

For KCC Use:

Effective Date:

District #

SGA? ☐ Yes ☒ NoKANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

NOTICE OF INTENT TO DRILL

Must be approved by KCC five (5) days prior to commencing well

Form C-1

October 2007

Form must be Typed

Form must be Signed

All blanks must be Filled

Expected Spud Date: February 24, 2009
month day year

OPERATOR: License#

33365

Name: Layne Energy Operating, LLC

Address 1: 1900 Shawnee Mission Parkway

Address 2:

City: Mission Woods State: KS Zip: 66205 + 2001

Contact Person: Timothy H. Wright

Phone: 913-748-3960

CONTRACTOR: License# 33606

Name: Thornton Air

Well Drilled For:

☐ Oil
☒ Gas☐ Enh Rec
☐ Storage
☐ Disposal

Well Class:

☒ Infield
☐ Pool Ext.
☐ Wildcat
☐ Other

Type Equipment:

☐ Mud Rotary
☒ Air Rotary
☐ Cable☐ Seismic : # of Holes
☐ Other:☐ If OWWO: old well information as follows:

Operator:

Well Name:

Original Completion Date: Original Total Depth:

Directional, Deviated or Horizontal wellbore?

☐ Yes ☒ No

If Yes, true vertical depth:

Bottom Hole Location:

KCC DKT #:

Spot Description:

SE NE SE Sec. 16 Twp. 30 S. R. 13 ☒ E ☐ W
(Q/Q/Q) 1,654 feet from ☐ N / ☒ S Line of Section
399 feet from ☒ E / ☐ W Line of SectionIs SECTION: ☒ Regular ☐ Irregular?

(Note: Locate well on the Section Plat on reverse side)

County: Elk

Lease Name: Thomas

Well #: 9-16

Field Name: Cherokee Basin Coal

Is this a Prorated / Spaced Field?

☐ Yes ☒ No

Target Formation(s): Cherokee Coals

Nearest Lease or unit boundary line (in footage): 469'

Ground Surface Elevation: 990 feet MSL

Water well within one-quarter mile:

☐ Yes ☒ No

Public water supply well within one mile:

☐ Yes ☒ No

Depth to bottom of fresh water: 150'

Depth to bottom of usable water: 225'

Surface Pipe by Alternate: ☐ I ☒ II

Length of Surface Pipe Planned to be set: 40'

Length of Conductor Pipe (if any): None

Projected Total Depth: 1500'

Formation at Total Depth: Mississippian

Water Source for Drilling Operations:

☐ Well ☐ Farm Pond ☒ Other:

DWR Permit #:

(Note: Apply for Permit with DWR ☐)

Will Cores be taken?

☐ Yes ☒ No

If Yes, proposed zone:

KANSAS CORPORATION COMMISSION

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55 et. seq.

It is agreed that the following minimum requirements will be met:

1. Notify the appropriate district office **prior** to spudding of well;
2. A copy of the approved notice of intent to drill **shall be** posted on each drilling rig;
3. The minimum amount of surface pipe as specified below **shall be set** by circulating cement to the top; in all cases surface pipe **shall be set** through all unconsolidated materials plus a minimum of 20 feet into the underlying formation.
4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary **prior to plugging**;
5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
6. If an ALTERNATE II COMPLETION, production pipe shall be cemented from below any usable water to surface within **120 DAYS** of spud date. Or pursuant to Appendix "B" - Eastern Kansas surface casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing must be completed within 30 days of the spud date or the well shall be plugged. **In all cases, NOTIFY district office** prior to any cementing.

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Date: February 17, 2009

Signature of Operator or Agent:

Title:

Project Engineer

For KCC Use ONLY

API # 15 - 049-22529-00-00

Conductor pipe required None feet

Minimum surface pipe required 40 feet per ALT. ☐ I ☒ II

Approved by: KCC 2-18-2009

This authorization expires: 2-18-2010

(This authorization void if drilling not started within 12 months of approval date.)

Spud date: Agent:

Remember to:

- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed (within 60 days);
- Obtain written approval before disposing or injecting salt water.
- If this permit has expired (See: authorized expiration date) please check the box below and return to the address below.

☐ Well Not Drilled - Permit Expired Date:

Signature of Operator or Agent:

16
30
13
☒ E
☐ W

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW*Plat of acreage attributable to a well in a prorated or spaced field*

If the intended well is in a prorated or spaced field, please fully complete this side of the form. If the intended well is in a prorated or spaced field complete the plat below showing that the well will be properly located in relationship to other wells producing from the common source of supply. Please show all the wells and within 1 mile of the boundaries of the proposed acreage attribution unit for gas wells and within 1/2 mile of the boundaries of the proposed acreage attribution unit for oil wells.

