

For KCC Use:  
 Effective Date: 1-27-08  
 District #: 4  
 SGA?  Yes  No

KANSAS CORPORATION COMMISSION  
 OIL & GAS CONSERVATION DIVISION  
**NOTICE OF INTENT TO DRILL**

Form C-1  
 December 2002  
**Form must be Typed**  
**Form must be Signed**  
**All blanks must be Filled**

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

Expected Spud Date 1 23 08  
 month day year

OPERATOR: License# 33325  
 Name: Petroleum Development Corporation  
 Address: 1775 Sherman St. Suite 3000  
 City/State/Zip: Denver, CO 80203  
 Contact Person: James Annable  
 Phone: 303-905-4340

CONTRACTOR: License# 33532  
 Name: Advanced Drilling Technologies

Well Drilled For:	Well Class:	Type Equipment:
<input type="checkbox"/> Oil	<input type="checkbox"/> Enh Rec	<input checked="" type="checkbox"/> Infield
<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Storage	<input type="checkbox"/> Pool Ext.
<input type="checkbox"/> OWWO	<input type="checkbox"/> Disposal	<input type="checkbox"/> Wildcat
<input type="checkbox"/> Seismic; # of Holes	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Mud Rotary
<input type="checkbox"/> Other		<input type="checkbox"/> Air Rotary
		<input type="checkbox"/> Cable

If OWWO: old well information as follows:  
 Operator: NA  
 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  
 W2 - SW - NW Sec. 16 Twp. 5 S. R. 40  
 East  
 West  
1980 feet from  N /  S Line of Section  
330 feet from  E /  W Line of Section  
 Is SECTION  Regular  Irregular?

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

County: Cheyenne  
 Lease Name: McPherson Well #: 12-16  
 Field Name: Cherry Creek Niobrara Gas Area  
 Is this a Prorated / Spaced Field?  Yes  No  
 Target Formation(s): Niobrara  
 Nearest Lease or unit boundary: 330'  
 Ground Surface Elevation: 3685' 3672 per survey 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: 325' 350'  
 Depth to bottom of usable water: 325' 350'  
 Surface Pipe by Alternate:  1  2  
 Length of Surface Pipe Planned to be set: 375' 400'  
 Length of Conductor Pipe required: Not Required  
 Projected Total Depth: 1720'  
 Formation at Total Depth: Niobrara  
 Water Source for Drilling Operations:  
 Well  Farm Pond  Other  
 DWR Permit #: Drilling Contractor will apply.  
 (Note: Apply for Permit with DWR )  
 Will Cores be taken?  Yes  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 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 to the best of my knowledge and belief.

Date: 1/16/08 Signature of Operator or Agent: [Signature] Title: Sr. Regulatory Consultant

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**JAN 18 2008**

CONSERVATION DIVISION  
 WICHITA, KS

**For KCC Use ONLY**  
 API # 15 - 023-20953-0000  
 Conductor pipe required None feet  
 Minimum surface pipe required 400 feet per Alt 1  
 Approved by: [Signature] 1-22-08  
 This authorization expires: 1-22-09  
 (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;
- 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  
 Signature of Operator or Agent: \_\_\_\_\_  
 Date: \_\_\_\_\_

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

16  
5  
40W

**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 - 023-20953-000  
 Operator: Petroleum Development Corporation  
 Lease: McPherson  
 Well Number: 12-16  
 Field: Cherry Creek Niobrara Gas Area  
 Number of Acres attributable to well: NA  
 QTR / QTR / QTR of acreage: W2 - SW - NW

