

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**

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

8/6/12

OPERATOR: License # 30606  
 Name: Murfin Drilling Company, Inc.  
 Address 1: 250 N. Water, Suite 300  
 Address 2: \_\_\_\_\_  
 City: Wichita State: KS Zip: 67202 + \_\_\_\_\_  
 Contact Person: Leon Rodak  
 Phone: ( 316 ) 267-3241  
 CONTRACTOR: License # 30606  
 Name: Murfin Drilling Company, Inc.  
 Wellsite Geologist: Paul Gunzelman  
 Purchaser: MV Purchasing

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Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SLOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., 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     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled      Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD      Permit #: \_\_\_\_\_  
 ENHR      Permit #: \_\_\_\_\_  
 GSW      Permit #: \_\_\_\_\_

<u>04/09/10</u>	<u>04/15/10</u>	<u>05/11/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 039-21116-0000  
 Spot Description: \_\_\_\_\_  
NW\_NW\_NE\_NW Sec. 20 Twp. 4 S. R. 26  East  West  
100 Feet from  North /  South Line of Section  
1,630 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Decatur  
 Lease Name: Carter Unit Well #: 1-20  
 Field Name: Wildcat  
 Producing Formation: None  
 Elevation: Ground: 2475 Kelly Bushing: 2480  
 Total Depth: 3870 Plug Back Total Depth: 3834  
 Amount of Surface Pipe Set and Cemented at: 218 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: 2088 Feet  
 If Alternate II completion, cement circulated from: 2088  
 feet depth to: surface w/ 150 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls  
 Dewatering method used: \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

**AFFIDAVIT**

I am the affiant and I hereby certify that 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: \_\_\_\_\_

Title: VP Production Date: 08/06/10

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: 8-6-10 - 8/6/12
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: NJ Date: 8/3/10

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Operator Name: Murfin Drilling Company, Inc. Lease Name: Carter Unit Well #: 1-20 AUG 06 2010  
 Sec. 20 Twp. 4 S. R. 26  East  West County: Decatur

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**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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Compensated Porosity, Microresistivity</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum  See Attached List  <div style="text-align: right;"> <b>RECEIVED</b>  <b>AUG 09 2010</b>  <b>KCC WICHITA</b> </div>
---	---

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		8 5/8	23#	218	Common	170	3% cc, 2% gel
Production		5 1/2	15.5#	3861.	EA-2	175	

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	3221-3228 Howard	250 gal 15% MCA	
4	3520-3528 LKC "F"	LCK "F" & "K" 750 gal 15% MCA	
4	3615-3630 LKC "K"	400 gal 15% MCA	
4	3642-3647 LKC "L"	250 gal 15% MCA, 750 gal 15% FE	

TUBING RECORD:	Size: <u>2-3/8</u>	Set At: <u>3685</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR: <b>05/14/10</b>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>28</u>	Gas Mcf	Water Bbls. <u>32</u>	Gas-Oil Ratio	Gravity <u>36.5</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3221-3647</u>
---	--	--

MDCI  
 Carter Unit #1-20  
 100 FNL 1630 FWL  
 Sec. 20-T4S-R26W  
 2480' KB

L.D. Drilling, Inc.  
 Fleckenstein #1  
 1980 FNL 990 FEL  
 Sec. 20-T4S-R26W  
 2545' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2051	+429	+7	2050	+428	+6	2123	+422
B/Anhydrite	2084	+396	+8	2084	+396	+8	2157	+388
Topeka	3239	-759	+12	3236	-756	+15	3316	-771
Heebner	3414	-934	+10	3414	-937	+7	3489	-944
Toronto	3445	-965	+13	3440	-960	+18	3523	-978
Lansing	3456	-976	+12	3456	-976	+12	3533	-988
BKC	3645	-1165	+14	3646	-1166	+13	3724	-1179
Arbuckle	3834	-1854		3836	-1856		NDE	NDE
RTD	3870	-1390					3747	
LTD				3871	-1391		3750	

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PO BOX 31 Russell, KS 67665

**PROD COPY**

asst. *Liz*  
**INVOICE**

Invoice Number: 122198

Invoice Date: Apr 9, 2010

Page: 1

Voice: (785) 483-3887  
Fax: (785) 483-5566

**Bill To:**  
Murfin Drlg. Co., Inc.  
250 N. Water  
STE #300  
Wichita, KS 67202

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*operator pay*  
*no cost*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	<u>Carter Unit #1-20</u>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 9, 2010	5/9/10

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	15.45	2,626.50
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.40	429.60
35.00	SER	Mileage 179 sx @ .10 per sk per mi	17.90	626.50
1.00	SER	Surface	1,018.00	1,018.00
35.00	SER	Pump Truck Mileage	7.00	245.00

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Account	Unit	W	No	Amount	Description
<i>Q3600</i>	<i>008W</i>		<i>3636</i>	<i>5548.60</i> <i>(1875.02)</i>	<i>Cement S. (Sg.)</i>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

**\$ 1875.02**

ONLY IF PAID ON OR BEFORE  
**May 4, 2010**

Subtotal	5,357.20
Sales Tax	191.40
Total Invoice Amount	5,548.60
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,548.60</b>

*1875.02*  
*LM*  
**3673.58**

# ALLIED CEMENTING CO., LLC. 039220

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Ogkley

DATE <u>4-9-10</u>	SEC <u>20</u>	TWP <u>4</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30am</u>	JOB FINISH <u>7:00pm</u>
LEASE <u>Carter unit</u>	WELL # <u>1-20</u>	LOCATION <u>Jennings</u>	<u>2 NE 1/4 W</u>		COUNTY <u>Decatur</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Sinto</u>				

CONTRACTOR Murfin Drilling Rig 8 OWNER same

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 218'

CASING SIZE 8 5/8 DEPTH 218'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 12.93 BBL

EQUIPMENT

CEMENT

AMOUNT ORDERED 170 sks com

3900 2 1/2 gel

COMMON	<u>170 sks</u>	@ <u>15.45</u>	<u>2626.50</u>
POZMIX		@	
GEL	<u>3 sks</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 sks</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>179 sks</u>	@ <u>2.40</u>	<u>429.60</u>
MILEAGE	<u>10 1/2 sk/mile</u>		<u>626.50</u>
			TOTAL <u>4094.20</u>

PUMP TRUCK # 423-287 CEMENTER Andrew

HELPER Larene

BULK TRUCK # 396 DRIVER Jerry

BULK TRUCK # DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Murfin

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 218'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @

