

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

October 2008

Form Must Be Typed

ORIGINAL

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33325

Name: Petroleum Development Corporation

Address 1: 1775 Sherman Street, Suite 3000

Address 2: _____

City: Denver State: CO Zip: 80203 + _____

Contact Person: Larry Robbins

Phone: (303) 860-5822

CONTRACTOR: License # 30606

Name: Murfin Drilling Company

Wellsite Geologist: Roger L. Fisher

Purchaser: Plains Pipeline, L.P. (PPLP)

Designate Type of Completion:

New Well _____ Re-Entry _____ Workover

Oil _____ SWD _____ SLOW

_____ Gas _____ ENHR _____ SIGW

_____ CM (Coal Bed Methane) _____ Temp. Abd.

_____ 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. _____ Conv. to SWD

_____ Plug Back: _____ Plug Back Total Depth

_____ Commingled _____ Docket No.: _____

_____ Dual Completion _____ Docket No.: _____

_____ Other (SWD or Enhr.?) _____ Docket No.: _____

12/28/2009 01/02/2010 03/18/2010

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date

API No. 15 - 023-21223-00-00

Spot Description: _____

NE NW SW SE Sec. 10 Twp. 3 S. R. 40 East West

1100 Feet from North / South Line of Section

2305 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Cheyenne

Lease Name: Sharp Well #: 34-10L

Field Name: Cherry Creek Niobrara Gas Area

Producing Formation: Topeka

Elevation: Ground: 3288' Kelly Bushing: 3293'

Total Depth: 4820' Plug Back Total Depth: 4773'

Amount of Surface Pipe Set and Cemented at: 5 joints @ 217 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2849 Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____

API-Log-5/27/10

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1800 ppm Fluid volume: 6465 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: May 25, 2010

Subscribed and sworn to before me this 25 day of May

20 10

Notary Public: [Signature]

Date Commission Expires: _____

SARAH M. GARRETT
NOTARY PUBLIC
STATE OF COLORADO

My Commission Expires 8/11/2013

KCC Office Use ONLY

Letter of Confidentiality Received **RECEIVED**

If Denied, Yes Date: KANSAS CORPORATION COMMISSION

Wireline Log Received **MAY 27 2010**

Geologist Report Received **CONSERVATION DIVISION**

_____ UIC Distribution **WICHITA, KS**

Operator Name: Petroleum Development Corporation Lease Name: Sharp Well #: 34-10L
 Sec. 10 Twp. 3 S. R. 40 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, MICRO, SONIC, 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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Niobrara</td> <td>1155'</td> <td>2138'</td> </tr> <tr> <td>Stone Corral</td> <td>3134'</td> <td>159'</td> </tr> <tr> <td>Topeka</td> <td>3958'</td> <td>- 665'</td> </tr> <tr> <td>Lansing Kansas City</td> <td>4160'</td> <td>- 867'</td> </tr> <tr> <td>Base of Lansing Kansas City</td> <td>4514'</td> <td>- 1221</td> </tr> <tr> <td>Fort Scott</td> <td>4648'</td> <td>- 1355'</td> </tr> <tr> <td>Cherokee</td> <td>4678'</td> <td>- 1385</td> </tr> </table>	Name	Top	Datum	Niobrara	1155'	2138'	Stone Corral	3134'	159'	Topeka	3958'	- 665'	Lansing Kansas City	4160'	- 867'	Base of Lansing Kansas City	4514'	- 1221	Fort Scott	4648'	- 1355'	Cherokee	4678'	- 1385
Name	Top	Datum																							
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Cherokee	4678'	- 1385																							

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"	8 5/8"	24#	217'	Common	175	3% CaCl2+2% gel
Production	7 7/8"	5 1/2"	17#	4797'	Class "C"	360	see cement report
DV Tool				2849'	Class "C"/AMD	305	see cement report