API No. 15 - 049-22529-00-00
 Operator: Layne Energy Operating, LLC
 Lease: Thomas
 Well Number: 9-16
 Field: Cherokee Basin Coal

Number of Acres attributable to well: _____
 QTR/QTR/QTR/QTR of acreage: _____ - SE - NE - SE

Location of Well: County: Elk
 1,654 feet from ☐ N / ☒ S Line of Section
 399 feet from ☒ E / ☐ W Line of Section
 Sec. 16 Twp. 30 S. R. 13 ☒ E ☐ W

Is Section: ☒ Regular or ☐ Irregular

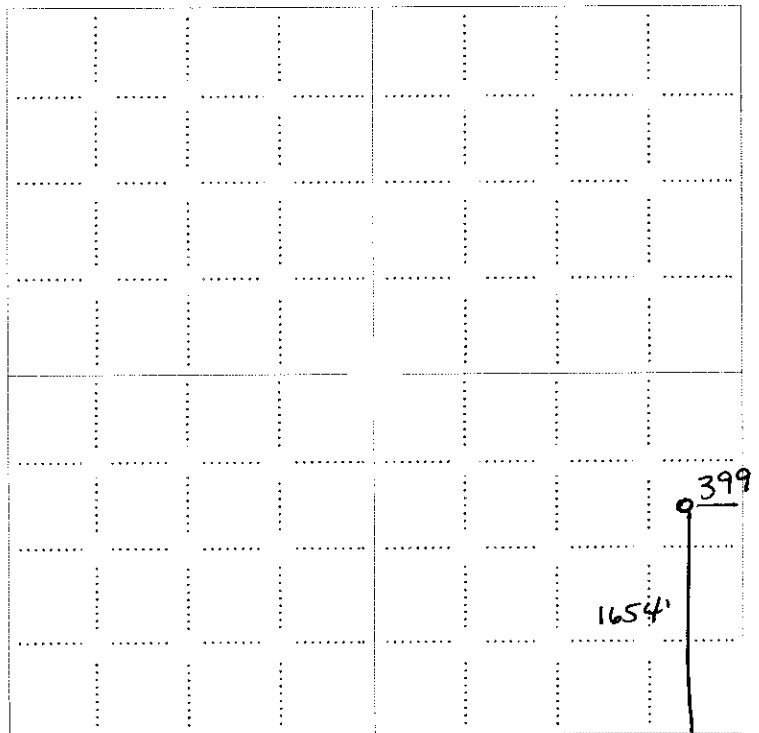
If Section is Irregular, locate well from nearest corner boundary.

Section corner used: ☐ NE ☐ NW ☐ SE ☐ SW

PLAT

(Show location of the well and shade attributable acreage for prorated or spaced wells.)

(Show footage to the nearest lease or unit boundary line.)

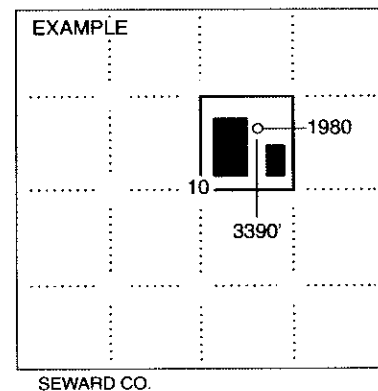


NOTE: In all cases locate the spot of the proposed drilling location.

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 18 2009

CONSERVATION DIVISION
WICHITA KS



In plotting the proposed location of the well, you must show:

1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
3. The distance to the nearest lease or unit boundary line (in footage).
4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (CO-7 for oil wells; CG-8 for gas wells).

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
APPLICATION FOR SURFACE PIT**

Form CDP-1
April 2004
Form must be Typed

Submit in Duplicate

Operator Name: Layne Energy Operating, LLC		License Number: 33365
Operator Address: 1900 Shawnee Mission Parkway		Mission Woods KS 66205
Contact Person: Timothy H. Wright		Phone Number: 913-748-3960
Lease Name & Well No.: Thomas 9-16		Pit Location (QQQQ): SE NE SE Sec. 16 Twp. 30 R. 13 <input checked="" type="checkbox"/> East <input type="checkbox"/> West 1,654 Feet from <input type="checkbox"/> North / <input checked="" type="checkbox"/> South Line of Section 399 Feet from <input checked="" type="checkbox"/> East / <input type="checkbox"/> West Line of Section Elk County
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input checked="" type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <small>(If WP Supply API No. or Year Drilled)</small>	Pit is: <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
Is the pit located in a Sensitive Ground Water Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chloride concentration: _____ mg/l <small>(For Emergency Pits and Settling Pits only)</small>
Is the bottom below ground level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Artificial Liner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	How is the pit lined if a plastic liner is not used? made of clay
Pit dimensions (all but working pits): 30 Length (feet) 20 Width (feet) <input type="checkbox"/> N/A: Steel Pits Depth from ground level to deepest point: 3 (feet) <input type="checkbox"/> No Pit		
If the pit is lined give a brief description of the liner material, thickness and installation procedure.		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.
Distance to nearest water well within one-mile of pit None feet Depth of water well _____ feet		Depth to shallowest fresh water _____ feet. Source of information: <input type="checkbox"/> measured <input type="checkbox"/> well owner <input type="checkbox"/> electric log <input type="checkbox"/> KDWR
Emergency, Settling and Burn Pits ONLY: Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		Drilling, Workover and Haul-Off Pits ONLY: Type of material utilized in drilling/workover: fresh water mud Number of working pits to be utilized: 2 Abandonment procedure: Let evaporate until dry, then backfill and restore Drill pits must be closed within 365 days of spud date.
I hereby certify that the above statements are true and correct to the best of my knowledge and belief. <div style="display: flex; justify-content: space-between;"><div>Date: February 17, 2009</div><div> Signature of Applicant or Agent</div><div>RECEIVED KANSAS CORPORATION COMMISSION FEB 18 2009 CONSERVATION DIVISION WICHITA, KS</div></div>		

KCC OFFICE USE ONLY		Steel Pit <input type="checkbox"/> RFAC <input type="checkbox"/> RFAS <input type="checkbox"/>
Date Received: 2/18/09	Permit Number: _____	Permit Date: 2/18/09 Lease inspection: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

15-019-22529-0000