MILEAGE 35 miles @ 7.00 245.00

MANIFOLD @

TOTAL 1263.00

PLUG & FLOAT EQUIPMENT

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Fair

SIGNATURE Rodney Fair

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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Accty — cc: WTR  
cc: Liz  
cc: Leon p.1



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
4/28/2010	17888

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

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**AUG 06 2010**

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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator	
Net 30	#1-20	Carter Unit	Decatur	Murfin Drilling	Oil	Development	Cement Top Stage	Brett	
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT	
575D	Mileage - 1 Way				80	Miles	5.00	400.00	
576D-D	Pump Charge - Port Collar				1	Job	1,100.00	1,100.00	
581D	Service Charge Cement				300	Sacks	1.50	450.00	
583D	Drayage				1,201.2	Ton Miles	1.00	1,201.20	
330	Swift Multi-Density Standard (MIDCON II)				170	Sacks	15.00	2,550.00T	
276	Flocele				150	Lb(s)	1.50	225.00T	
279	Bentonite Gel				1	Sack(s)	25.00	25.00T	
290	D-Air				2	Gallon(s)	35.00	70.00T	
	Subtotal							6,021.20	
	Sales Tax Decatur County						6.30%	180.81	
<p>USED FOR <u>NEW WELLS</u></p> <p>APPROVED <u>[Signature]</u></p>									
<p>RECEIVED AUG 09 2010 KCC WICHITA</p>									
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$6,202.01	



CHARGE TO: **Murfin Drlg. Co.**  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

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TICKET  
17888

PAGE 1 OF 1

SERVICE LOCATIONS 1. <b>Ness City KS</b>	WELL/PROJECT NO. <b>1-20</b>	LEASE <b>Carter Unit</b>	COUNTY/PARISH <b>Decatur</b>	STATE <b>KS</b>	DATE <b>4-28-10</b>	OWNER <b>Ness City</b>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <b>Murfin Drlg. Co.</b>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO <b>Jennings</b>	ORDER NO.
3.	WELL TYPE <b>Oil</b>	WELL CATEGORY <b>Development</b>	JOB PURPOSE <b>Cement Top Stage</b>	WELL PERMIT NO.	WELL LOCATION <b>Jennings 1 1/2 E 1/4 NW 1/4</b>	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
575		1			MILEAGE Trk #114	80	mi			5.00	400.00
5760		1			Pump Charge Port Collar	1	ea			1100.00	1100.00
581		1			Service Charge Cement	300	sk			1.50	450.00
583		1			Drayage	1201.20	Tm			1.00	1201.20
330		1			Swift Multi-Density Standard	170	sk			15.00	2550.00
276		1			Floccle	150	lbs			1.50	225.00
279		1			Bentonite Gel	1	sk			25.00	25.00
290		1			D-Air	2	gal			35.00	70.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*  
 DATE SIGNED **4-28-10** TIME SIGNED **0900**  A.M.  P.M.

REMIT PAYMENT TO:  
  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<b>6021.20</b>
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Decatur TAX @ 3%	<b>180.81</b>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	<b>6202.01</b>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *Brett Corsair* APPROVAL: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 4-28-10 PAGE NO.

CUSTOMER *Murfin Drilling Co* WELL NO. *1-20* LEASE *Carter Unit* JOB TYPE *Cement Top Stage* TICKET NO. *17888*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							On Location PC @ 2088 2 3/8 x 5 1/2
	0920			✓			1000	Pressure Test - Held
	0925	3 1/2		✓		500		Open Tool - Injection Rate
	0930	3 1/2	3	✓		500		Start Gel 1 sk Circulation - at Surf
		3 1/2	10	✓		500		Pump Water Spacer
	0935	3 1/2		✓		500		Start Cement 11.2 ppg
		3 1/2	83	✓		600		Cement to Surface Cement 14.0 ppg
			95			400		Shut Down Cement - 170 sks Total 20 sks To pit
		3 1/2		✓		600		Start Displacement
	1015		7			300		Shut Down - Shut in Close Tool
	1020			✓			1000	Pressure Test - Held Run 6 JTs
	1030		25	✓				Reverse Clean
								Wash Truck
	1100							Job Complete Thank you Brett, Dave & Kane

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P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



cc: WF  
e: lemp.l

# Invoice

DATE	INVOICE #
4/16/2010	17561

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Carter Unit	Decatur	Murfin Drilling #8	Oil	Development	LongString	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
578D-L	Pump Charge - Long String	1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
280	Flocheck 21	500	Gallon(s)	2.50	1,250.00T
290	D-Air	2	Gallon(s)	35.00	70.00T
402-5	5 1/2" Centralizer	15	Each	55.00	825.00T
403-5	5 1/2" Cement Basket	2	Each	200.00	400.00T
404-5	5 1/2" Port Collar	1	Each	1,900.00	1,900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	275.00	275.00T
413-5	5 1/2" Roto Wall Scratcher	20	Each	40.00	800.00T
419-5	5 1/2" Rotating Head Rental	1	Each	150.00	150.00T
325	Standard Cement	225	Sacks	12.00	2,700.00T
276	Flocele	56	Lb(s)	1.50	84.00T
283	Salt	1,100	Lb(s)	0.15	165.00T
284	Calseal	11	Sack(s)	30.00	330.00T
285	CFR-1	160	Lb(s)	4.00	640.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	942.64	Ton Miles	1.00	942.64
	Subtotal				12,994.14
	Sales Tax Decatur County			6.30%	624.58

USED FOR NEW WELL

APPROVED JT

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**We Appreciate Your Business!**

**Total**

\$13,618.72



CHARGE TO: MURFIN DRUG

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP CODE: \_\_\_\_\_

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SERVICE LOCATIONS 1. <u>HAYS</u>	WELL/PROJECT NO. <u>1-20</u>	LEASE <u>CARTER UNIT</u>	COUNTY/PARISH <u>DECATUR</u>	STATE <u>KS</u>	CITY	DATE <u>04-16-10</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>MURFIN DRUG #8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>2E 18N JENNINGS KS</u>	ORDER NO.	
3.	WELL TYPE <u>DK</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>LONGSTRING</u>	WELL PERMIT NO. <u>15-039-21116</u>	WELL LOCATION <u>S20, T4, R26</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE #112	80	mi	5.00		400.00
578		1			Pump Service	1	EA	1400.00		1400.00
221		1			LIQUID HCL	4	GAL	25.00		100.00
280		1			FLOCHECK 21	500	GAL	2.50		1250.00
290		1			DAIR	2	GAL	35.00		70.00
402		1			CENTRALIZER	15	EA	55.00	5 1/2 in	825.00
403		1			CMT BASKET	2	EA	200.00	5 1/2 in	400.00
404		1			PORT COLLAR 2089 FT	1	EA	1900.00	5 1/2 in	1900.00
406		1			LATCH DOWN PILE & Baffle	1	EA	225.00	5 1/2 in	225.00
407		1			FRSRT FLOATSHOE 1/4 IN O.K. FILL	1	EA	275.00	5 1/2 in	275.00
413		1			ROTARY HEAD SCATCHERS	20	EA	40.00	100 FT	800.00
419		1			ROTATING HEAD RENTAL	1	EA	150.00	5 1/2 in	150.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X Brian Selas