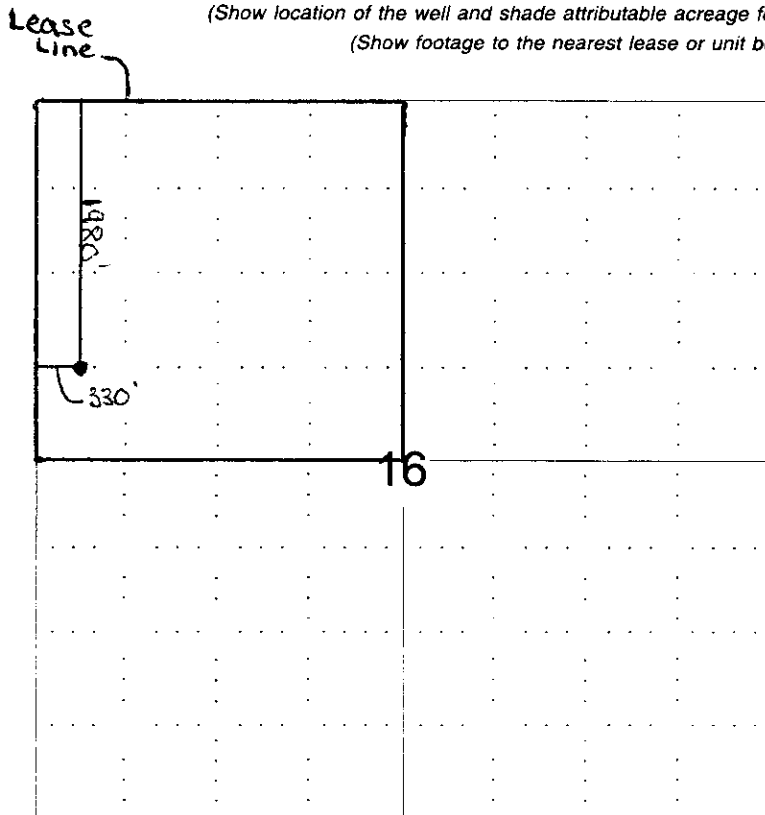
Location of Well: County: Cheyenne  
 1980 feet from  N /  S Line of Section  
 330 feet from  E /  W Line of Section  
 Sec. 16 Twp. 5 S. R. 40  East  West

Is Section:  Regular or  Irregular

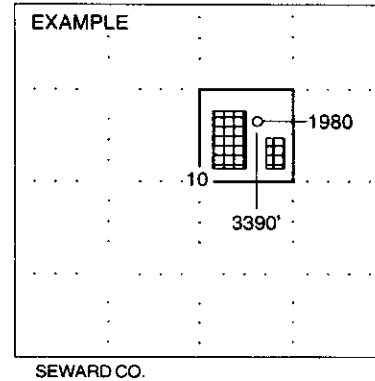
**If Section is Irregular, locate well from nearest corner boundary.**  
 Section corner used:  NE  NW  SE  SW

**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.)*



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 WICHITA, KS



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

**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 section's south / north and east / west.
3. The distance to the nearest lease or unit boundary line.
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).

# WELL LOCATION CERTIFICATE

SECTION 16, TOWNSHIP 5 SOUTH, RANGE 40 WEST, 6TH P.M.

NW SEC. 16  
CENTERLINE  
OR E/FIELD RD

S 87°33'11" E 5274.09'

NE SEC. 16  
CR 14: E  
INTERSECTION

**SURFACE LOCATION**  
GROUND ELEVATION = 3672'  
LAT/LONG = 39 62096  
101 82433



# 16

(BASIS OF BEARINGS)  
 N 02°34'29" E 5265.92'

**NOTES:**  
THIS IS A VERTICAL WELL  
LAND SURFACE USE-AGRICULTURAL FIELD  
NO VISIBLE IMPROVEMENTS WITHIN 200'

S 02°40'10" W 5275.89'

SW SEC. 16  
FIELD RD  
INTERSECTION

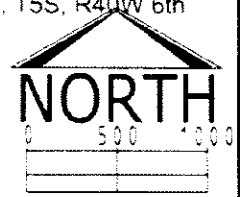
N 87°21'13" W 5265.36'

SE SEC. 16  
CENTERLINE  
OR 14: FIELD RD

I HEREBY STATE TO PETROLEUM DEVELOPMENT CORPORATION THAT THIS WELL LOCATION CERTIFICATE INDICATES THE WELL **MCPHERSON 12-16** TO BE LOCATED 1980' FNL AND 330' FWL, SEC. 16, T5S, R40W 6th P.M.

