

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form Must Be Typed

**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>11-4-02</u>	<u>11-10-02</u>	<u>12-18-02</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30188-00-00  
 County: Montgomery  
S2 SW NW Sec. 20 Twp. 31 S. R. 16  East  West  
3040' FSL feet from S / N (circle one) Line of Section  
4320' 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: R McDaniel Well #: B1-20  
 Field Name: Neodesha  
 Producing Formation: Penn Coals  
 Elevation: Ground: 775' Kelly Bushing: \_\_\_\_\_  
 Total Depth: 1200' Plug Back Total Depth: 1164'  
 Amount of Surface Pipe Set and Cemented at 44' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 1200'  
 feet depth to 0 w/ 270 sx cmt.  
Act II with 3/21/06  
**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content NA ppm Fluid volume 95 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: Scott 10 License No.: 33074  
 Quarter: NW Sec. 10 Twp. 31 S. R. 15  East  West  
 County: Montgomery Docket No.: D-24260

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**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: 4-15-03  
 Subscribed and sworn to before me this 15th day of April,  
2003.  
 Notary Public: Karen L. Welton  
 Date Commission Expires: \_\_\_\_\_

**Karen L. Welton  
Notary Public, Ingham County, MI  
My Comm. Expires Mar. 3, 2007**

**KCC Office Use ONLY**

Letter of Confidentiality Attached JPW  
 If Denied, Yes  Date: 04-23-03 CD  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Dart Cherokee Basin Operating Co., LLC Lease Name: R McDaniel Well #: B1-20  
 Sec. 20 Twp. 31 S. R. 16  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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Electric Log Run Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  High Resolution Compensated Density Neutron	Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum See Attached <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                     RECEIVED                      KANSAS CORPORATION COMMISSION                       APR 18 2003                       CONSERVATION DIVISION                      WICHITA, KS                 </div>
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CASING RECORD <small>New <del>Used</del></small>							
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"		44'	Class A	30	
PRod	6 3/4"	4 1/2"	10.5	1169'	50/50 Poz	270	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
4	1055'-58'	450 gal 7 1/2% ac, 4350# sd & 580 BBL fl	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	1131'	NA	Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
4-1-03		Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/>		Gas Lift	Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	NA	6	41	NA	NA

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
*(If vented, Sumit ACO-18.)*  Other (Specify) \_\_\_\_\_

**McDaniel B1-20**  
**Core Description**

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Pink lime 526-45 sample  
 Black Shale 546-56 sample  
 Gray Shale 556-615  
 Oswego lime 615-626

Core 1 628 - 32.7 rec. 4'8" gy lm dns, occ. sty.  
 Core 2 632.7 - 37.4 same foss. inc.  
 Core 3 637.4 - 643.7 same, less foss.  
 643.7 - 647.2 gy to dark gy sh alt. dk @ 645 & 646

Summit  
 Core 4 647.2 - 651 blk sh. some gas bubbling  
 651 - 657.2 dr gy ls, grading to lt. gy. ls

Core 5 657.2 - 66.9 gy ls. occ. sty. and foss.  
 Core 6 666.9 - 669.9 a.a.  
 669.9 - 675.8 bl sh, some gas bubbling, some rubble

Mulky 675.8 - 676.8 coal, mostly rubble, 3"-4" solid w/ gas  
 bubbles  
 676.8 - 677.5 gy ls

Core 7 677.5 - 680 gy ls  
 680 - 684.5 gy ls, w/ foss.  
 684.5 - 686.3 dk gy sh

Core 8 686.3 - 697 dk gy sh, bottom 3/4 all biscuit sized  
 pieces, washed out

Core 9 697 - 698.6 dk gy sh  
 698.6 - 699.6 coal, Bevier, some gas bubbling  
 699.6 - 706.9 gy sh to lt gy sh, soft & broken

Core 10 706.9 - 717 gy to dk gy sh all biscuits  
 Core 11 717 - 721.5 gy sh  
 721.5 - 722.8 dk gy sk, Croweburg, good cleat in sh  
 722.8 - 723.2 coal Croweburg  
 723.2 - 727.1 gy sh to lt gy sh

Core 12 722.1 - 729 gy sh grading to gy ls  
 729 - 730 gy sh  
 730 - 737 lt gy sh, soft

Core 13 737 - 747 gy sh grading to lt gy sh  
 Core 14 747 - 757 dk gy sh, biscuits  
 Core 15 757 - 758 gy sh  
 758 - 758.8 coal, Mineral

