

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 # 33074  
Name: Dart Cherokee Basin Operating Co., LLC  
Address: P O Box 177  
City/State/Zip: Mason MI 48854-0177  
Purchaser: Southern Star  
Operator Contact Person: Beth Oswald  
Phone: (517) 244-8716  
Contractor: Name: McPherson  
License: 5675

Wellsite Geologist: Bill Barks  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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>9/25/02</u>	<u>9/28/02</u>	<u>10/18/02</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30183-00-00  
County: Montgomery  
SW NW NE SW Sec. 4 Twp. 31 S. R. 15  East  West  
2040' FSL feet from S / N (circle one) Line of Section  
3780' FEL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Dougherty Well #: C2-4  
Field Name: Jefferson-Sycamore  
Producing Formation: Penn Coals  
Elevation: Ground: 839' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1344' Plug Back Total Depth: 1308'  
Amount of Surface Pipe Set and Cemented at 22' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1344  
feet depth to 0 w/ 3 3/8" 180 sx cmt.

ALT II WBM 3/31/02  
Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content NA ppm Fluid volume 93 bbls  
Dewatering method used empty w/ vac trk and air dry  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Dart Cherokee Basin Operating Co  
Lease Name: Lavelly 4C License No.: 33074  
Quarter SNE Sec. 3 Twp. 31 S. R. 15  East  West  
County: Montgomery Docket No.: D-23422

**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: Beth Oswald  
Title: Engr Asst Date: 4-8-03  
Subscribed and sworn to before me this 8th day of April, 2003  
Notary Public: Karen L. Welton  
Date Commission Expires: \_\_\_\_\_  
Notary Public, Ingham County, MI  
My Comm. Expires Mar. 3, 2007

**KCC Office Use ONLY**

Letter of Confidentiality Attached Daw

If Denied, Yes  Date: 04-23-03 (D)

Wireline Log Received

Geologist Report Received Drumby log

UIC Distribution

Operator Name: Dart Cherokee Basin Operating Co., LLC Lease Name: Dougherty Well #: C2-4  
 Sec. 4 Twp. 31 S. R. 15  East  West County: Montgomery

**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:

High Resolution Compensated Density Neutron

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

See Attached **RECEIVED**  
 KANSAS CORPORATION COMMISSION

APR 10 2003

CONSERVATION DIVISION  
 WICHITA, KS

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
Surf	11"	8 5/8"		22'	Class A	4	
Prod	6 3/4"	4 1/2"	10.5	1331'	50/50 Poz	180	See Attached

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
	SEE ATTACHED		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	1198'	NA	Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method			
10/31/02	Flowing	<input checked="" type="checkbox"/> Pumping	Gas Lift	Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	NA	47	94	NA	NA

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Sumit ACO-18.)*

METHOD OF COMPLETION

Production Interval

Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
 Other (Specify) \_\_\_\_\_

ORIGINAL APR 10 2003

Dart Cherokee Basin Operating Co LLC #33074  
 Dougherty C2-4 API #125-30183-00-00  
 NW NE SW Sec 4 T31S-R15E  
 Attachment to ACO-1 Well Completion Form

CONSERVATION DIVISION  
 WICHITA, KS

Shots Per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
4	1187'-1190' / 1152.5'-1154' / 1052.5'-1054.5'		
4	1010'-1013' / 946.5'-948.5' / 886.5' - 889.5'		
4	845'-850'		
	1187'-1190', 1152.5'-1154'	350 gal 7 1/2% ac, 5900# sd & 330 BBL fl	
	1052.5'-1054.5'	350 gal 7 1/2% ac, 3000# sd & 230 BBL fl	
	1010'-1013', 946.5'-948.5'	500 gal 7 1/2% ac, 7300# sd & 350 BBL fl	
	886.5'-889.5', 845'-850'	500 gal 15% ac, 8300# sd & 410 BBL fl	

**Drillers Log  
McPherson Drilling LLC**

ORIGINAL

<b>Rig: 3</b>	
<b>API No.</b>	15- 125-30182-0000
<b>Operator:</b>	Dart Cherokee Basin Operating Co. LLC
<b>Address:</b>	P.O. Box 177 Mason, MI 48854-0177
<b>Well No:</b>	C2-4
<b>Lease Name:</b>	Dougherty
<b>Footage Location:</b>	2040 ft. from the South Line 3780 ft. from the East Line
<b>Drilling Contractor:</b>	McPherson Drilling LLC
<b>Spud date:</b>	925/02
<b>Geologist:</b>	Gary Laswell/Bill Barks
<b>Date Completed:</b>	9/27/02
<b>Total Depth:</b>	1344'