**LEGEND**

- = FOUND MONUMENT
- = PROPOSED WELL
- = EXISTING WELL



BASIS OF BEARINGS AS SHOWN ABOVE

SCALE: 1"=1000'

GROUND ELEVATION SHOWN IS APPROXIMATE AND IS BASED ON AN OBSERVED GPS ELEVATION (NAVD 1988 DATUM)

LAT. & LONG. SHOWN ARE BASED ON AN OBSERVED GPS OBSERVATION (NAD 1983:92) WITH A PDP VALUE OF LESS THAN SIX (6)

ALL DISTANCES ARE FIELD MEASURED UNLESS OTHERWISE NOTED  
DISTANCES TO WELL ARE SHOWN PERPENDICULAR TO SECTION LINES


THIS IS NOT A MONUMENTED BOUNDARY SURVEY. IT IS ONLY A DRAWING INTENDED TO DEPICT THE WELL LOCATION TO SECTION LINES

REVISIONS		PREPARED BY		FIELD DATE	WELL NAME	
INITIAL	DATE	 <b>PFS</b> Petroleum Field Services LLC 180* W. 13th Ave. Denver, CO 80204		12-18-07	MCPHERSON 12-16	
			DRAWING DATE		12-21-07	SURFACE LOCATION
			BY		CAM	CHEYENNE COUNTY, KANSAS
						SW 1/4 NW 1/4, SEC. 16, T5S, R40W

**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: <b>Petroleum Development Corporation</b>		License Number: <b>33325</b>
Operator Address: <b>1775 Sherman St, Suite 3000 Denver, CO 80203</b>		
Contact Person: <b>James Annable</b>		Phone Number: ( <b>303</b> ) <b>905 - 4340</b>
Lease Name & Well No.: <b>McPherson 12-16</b>		Pit Location (QQQQ): <b>W2 SW NW</b>
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: <b>1200</b> (bbls)	Sec. <b>16</b> Twp. <b>5S</b> R. <b>40</b> <input type="checkbox"/> East <input checked="" type="checkbox"/> West <b>1980</b> Feet from <input checked="" type="checkbox"/> North / <input type="checkbox"/> South Line of Section <b>330</b> Feet from <input type="checkbox"/> East / <input checked="" type="checkbox"/> West Line of Section <b>Cheyenne</b> County
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? <b>Natural Clay/bentonite</b>
Pit dimensions (all but working pits): <b>50</b> Length (feet) <b>30</b> Width (feet) <b>N/A: Steel Pits</b> Depth from ground level to deepest point: <b>6</b> (feet)		
If the pit is lined give a brief description of the liner material, thickness and installation procedure. <b>NA</b>		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring. <b>NA</b> <div style="text-align: right;"><b>RECEIVED</b> KANSAS CORPORATION COMMISSION <b>JAN 18 2008</b></div>
Distance to nearest water well within one-mile of pit <b>1800</b> feet    Depth of water well <b>325</b> feet		Depth to shallowest fresh water <b>207</b> feet. <small>CONSERVATION DIVISION WICHITA, KS</small> Source of information: _____ measured    _____ well owner    _____ electric log <input checked="" type="checkbox"/> KDWR
<b>Emergency, Settling and Burn Pits ONLY:</b> 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		<b>Drilling, Workover and Haul-Off Pits ONLY:</b> Type of material utilized in drilling/workover: <b>Bentonite mud</b> Number of working pits to be utilized: <b>1</b> Abandonment procedure: <b>Evaporation/backfill</b> _____ 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.		
<u>1/16/08</u> Date	 Signature of Applicant or Agent	

15-023-20953-0000

<b>KCC OFFICE USE ONLY</b>			
Date Received: <u>1/18/08</u>	Permit Number: _____	Permit Date: <u>1/18/08</u>	Lease Inspection: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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