

Must be approved by the K.C.C. five (5) days prior to commencing well

Expected Spud Date 4/1/89
month day year

NE NE. NW. Sec .1.: Twp .7... S, Rg .22. X East
West

4950
2970
..... feet from South line of Section
..... feet from East line of Section

(Note: Locate well on Section Plat Below)

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address: 125 N. Market, Suite 1000
City/State/Zip: Wichita, KS 67202
Contact Person: Jeff Christian
Phone: (316) 267-4375

County: Graham
Lease Name: Thurlow Well #: 1
Field Name: Wildcat

CONTRACTOR: License #: 6033
Name: Murfin Drilling

Is this a Prorated Field? yes X no
Target Formation(s): Lansing-Kansas City
Nearest lease or unit boundary: 330
Ground Surface Elevation: est. 2274 feet MSL
Domestic well within 330 feet: yes X no
Municipal well within one mile: yes X no
Depth to bottom of fresh water: 100 150'
Depth to bottom of usable water: 1250
Surface Pipe by Alternate: 1 X 2
Length of Surface Pipe Planned to be set: 200
Length of Conductor pipe required: NONE
Projected Total Depth: 3900
Formation at Total Depth: Arbuckle
Water Source for Drilling Operations:
..... well farm pond X other

Well Drilled For: Well Class: Type Equipment:

X Oil ... Inj ... Infield X Mud Rotary
... Gas ... Storage ... Pool Ext. ... Air Rotary
... OWWO ... Disposal X Wildcat ... Cable
... Seismic; ... # of Holes

If OWWO: old well information as follows:
Operator:
Well Name:
Comp. Date: Old Total Depth

Directional, Deviated or Horizontal wellbore? yes X no
If yes, total depth location:

DWR Permit #:
Will Cores Be Taken?: yes X no
If yes, proposed zone:

AFFIDAVIT

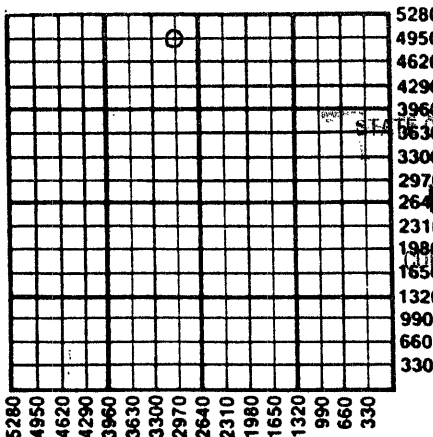
The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.

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

1. The appropriate district office shall be notified before setting surface pipe;
2. The minimum amount of surface pipe as specified above 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;
3. If the well is dry, a plugging proposal shall be submitted to the district office. An agreement between the operator and the district office on plug length and placement is necessary prior to plugging;
4. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
5. If an Alternate II completion, production pipe shall be cemented from below any usable water to surface within 120 days of spud date. In all cases, notify district office prior to any cementing.

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

Date: 3/27/89 Signature of Operator or Agent: Jason Arbuckle Title:



RECEIVED
STATE OPERATIONS COMMISSION
3-27-89
MAR 27 1989
CONSERVATION DIVISION
Wichita, Kansas

FOR KCC USE:

API # 15-065-22,513-00-00 VDA

Conductor pipe required NONE feet

Minimum surface pipe required 200' feet per Alt. X (2)

Approved by: LKM 3-28-89

EFFECTIVE DATE: 4-2-89

This authorization expires: 9-28-89

(This authorization void if drilling not started within 6 months of effective 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;
- Obtain written approval before disposing or injecting salt water.