

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

Handwritten initials and date: 2/15/09

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33325
Name: Petroleum Development Corporation
Address: 1775 Sherman Street, Suite 3000
City/State/Zip: Denver, CO 80203
Purchaser: _____
Operator Contact Person: Larry Robbins
Phone: (303) 860-5800
Contractor: Name: Schaal Drilling, Co. LLC & Advanced Drilling Technologies, LLC
License: 33775 & 33532
Wellsite Geologist: N/A

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>10/31/2008</u>	<u>11/10/2008</u>	<u>12/01/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 023-21140-0000
County: Cheyenne
 NW NW NW Sec. 33 Twp. 3 S. R. 42 East West
449 feet from S / **(N)** (circle one) Line of Section
368 feet from E / **(W)** (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE **(NW)** SW
Lease Name: Stones Throw Well #: 11-33 SWD
Field Name: Cherry Creek Niobrara Gas Area
Producing Formation: Injection Zone - Cedar Hills
Elevation: Ground: 3727' Kelly Bushing: 3738'
Total Depth: 3760' Plug Back Total Depth: 3693'
Amount of Surface Pipe Set and Cemented at 8 joints @ 336 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1507 Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH I NCR 2-27-09
(Data must be collected from the Reserve Pit)
Chloride content 5000 ppm Fluid volume 1200 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
Title: Regulatory Agent Date: January 14, 2009
Subscribed and sworn to before me this 14 day of January,
20 09.
Notary Public: [Signature]
Date Commission Expires: _____

SARAH M GARRETT
Notary Public
State of Colorado

My Commission Expires August 11, 2009

KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____

Wireline Log Received **RECEIVED**
KANSAS CORPORATION COMMISSION

Geologist Report Received **JAN 15 2009**

UIC Distribution **(RK)**
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Petroleum Development Corporation Lease Name: Stones Throw Well #: 11-33 SWD
 Sec. 33 Twp. 3 S. R. 42 East West County: Cheyenne

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DIL/CDL/CNL/GR and GR/VDL/CBL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Niobrara</td> <td>1570'</td> <td></td> </tr> <tr> <td>Fort Hays</td> <td>2010'</td> <td></td> </tr> <tr> <td>Dakota</td> <td>2479'</td> <td></td> </tr> <tr> <td>Morrison</td> <td>2908'</td> <td></td> </tr> <tr> <td>Cedar Hills</td> <td>3400'</td> <td></td> </tr> <tr> <td>Stone Corral</td> <td>3546'</td> <td></td> </tr> </table> <div style="text-align: right; margin-top: 20px;"> RECEIVED KANSAS CORPORATION CO. JAN 15 2009 CONSERVATION DIVIS. WICHITA, KS </div>	Name	Top	Datum	Niobrara	1570'		Fort Hays	2010'		Dakota	2479'		Morrison	2908'		Cedar Hills	3400'		Stone Corral	3546'	
Name	Top	Datum																				
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Cedar Hills	3400'																					
Stone Corral	3546'																					

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	9 5/8"	32.3#	336'	Type I/II cement	115	None
Production	8 3/4"	5 1/2"	17#	3735'	50/50 Poz Cl. "G"	485	3% KCL + 0.4% FL + 0.8% CD + 0.2% SM (14.5 ppg, 1.2 cu ft/sx)

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	200'-1562'	50/50 Pozmix Cl. "G"	290	10% NaCl + 0.6% FL-25 + 0.1% CD-32 + 2% gel (14.3 ppg, 1.31 cu ft/sx)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>		Depth
2	3404'-3432'	*0" psi on well. Pump 108 bbls @ 7.5 bpm, no surf press. Spearhead 500 gals 15% HCL.		3404-3460'
2	3432'-3460'	Pump 30 bbls HCL w/90 1" RCN, increase rate to 18 bpm. Pump treated prod H2O.		
		pump 20 bbls w/60 RCN, increase rate to 18 BPM, no response. Increase rate to 22.9 bpm		
		for 414 bbls. Press steady @394 psi. Shutdown/load 75 7/8" RCN balls. continue		
		injection w/treated H2O, increase rate to 20.6 bpm, no press. pump 845 bbls. SD w/0 psi.		