<b>S. 4</b>	<b>T. 31 S</b>	<b>R. 15 E</b>
<b>Loc:</b>		
<b>County:</b>		Montgomery

<b>Gas Tests:</b>
<p>RECEIVED KANSAS CORPORATION COMMISSION</p> <p>APR 10 2003</p> <p>CONSERVATION DIVISION WICHITA, KS</p>

Casing Record		
	Surface	Production
Size Hole:	11"	6 3/4"
Size Casing:	8 5/8"	
Weight:	32#	
Setting Depth:	22'	
Type Cement:	Portland	
Sacks:	4	

<b>Rig Time:</b>
2 hrs. - Gas Test
started injecting water @ 220'

Well Log								
Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
soil/clay	0	7	sand/shale	624	647	Mississippi	1216	1344
shale	7	11	sand	647	733			TD (oil)
lime	11	44	pink lime	733	752			
shale	44	121	shale	752	799			
lime	121	131	1st Oswego	799	826 oil			
sand (no sho)	131	183	Summit	826	833			
lime	183	192	2nd Oswego	833	849			
coal	192	193	Mulky	849	858			
shale	193	245	3rd Oswego	858	865			
sand/shale	245	253	sand/shale	865	886			
lime	253	340	coal	886	889			
shale	340	347	sand/shale	889	948			
sand (no sho)	347	411	coal	948	952			
lime	411	443	shale	952	955			
shale	443	497	lime	955	958			
lime	497	506	sand	958	1001 oil			
shale	506	521	coal	1001	1002			
lime	521	527	oil sand	1002	1098			
shale	527	537	sand/shale	1098	1152			
lime	537	571	coal	1152	1156			
shale	571	581	sand/shale	1156	1187			
lime	581	593	coal	1187	1189			
shale	593	624	shale	1189	1216			

ORIGINAL  
TICKET NUMBER 22218

CONSOLIDATED OIL WELL SERVICES, INC.  
211 W. 14TH STREET, CHANUTE, KS 66720  
620-431-9210 OR 800-467-8676

APR 10 2003

CONSERVATION DIVISION  
TREATMENT REPORT

LOCATION Chanute  
FOREMAN Tracy W. Hiams

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
9/28/02		Dougherty C24		4	313	15E	Montgomery	
CHARGE TO <u>Dart</u>				OWNER				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR				
STATE		ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION				TIME LEFT LOCATION				

WELL DATA	
HOLE SIZE	<u>6 7/8</u>
TOTAL DEPTH	<u>1340</u>
CASING SIZE	<u>4 1/2</u>
CASING DEPTH	<u>1313 @ AFU insert</u>
CASING WEIGHT	<u>10.5</u>
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTION PRIOR TO JOB

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Ran 5 bbl of water then 2 sks of gel. Ran 15 bbl of dye water with a mud flush. Ran 180 sks of 50/50 poz mix with 5# Gilsontite, 5% salt, 2# gel + 1/4" flo seal. Shut down + washed up behind plug. Pumped plug to AFU insert + set plug. Shut in. Hardly any returns. Fill dam around well with more cement. Ran 80 sks of cement at 13.5 ppg + 100 sks of cement at 14.5 ppg.

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi <u>100</u>
FINAL DISPLACEMENT	psi <u>700</u>
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi <u>0</u>
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	<u>4</u>
INITIAL BPM	<u>4</u>
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	

AUTHORIZATION TO PROCEED

TITLE

DATE

ALL THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE ARE INCORPORATED AS PART OF THIS SALE.

## TERMS

In consideration of the prices to be charged for our services, equipment and products as set forth in Consolidated Oil Well Services, Inc's (COWS) current Price Schedule, and for the performance of services and supplying of materials; customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices payable to P.O. Box 884, Chanute, KS 66720. Invoices payable within 30 days of invoice date. Charges subjected to interest after 30 days from invoice date. Interest will be charged at Maximum rate allowed by law. In the event it is necessary to employ an attorney to enforce collection of such account, customer agrees pay all collection costs and attorney's fees in the amount of 20% of said amount.

