

**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 **RECEIVED**  
 Phone: (517) 244-8716 **KANSAS CORPORATION COMMISSION**  
 Contractor: Name: McPherson **APR 10 2003**  
 License: 5675  
 Wellsite Geologist: Bill Barks **CONSERVATION DIVISION**  
 Designate Type of Completion: **WICHITA, KS**  
 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>10-31-02</u>	<u>11-13-02</u>	<u>1-22-03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30195-00-00  
 County: Montgomery  
C NW NE Sec. 35 Twp. 33 S. R. 14  East  West  
4620' FSL \_\_\_\_\_ feet from S / N (circle one) Line of Section  
1980' 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: Butler Well #: A3-35  
 Field Name: Wayside-Havana  
 Producing Formation: Penn Coals  
 Elevation: Ground: 837' Kelly Bushing: \_\_\_\_\_  
 Total Depth: 1487' Plug Back Total Depth: 1473'  
 Amount of Surface Pipe Set and Cemented at 20' Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 1487  
 feet depth to 0 ACT II WITHIN 3/22/06 325 sx cmt.  
**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit)  
 Chloride content NA ppm Fluid volume 90 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: Lentz 1 License No.: 33074  
 Quarter SE Sec. 18 Twp. 31 S. R. 16  East  West  
 County: Montgomery Docket No.: D-25956

**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 8<sup>th</sup> 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 **DPW**

If Denied, Yes  Date: 04-23-03 **CD**

Wireline Log Received

Geologist Report Received - DRM LOG

UIC Distribution

Operator Name: Dart Cherokee Basin Operating Co., LLC Lease Name: Butler Well #: A3-35  
 Sec. 35 Twp. 33 S. R. 14  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  
**RECEIVED**  
 See Attached KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION  
 WICHITA, KS

CASING RECORD <span style="float: right;">New Used</span>							
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"		20'	Class A	4	
Prod	7 7/8"	4 1/2"	10.5	1478'	50/50 Poz	375	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 (Amount and Kind of Material Used)	Depth
4	1366.5'-1368', 1343'-1346.5'	150 gal 15%, 400 gal 7.5% ac, 5580# sd, &	300 bbl fl
4	1271.5'-1273', 1255'-1257.5'	300 gal 7 1/2% ac, 4650# sd & 240 BBL fl	
4	1167.5'-69', 1128'-30', 1099.5'-1100.5', 1079-1081'	500 gal 7 1/2% ac, 6200# sd & 320 BBL fl	
4/4/4/2	1033.5'-34.5'/1014'-15'/1007.5'-09'/984'-988'	500 gal 7 1/2% ac, 8100# sd & 370 BBL fl	
4	953'-956.5'	400 gal 7 1/2% ac, 4200# sd & 210 BBL fl	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	1436'	NA	Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
3/1/03	Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <input type="checkbox"/>

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	NA	34	81	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) \_\_\_\_\_

**Butler A3-35** RECEIVED  
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**Core Description**

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Pawnee (pink) lime 800' – 31'  
Oswego lime 916' – 948'  
Core point 928'

