# Kansas Corporation Commission Oil & Ga's Conservation Division WELL COMPLETION FORM

Form ACO-1
September 1999
Form Must Be Typed

FEB 06 2009

CONSERVATION DIVISION
WICHITA, KS

**UIC Distribution** 

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASI

WELL HISTORY - DESCR	
Operator: License #33325	API No. 15 - <u>023-20837-0000</u>
Name: Petroleum Development Corporation	County: Cheyenne
Address: 1775 Sherman Street, Suite 3000	<u>-SE_SE_NW</u> Sec. <u>16</u> Twp. <u>5</u> S. R. <u>42</u> ☐ East  West
City/State/Zip: Denver, CO 80203	feet from S / (Circle one) Line of Section
Purchaser: N/A	feet from E (circle one) Line of Section
Operator Contact Person: Larry Robbins	Footages Calculated from Nearest Outside Section Corner:
Phone: (_303) _860-5800	(circle one) NE SE (NV) SW
Contractor: Name: Senaal Drilling, Co. LLC & Advanced Drilling Technologies, LLC	Lease Name: Armknecht Well #. 22-16
License: 33/775 & 33532	Field Name: Cherry Creek Niobrara Gas Area
Wellsite Geologist: N/A	Producing Formation: Niobrara
Designate Type of Completion:	Elevation: Ground: 3690' Kelly Bushing: 3702'
New Well Re-Entry Workover	Total Depth: 1670' Plug Back Total Depth: 1616'
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 7 joints @ 313 Feet
✓ Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
	· ·
Operator:	feet depth tow/sx cmt.
Well Name:	Drilling Fluid Management Plan Alt I. NCR 3-11-09
Original Comp. Date:Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 5000 ppm Fluid volume 50 bbls
Plug Back Total Depth	Dewatering method used Evaporation
Commingled Docket No.	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	Operator Name:
Other (SWD or Enhr.?) Docket No	Lease Name: License No.:
12/15/2007 12/17/2007 03/13/2008	Quarter Sec TwpS. R East West
Spud Date or Date Reached TD Completion Date or Recompletion Date	
	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workd Information of side two of this form will be held confidential for a period o	th the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, over or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. If 12 months if requested in writing and submitted with the form (see rule 82-3-12) and geologist well report shall be attached with this form. ALL CEMENTING lls. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulation are complete and correct to the best of my knowledge.	ulate the oil and gas industry have been fully complied with and the statements
Signature: Jamy Fund	KCC Office Use ONLY
Regulatory Agent February 04, 20	09   //
ith Cel-in	Letter of Confidentiality Received
Subscribed and sworn to before me this	If Denied, Yes Date:
CARRIE EGGLEST	ON Wireline Log Received KANSAS CORPORATION COMMIS

Date Commission Expires:

i, , Y		1	1	Two					
Operator Name: Petro	leum Development	Corporation	Name:	Armknecht		Well #. 22-1	6		
Sec. 16 Twp. 5			Cheye			**CII #			
INSTRUCTIONS: Shot tested, time tool open temperature, fluid reco	and closed, flowing very, and flow rates	and shut-in pressures, if gas to surface test, a	whether sh along with fi	ut-in pre	essure reached s	tatic level, hydros	tatic pressure	es, botton	n hole
Drill Stem Tests Taken (Attach Additional S.		Yes 📝 No	<b></b> ✓L	✓ Log Formation (Top), Depth and Datum ☐ Sample					
Samples Sent to Geole Cores Taken Electric Log Run (Submit Copy)	ogical Survey	1	Name Top Datum Niobrara 1451'						
List All E. Logs Run:						KA	REC NSAS CORPOR	EIVED ATION COI	MMISSION
CDL, CNL, Dua	al Induction, C				FEB 0		•		
		CACINIC	DECORD		🗆		CONSERVAT WICH	iiondivis <del>IITA, KS</del>	ION
		CASING Report all strings set-	RECORD conductor, su	✓ No rface, inte		on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
Surface	10"	7"	17:	#	313'	Type I/II	75		
Production	6 1/8"	4 1/2"	10.5	#	1639'	Type I/II	75	2% KCL	
		ADDITIONAL	CEMENTI	NG / SOI	JEEZE RECORD		<u> </u>		
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks			Type and Pe	ercent Additives		:
Shots Per Foot		N RECORD - Bridge Plu potage of Each Interval Pe		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth					
2			500 gal 15% HCL, 70 Quality N2 foam, 1468'-148						
				335 bbls Lightning 15# fluid system,					
				96080 lbs 12/20 mesh Ottawa Sand					
			4000 lbs SB Excel resin coated sand						
				273 MSCF N2					
TUBING RECORD	Size	Set At	t	Liner Run	Yes 🗸 No				
Date of First, Resumerd Production, SWD or Enhr.  Production Pending  Production Pending  Production Pending  Production Pending  Gas Lift  Other (Explain)									
Estimated Production Per 24 Hours		Bbls: Gas	Mcf	Wat	er Bt	ols. • Ga	as-Oil Ratio	•	Gravity
Disposition of Gas	METHOD OF CO	DMPLETION			Production Interv	/al			
Vented Sold	Used on Lease mit ACO-18.)	Open Hole	Perf.		Dually Comp.	Commingled			

