KANSAS CORPORATION COMMISSION ORIGINA Form ACO-1 OIL & GAS CONSERVATION DIVISION ORIGINA Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33325 Name: Petroleum Development Corporation	API No. 15 - 023-20645-00-00 County: Cheyenne				
Address: 103 East Main Street	C _NE _ Nw _ Sec. 5 Twp. 5 S. R. 40 ☐ East ✓ West				
City/State/Zip: Bridgeport, WV 26330	514 feet from S / (N)(circle one) Line of Section				
Purchaser:	1964 feet from E / (W)circle one) Line of Section				
Operator Contact Person: Al Smith	Footages Calculated from Nearest Outside Section Corner:				
Phone: (304) 842-6256	(circle one) NE SE NW SW				
Contractor: Name: ADT LLC	Lease Name: Mayfield Well #: 21-5				
License: 33532	Field Name: Cherry Creek				
Wellsite Geologist: Nathan Anderson	Producing Formation: None - Dry Hole				
Designate Type of Completion:	Elevation: Ground: 3568' Kelly Bushing: 3580'				
✓ New Well Re-Entry Workover	Total Depth: 1543' Plug Back Total Depth: 0'				
OilSWDTemp. Abd.	Amount of Surface Pipe Set and Cemented at 345' Feet				
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? Yes √No				
✓ Dry 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:					
Original Comp. Date:Original Total Depth:	Drilling Fluid Management Plan AUTIWHM 3-8-0 (Data must be collected from the Reserve Pit)				
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 4000 ppm Fluid volume 200 bbls				
Plug Back Plug Back Total Depth	Dewatering method used haul to farmers field				
Commingled Docket No	Dewatering method used Tradit to ranners field				
Dual Completion Docket No	Location of fluid disposal if hauled offsite:				
Other (SWD or Enhr.?) Docket No	Operator Name: ADT LLC				
	Lease Name: Armknecht License No.: 33532				
12/22/05 12/29/05 12/29/05 Completion Date or Recompletion Date Date Reached TD Recompletion Date	Quarter_NWNE_Sec. 21 Twp. 5 S. R. 42 East West County: Cheyenne Docket No.:				
Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING. Submit CP-111 form with all temporarily abandoned wells.				
All requirements of the statutes, rules and regulations promulgated to regular herein are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements				
Signature: My Grand	KCC Office Use ONLY				
Title: Geologist Date: 4/10/06	Letter of Confidentiality Received				
Subscribed and sworn to before me this 11th day of ATRIL	If Denied, Yes Date:				
20 06	Wireline Log Received				
Maria Allanda	Geologist Report Received				
Notary Public: Ally W. Joudle	UIC Distribution				
Pare Commission FACIAL SEAL DULY 7, 2013					
NOTARY PUBLIC, STATE OF WEST VIRGINIA GARY W. FRIDLEY PETROLEUM DEVELOPMENT CORP. PO BOX 26, BRIDGEPORT WV 26385 MY COMMISSION EXPIRES JULY 07, 2013					