DATE SIGNED 04-16-10 TIME SIGNED 1445  A.M.  P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	Pg. 1	7795.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	
WE UNDERSTOOD AND MET YOUR NEEDS?				Pg. 2	5199.44
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Sub TOTAL	12,994.44
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Decatur TAX @ 6.3%	624.58
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL	13,618.72
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR DAVE BITT APPROVAL \_\_\_\_\_

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 17561

CUSTOMER *MURFIN DRUG* WELL *CARTER UNIT 1-20* DATE *04-16-10* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
<i>325</i>		<i>2</i>				<i>SKIDCMT EA-2</i>	<i>225</i>	<i>SK</i>			<i>12.00</i>	<i>2700</i>	<i>00</i>
<i>276</i>		<i>2</i>				<i>FLOCELL</i>	<i>56</i>	<i>LB</i>			<i>1.50</i>	<i>84</i>	<i>00</i>
<i>283</i>		<i>2</i>				<i>SAKT</i>	<i>1100</i>	<i>LB</i>			<i>15</i>	<i>165</i>	<i>00</i>
<i>284</i>		<i>2</i>				<i>CHLSEAL</i>	<i>11</i>	<i>SK</i>			<i>30.00</i>	<i>330</i>	<i>00</i>
<i>285</i>		<i>2</i>				<i>CFR-1</i>	<i>160</i>	<i>LB</i>			<i>4.00</i>	<i>640</i>	<i>00</i>
<i>581</i>		<i>2</i>				<i>SERVICE CHG CMT</i>	<i>225</i>	<i>SK</i>			<i>1.50</i>	<i>337</i>	<i>50</i>
<i>583</i>		<i>2</i>				<i>DRAYAGE</i>	<i>942.64</i>	<i>Tm</i>			<i>1.00</i>	<i>942</i>	<i>64</i>

*RECEIVED AUG 09 2010 KCC WICHITA*  
*CONFIDENTIAL*

SERVICE CHARGE CUBIC FEET  
MILEAGE CHARGE TOTAL WEIGHT LOADED MILES TON MILES

CONTINUATION TOTAL *5199.14*

JOB LC

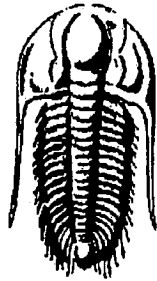
# SWIFT Services, Inc.

DATE 07/16/10 PAGE NO. 1

CUSTOMER **MUFFINWELL** WELL NO. **1-20** LEASE **CARTER UNIT** JOB TYPE **LONGSTRING** TICKET NO. **17561**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1445							ON LOCATION CMT: 225 SROEA 2 RXD 3870 SET PIPE 3861 SJ 17241 INSERT 3844 5 1/2 IS" PORT COLLAR TOP # 44, 2089 FT CENT 135, 78, 110, 111, 14, 16, 17, 18, 19, 43 3844 SCATTERS 20EA
	1530							START: C/LIFE
	1655							TAC BOTTOM - DROP BALL
	1700							BREAK CIRC & REMOVE PIPE
	1800		7.4					PLUG RH 3054, MH 15
	1805	5.0	15				250	START WCL SPACE
			12					" FLOCHECK 21 5004125
			5					" WCL SPACE
	1820		48					" EA-2 CMT <del>90056</del> 18056 DROP CO PLUG, WASH OUT PL
	1825	6.0	0				300	START DISP
			43.9				300	CMT ON BOTTOM
			75.0				500	
			80.0				650	
			850				700	
	1840	4.5	91.4				1400	LAND PLUG
	1845							RELEASE - DAY
	1915							JOB COMPLETE
								THANK YOU! DAVE, JOSH, ROB

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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling, Inc.**

250 N. Water  
STE. 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**

**Carter Unit #1-20**

Start Date: 2010.04.12 @ 09:30:00

End Date: 2010.04.12 @ 14:47:30

Job Ticket #: 38006 DST #: 1

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AUG 06 2010  
CONFIDENTIAL**

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AUG 09 2010  
KCC WICHITA**

Murfin Drilling, Inc.

Carter Unit #1-20

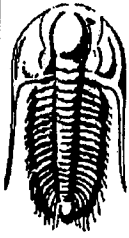
20 4S 26W Decatur KS

DST # 1

Tarkio

2010.04.12

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling, Inc.  
250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

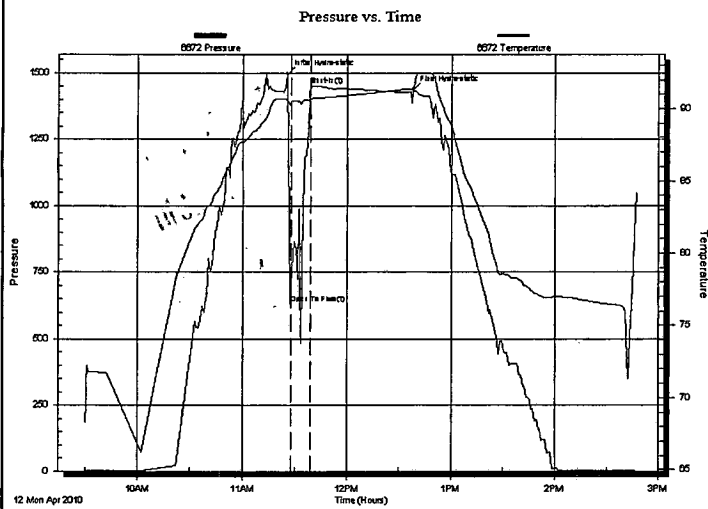
**Carter Unit #1-20**  
**20 4S 26W Decatur KS**  
Job Ticket: 38006      **DST#: 1**  
Test Start: 2010.04.12 @ 09:30:00