#### SCHAAL DRILLING, CO. **PO BOX 416 BURLINGTON, CO. 80807** 719-346-8032

## FIELD REPORT

#### SURFACE CASING, DRILLING AND CEMENTING

DRILLING D	ATE 1	2-15-07						:
WELL NAME	E & LEA	ASE# Arm	nknecht 2	22-16				1
MOVE IN, RI	G UP, 1	DIG PITS E	ΓC. DA	ΓΕ 12-13-07		TIME 11:30	⊠AM □	PM
SPUD TIME	9:30	⊠AM □P	M SHA	LE DEPTH 21	15	TIME 11:15	⊠AM □	PM
HOLE DIA.	10	FROM <b>0</b> To	305	TD		TIME 12:30	□AM ⊠	PM
CIRCULATE	, T.O.O	.H., SET 30	0.00 FT	CASING	313.00	KB FT DEPT	Н	
7 JOINTS	7	0D #/FT [	]14	5.5 🖾 17 🗀	]20	3		
PUMP 75	SAC C	EMENT	471 GA	L.DISP. CIRC	. 3	BBL TO PIT		4
PLUG DOWN	I TIME	2:30		M ⊠PM	DATE	12-15-07		
CEMENT LE		CSG. 30 FT		TYPE: POR' CEMENT C		CEMENT I/II 313.35	ASTM C 15	0
ELEVATION +12KB								
PIPE TALLY							•	
1. 42. 2. 43. 3. 42. 4. 42. 5. 42. 6. 42. 7. 42. 8. 9. 10. 11.	00 75 85 92 70							
13. 14. 15.							R KANSAS COR	ECEIV PORATIO
15.								

TOTAL 300.00

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FEB 0 6 2009

CONSERVATION DIVISION WICHITA, KS



### A DIVISION OF ADVANCED DRILLING TECHNOLOGIES, LLC.

# LONGHORN CEMENTING CO.

P.O. BOX 203 YUMA, COLORADO 80759 Phone: 970-848-0799 Fax: 970-848-0798

	W							/	DATE	12-18	3-07 TICK	ET NO	. 142	8
DATE OF JOB	DISTRICT					WE NE		OLD C	PROD	] INJ [] W	DW [	CUSTOME ORDER NO	R ),,	
CUSTOMER	IER OO					LEASE	A	rmk	Snecht	- 22-1	6	WELL NO	i,	
ADDRESS					COUNTY STATE									
CITY STATE						SERVICE CREW MIKE-Brad								
AUTHORIZED BY						EQUIPMENT //NIT ITIN								
TYPE JOB: ( GR S S CIAN DEPTH FT. CEMENT DATA: BULK ) SAI						AND DA		KS 🗆	TRUCK CALL		DATE AM	TIME		
SIZE HOLE:	SACKS BRAND, TYPE % C							ADM	ADMIXES ARRIVED AT JOB					
SIZE & WT. CASTING	IEW O Y / Z DEPTH FT. 75 A IV									START OPER	ATION		AM PM	
SIZE & WT. D PIPE OF	OR TUBING DEPTH ET.							291	/ GAL.	FINISH OPER	ATION		Ala Pia	
TOF PEOGS	1176.		VOLUME OF				S./GAL		7 376.	RELEASED			AM PM	
PBID 1/20	MAX DEPTH	FT.		SACKS CEM	ENT TREAT		тнД	_% Of€€ PS/I		MILES FROM	STATION TO WELL			
	d is authorized to execut r supplies includes all of a shall be	and only t	these terms	and condit	tions appe	aring	on the sent or	front and t	pack of this of Advance	s document, Noted Drilling Tec		itute ler	ms and/or co	nditions
ITEM / PRICE	NACTES	NAL 50	OL UIDAATA	IT AND C	SEDVIOE		<u> </u>	· · · · · · · · · · · · · · · · · · ·	<del>-</del> 7		\$ AMOUNT			
REF. NUMBER	MATER	MAL, EC	DUIPMEN						UNIT	QUANTIT	Y UNIT PRI	UE —	<b>.</b>	
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REPRESENTATIV		1		THE	ABOVE	MAT	ERIAL	AND SF	RVICE	1	11/	1	2	•
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