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	4180' - 4490'	1:1:2 "G"	75	1% CaCl2, 0.5% CFL-3, 0.5% CFR-2
	CICR @ 4136'			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	LKC - L2 zone, pkr @4450' - b.p. @4523'	250 gals 15% mud acid, no shows	4486-90'
4	LKC - K, Ksilt & J zones, pkr @4301' - b.p. @4462'	3000 gals 20% NeFe acid, no shows	4370'-4437'
4	LKC - E & D zones, pkr @4207' - b.p. @4306'	500 gals 15% mud acid, 1500 gals 20% NeFe acid, no shows	4228'-63'
4	LKC - A zone, pkr @4137' - b.p. @4207'	250 gals 15% mud acid, 500 gals 20% NeFe acid, no shows	4180'-87'
4	Topeka, pkr @3918' - b.p. @4020'	250 gals 15% mud acid, 1250 gals 20% NeFe acid, 4000 gals 28% NeFe	3958'-70'

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>3986'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. <u>03/18/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. <u>27</u> Gas Mcf <u>0</u> Water Bbls. <u>12</u> Gas-Oil Ratio <u>N/A</u> Gravity <u>N/A</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Topeka 3958'-3970'</u>
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ALLIED CEMENTING CO., LLC

Cementing & Acidizing Services

CEMENTING LOG

STAGE NO.

Date 1-3-10 District Dakota Ticket No. 44445
 Company Petroleum Development Corp Rig MU-3
 Lease Sharp Well No. 34.106
 County Cherokee State KS
 Location St Francis 20-12 E Field WIS

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type _____ Weight 17# Collar _____

Casing Depths: Top 2851⁴³ Bottom 4790⁴³

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 4820' ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.232 Lin. ft./Bbl. 43'
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.309 Lin. ft./Bbl. 32'
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: 10 BBL ECL WATER - 500gal WFA II
 Amt. _____ Skys Yield 10 BBL ECL WATER PPG _____
 Bottom - 360 SKS 'C' 29 gal, 500 gal
112 gal FL-160 140 gal Local

LEAD: Pump Time 1.42-14.8* hrs. Type AMD
 Top _____ Excess _____
 Amt. 280 Skys Yield 3.01 ft³/sk Density 11.3 PPG
 TAIL: Pump Time _____ hrs. Type CLASS C TAIL
 Excess _____

Amt. 75 Skys Yield 1.32 ft³/sk Density 14.8 PPG
 WATER: Lead 22 gals/sk Tail 6.3 gals/sk Total _____ Bbls.

Pump Trucks Used 423
 Bulk Equip. 347
306
386

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars DU Tool @ 2851 42
 Special Equip. _____
 Disp. Fluid Type water based Amt. 110.9 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE W.L. 1066

CEMENTER F224

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM (PM)	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
8:00						Annloc pre-job safety meeting
9:50						circ
10:50				10	3 1/2	Pump 10 BBL ECL water
				12	3 1/2	Pump 500gal WFA II
				10	3 1/2	Pump 10 BBL ECL water
11:05				21	3-3 1/2	Mix 360 SKS cement
11:35	150*			5		Wash pump lines & drop plug
11:39	900* Wirt			110.9	2.5	Displace plug
12:20	1300* hand					Plug down
12:24						Drop DU Bump
12:40	900*					open tool & circ lines
4:50				15.7		Mix 30 SKS in RH
5:00	100*			134	5.0	Mix 250 SKS AMD (Lead)
				17.6		Mix 75 SKS CLASS 'C' (Tail)
5:30				5		Wash pump lines
5:35	900*			66.1		Drop plug & displace
5:55	2000*				3.5	Plug down

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 MAY 27 2010
 CONSERVATION DIVISION
 WICHITA, KS

Good job!
 NAI

Bottom - 900* 1300* 114 BBL 112

Stimulation and Remedial
Cementing Service Report



SERVICE TICKET
9148937

Client Name	Well Name	Job Date
Petroleum Development Corp.	Sharp 34-10	March 15, 2010
Client Representative	Well Location	Job Type
Chad Sailors	Sec. 10-T3S-R40W	Squeeze

