

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 33325  
Name: Petroleum Development Corporation  
Address: 120 Genesis Blvd., Charles Pointe, PO Box 26  
City/State/Zip: Bridgeport WV 26330  
Purchaser: Riley Natural Gas Company  
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. \_\_\_\_\_

10/16/06	10/18/06	11/01/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 023-20710-0000  
County: Cheyenne  
     - NW - SW - NE Sec. 15 Twp. 2 S. R. 42  East  West  
1940 feet from S /  (circle one) Line of Section  
2200 feet from  / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one)  NE SE NW SW  
Lease Name: Northrup Well #: 32-15  
Field Name: Cherry Creek Niobrara Gas Area  
Producing Formation: Niobrara  
Elevation: Ground: 3750' Kelly Bushing: 3762'  
Total Depth: 1803' Plug Back Total Depth: 1770'  
Amount of Surface Pipe Set and Cemented at 9 jts @ 379' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

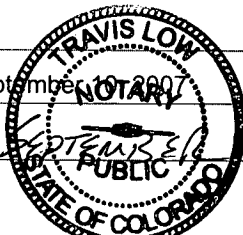
Drilling Fluid Management Plan Alt II UH 7-18-08  
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 50 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: September 10 2007  
Subscribed and sworn to before me this 10 day of SEPTEMBER  
20 07.  
Notary Public: [Signature] My Commission Expires July 5, 2009  
Date Commission Expires: 7-5-2009



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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**SEP 11 2007**

Operator Name: Petroleum Development Corporation Lease Name: Northrup Well #: 32-15  
 Sec. 15 Twp. 2 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 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:  <b>DIL/CDL/CNL/GR and GR/VDL/CBL</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum  Niobrara 1636'
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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#/ft	379'	Type I/II Portland	95	none
Production	6 1/4"	4 1/2"	10.5#/ft	1790'	Type I/II Dacotah	90	2% CaCl <sub>2</sub>

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <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 <i>(Amount and Kind of Material Used)</i>	
			Depth
3	1655'-1667'	500 gal 15% HCL, 70 Quality N2 foam	1655'-1667'
		300 bbls Lightning 15# fluid system	
		97600 lbs of 12/20 mesh Brady Sand	
		4000 lbs CR4000 resin coated sand	
		307120 scf N2	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2-3/8"	1688'				
Date of First, Resumerd Production, SWD or Enhr. <b>December 18, 2006</b>			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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	0	13	0	n/a			

Disposition of Gas		METHOD OF COMPLETION		Production Interval		<b>RECEIVED</b> KANSAS CORPORATION COMMISSION	
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	<input type="checkbox"/> Other (Specify) _____					<b>SEP 11 2007</b>

**SCHAAL DRILLING, CO.**  
**PO BOX 416**  
**BURLINGTON, CO. 80807**  
**719-346-8032**  
**FIELD REPORT**  
**SURFACE CASING, DRILLING AND CEMENTING**

DRILLING DATE 10-16-06

WELL NAME & LEASE # Northrup 32-15

MOVE IN, RIG UP, DIG PITS ETC. DATE 10-13-06 TIME 9:00 AM PM

SPUD TIME 10:15 AM PM SHALE DEPTH 290 TIME 12:30 AM PM

HOLE DIA. 9 1/2 FROM 0 TO 370 TD TIME 1:45 AM PM

CIRCULATE, T.O.O.H., SET 366.40 FT CASING 379.40 KB FT DEPTH

9 JOINTS 7 OD #/FT 14 15.5 17 20 23

PUMP 95 SAC CEMENT 585 GAL.DISP. CIRC. 4 BBL TO PIT

PLUG DOWN TIME 3:15 AM PM DATE 10-16-06

CEMENT LEFT IN CSG. 30 FT TYPE: PORTLAND CEMENT I/II ASTM C 150  
CENTRALIZER 1 CEMENT COST \$ 1457.13

ELEVATION 3760  
+12KB 3772

PIPE TALLY

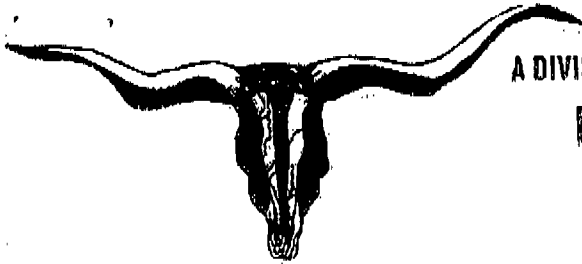
- 1. 40.90
- 2. 40.90
- 3. 40.80
- 4. 40.80
- 5. 40.75
- 6. 41.00
- 7. 39.55
- 8. 40.90
- 9. 40.80
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.

TOTAL 366.40

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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

**FIELD SERVICE TICKET  
 AND INVOICE**

0856

DATE 10-18-06 TICKET NO.

DATE OF JOB <b>PDC</b>	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER <b>PDC</b>	LEASE <b>Northrap 32-15</b>						WELL NO.		
ADDRESS	COUNTY						STATE		
CITY	STATE	SERVICE CREW <b>MIKE - Jorge - VAN</b>							
AUTHORIZED BY	EQUIPMENT <b>UNST#111</b>								
TYPE JOB: <b>Logstring</b>	DEPTH FT.	CEMENT DATA: BULK <input type="checkbox"/>	SAND DATA: SACKS <input type="checkbox"/>	TRUCK CALLED		DATE	AM	TIME	
SIZE HOLE: <b>6 1/8</b>	DEPTH FT.	SACKS	BRAND	TYPE	% GEL	ADMIXES			
SIZE & WT. CASTING	DEPTH FT.						ARRIVED AT JOB	AM	PM
SIZE & WT. D PIPE OR TUBING	DEPTH FT.						START OPERATION	AM	PM
TOP PLUGS	TYPE	WEIGHT OF SLURRY: <b>15.4</b> LBS. / GAL.					FINISH OPERATION	AM	PM
		VOLUME OF SLURRY: <b>1.05</b> CU FT / SK					RELEASED	AM	PM
		SACKS CEMENT TREATED WITH <b>5</b> % OF <b>Calcium</b>					MILES FROM STATION TO WELL.		
<b>PRD 1179.76</b>	MAX DEPTH FT.	MAX PRESSURE	PSI						

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only these terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without written consent or an officer of Advanced Drilling Technologies, LLC.

SIGNED: \_\_\_\_\_ (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM / PRICE REF. NUMBER	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
001-2	Depth Charge - Cement - Mileage As per contract				4200 00
300-2	4 1/2 Accuser / Flasher	#	1	267	267 27
300-4	4 1/2 Latchdown Baffle & plug	#	1	226	226 00
300-6	4 1/2 Centralizers	#	1	254	254 00
300-8	4 1/2 Scratches	#	1	0	0 00
300-12	7" Centralizers	#	1	36	36 94
400-2	CLAYSTA	2.5 gal	1	118	118 12
400-4	KCC	200 lb	1	80	80 60
0830	FRESH WATER - 10.1				
0835	Cement 20.6				
0845	Displacement 28.2				
0900	Bump plug @ 2000				
<b>SUB TOTAL</b>					

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 WICHITA, KS

ACID DATA:			
	GALLONS	%	ADDITIVES
HCL			
HCL			

SERVICE & EQUIPMENT	% TAX ON \$
MATERIALS	% TAX ON \$

**TOTAL**

THE ABOVE MATERIAL AND SERVICE

*[Signatures]*