Any applicable federal, state or local sales, use, occupation, consumer's or emergency taxes shall be added to the quoted price.

A sales tax reimbursement of 2% is applied to chemical and product charges for all services performed on oil and gas wells in the State of Texas.

All process license fees required to be paid to others will be added to the scheduled prices.

All prices are subject to change without notice.

## SERVICE CONDITIONS

**Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by COWS.**

**"The customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the customer shall be present to specify depths, pressures, or materials used for any service which is to be performed."**

- (a) COWS shall not be responsible for, and customer shall secure COWS against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of COWS, this provision applying to but not limited to sub-surface damage and surface damage arising from subsurface damage.
- (b) Customer shall be responsible for and secure COWS against any liability for reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of COWS.

- (c) Customer shall be responsible for and secure COWS against any and all liability of whatsoever nature for damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS hereunder.
- (d) Customer shall be responsible for and secure COWS against any liability for injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of COWS.
- (e) COWS makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or services.
- (f) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS gross negligence or willful misconduct in the preparation or furnishing of it.

## WARRANTIES – LIMITATION OF LIABILITY

COWS warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to COWS or, at COWS's option, to the allowance to the customer of credit for the cost of such items. In no event, shall COWS be liable for special, incidental, indirect, punitive or consequential damages.

COWS personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be liable for and CUSTOMER SHALL INDEMNIFY AGAINST ANY DAMAGED ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed by the COWS negligence or fault.



**DART OIL & GAS CORPORATION  
DAILY DRILLING REPORT**

Date: September 29, 2002

Well Name: Dougherty C2-4				Rig: McPherson #3	
Depth or PBTD: 1308' PBTD		Footage Cut: 0		Status: prep for compl - final drlg report	
Estd Days: 3	Rpt Day: 4	Ahd/Bhd:	Size & Depth Last Csg: 4 1/2" @ 1331'	Prog Depth: 1450'	
MW (ppg):	Grad (psi/ft):	Vis (Sec):	WL (cc):	Cl (mg/l):	LCM (#/BBL):
Spud Date: 9/25/02					

Hourly Breakdown & Additional Reporting:

RU Hurrican. TIH w/ 4 1/2" guide shoe, 23' jt 4 1/2" csg, 4 1/2" insert float vlv and 47 jts new 4 1/2" 10.5#/ft 8rd limited
serv tstd to 4400 psi csg. Set csg @ 1331'. Tot of 6 centralizers set @ insert float and then on every 100'. RD
Hurricane. RU Consolidated. Cird well. Mixed and pmpd 2 sx cotton seed hulls, 2 sx gel, 15 BBL dye marker and mud flush. Mixed and pmpd 180 sx 50/50 Poz mix w/ 5% salt, 5#/sx gilsonite, 2% gel, and 1/4#/sx flo-seal. Flushed pmp. Pmpd 4 1/2" rubber plug to 1308'. Cird 1/2 BBL cmt returns to surf. Backside dropped dwn. Mixed up cmt to fill backside and pit. Lead cmt- 80 sx 13.8 ppg, tail cmt- 100 sx 14.5 ppg. Pressd up to 600 psi to set float. Checked w/ WL- plug set @ 1308' PBTD. RD
FINAL DRLG REPORT

**CONFIDENTIAL**

Surveys:

MD	Drift Angle	Direction	TVD	Vertical Section	Coordinates		Elevations	
					N or S	E or W	GL	KB
								839'

Air:

CFM:	PSI:	RPM:	ROP:	Carrier:	Drag:	Torque:
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Drilling Assembly:

Bit Info			Mud Additions		Costs	
Run #			Bar-		Daily Mud Cost:	_____
Size/Make			Gel-		Total Mud Cost:	_____
Type					Daily Well Cost:	\$8,580.00
Nozzles 1/32					Total Well Cost:	\$17,898.00
Depth Out						
Footage						
Hours						
Conditon						
Bit Weight						
RPM						
PSI-GPM						
Pump Liner		Stroke				

Foreman: Bill Barks

BAO  
Mar-06

**RECEIVED  
MAR 31 2006  
KCC WICHITA**