perator Name: Petro	oration	oration Lease Name: Mayfield			4	Well #: 21-5					
			✓ West County: Cheyenne								
ISTRUCTIONS: Showsted, time tool open a smperature, fluid recoverations are tooks to the state of the state o	and closed, flowing very, and flow rate:	and shut- s if gas to a	in pressures, s surface test, a	whether sh long with f	nut-in pre	ssure reached	static level, hydro	static pressure	s, bottom	hole	
Drill Stem Tests Taken			es 🗸 No		V	✓ Log Formation (Top), Depth a		pth and Datum		Sample	
Samples Sent to Geological Survey		Nam			Тор			D	Datum		
Cores Taken					Niob	rara	1420		-2160		
lectric Log Run (Submit Copy)		-	Ft Hayes			1482 -209					
ist All E. Logs Run:											
Compensated Dual Induction	Density, Con	npensa		RECORD	✓ N	ew Used				······································	
	and position to the same of th			- 		ermediate, produ			1		
Purpose of String			e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives		
Surface	9 1/2"	2" 7"		17#		345'	Ready Mix	85			
Purpose:PerforateProtect Casing	Depth Top Bottom		of Cement	#Sacks	ING / SQI s Used	JEEZE RECOR		Percent Additives			
✓ Plug Back TD —— Plug Off Zone	1510-1295	Class A		35		Dacotah					
Flug On Zone	465-254	Class A		35		Dacotah					
Shots Per Foot) - Bridge Plugs Set/Type ach Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth						
								RECE			
								APD .	/ED		
							Le c	182	006		
							110	RECEN APR 182 CWICH	17/		
TUBING RECORD	Size	Set At	.1	Packer	At	Liner Run	Yes No			disabblessa serikarikan sasasa s	
Date of First, Resumerd	Production, SWD or	Enhr.	Producing Me	thod	Flowir	g Dum	oing Gas L	ift Oth	er (Explain)		
Estimated Production Per 24 Hours	Oil	Bbis.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio		Gravity	
Disposition of Gas	METHOD OF COMPLETION				Production Interval						
Vented Sold	Used on Lease mit ACO-18.)		Open Hole	lanend	rf	Dually Comp.	Commingled				

PETROLEUM DEVELOPMENT CORPORATION Well History

(NP-KS-EXP Well #60) Mayfield #21-5 CNENW 5 5S 40W Cheyenne County, KS Permit #0150232064500 AFE #05461 LS #695100 (PDC)	12/22/2005	Schaal Well Drilling: MIRU. Spud at 7:30 AM and drill 9 1/2" surface hole to a TD of 348' at 11:30 AM. Pierre Shale at 230'. TOOH and ran 8 joints of 17#, 7" casing to 345.2' GL. Cement to surface with 75 sacks of ready mix. Plug down at 1:30 PM with 3 bbls cement circulated to the pit. RDMO.
(23)	12/28/2005	ADT Rig #114: MIRU AT 6 PM. PU BHA and RIH with 6 1/8" bit on coil tubing and tag cement at 8 PM. Drill 6 1/8" hole from 364' to 1550' (TD). POOH.
	12/29/2005	ADT Rig #114: LD BHA at 3 AM. Rig up PSI and log hole until 5:30 AM. Decided to plug and abandon based on open hole log.
	12/29/2005	MIRU PSI. Ran GR/Caliper/Resistivity/SP logs finding a loggers TD of 1550'. Drillers TD of 1543'. RD release PSI. As per approval, decision was made to plug hole (poor log showing). 18' section on top of Niobrara faulted out. MIRU Longhorn Cementing. Cement properties: Class A Neat Dacotah cement @ 14.8 ppg, 1.32 cf/sx. Mud properties: 8.6 ppg, 34 cP. Set one 35 sack plug across Niobrara and into overlying shale from 1295-1510', set another 35 sack plug half in half out of surface casing from 254-465', set another 10 sack plug at surface via 54' of 4 ½" csg. Cementing procedure: RIH with coil string and 1 drill collar circulating throughout, Pull up to 1510' pumped 8.3 bbls of cement followed by 9.5 bbls of displacement, began pulling coil while pumping cement and continued with displacement of coil to 17.8 total bbls of coil displacement, pumped displacement at 1.5 bpm & pulled coil at 40 ft/min (215' plug). Continue pulling coil to 465' circulating, stopped coil, pumped 8.3 bbls of cement followed by 9.5 bbls of displacement, began pulling coil while pumping cement, and finished displacement of coil with a total of 17.8 bbls, pumped displacement at 1.5 bpm & pulled coil at 40 ft/min (217' plug half in and half out of surface casing). Pull coil out of hole, RIH with 54' of 4 ½" csg, bottom of cement plug at 42' below ground level. RU swage and chicksan broke circulation with rig pump, pumped 2.4 bbls of cement at surface, good returns to surface, SD, RD Longhorn from wellhead, pull csg, allowed cement to fall to just below ground level, clean up longhorn to pit. Released rig @ 8:00 a.m. RD ADT move off location, cut surface csg 5' below surface, weld on ½" plate, fill hole in and level. Operationally everything went smooth.