## GENERAL INFORMATION:

Formation: **Tarkio**  
Deviated: **No** Whipstock:                      **ft (KB)**  
Time Tool Opened: **11:27:30**  
Time Test Ended: **14:47:30**  
Interval: **3106.00 ft (KB) To 3180.00 ft (KB) (TVD)**  
Total Depth: **3180.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Chuck Kreutzer Jr.**  
Unit No: **36**  
Reference Elevations: **2480.00 ft (KB)**  
**2475.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6672**      **Inside**  
Press@RunDepth:                      **psig @ 3112.00 ft (KB)**      Capacity:                      **8000.00 psig**  
Start Date:                      **2010.04.12**      End Date:                      **2010.04.12**      Last Calib.:                      **2010.04.12**  
Start Time:                      **09:30:05**      End Time:                      **14:47:29**      Time On Btm:                      **2010.04.12 @ 11:25:30**  
Time Off Btm:                      **2010.04.12 @ 12:38:00**

TEST COMMENT: **Mis run**



## PRESSURE SUMMARY

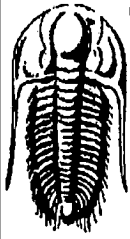
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.69	90.57	Initial Hydro-static
2	631.43	90.30	Open To Flow (1)
14	1452.33	90.70	Shut-In(1)
73	1436.76	91.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1100.00	MUD	13.79

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38006      **DST#: 1**  
Test Start: 2010.04.12 @ 09:30:00

**Tool Information**

Drill Pipe:	Length: 2910.00 ft	Diameter: 3.80 inches	Volume: 40.82 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<b>Total Volume: 41.71 bbl</b>	Tool Chased: 2.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3106.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

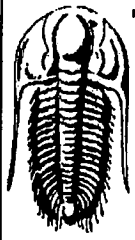
**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3088.00	
Hydraulic tool	5.00			3093.00	
Safety Joint	3.00			3096.00	
Packer	5.00			3101.00	23.00 Bottom Of Top Packer
Packer	5.00			3106.00	
Stubb	1.00			3107.00	
Perforations	4.00			3111.00	
Change Over Sub	1.00			3112.00	
Recorder	0.00	6672	Inside	3112.00	
Recorder	0.00	6752	Inside	3112.00	
Blank Spacing	64.00			3176.00	
Change Over Sub	1.00			3177.00	
Bullnose	3.00			3180.00	74.00 Bottom Packers & Anchor

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**Total Tool Length: 97.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38006      **DST#: 1**  
Test Start: 2010.04.12 @ 09:30:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1100.00	MUD	13.790

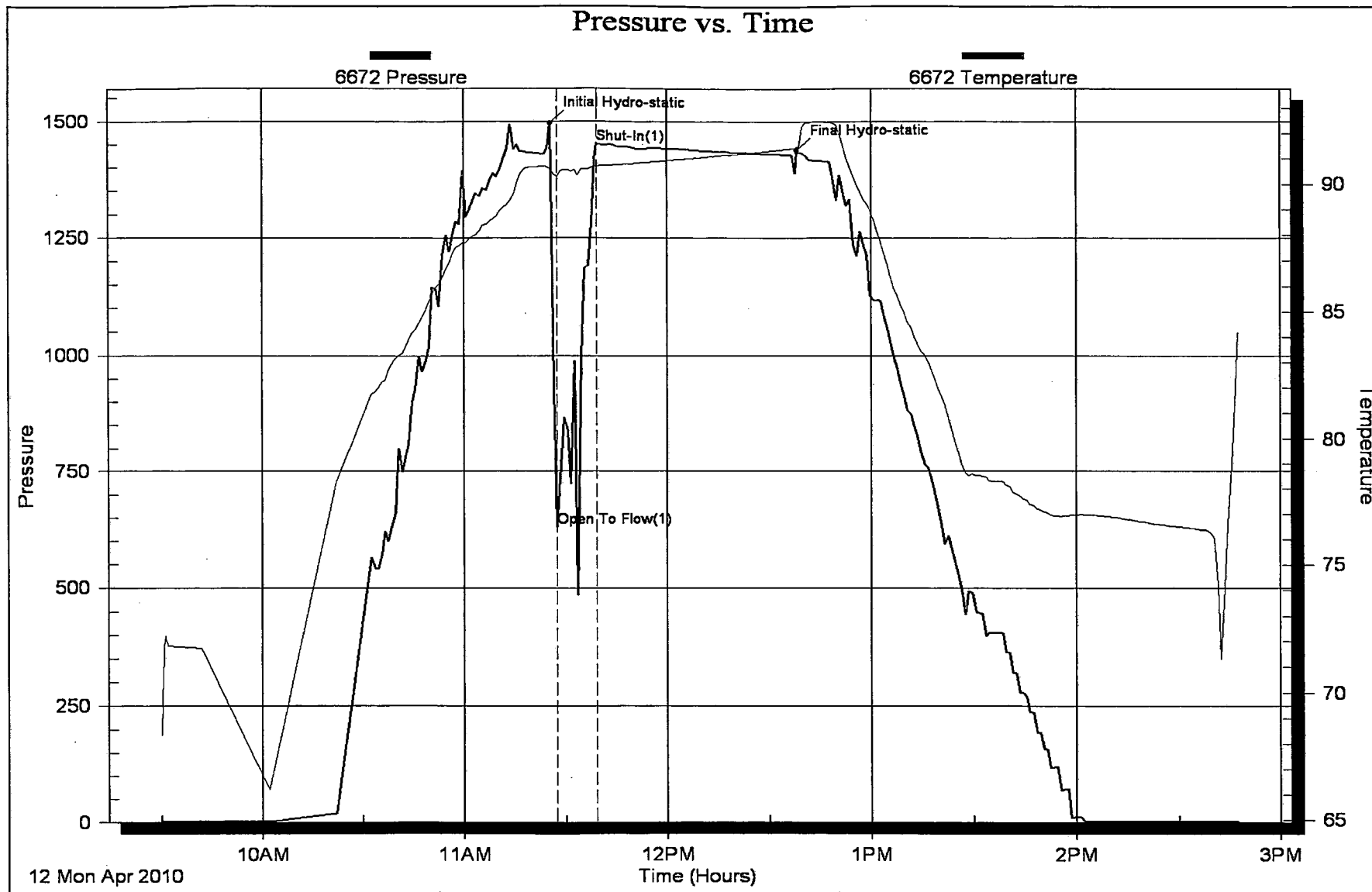
Total Length: 1100.00 ft      Total Volume: 13.790 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

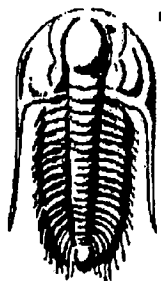
Laboratory Name:      Laboratory Location:

Recovery Comments:





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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling, Inc.**

250 N. Water  
STE. 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**

**Carter Unit #1-20**

Start Date: 2010.04.13 @ 22:20:00

End Date: 2010.04.14 @ 03:54:00

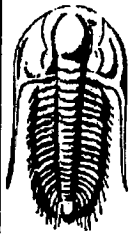
Job Ticket #: 38008                      DST #: 3

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling, Inc.