WELL FILE

Core 15 758.8 – 766.4 gy sh  
 Core 16 766.4 – 776.7 ½ dk gy sh & ½ gy sh  
 Core 17 776.7 – 783.4 gy sh  
 783.4 – 784 Coal  
 785 – 787 gy sh bldg oil 785.2 – 785.5  
 Core 18 787 – 789.2 gy sh  
 789.2 – 790.1 gy sh w/ ss lenses bldg oil  
 790.1 – 797 gy sh “poker chip”  
 Core 19 797 – 803.9 dk gy sh  
 803.9 – 804.1 coal (did not test)  
 804.1 – 807 lt gy to tan sh to siltstone  
 Core 20 807 – 817 lt gy shly ss & sndy sh  
 Core 21 817 – 827 mostly sh, little sand  
 Core 22 827 – 830.2 gy sh  
 830.2 – 830.8 coal, Weir  
 830.8 – 836 gy sh  
 Core 23 836 – 846 gy sh only rec. 7’  
 Core 24 846 – 852 gy sh  
 Core 25 852 – 862 gy sh w/ biscuits in bottom 3’  
 Core 26 862 – 872 gy sh

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Gary Laswell described from 872 - 962, Gary Boog off site

962 – 986.9 mostly ss f-m grn, gy, w/ abundant sh partings and abundant clasts indicating high energy reworking

987 – 997 ss a.a grading to gy sh, abundant healed med to high angle frags w/ offset up to a couple inches. Angle & occ. inc. frac @ bottom not healed w/ schlickensides, thin coally seam @ 986.8 bldg gas, ss above and below bldg in shly partings

997 – 1007 sh, dk gy switching to gy, all frac, came out of core barrel in thin broken med to high angle frac, all broken

1007 – 1017 rec. 3’-4’ of sh a.a. lost 1007.5 -1013.7

1017 – 1027 rec. 7.3’ ½ dk gy sh, biscuits lost 1023.4 – 1026.7

1027 – 1031 rec. 4.2’, 1’ dk sh, 3’ gy sh, all fairly bkn, lost 1034 - 1037

1036 – 1045 broken sh, a.a. to 1038.5, dk sh laminated, brkn, along bedding, some across

ORIGINAL

**Riverton** 1045 – 1054.5 lam sh a.a.  
1054.5 – 1057.5 Coal, Riverton  
1057.5 – 1067 dk sh, occ. lam. occ. frac & bkn grading  
to almost blk sh  
1067 – 1069.7 dk sh almost blk w/ abundant gy  
nodules throughout

**Miss** 1069.7 – 1077 cream chert abundant bldg oil  
1077 – 1087 a.a. w/ a few high angle vert frags, bldg  
oil to 1081

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

CONSERVATION DIVISION  
WICHITA, KS

TICKET NUMBER 23066  
LOCATION Chanute, KS  
FOREMAN Jim Green

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
11.9.02	2368	R. McDaniel	B1-20 S/S WSW	20	31S	16E	MG	
CHARGE TO DART				OWNER				
MAILING ADDRESS PO Box 100				OPERATOR Mike Jaskowski				
CITY Sycamore				CONTRACTOR Layne				
STATE KS		ZIP CODE 67363		DISTANCE TO LOCATION 40				
TIME ARRIVED ON LOCATION 2:00 PM				TIME LEFT LOCATION				

WELL DATA	
HOLE SIZE	7 7/8"
TOTAL DEPTH	1200'
CASING SIZE	4 1/2"
CASING DEPTH	1168' Insert at 1163'
CASING WEIGHT	
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/ET	
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  
389 PU 56, 128 P TOP, Cement One Well, 122 BT GW, 230 BT 5 B, 400 T/S & T-66 RH  
401 T/S & T-21 LP

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Establish circulation, Mix and pump 2 sugar with bells followed with 10 bbl pad mix and pump 12 bbls dye marker with mud flush. Mix and pump 130 cu lead cement at 13.8" RPB. 140 cu tail cement at 14.5" RPB. Flush pump clear of cement. Pump 4 1/2" rubber plug to total depth of casing, circulating 6 bbls return cement to surface. Pressure up to 800# PSI. Well held good set float. Check with wire line. Plug set at 1163'. Used 27051c 5% 50 lb mix 5# Gilsen. 1c 5% salt, 2% gel 1 1/4" x 10' seal

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	

AUTHORIZATION TO PROCEED  
Mike Jaskowski

TITLE DATE

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