

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

*Handwritten:* 8/18/08

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. \_\_\_\_\_

<u>02/06/2008</u>	<u>02/07/2008</u>	<u>03/12/2008</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 023-20932-0000  
County: Cheyenne  
SW - NE - NE Sec. 8 Twp. 5 S. R. 40  East  West  
740 feet from S 1 (N) (circle one) Line of Section  
1100 feet from E (W) (circle one) Line of Section

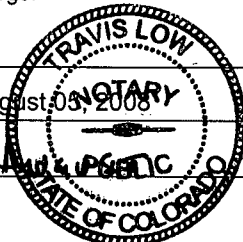
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Culwell Well #: 41-8  
Field Name: Cherry Creek Niobrara Gas Area  
Producing Formation: Niobrara  
Elevation: Ground: 3661' Kelly Bushing: 3673'  
Total Depth: 1625' Plug Back Total Depth: 1578'  
Amount of Surface Pipe Set and Cemented at 10 joints @ 403 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** *AIT 1 NCR*  
(Data must be collected from the Reserve Pit) *8-26-08*  
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: August 05, 2008  
Subscribed and sworn to before me this 5<sup>th</sup> day of August  
20 08  
Notary Public: [Signature] My Commission Expires July 5, 2009  
Date Commission Expires: 7.5.09



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_ **RECEIVED**  
 Wireline Log Received **KANSAS CORPORATION COMMISSION**  
 Geologist Report Received **AUG 06 2008**  
 UIC Distribution  
**CONSERVATION DIVISION**  
**WICHITA, KS**

Operator Name: Petroleum Development Corporation Lease Name: Culwell Well #: 41-8  
 Sec. 8 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 (Attach Additional Sheets)  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 (Submit Copy)  List All E. Logs Run:  <b>CDL, CNL, Dual Induction, CBL</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Niobrara 1394'
--	--

**RECEIVED**  
KANSAS CORPORATION COMMISSION

**AUG 06 2008**

CONSERVATION DIVISION  
WICHITA, KS

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	11"	7"	17#/ft	403'	Type I/II	115	
Production	6 1/8"	4 1/2"	10.5 #/ft	1599'	Type I/II	75	2% KCL

**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
2	1420'-1432'	500 gal 15% HCL, 70 Quality N2 foam,	1420'-1432'
		304 bbls Lightning 15# fluid system,	
		95987 lbs of Ottawa 12/20 mesh sand	
		4000 lbs of SB Excel 12/20 resin coated sand	
		277 MSCF N2	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	------	--------	-----------	---

Date of First, Resumerd Production, SWD or Enhr. <b>Production Pending</b>	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) \_\_\_\_\_

# KANSAS

## CORPORATION COMMISSION

Kathleen Sebelius, Governor Thomas E. Wright, Chairman Michael C. Moffet, Commissioner Joseph F. Harkins, Commissioner

July 16, 2008

~~James Annable~~  
PETROLEUM DEVELOPMENT CORPORATION  
1775 SHERMAN ST, STE 3000  
DENVER, CO 80203

*please change contact to Larry Robbins*

*\* Sent Jim H. a cc of ACO-1 on 8/7/08  
mm*

RE: API Well No. 15-023-20932-00-00  
CULWELL 41-8  
SWNE, 8-5S-40W  
CHEYENNE County, Kansas

*Sent Judy an email re: contact person's name by new # on 8/7/08  
mm*

Dear Operator:

Upon review of the above referenced well, the following documentation appears to be incomplete pursuant to K.A.R. 82-3-107. The requested information below should be submitted to the KCC to my attention by August 05, 2008 for processing. Failure to submit the requested documentation may be punishable by an administrative penalty pursuant to the General Rules and Regulations for the State of Kansas.

- All drilling and completion information. No ACO-1 has been received as of this date.
    - Must be notarized and signed.
    - Must have the ORIGINAL HARD COPY of ACO-1. We do not accept fax copies.
    - Must be put on new form and typed.
    - API # or date when original well was first drilled.
    - Contractor License #.
    - Designate type of Well Completion.
    - If Workover/Re-entry, need old well information, including original completion date.
    - Spud date. (Month, Day, Year)
  - TD and Completion date. (Month, Day, Year)
  - Must have Footages from nearest outside corner of section.
  - Side two on back of ACO-1 must be completed.
  - Must have final copies of DST's/Charts.
  - All original complete open and cased hole wireline logs run.
  - A copy of geological reports compiled by wellsite geologist.
  - A copy of all cement job logs showing type, amounts and additives used to cement casing strings, squeeze and/or to plug and abandon. (Note: Cement tickets must be from company providing the cement, not necessarily the contractor.)
  - Any commingling information; File on the ACO-4 form.
  - Anything HIGHLIGHTED on ACO-1.
- Other: Supporting documentation consisting of copies of open hole logs, drillstem test reports, cementing job tickets, and a copy of the wellsite geologist's strip log.

K.C.C. regulation 82-3-107 provides confidentiality, upon written request, for a period of one year from the date of such letter request. Confidentiality rights are waived if the ACO-1 remains incomplete, or is not timely filed (within 120 days from the well's spud date) including: electric logs, geologist's wellsite reports, driller's logs, and Kansas Geological Survey requested samples.

Do not hesitate to call the Kansas Corporation Commission, Conservation Division, at (316) 337-6200 if there are any questions. PLEASE RETURN THIS FORM AND ANY ENCLOSURES WITH YOUR REPLY. Note: If the intent is incorrect, you need to file a corrected intent.