TUBING RECORD	Size 2 7/8"	Set At 3341'	Packer At 3341'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. December 16, 2008		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

SCHAAL DRILLING, CO.
46881 Hwy 24
BURLINGTON, CO. 80807
719-346-8032

Handwritten signatures and initials

FIELD REPORT
SURFACE CASING, DRILLING AND CEMENTING

DRILLING DATE 10-31-08

WELL NAME & LEASE # Stonestrow 11-33 *SWD*

MOVE IN, RIG UP, DIG PITS ETC. DATE 10-30-08 TIME 12:45 AM PM

SPUD TIME 6:45 AM PM SHALE DEPTH 245 TIME 9:30 AM PM

HOLE DIA. 12 1/2 FROM 0 TO 328 TD TIME 11:15 AM PM

CIRCULATE, T.O.O.H., SET 322.70 FT CASING 335.70 KB FT DEPTH

8 JOINTS 9 5/8 OD #/FT 32

PUMP 115 SAC CEMENT 1001 GAL.DISP. CIRC. 14 BBL TO PIT

PLUG DOWN TIME 3:30 AM PM DATE 10-31-08

CEMENT LEFT IN CSG. 20 FT
CENTRALIZER 3

TYPE: PORTLAND CEMENT I/II ASTM C 150
CEMENT COST \$ 1495.02

ELEVATION 3727
+12KB 3739

PIPE TALLY

- 1. 40.39
 - 2. 40.31
 - 3. 40.31
 - 4. 40.32
 - 5. 40.31
 - 6. 40.36
 - 7. 40.38
 - 8. 40.32
 - 9.
 - 10.
 - 11.
 - 12.
 - 13.
- TOTAL 322.70

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JAN 15 2009

CONSERVATION DIVISION
WICHITA, KS

CEMENT JOB REPORT



CUSTOMER Petroleum Development Corpor		DATE 12-NOV-08	F.R. # 225139208	SERV. SUPV. NATHANIEL J WINDHOLZ								
LEASE & WELL NAME THROW STONES #11-33 SWD - API 150232114000		LOCATION SEC 33 - 3 S - 42 W		COUNTY-PARISH-BLOCK Cheyenne Kansas								
DISTRICT Brighton		DRILLING CONTRACTOR RIG # ADT		TYPE OF JOB Long String								
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		PHYSICAL SLURRY PROPERTIES								
Latch Down Plug & Assembly, 5-1/2 Cement Plug, Rubber, Top 5-1/2 in		Stage Cementing Tool 5-1/2 - 8rd Float Shoe 5-1/2 - 8rd		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
MATERIALS FURNISHED BY BJ												
Claytreat Water				0	8.34	0	0	00:00	20			
Mud Clean II				0	8.5	0	0	00:00	20			
Surebond I				0	8.34	0	0	00:00	20			
50:50 (Poz:G) + Additives				485	14.5	1.20	5.19	02:15	103.33	59.93		
Claytreat Water				0	8.34	0	0	00:00	50.8			
Claytreat Water				0	8.34	0	0	00:00	20			
Mud Clean II				0	8.5	0	0	00:00	20			
Claytreat Water				0	8.34	0	0	00:00	20			
Fresh H2o				0	8.34	0	0	00:00	35.3			
Drillin Mud				0	9.3	0	0	00:00	35			
Clay Treat				0	8.3	0	0	00:00	5			
50:50 + additives				290	14.3	1.31	5.89	03:00	67.74	40.66		
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.						TOTAL	417.17	100.59		
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE		
8.75	0	3760	5.5	17	CSG	3755	N-80	3755	3717	1512		
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
9.625	36	CSG	300	NO LINER		0	0	0	5.5	8RD	WATER BASED MU	9.4
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER	
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator		
85.8	BBLs	Claytreat Water	8.34	2500	0	0	0	0	4256	3000	RIG TANK	
		Fresh H2o	8.34									
Circulation Prior to Job												
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		Circulation Time: 5		Circulation Rate: 5 BPM								
Mud Density In: 9.4 LBS/GAL		Mud Density Out: 9.4 LBS/GAL		PV & YP Mud In: 18								
PV & YP Mud Out: 18		Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		Units:								
Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>												
Displacement And Mud Removal												
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>		Amount Bled Back After Job: .6 BBLs										
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL		Method Used to Verify Returns: EYE										
Cement Returns at Surface: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES										
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE												
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES		Quantity: 36		Type: <input checked="" type="checkbox"/> BOW <input type="checkbox"/> RIGID								
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD												
Plugs												
Number of Attempts by BJ: 0		Competition: 0		Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Quantity:						
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Top of Plug: 0 FT		Bottom of Plug: 0 FT						
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES												
Squeezes (Update Original Treatment Report for Primary Job)												
BLOCK SQUEEZE <input type="checkbox"/>		SHOE SQUEEZE <input type="checkbox"/>		TOP OF LINER SQUEEZE <input type="checkbox"/>		PLANNED <input type="checkbox"/>		UNPLANNED <input checked="" type="checkbox"/>				
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		PSI Applied: 0		Fluid Weight: 0 LBS/GAL						

