For KCC Use: Effective Date: District #_

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

Expected Spud Date	12	7	07	Spot	ast
:xpecied Spud Date	month	day	year	NOT NOT NOT 21 5 42	est
333	25			330	001
DPERATOR: License# 3333 lame: Petroleum Developmer	ot Corporation			2310 feet from F E / W Line of Section	
lame: 1775 Sherman St. Suddress:	uite 3000	A. A. M. M.		is SECTIONRegular ✓ Irregular?	
Address:	0203			(Note: Locate well on the Section Plat on reverse side)	
Contact Person: James Anna				County: Cheyenne	
Phone: 303-905-4340				t ease Name: Armknecht Well #: 31-21	
				Field Name: Cherry Creek Niobrara Gas Area	
ONTRACTOR: License#_3	33532			Is this a Prorated / Spaced Field?	No
lame: Advanced Drilling Te	chnologies			Target Formation(s): Niobrara	
Well Drilled For:	Well Class:	Type	Equipment:	Nearest Lease or unit boundary: 1041	
		_	• •	Ground Surface Elevation: 3713' feet N	/ISL
Oil Enh Red	H		Mud Rotary	Water well within one-quarter mile: ✓ Yes	No
✓ Gas ✓ Storage OWWO Disposa		==	Cable	Public water supply well within one mile:	No
Seismic; # of H	-		ADIC	Depth to bottom of fresh water:	
Other	loles Other			Depth to bottom of usable water. 220	
Other				Surface Pipe by Alternate: 1 1 2	
OWWO: old well informati	ion as follows:			Length of Surface Pipe Planned to be set: 250 270 min	
Operator: NA	· - ···			Length of Conductor Pipe required: Not Required	
Well Name:	***			Projected Total Depth: 1600' Formation at Total Depth: Niobrara	
Original Completion Date	e:	Original Total	I Depth:	romation at lotal beptil.	
Directional, Deviated or Hori	izontal wellbore?		Yes ✓ No	Water Source for Drilling Operations: Well Farm Pond Other	
Yes, true vertical depth:				weil Fam Folid Other	
ice, ties termen depini				DWB Parmit # Drilling Contractor will apply.	
				DWR Permit #: Drilling Contractor will apply.	
Bottom Hole Location:				(Note: Apply for Permit with DWR 🔲)	
Bottom Hole Location: CCC DKT #:				(Note: Apply for Permit with DWR ☐) Will Cores be taken? If Yes, proposed zone:	
Gottom Hole Location: CCC DKT #: Frie undersigned hereby af	ffirms that the dri	lling, comple	AFF	(Note: Apply for Permit with DWR ☐) ✓ ☐ Yes ✓	
Gottom Hole Location: CCC DKT #: The undersigned hereby af t is agreed that the following the appropriate the suppropriate the supp	ffirms that the dri ng minimum requ e district office p	lling, comple uirements wi	AFF etion and eventual p ill be met: dding of well;	(Note: Apply for Permit with DWR ☐) Will Cores be taken? If Yes, proposed zone: FIDAVIT RECEIVE Dlugging of this well will comply with K.S.A. 55 et. seq. KANSAS CORPORATION DEC 14 2	ED COMM
Gottom Hole Location: CCC DKT #: The undersigned hereby af t is agreed that the followin 1. Notify the appropriate 2. A copy of the approv 3. The minimum amoun through all unconsoli 4. If the well is dry hole 5. The appropriate distr 6. If an ALTERNATE II Or pursuant to Appe must be completed w	ffirms that the dring minimum reque district office produce of intent of surface pipelidated materials e, an agreement rict office will be COMPLETION, andix "B" - Easte within 30 days of	lling, comple uirements wi erior to spud nt to drill sh e as specifie plus a minim between the notified befo production p rn Kansas s the spud da	AFF etion and eventual p ill be met: dding of well; nall be posted on ea d below shall be s num of 20 feet into e operator and the ore well is either plu pipe shall be cemer surface casing orde ate or the well shall	Will Cores be taken? If Yes, proposed zone: FIDAVIT Plugging of this well will comply with K.S.A. 55 et. seq. KANSAS CORPORATION DEC 1 4 2 ach drilling rig; tet by circulating cement to the top; in all cases surface pipechesister on the underlying formation. WICHITA, K.S. district office on plug length and placement is necessary prior to plugging agged or production casing is cemented in; attended from below any usable water to surface within 120 days of spud date. The #133,891-C, which applies to the KCC District 3 area, alternate II cement is plugged. In all cases, NOTIFY district office prior to any cementing.	ED N COMM 1007 NIVISION S
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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 - 023-20858-0000	Location of Well: County: Cheyenne
Operator: Petroleum Development Corporation	330 feet from ✓ N / ☐ S Line of Section
Lease: Armknecht	2310 feet from 🗸 E / 🗌 W Line of Section
Well Number: 31-21	Sec. 21 Twp. 5 S. R. 42 East ✓ Wes
Field: Cherry Creek Niobrara Gas Area	
Number of Acres attributable to well: NA OTR / OTR / OTR of acreage: NW NW NE	ls Section: ☐ Regular or ✓ Irregular
QTR / QTR of acreage: NW - NW - NE	If Section is Irregular, locate well from nearest corner boundary.
	Section corner used: VNE NW SE SW

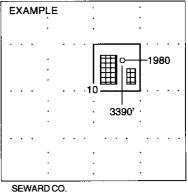
PLAT
(Show location of the well and shade attributable acreage for prorated or spaced wells.)
(Show footage to the nearest lease or unit boundary line.)