250 N. Water  
STE. 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**Carter Unit #1-20**

**20 4S 26W Decatur KS**

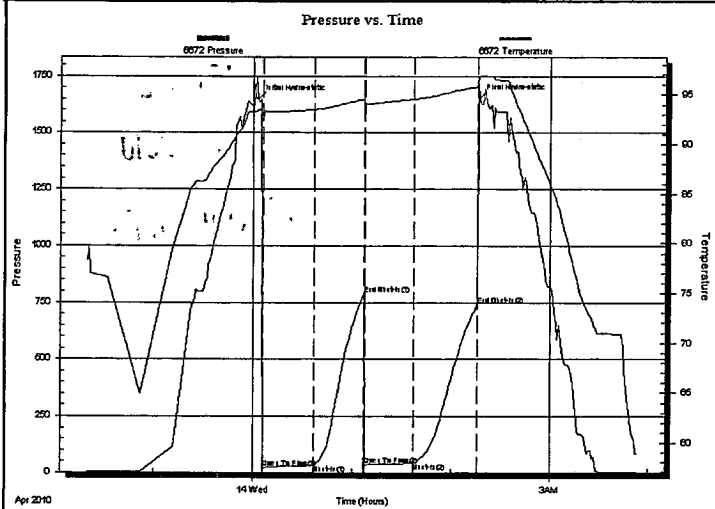
Job Ticket: 38008      **DST#: 3**  
Test Start: 2010.04.13 @ 22:20:00

## GENERAL INFORMATION:

Formation: **Toronto, LKC, A-D**  
 Deviated: No Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 00:05:30      Tester: Chuck Kreutzer Jr.  
 Time Test Ended: 03:54:00      Unit No: 36  
 Interval: **3419.00 ft (KB) To 3510.00 ft (KB) (TVD)**      Reference Elevations: 2480.00 ft (KB)  
 Total Depth: 3510.00 ft (KB) (TVD)      2475.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 5.00 ft

**Serial #: 6672      Inside**  
 Press@RunDepth: 42.11 psig @ 3425.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.04.13      End Date: 2010.04.14      Last Calib.: 2010.04.14  
 Start Time: 22:20:05      End Time: 03:53:59      Time On Btm: 2010.04.14 @ 00:02:30  
 Time Off Btm: 2010.04.14 @ 02:17:00

**TEST COMMENT:** IF: Weak surface blow Died in 5 mins.  
 IS: No blow back over 30 mins.  
 FF: No blow over 30 mins.  
 FSI: No blow back over 30 mins.



## PRESSURE SUMMARY

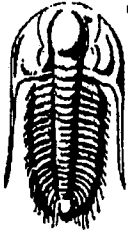
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.55	93.47	Initial Hydro-static
3	21.44	92.70	Open To Flow (1)
34	32.00	93.50	Shut-In(1)
65	788.84	94.52	End Shut-In(1)
65	35.07	94.00	Open To Flow (2)
95	42.11	94.55	Shut-In(2)
134	739.62	95.81	End Shut-In(2)
135	1652.12	96.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm-10%o90%m	0.10

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water

**20 4S 26W Decatur KS**

STE 300

Job Ticket: 38008

DST#: 3

Wichita, KS 67202

Test Start: 2010.04.13 @ 22:20:00

ATTN: Paul Gunzelman

**Tool Information**

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.17 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3419.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

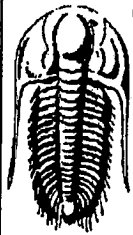
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3401.00	
Hydraulic tool	5.00			3406.00	
Safety Joint	3.00			3409.00	
Packer	5.00			3414.00	23.00 Bottom Of Top Packer
Packer	5.00			3419.00	
Stubb	1.00			3420.00	
Perforations	4.00			3424.00	
Change Over Sub	1.00			3425.00	
Recorder	0.00	6672	Inside	3425.00	
Recorder	0.00	6752	Inside	3425.00	
Blank Spacing	64.00			3489.00	
Change Over Sub	1.00			3490.00	
Perforations	17.00			3507.00	
Bullnose	3.00			3510.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38008      **DST#: 3**  
Test Start: 2010.04.13 @ 22:20:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