Sincerely,

Jim Hemmen  
Production Department

RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 06 2008

CONSERVATION DIVISION  
WICHITA, KS

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

DRILLING DATE 2-06-08

WELL NAME & LEASE # Culwell 41-8

MOVE IN, RIG UP, DIG PITS ETC. DATE 2-05-08 TIME 5:45 AM PM

SPUD TIME 9:30 AM PM SHALE DEPTH 320 TIME 12:30 AM PM

HOLE DIA. 11 FROM 0 TO 395 TD TIME 1:15 AM PM

CIRCULATE, T.O.O.H., SET 389.70 FT CASING 402.70 KB FT DEPTH

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

PUMP 115 SAC CEMENT 627 GAL.DISP. CIRC. 8 BBL TO PIT

PLUG DOWN 3:15 AM PM DATE 2-06-08

CEMENT LEFT IN CSG. 30 FT  
CENTRALIZER 1

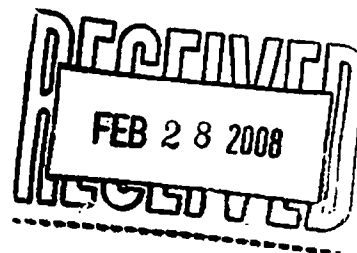
TYPE: PORTLAND CEMENT I/II ASTM C 150  
CEMENT COST \$ 2201.53

ELEVATION 3661  
+12KB 3673

PIPE TALLY

1. 38.95
2. 39.25
3. 38.76
4. 39.05
5. 38.36
6. 39.13
7. 39.13
8. 39.14
9. 39.07
10. 38.86
- 11.
- 12.
- 13.
- 14.

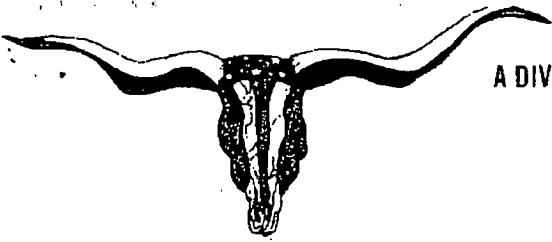
TOTAL 389.70



RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 06 2008

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

DATE 2-7-08 TICKET NO. 1455

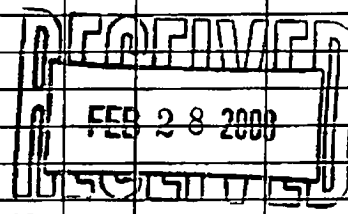
DATE OF JOB <u>2-7-08</u>	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER <u>PDC</u>	LEASE <u>Culwell</u>	41-8		WELL NO.			
ADDRESS	COUNTY	STATE					
CITY	STATE	SERVICE CREW <u>Dave Tom &amp; Damon</u>					
AUTHORIZED BY	EQUIPMENT <u>112</u>						
TYPE JOB: <u>Longstring</u>	DEPTH FT.	CEMENT DATA: BULK <input type="checkbox"/>			SAND DATA: SACKS <input type="checkbox"/>		TRUCK CALLED
SIZE HOLE:	DEPTH FT.	SACKS	BRAND	TYPE	% GEL	ADMIXES	DATE AM PM
SIZE & WT. CASTING <u>4 1/2</u>	DEPTH FT.	<u>75</u>	<u>A</u>	<u>1-11</u>			ARRIVED AT JOB
SIZE & WT. D PIPE OR TUBING	DEPTH FT.						START OPERATION
TOP PLUGS	TYPE:	WEIGHT OF SLURRY: <u>1.5</u>		LBS. / GAL	LBS. / GAL		FINISH OPERATION
		VOLUME OF SLURRY					RELEASED
		SACKS CEMENT TREATED WITH <u>2</u> % OF <u>KCL</u>					MILES FROM STATION TO WELL
<u>PBTD</u>	MAX DEPTH <u>1543.48</u>	MAX PRESSURE		P.S.I.			

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
<u>cont-2</u>	<u>Depth Charge Cement Mileage</u> <u>As per Contract</u>				<u>4300</u>
<u>300-12</u>	<u>7" Centralizer</u>		<u>1</u>		<u>36</u>
<u>400-2</u>	<u>Calcrete</u>		<u>50 lb</u>		<u>50</u>
<u>400-4</u>	<u>KCL</u>		<u>100 lb</u>		<u>40</u>
					<u>4426.74</u>
	<u>* plug held only 100 600 psi</u>				
	<u>Mud Flush</u>				
<u>2300</u>	<u>Displacement 20</u>				
<u>2310</u>	<u>Cement 18 bbl</u>				
<u>2320</u>	<u>Displacement 25.1</u>				
<u>2330</u>	<u>Bump plug @ 1800 psi</u>				
					<b>SUB TOTAL</b>
					SERVICE & EQUIPMENT % TAX ON \$
					MATERIALS % TAX ON \$
					<b>TOTAL</b>



RECEIVED  
 KANSAS CORPORATION COMMISSION  
 AUG 06 2008  
 CONSERVATION DIVISION  
 WICHITA, KS

ACID DATA:			
	GALLONS	%	ADDITIVES
HCL			
HCL			

THANK YOU

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <u>[Signature]</u>
FIELD SERVICE ORDER NO.	(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)