

Operator Name: Petroleum Development Corporation Lease Name: Mayfield Well #: 21-5
 Sec. 5 Twp. 5 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 type="checkbox"/> Yes <input checked="" 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: Compensated Density, Compensated Neutron, Dual Induction	<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>1420</td> <td>-2160</td> </tr> <tr> <td>Ft Hayes</td> <td>1482</td> <td>-2098</td> </tr> </table>	Name	Top	Datum	Niobrara	1420	-2160	Ft Hayes	1482	-2098
Name	Top	Datum								
Niobrara	1420	-2160								
Ft Hayes	1482	-2098								

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	9 1/2"	7"	17#	345'	Ready Mix	85	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	1510-1295	Class A	35	Dacotah
<input type="checkbox"/> Protect Casing				
<input checked="" type="checkbox"/> Plug Back TD	465-254	Class A	35	Dacotah
<input type="checkbox"/> Plug Off Zone				

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			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 METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____
(if vented, Submit ACO-18.) Other (Specify) _____

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PETROLEUM DEVELOPMENT CORPORATION
Well History

<p>(NP-KS-EXP Well #60) Mayfield #21-5 CNENW 5 5S 40W Cheyenne County, KS Permit #0150232064500 AFE #05461 LS #695100 (PDC)</p>	<p>12/22/2005</p>	<p>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.</p>
	<p>12/28/2005</p>	<p>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.</p>
	<p>12/29/2005</p>	<p>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.</p>
	<p>12/29/2005</p>	<p>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 1/2" 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 1/2" 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 1/4" plate, fill hole in and level. Operationally everything went smooth.</p>

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