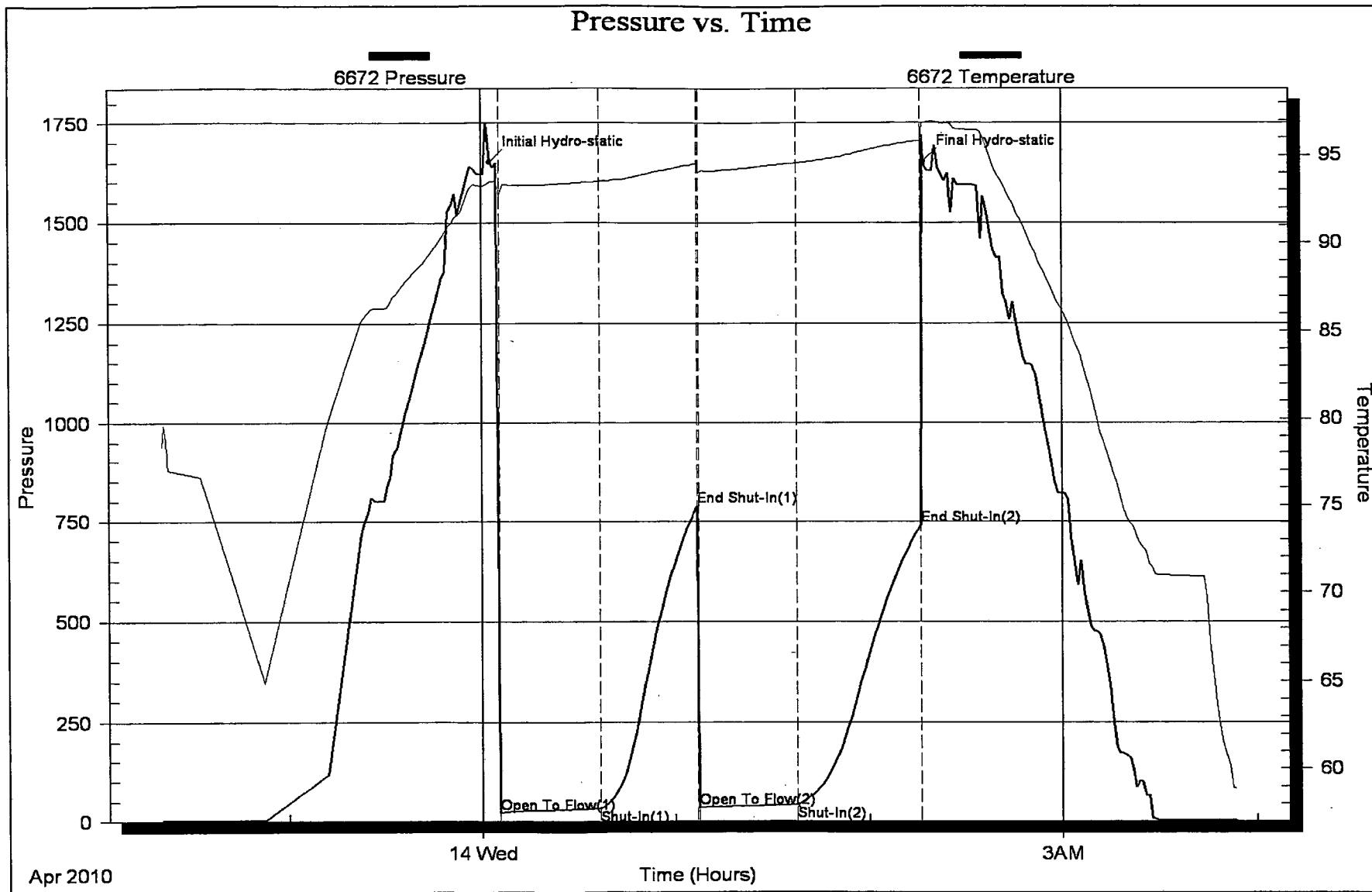
Length ft	Description	Volume bbl
20.00	ocm-10%o90%m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

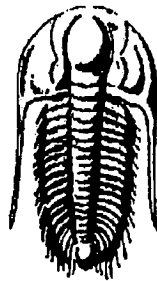
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



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**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Inc.**

250 N. Water  
STE. 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**

**Carter Unit #1-20**

Start Date: 2010.04.14 @ 13:30:00

End Date: 2010.04.14 @ 19:40:30

Job Ticket #: 38009                      DST #: 4

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KCC WICHITA

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling, Inc.  
250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

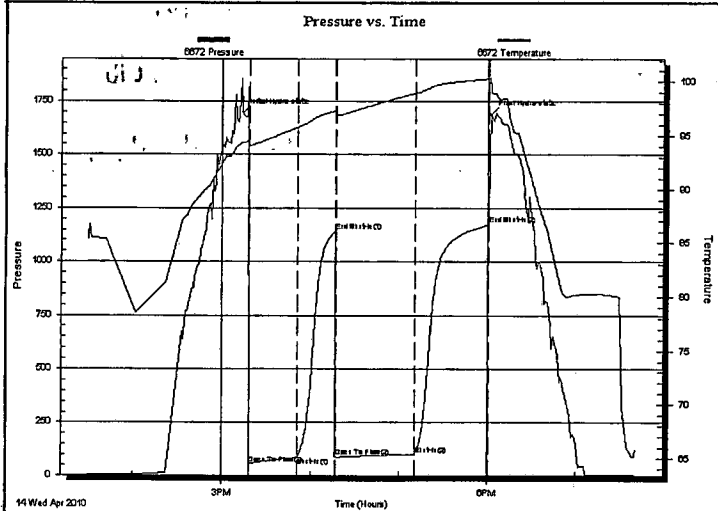
**Carter Unit #1-20**  
**20 4S 26W Decatur KS**  
Job Ticket: 38009      **DST#: 4**  
Test Start: 2010.04.14 @ 13:30:00

### GENERAL INFORMATION:

Formation: **LKC-E-H**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 15:18:00  
Time Test Ended: 19:40:30  
Interval: **3508.00 ft (KB) To 3578.00 ft (KB) (TVD)**  
Total Depth: 3578.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Chuck Kreutzer Jr.  
Unit No: 36  
Reference Elevations: 2480.00 ft (KB)  
2475.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6672**      **Inside**  
Press@RunDepth: 101.45 psig @ 3511.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.04.14      End Date: 2010.04.14      Last Calib.: 2010.04.14  
Start Time: 13:30:05      End Time: 19:40:29      Time On Btm: 2010.04.14 @ 15:13:30  
Time Off Btm: 2010.04.14 @ 18:02:00

**TEST COMMENT:** IF: Weak blow, Built to surface over 30 mins.  
IS: No blow back over 30 mins.  
FF: Weak blow, built to 4 1/2 in. over 60 mins.  
FSI: Blow back after 5 mins. built to surface over 60 mins.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.77	94.34	Initial Hydro-static
5	56.23	94.07	Open To Flow (1)
37	84.99	95.77	Shut-In(1)
63	1141.18	97.28	End Shut-In(1)
63	89.46	96.88	Open To Flow (2)
117	101.45	98.94	Shut-In(2)
168	1173.43	100.29	End Shut-In(2)
169	1688.98	99.41	Final Hydro-static

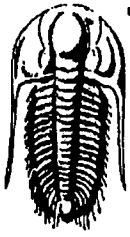
### Recovery

Length (ft)	Description	Volume (bbl)
120.00	gocm-5%g35%o60%m	0.59
60.00	gmco-5%g50%o45%m	0.30
50.00	go-20%g80%o	0.70
0.00	372-gas in pipe	0.00

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water

**20 4S 26W Decatur KS**

STE 300

Job Ticket: 38009

DST#: 4

Wichita, KS 67202

Test Start: 2010.04.14 @ 13:30:00

ATTN: Paul Gunzelman

**Tool Information**

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 47.49 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3508.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

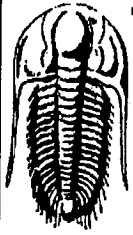
Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3490.00	
Hydraulic tool	5.00			3495.00	
Safety Joint	3.00			3498.00	
Packer	5.00			3503.00	23.00 Bottom Of Top Packer
Packer	5.00			3508.00	
Stubb	1.00			3509.00	
Perforations	1.00			3510.00	
Change Over Sub	1.00			3511.00	
Recorder	0.00	6672	Inside	3511.00	
Recorder	0.00	6752	Inside	3511.00	
Blank Spacing	64.00			3575.00	
Change Over Sub	1.00			3576.00	
Bullnose	2.00			3578.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**

