

For KCC Use:  
 Effective Date: 10-17-07  
 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 10 17 07  
 month day year

OPERATOR: License# 33325  
 Name: Petroleum Development Corporation  
 Address: 120 Genesis Blvd., Charles Pointe, PO Box 26  
 City/State/Zip: Bridgeport, WV 26330  
 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"/> Mud Rotary	<input checked="" type="checkbox"/> Air Rotary	<input checked="" type="checkbox"/> Cable
<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Storage	<input type="checkbox"/> Pool Ext.	<input type="checkbox"/> Wildcat	<input type="checkbox"/> Other	
<input type="checkbox"/> OWWO	<input type="checkbox"/> Disposal	<input type="checkbox"/> # of Holes			
<input type="checkbox"/> Seismic;					
<input type="checkbox"/> Other					

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  East  
 SW  NW  NE Sec. 3 Twp. 4 S. R. 42  West  
1052 feet from  N /  S Line of Section  
2304 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: Gemaehlich Well #: 31-3  
 Field Name: Cherry Creek Niobrara Gas Area  
 Is this a Prorated / Spaced Field?  Yes  No  
 Target Formation(s): Niobrara  
 Nearest Lease or unit boundary: ???  
 Ground Surface Elevation: 3725 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: 280'  
 Depth to bottom of usable water: 280'  
 Surface Pipe by Alternate:  1  2  
 Length of Surface Pipe Planned to be set: 330'  
 Length of Conductor Pipe required: Not Required  
 Projected Total Depth: 2300'  
 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: 10/4/07 Signature of Operator or Agent: [Signature] Title: Sr. Regulatory Consultant

**For KCC Use ONLY**  
 API # 15 - 023-20830-0000  
 Conductor pipe required NONE feet  
 Minimum surface pipe required 330 feet per Alt. 1  
 Approved by: WJM 10-12-07  
 This authorization expires: 4-12-08  
 (This authorization void if drilling not started within 6 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

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4  
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**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 - 023-20830-0000  
 Operator: Petroleum Development Corporation  
 Lease: Gemaehlich  
 Well Number: 31-3  
 Field: Cherry Creek Niobrara Gas Area  
 Number of Acres attributable to well: NA  
 QTR / QTR / QTR of acreage: SW - NW - NE

Location of Well: County: Cheyenne  
1052 feet from  N /  S Line of Section  
2304 feet from  E /  W Line of Section  
 Sec. 3 Twp. 4 S. R. 42  East  West

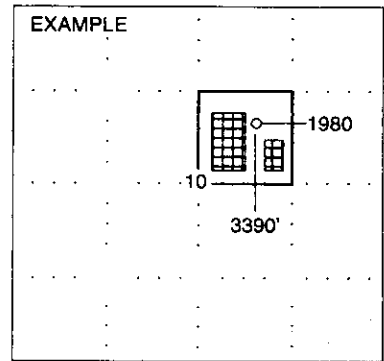
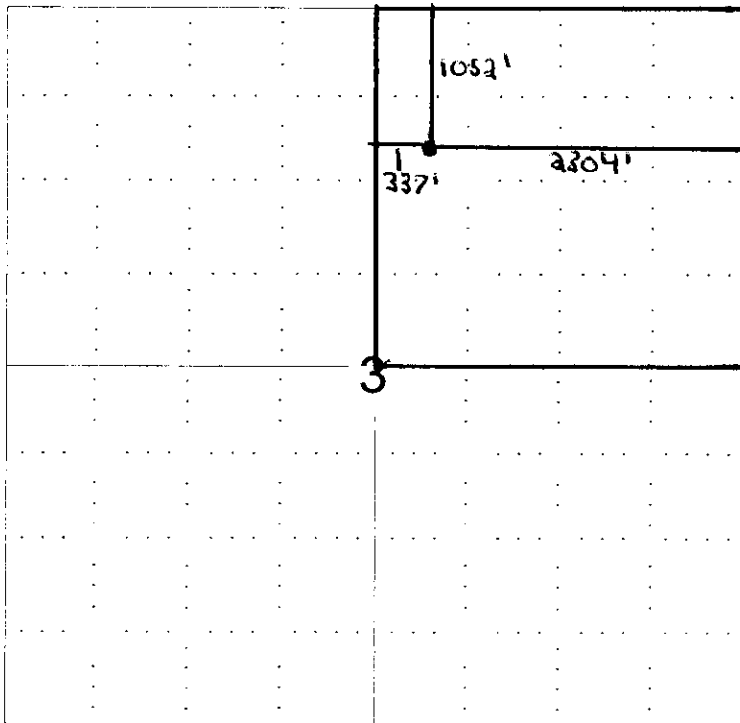
Is Section:  Regular or  Irregular