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Core 1	928 – 937.3 gy ls w/occ, sty & high < frags. Bldg oil 928 – 930
Core 2	937.3 – 947.4 gy ls a/a/ s. abund carb. prt. bldg oil profusely to 942.7
Core 3 Summit	947.4 – 957.2 dk gy ls. grading (948.3) to dk gy sh to blk sh (952.6) to dk gy sh (954.6)
Core 4	957.2 – 957.8 dk gy sh, bldg oil in bedding planes 957.8 – 967.1 lt gy ls w/ abundant sty or carb part.
Core 5	967.1 – 977.4 lt gy ls a/a/ w. shly zones @ 974 – 974.2, 974.7 – 974.9, 975.1 – 975.3 bubbling gas, bldg oil @ 975.8 – 976, stn @ 976.5 – 976.8
Core 6 Mulky	977.4 – 982.2 gy ls a.a. grading to blk sh @ 982.2 – 985.2 blk sh some bubbling gas
Core 7	985.2 – 986.4 blk sh 986.4 – 992.3 gy ls w/ abundant carb. Part. Bldg oil in last foot
Core 8	992.3 – 997.4 gy ls a.a.
Core 9	997.4 – 1000.5 gy ls a.a. grading rapidly to blk sh 1000.5 – 1006.1 blk sh grading to coal 1006.1 – 1007.2 coal Bevier lost 0.3'
Core 10	1007.5 – 1010.5 gy sh came out gummy, only drilled 3' because of gumming up Lost 1010.5 – 1011.2 a.a.
Core 11	1011.2 – 1017.4 gy sh w. coally zone @ 1012.7 – 1012.9 not tested
Core 12	1017.4 – 1027.7 0.5' gy sh, dk to blk sh w/ abundant thin (few mm) layers & nodules of pyrite
Core 13	1027.7 – 1028.5 dk sh w/ abundant foss 1028.5 – 1030 gy sh 1030 – 1033.3 blk sh 1033.3 – 1034 coal, Croweburg 1034 – 1038.1 gy sh
Core 14	1038.1 – 1041 gy sh 1041 – 1042.4 gy ls 1042.4 – 1047.3 gy sh carb at top
Core 15	1047.3 – 1056.3 gy sh grading to dk gy sh Lost core 1056.3 – 1057
Core 16	1057 – 1066.6 dk gy sh w/ occ. pyrite nodules
Core 17	1066.6 – 1074 gy sh grading to dk gy sh 1074 – 1076.3 dk gy sh

WELL FILE

- lost 0.4'
- Core 18 1076.9 – 1078 coal, Mineral, pyrite nodule, poor coal  
1078 – 1086.5 gy sh, sl lam. toward bottom
- Core 19 1086.5 – 1095.9 gy lam. sh poss. 2" coally zone @ base  
1095.9 – 1096.7 gy ls
- Core 20 1096.7 – 1105.7 gy sh  
Lost 0.8' core
- Core 21 1106.5 – 1115.7 gy sh lam.  
Lost 0.6' core
- Core 22 1116.3 – 1122.3 gy lam. Sh  
1122.3 – 1124.3 dk gy sh  
1124 .3 – 1125.3 blk sh Tebo
- Core 23 1125.3 – 1125.5 blk sh  
1125.5 – 1131.8 gy sh
- Core 24 1131.8 – 1136.5 gy sh
- Core 25 1136.5 – 1146 gy sh/dk sh
- Core 26 1147 – 1152 rubblized coal unknown thickness at top, Weir?  
The rest gy sh
- Core 27 1152 – 1157 lost core  
1157 – 1158 dk sh  
1158 – 1166.3 gy sh  
Lost core 1166.3 -1167
- Core 28 1167 – 1175 gy sh w/ ss @ 1170.4 – 1171.3 & 1172 – 1172.3  
Lost core 1175 – 1177
- Core 29 1177 – 1180.8 alternating layers of gy & dk gy sh
- Core 30 1180.8 – 1186.8 gy sh, soft mushy
- Core 31 1186.8 – 1197.7 dk gy sh w/ a few thin (1" or less) sand  
lenses, lam. sh
- Core 32 1197.7 – 1205.7 gy to dk gy sh, 1/2" coal @ 1204.8  
Lost core 1205.7 – 1212
- Core 33 1208 – 1210.1 dk gy sh grading to blk sh, bkn & oily  
1210.1 – 1212 ss f-m gr, greenish cast in top 9",  
poss.chlorite, occ. bldg oil, fairly friable, oil stn throughout
- Core 34 1212 – 1217.1 ss, brn, a.a. bldg oil and good odor  
throughout, vertical frags w/ bitumen in bottom 6"
- Core 35 1217.1 – 1220.6 ss a.a.  
1220.6 – 1227.4 lam. Ss & gy sh w. ss bldg oil throughout
- Core 36 1227.4 – 1231.6 lam ss & sh a.a.  
1231.6 – 1237.2 gy sh
- Core 37 1237.2 – 1242 gy sh gummy  
1242 – 1246.6 dk gy sh
- Core 38 1246.6 – 1251 a.a.  
1251 – 1252 lost core  
1252 – 1253.5 blk sh  
1253.5 – 1256.9 gy sh
- Core 39 1256.9 – 1265.1 gy sh, bkn @ 1263-bottom prob drlg induced
- Core 40 1265.1 – 1267 gy sh grading to dk gy sh  
1267 – 1267.3 coal 2<sup>nd</sup> Dry Wood, pyrite nodules  
1267.3 – 1270.9 gy sh