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**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38009      **DST#: 4**  
Test Start: 2010.04.14 @ 13:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

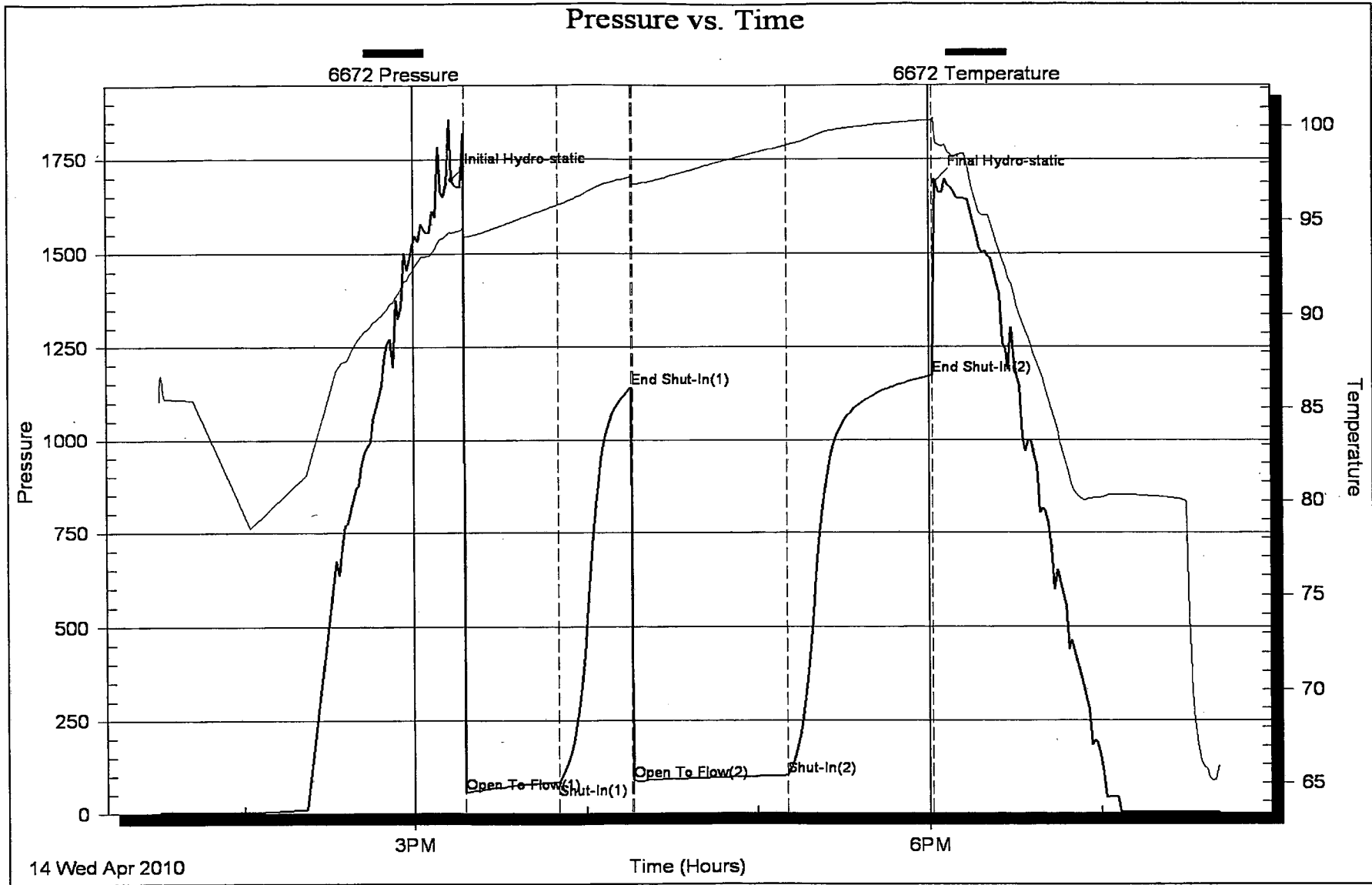
Length ft	Description	Volume bbl
120.00	gocm-5%g35%o60%m	0.590
60.00	gmco-5%g50%o45%m	0.295
50.00	go-20%g80%o	0.701
0.00	372-gas in pipe	0.000

Total Length: 230.00 ft      Total Volume: 1.586 bbl

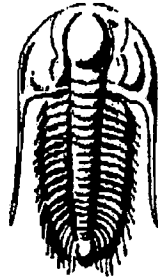
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Inc.**

250 N. Water  
STE. 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**

**Carter Unit #1-20**

Start Date: 2010.04.15 @ 05:00:00

End Date: 2010.04.15 @ 11:32:00

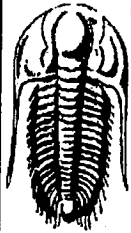
Job Ticket #: 38010                      DST #: 5

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Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling, Inc.  
250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

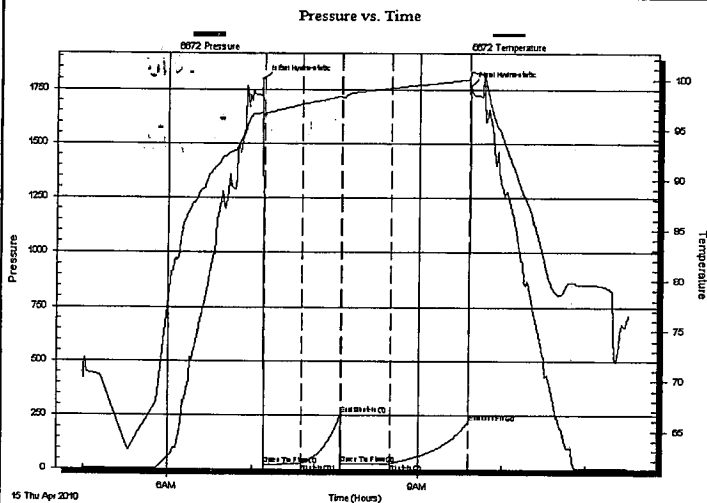
**Carter Unit #1-20**  
**20 4S 26W Decatur KS**  
Job Ticket: 38010      DST#: 5  
Test Start: 2010.04.15 @ 05:00:00

### GENERAL INFORMATION:

Formation: **LKC-J-L**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 07:08:30  
Time Test Ended: 11:32:00  
Interval: **3577.00 ft (KB) To 3642.00 ft (KB) (TVD)**  
Total Depth: **3642.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Chuck Kreutzer Jr.**  
Unit No: **36**  
Reference Elevations: **2480.00 ft (KB)**  
**2475.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6672**      **Inside**  
Press@RunDepth: **27.78 psig @ 3581.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.04.15**      End Date: **2010.04.15**      Last Calib.: **2010.04.15**  
Start Time: **05:00:05**      End Time: **11:31:59**      Time On Btm: **2010.04.15 @ 07:07:30**  
Time Off Btm: **2010.04.15 @ 09:36:29**

**TEST COMMENT:** IF: Weak surface blow died in 15 mins.  
ISI: No blow back over 30 mins.  
FF: No blow over 30 mins.  
FSI: No blow back over 60 mins.