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RECEIVED KANSAS CORPORATION COMMISSION

DEC 14 2007

CONSERVATION DIVISION WICHITA, KS



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

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: (C0-7 for oil wells; CG-8 for gas wells).

5-023-20858-000 SECTION 21, TOWNSHIP 5 SOUTH, RANGE 42 WEST, 6TH P.M. S 87'49'11" E 5291.74" NW ¼ SEC. 21 CALCULATED OFF NE 1/2 SEC. 21 FOUND NAIL 2310' OF ROW FENCES CENTER ROAD ARMKNECHT 31-21 NOTES VERTICAL DRILL WELL LAND SURFACE USE IS AGRICULTURAL DRY LAND CROP **BUILDING 151' NORTHEAST** NO OTHER VISIBLE IMPROVEMENTS WITHIN 200' 5293 5273, ₹ 8 SURFACE LOCATION 02 **GROUND ELEVATION= 3713'** LAT/LONG.= 39.61055°N 102.03963°W SW /4 SEC. 21 CALCULATED OFF SE 1/4 SEC. 16 OF ROW FENCES (BASIS OF BEARINGS) FOUND NAIL AT CENTER ROAD N 88'02'21" W 5231 17 I HEREBY STATE TO PETROLEUM DEVELOPMENT CORPORATION THAT THIS WELL LOCATION CERTIFICATE

INDICATES THE WELL ARMKNECHT 31-21 TO BE LOCATED 330' FNL AND 2310' FEL, SEC, 21, T5S, R42W 6th P.M

LEGEND

= FOUND MONUMENT

= PROPOSED WELL

= EXISTING WELL

= EXISTING BUILDING

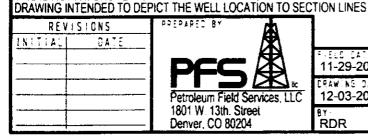
SCALE: 1"=1000"

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 POOP 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

THELD DATE 11-29-2007 WELL NAME ARMKNECHT 31-21 CRAWING DATE SURFACE LOCATION 12-03-2007

CHEYENNE COUNTY, KANSAS NW 1/4 NE 1/4, SEC. 21, T5S, R42W RDR

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form CDP-1 April 2004 Form must be Typed

APPLICATION FOR SURFACE PIT

Submit in Duplicate

Operator Name: Petroleum Develop	ment Corporat	License Number: 33325				
Operator Address: 1775 Sherman St, Suite 3000 Denver, CO 80203						
Contact Person: James Annable		Phone Number: (303) 905 -4340				
Lease Name & Well No.: Armknecht	31-21		Pit Location (QQQQ):			
Type of Pit:	Pit is:					
Emergency Pit Burn Pit	✓ Proposed	Existing	Sec21Twp5SR42 ☐ East			
Settling Pit	If Existing, date of	onstructed:	330 Feet from 🗸 North / 🗌 South Line of Section			
☐ Workover Pit ☐ Haul-Off Pit	Pit capacity:		2310 Feet from 🗸 East / 🗍 West Line of Section			
(If WP Supply API No. or Year Drilled)		(bbls)	Cheyenne County			
Is the pit located in a Sensitive Ground Water	Area? Yes 🗸	No	Chloride concentration: mg/l			
	· · · · · · · · · · · · · · · · · · ·		(For Emergency Pits and Settling Pits only)			
Is the bottom below ground level?	Artificial Liner? ✓ Yes	No	How is the pit lined if a plastic liner is not used?			
✓ Yes, No	Yes ✓		Natural Clay/bentonite			
Pit dimensions (all but working pits):5	60 Length (fe	eet)30	Width (feet) N/A: Steel Pits			
Depth fr	om ground level to de	eepest point: 6	(feet)			
If the pit is lined give a brief description of the material, thickness and installation procedure			edures for periodic maintenance and determining ncluding any special monitoring.			
NA	.	NA	induling any special monitoring.			
NA .		INA	Ţ.			
Distance to nearest water well within one-mile	e of nit	Denth to shallo	west fresh water 120 feet.			
	•	Source of infor	mation:			
feet Depth of water well	170feet	meası	ired well owner electric log KDWR			
Emergency, Settling and Burn Pits ONLY:		l	over and Haul-Off Pits ONLY:			
Producing Formation:		1	al utilized in drilling/workover: Bentonite mud			
Number of producing wells on lease:		Number of working pits to be utilized: 1				
Barrels of fluid produced daily:		Abandonment	procedure: Evaporation/backfill			
Does the slope from the tank battery allow all flow into the pit? Yes No	spilled fluids to	Drill pits must be closed within 365 days of spud date. RECEIVED KANSAS CORPORATION COMMISS				
hereby certify that the above statements are true and correct to the best of my knowledge and belief						
			DEC 14 2007			
12/12/07			CONSERVATION DIVISION WICHITA, KS			
Date			ignature of Applicant or Agent			
KCC OFFICE USE ONLY						
Date Received: 12/14/07 Permit Num	her.	Perm	it Date: 12/14/07 Lease Inspection: Yes 🕻 No			
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