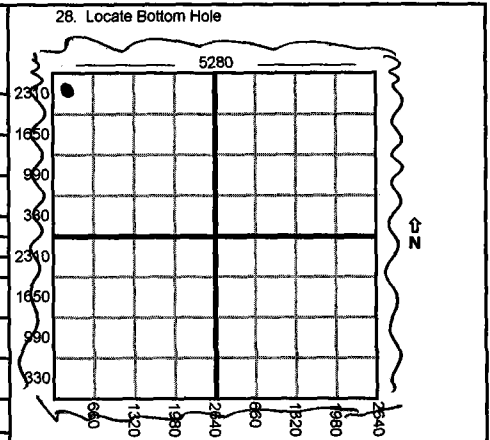
LATERAL #1: SEC 20 TWP 19N RGE 4E COUNTY Payne
 SPOT LOCATION: FEET FROM QUARTER from SOUTH LINE from WEST LINE
 SECTION LINES: NE 1/4 NW 1/4 NW 1/4 NW 1/4 165' FNL 450' FVL
 Depth of Deviation Radius of Turn Direction Total Length
3356 1236 360 deg 8930
 Measured Total True Vertical End Point location from nearest lease, unit
 Depth Depth 8930 4019 or property line: 165

LATERAL #2: SEC TWP RGE COUNTY
 SPOT LOCATION: FEET FROM QUARTER from SOUTH LINE from WEST LINE
 SECTION LINES: 1/4 1/4 1/4 1/4
 Depth of Deviation Radius of Turn Direction Total Length

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

LATERAL #3: SEC TWP RGE COUNTY
 SPOT LOCATION: FEET FROM QUARTER from SOUTH LINE from WEST LINE
 SECTION LINES: 1/4 1/4 1/4 1/4
 Depth of Deviation Radius of Turn Direction Total Length

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



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

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.

INTENT TO DRILL CHECKLIST

APPROVED	REJECTED	OCC USE ONLY	OCC USE ONLY
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jh

1. SURETY
 A. NONE filed.
 B. EXPIRED: Date 3-20-14
 C. OUTSTANDING CONTEMPT ORDER.

4. GEOLOGY

DO NOT WRITE INSIDE THIS BOX

Date: 04/17/2013 Time: 10:14
 Case: 000000000 Cashier: CGN
 Payer: UNIVERSAL LAND \$500.00
 Check: 4545
 46 Intent to Drill

RECEIPT 1305890016
 OKLA CORP COMM