**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.)*



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

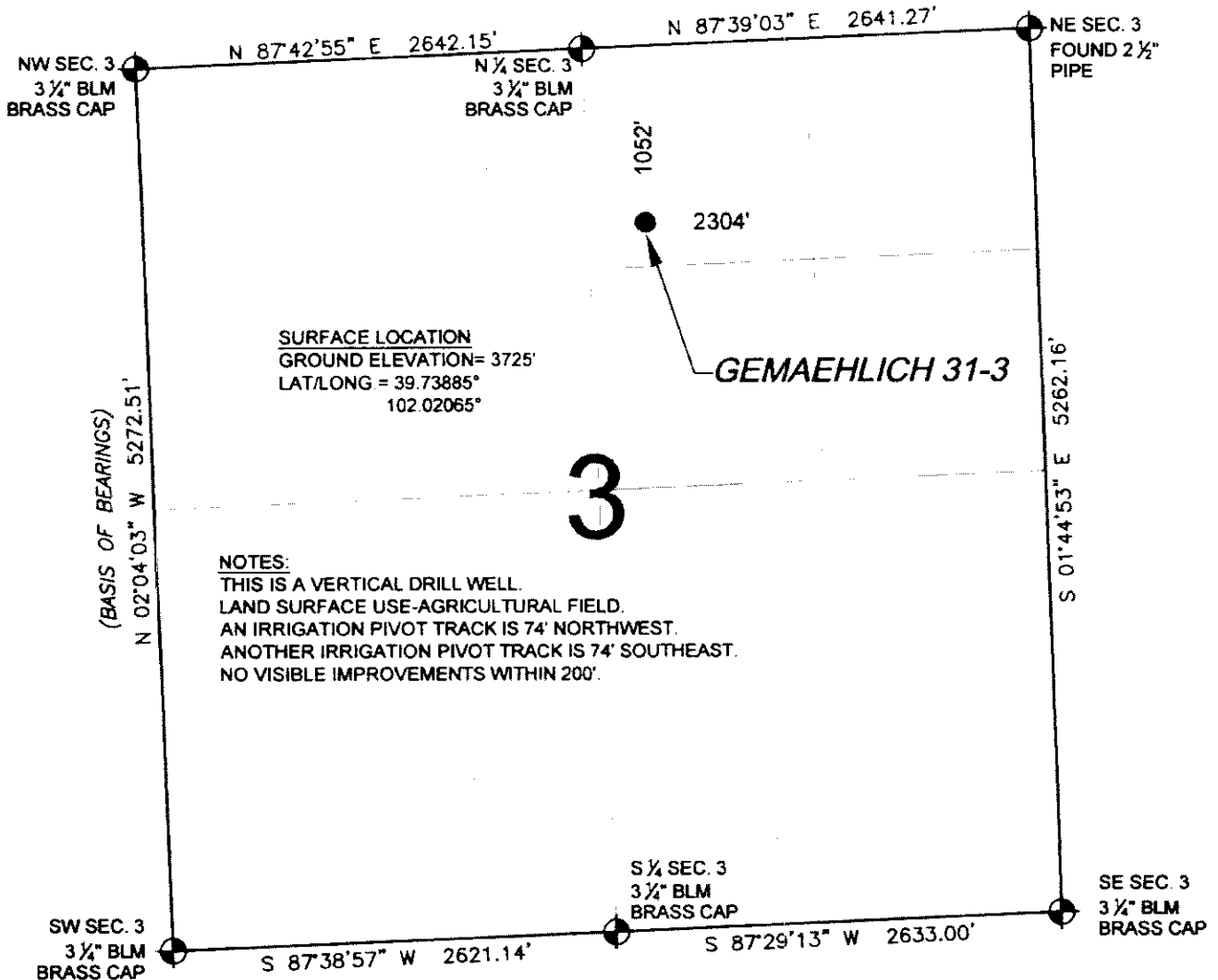
**In plotting the proposed location of the well, you must show:**

