

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: N/A  
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. \_\_\_\_\_

10/17/06	10/18/06	D&A 10/19/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

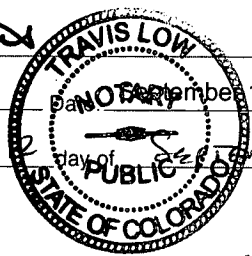
API No. 15 - 023-20709-0000  
County: Cheyenne  
N/2 - NW - NE Sec. 15 Twp. 2 S. R. 42  East  West  
330 feet from S /  (circle one) Line of Section  
1980 feet from  (circle one) E / W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one)  NE SE NW SW  
Lease Name: Northrup Well #: 31-15  
Field Name: Cherry Creek Niobrara Gas Area  
Producing Formation: N/A  
Elevation: Ground: 3727' Kelly Bushing: 3739'  
Total Depth: 1800' Plug Back Total Depth: N/A  
Amount of Surface Pipe Set and Cemented at 8 jts @ 339' 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** PA NH 7-21-08  
(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  
Subscribed and sworn to before me this 12 day of SEPTEMBER, 2007.  
Notary Public: [Signature] My Commission Expires: 7-5-09  
Date Commission Expires: \_\_\_\_\_



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: SEP 13 2007  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

RECEIVED  
KANSAS CORPORATION COMMISSION  
SEP 13 2007  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Petroleum Development Corporation Lease Name: Northrup Well #: 31-15  
 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  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

**DIL/CDL/CNL/GR**

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

Niobrara 1657'

**CASING RECORD**  New  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	339'	Type I/II Portland	83	None

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

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

Production Interval

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SEP 13 2007

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

DRILLING DATE 10-17-06

WELL NAME & LEASE # Northrup 31-15

MOVE IN, RIG UP, DIG PITS ETC. DATE 10-16-06 TIME 4:00 AM PM

SPUD TIME 6:45 AM PM SHALE DEPTH 275 TIME 8:45 AM PM

HOLE DIA. 9 1/2 FROM 0 TO 330 TD TIME 9:15 AM PM

CIRCULATE, T.O.O.H., SET 325.85 FT CASING 338.85 KB FT DEPTH

8 JOINTS 7 0D #/FT 14 15.5 17 20 23

PUMP 83 SAC CEMENT 530 GAL.DISP. CIRC. 2 BBL TO PIT

PLUG DOWN TIME 10:45 AM PM DATE 10-17-06

CEMENT LEFT IN CSG. 20 FT TYPE: PORTLAND CEMENT I/II ASTM C 150  
CENTRALIZER 1 CEMENT COST \$ 1289.75

ELEVATION 3727  
+12KB 3739

PIPE TALLY

1. 40.65  
2. 40.70  
3. 40.70  
4. 40.70  
5. 40.70  
6. 40.70  
7. 40.90  
8. 40.80  
9.  
10.  
11.  
12.  
13.  
14.  
15.  
TOTAL 325.85

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WICHITA, KS