Description	Size (in)	Weight (lb/ft)	Grade	Max. Pres. (psi)	True measured depth		Capacity (bbls)	Packers and Workover Tools	
					Start (ft)	End (ft)		Type	TMD (ft)
Tubing	2.38				0	4135		Production Packer	
Tubing								Retrievable Packer	
Casing	5.50	17.00			0	4792		Cement Retainer	4135
Casing								Bridge Plug	
Perforations/OH					4161	4678		Selective Injection Packer	

Name	Type	Well Type	Temp (F)	Pressure (psi)	Height Gross	Height Net	Permeability (mD)	Porosity (%)

Fluid and Cement Data:									
Wellbore Fluid:		Type :	Density: (lb/gal)			Temp: (F) Water		Bulk:	Slurry:
#	Sacks	Volume (bbls)	Density (lb/gal)	Yield ft ³ /sck	Description	% - Additive	% - Additive	% - Additive	% - Additive
1	75	68.48	14.2	1.29	1:1:2'G'	1%CaCl2	.5%CF-3	.5%CFR-2	
2									
3	0	0.00	0	0	0				
4									
5	0	0.00	0	0	0				
6									
7									
8									

Fluid Compatibility Testing:									
Acid Titration:					Compatibility Tests				
					(% HCl Equivalent)				
Stability:	Pass:	Fail:	N/A	Mech Size:	Time at BHT:	min:			
Iron Control (Live Acid):	Pass:	Fail:	N/A	Live Acid:	Pass:	Fail:	N/A		
Emulsion Break Time:	Live:	min:	Spent Acid:	Pass:	Fail:	N/A			
	Spent:	min:							

Testing Witnessed by: _____ Signature: _____

Treatment Report :								
Event	Time	Pressure (psi)		Rate bbls/min	Stage volume (bbls)	Total volume (bbls)	Injected in Formation (bbls/stg)	Remarks
		Tubular	Annular					
1		-	-	-	-	-	-	Arrive on location - Time Requested :
2		-	-	-	-	-	-	Safety Meeting
3		-	-	-	-	-	-	Pressure Test
4								
5		See Additional Data Sheet						
6								
7								
8								

Personnel & Equipment :							
Employee	John Madson	Scott Merkel	Eric Hoff	0		Bin #	C9005001
Employee	Jeremy Hart		0	0		Bin #	
Unit #	200524	250116	740077	746089	0	MTS#	
Arrive	14:00					MTS#	
Depart	17:30					MTS#	

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Service Comments:

MAY 27 2010

CONSERVATION DIVISION
WICHITA, KS

Sanjel

**Stimulation and Cementing
Additional Data**

**Service Ticket
9148937**

Client Name Petroleum Development Corp.	Well Name Sharp 34-10	Job Date March 15, 2010
Client Representative Chad Sailors	Well Location Sec. 10-T3S-R40W	Job Type Squeeze

Treatment Report Data										
Event	Time	Pressure (psi)		Fluid Rate (bbls/min)	N2 Rate (scf/min)	Combined Rate (bbls/min)	Fluid Stage Volume (bbls)	Total Fluid Volume (bbls)	Injected in Formation (bbls)	Remarks
		Tubing	Annulus							
		(psi)	(psi)							
1	14:00									Arrive On Location
2	15:00									Rig In
3	15:50									Safety Meeting
4	16:00									Pressure test/2000 psi
5	16:02	400		2.00			13.00	0.00		Injection test
6	16:10	0		2.00			17.20	13.00		mix and pump cmt @ 14.2ppg
7	16:20	0		0.00			12.00	30.20		displace/ no pump/ well taking
8	16:30	350		0.50			3.50	42.20		displace/ fresh
9	16:52							45.70		string out/pull up hole
10	17:02	300		2.00			37.00	45.70		reversed out tubing
11								82.70		
12								82.70		
13								82.70		
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