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Core 41 1270.9 – 1274.4 dk gy sh, grading to blk sh lam w/ brn sand  
or chert

Lost 1274.4 – 1277

Core 42 1277 – 1279.4 dk gy sh w/ 0.2' coal @ bottom

1279.4 – 1281.9 gy sh

Core 43 1281.9 – 1290.9 gy to dk gy sh

1290.9 – 1295.5 dk gy sh

lost core 1295.5 -1297

Core 44 1297 – 1307.1 dk gy sh

Core 45 1307.1 – 1315.7 dk gy to blk sh w/ brn chert layers/nodules

throughout

Lost 1315.7 -1317

Core 46 1317 – 1327.3 sh a.a.

Core 47 1327.3 – 1336.5 sh a.a. w/ abundant lam.

Core 48 1336.5 – 1340.8 dk gy sh

1340.8 – 1343.8 coal Upper Riverton – nice cleating frac,  
canistered

1343.8 – 1344.8 brn coally sh – nice cleating frac, canistered

1344.8 – 1347.2 gy sh

Core 49 1347.2 – 1350.9 gy sh

1350.9 – 1351.9 blk sh – Ticora took sample

1351.9 – 1355.1 dk gy sh

lost core 1351.1 – 1356.4

Core 50 1356.4 – 1363.5 dk gy sh grading to blk sh last 2'

1363.5 – 1364.5 coal – Riverton

1364.5 – 1365.8 gy sh

Core 51 1365.8 -1367 gy sh

1367.6 -1368.7 dk gy sh to blk sh

1368.7 – 1371.5 lt gy sh

1371.5 -1375 lost core

1375 – 1377 gy sh grading to gy ls to dk gy ls

1377 – 1382.9 dk gy ls w/ 2 nearly vertical healed calcite  
filled frac's

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WICHITA, KS

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APR 10 2003

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 23072  
LOCATION Chanute, KS  
FOREMAN Tim Gessa

TREATMENT REPORT

1 of 1 wells

DATE	CUSTOMER ACCT #	WELL NAME	ST/BOTH	SECTION	TWP	RGE	COUNTY	FORMATION
11-13-02	2308	Burke #A3-35	C/NONE	35	33N	14E	MB	
CHARGE TO <u>DART</u>				OWNER				
MAILING ADDRESS <u>P.O. Box 100</u>				OPERATOR <u>B.H. Burke</u>				
CITY <u>Sycamore,</u>				CONTRACTOR <u>Layne Christensen</u>				
STATE <u>KS</u>		ZIP CODE <u>67363</u>		DISTANCE TO LOCATION <u>50</u>				
TIME ARRIVED ON LOCATION <u>8:30 AM</u>				TIME LEFT LOCATION <u>12:30 PM</u>				

WELL DATA	
HOLE SIZE	<u>2 7/8" 1487'</u>
TOTAL DEPTH	
CASING SIZE	<u>4 1/2"</u>
CASING DEPTH	<u>1478' Jaser 1473'</u>
CASING WEIGHT	
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 Cement One Well  
389 PULS @ 12.91 COP, 122 @ 230 BF TB HR, 414 T/S @ 33 MIN  
13.9 T/S @ 7.69 HP

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Establish circulation. Mix and pump 2x gel with Halls, pump 100  
bl pad. Mix and pump 16 bbls Dye Marker with mud. Flush. Follow with  
Mixing and pumping 375 cu ft 5% PAC mix cement. 5" @ 1600 psi. 5" @ 1600 psi. 2" @ 1600 psi.  
Seal lead cement 160 cu ft at 138" W.G. Tail cement at 14.5" W.G. 215 cu ft. Flush pump  
Clear of cement. Pump 4 1/2" rubber plug to total depth of casing. Circulation 2 bbls  
Return cement. Pressure at 1000 psi well hold goal set about. Check  
with wireline, plug set at 1420'

PRESSURE SUMMARY	
BREAKDOWN OF 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  
L. G. Burke

TITLE

DATE