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).

FORM 1 / 2007

# WELL LOCATION CERTIFICATE

SECTION 3, TOWNSHIP 4 SOUTH, RANGE 42 WEST, 6TH P.M.



**SURFACE LOCATION**  
 GROUND ELEVATION= 3725'  
 LAT/LONG = 39.73885°  
 102.02065°

**GEMAEHLICH 31-3**

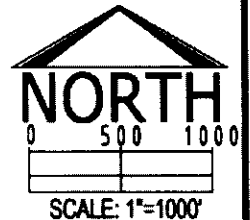
3

**NOTES:**  
 THIS IS A VERTICAL DRILL WELL.  
 LAND SURFACE USE-AGRICULTURAL FIELD.  
 AN IRRIGATION PIVOT TRACK IS 74' NORTHWEST.  
 ANOTHER IRRIGATION PIVOT TRACK IS 74' SOUTHEAST.  
 NO VISIBLE IMPROVEMENTS WITHIN 200'.

I HEREBY STATE TO PETROLEUM DEVELOPMENT CORPORATION THAT THIS WELL LOCATION CERTIFICATE INDICATES THE WELL **GEMAEHLICH 31-3** TO BE LOCATED 1052' FNL AND 2304' FEL, SEC. 3, T4S, R42W 6th P.M.

**LEGEND**

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



BASIS OF BEARINGS AS SHOWN ABOVE

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 PDOP 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	
INITIAL	DATE

PREPARED BY:



**PFS**  
 Petroleum Field Services, LLC  
 215 Union Blvd, Suite 410  
 Lakewood, CO 80228

FIELD DATE: 09-25-07	WELL NAME: GEMAEHLICH 31-3
DRAWING DATE: 10-02-07	SURFACE LOCATION: CHEYENNE COUNTY, KANSAS NW 1/4 NE 1/4, SEC. 3, T4S, R42W
BY: CP	

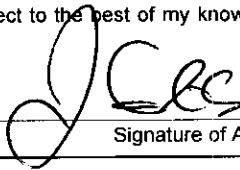
15-023-20830-0000

09/11/2007

**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>120 Genesis Blvd., Charles Pointe, PO Box 26 Bridgeport, WV 26330</b>		
Contact Person: <b>James Annable</b>		Phone Number: ( <b>303</b> ) <b>905</b> - <b>4340</b>
Lease Name & Well No.: <b>Gemaehlich 31-3</b>		Pit Location (QQQQ): <b>SW NW NE</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>3</b> Twp. <b>4S</b> R. <b>42</b> <input type="checkbox"/> East <input checked="" type="checkbox"/> West <b>1052</b> Feet from <input checked="" type="checkbox"/> North / <input type="checkbox"/> South Line of Section <b>2304</b> Feet from <input checked="" type="checkbox"/> East / <input 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>
Distance to nearest water well within one-mile of pit <b>1 Mile +</b> feet    Depth of water well <b>216</b> feet		Depth to shallowest fresh water <b>177</b> feet. 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.		
10/4/07 Date	 Signature of Applicant or Agent	001 1 2007
<b>KCC OFFICE USE ONLY</b>		
Date Received: <b>10/11/07</b> Permit Number: _____	Permit Date: <b>10/11/07</b> Lease Inspection: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

15-023-20830-00020

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