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CONSERVATION DIVISION
WICHITA, KS

CEMENT JOB REPORT



Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes

Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL

Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
N/A

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
N/A

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
N/A

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	BBL FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW	CO. REP.
	PIPE	ANNULUS				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
01:45	0	0	0	0	N/A	TEST LINES 4000 PSI CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
02:15	0	0	0	0	N/A	ARRIVE ON LOCATION	
05:30	0	0	0	0	N/A	PUMP OPERATOR HELD PRE-RIG UP MEETING	
05:44	4000	0	0	0	H2O	HELD SAFETY MEETING	
05:46	170	0	3.5	20	H2O	TEST	
05:53	200	0	3.5	20	SAPP	PRE-FLUSH	
05:59	208	0	3.5	20	SB	MUD-CLEAN II	
06:05	260	0	3.5	5	H2O	SURE BOND I	
06:12	345	0	3.5	100	CMT	SPACER CT3C	
06:38	0	0	0	0	H2O	BATCH UP AND PUMP 485 SKS 50:50 POZ:TYPE III+3%KCL+0.4%FL-63+0.8%CD-32+0.2%SM @ 14.5 PPG	
06:41	50	0	3.5	50.8	H2O	DROP PLUG AND WASH UP	
06:59	700	0	3.5	35	MUD	DISPLACE CT3C	
07:09	1160	0	0	0	MUD	DISPLACE MUD	
07:14	0	0	0	0	MUD	PLUG DOWN	
07:25	1180	0	2	5	MUD	DROP BOMB	
07:34	0	0	0	0	MUD	OPEN TOOL	
11:40	111	0	4.5	20	H2O	RIG TO CIRCULATE	
11:44	150	0	4.8	20	SAPP	PRE-FLUSH CT3C	
11:49	135	0	4.8	20	H2O	MUD CLEAN II	
12:00	153	0	4	66	CMT	SPACER CT3C	
12:21	0	0	0	0	N/A	BATCH UP AND PUMP 290 SKS 50:50 POZ:G+10%SALT+0.6%FL-25+0.1%CD-32+2%GEL @ 14.3 PPG	
12:23	550	0	4.6	35.3	H2O	DROP PLUG	
12:30	2300	0	0	0	H2O	DISPLACE	
						PLUG DOWN	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL CMT RETURNS/ REVERSED	TOTAL BBL PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
<input checked="" type="checkbox"/> N	2300	<input checked="" type="checkbox"/> N	0	417	0	<input checked="" type="checkbox"/> N	



BJ Services JobMaster Program Version 3.20

Job Number: 225139208

Customer: PDC

Well Name: THROW STONES 11-33 SWD