### PRESSURE SUMMARY

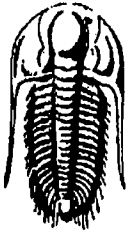
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.49	96.70	Initial Hydro-static
1	21.57	96.27	Open To Flow (1)
28	25.73	97.52	Shut-In(1)
57	254.65	98.32	End Shut-In(1)
57	27.29	98.21	Open To Flow (2)
92	27.78	99.13	Shut-In(2)
148	219.49	100.02	End Shut-In(2)
149	1765.07	100.76	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud w ith oil specs.	0.07

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38010      **DST#: 5**  
Test Start: 2010.04.15 @ 05:00:00

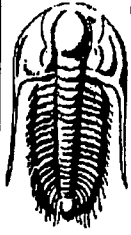
**Tool Information**

Drill Pipe:	Length: 3385.00 ft	Diameter: 3.80 inches	Volume: 47.48 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.37 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3577.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Safety Joint	3.00			3567.00	
Packer	5.00			3572.00	23.00 Bottom Of Top Packer
Packer	5.00			3577.00	
Stubb	1.00			3578.00	
Perforations	2.00			3580.00	
Change Over Sub	1.00			3581.00	
Recorder	0.00	6672	Inside	3581.00	
Recorder	0.00	6752	Inside	3581.00	
Blank Spacing	32.00			3613.00	
Change Over Sub	1.00			3614.00	
Perforations	25.00			3639.00	
Bullnose	3.00			3642.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Inc.

**Carter Unit #1-20**

250 N. Water  
STE 300  
Wichita, KS 67202  
ATTN: Paul Gunzelman

**20 4S 26W Decatur KS**  
Job Ticket: 38010      **DST#: 5**  
Test Start: 2010.04.15 @ 05:00:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

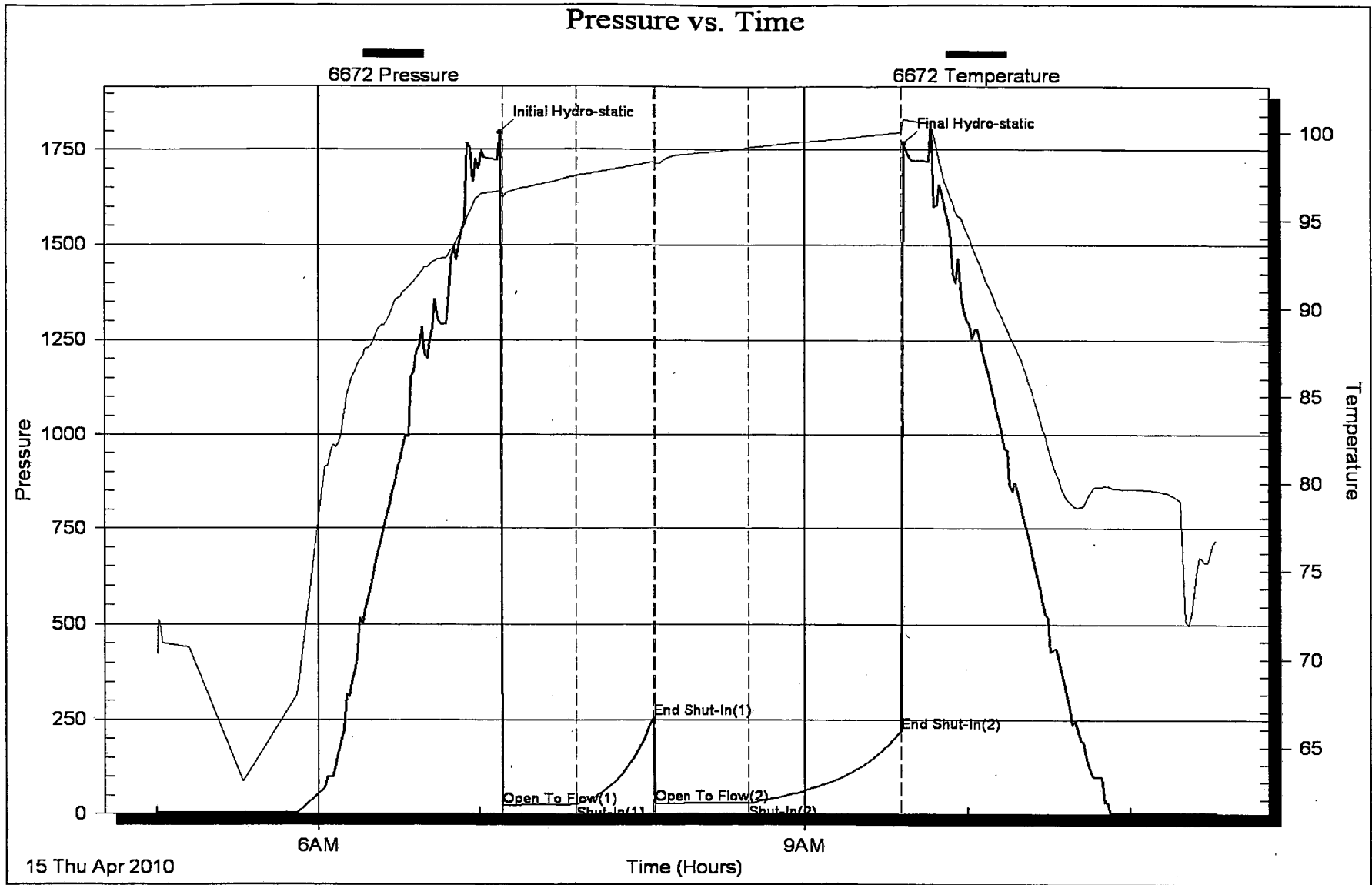
Length ft	Description	Volume bbl
15.00	mud w ith oil specs.	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



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