

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

11/8/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: Ken LeBlanc
Purchaser: MV Purchasing

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 #: _____

08/05/10	08/14/10	09/13/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 101-22253-0000
Spot Description: _____
N2 SW SW NE Sec. 03 Twp. 18 S. R. 30 East West
2293 2971 Feet from North / South Line of Section
2310 2301 Feet from East / West Line of Section
GPS-KCC-Dig
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Lane
Lease Name: Sharp Well #: 1-3
Field Name: Wildcat
Producing Formation: LKC
Elevation: Ground: 2864 Kelly Bushing: 2874
Total Depth: 4675 Plug Back Total Depth: 4641
Amount of Surface Pipe Set and Cemented at: 231 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2236 Feet
If Alternate II completion, cement circulated from: 2236
feet depth to: surface w/ 115 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: [Signature]
Title: VP Production Date: 11/05/10

KCC Office Use ONLY RECEIVED
 Letter of Confidentiality Received
Date: 11/9/10 - 11/8/12 **NOV 09 2010**
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 11-17-10
KCC WICHITA

Operator Name: Murfin Drilling Company, Inc. Lease Name: Sharp Well #: 1-3
 Sec. 03 Twp. 18 S. R. 30 East West County: Lane

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: Dual Induction, Compensated Porosity, Microresistivity	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> KCC NOV 08 2010 CONFIDENTIAL </div>
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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	231	Common	175	3% cc, 2% gel
Production		5 1/2	15.5	4671	ASC 15.5 PPG	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	4213-4216 LKC "K"		
4	4268-4276 LKC "L"	250 gal 15% MCA	
4	4295-4302 Pleasanton	250 gal 15% MCA, 750 gal 15% NEFE	
4	4488-4496 Cher Lime	250 gal 7.5% DSFE, 750 gal 15% NEFE	
4	CIPB @ 4540', 4546-4550 BP Sand		

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>4512</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	RECEIVED NOV 09 2010 KCC WICHITA
Date of First, Resumed Production, SWD or ENHR. <u>09/16/10</u>		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>18</u>	Gas Mcf	Water Bbls. <u>23</u>	Gas-Oil Ratio	Gravity <u>38</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 checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4213-4496</u>
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Sharp #1-3 2293 FNL 2310 FEL Sec. 3-T18S-R30W 2874' KB							Sharp Seed #1-10 977 FNL 1204 FEL Sec. 10-T18S-R30W 2868' KB	
Formations	Sample Tops	Datum	Ref	Log tops	Datum	Ref	Log Tops	Datum
Anhydrite							2184	+684
B/Anhydrite	2240	+634	+10	2240	+634	+10	2244	+624
Topeka	3663	-789	+9	3656	-782	+16	3666	-798
Heebner	3897	-1023	+10	3896	-1022	+11	3901	-1033
Lansing	3935	-1061	+9	3932	-1058	+12	3938	-1070
Stark	4207	-1333	+6	4207	-1333	+6	4207	-1339
Uppr. Pawnee	4391	-1417	+18	4400	-1526	+9	4403	-1535
Mississippian				4562	-1688	-10	4546	-1678
RTD	4675						4650	
LTD				4673			4653	

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PO BOX 31 Russell, KS 67665

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

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INVOICE

Invoice Number: 123912
 Invoice Date: Aug 6, 2010
 Page: 1

acct. list

PROD COPY

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

*operator pay
 moc
 /gn*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Sharp #1-3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 6, 2010	9/5/10

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	15.45	2,703.75
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
184.00	SER	Handling	2.40	441.60
55.00	SER	Mileage 184 sx @ .10 per sk per mi	18.40	1,012.00
1.00	SER	Surface	1,018.00	1,018.00
55.00	SER	Pump Truck Mileage	7.00	385.00

Account	Qty	Unit	No.	Amount	Description
03600	014	W	3721	6168.22 (2090.18)	Cement S. Co.,

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

\$ 2090.18

ONLY IF PAID ON OR BEFORE
Aug 31, 2010

Subtotal	5,971.95
Sales Tax	196.27
Total Invoice Amount	6,168.22
Payment/Credit Applied	
TOTAL	6,168.22

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(2090.18)
4078.04

ALLIED CEMENTING CO., LLC. 035108A

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

SERVICE POINT
OAKLEY

DATE <u>8-6-10</u>	SEC <u>3</u>	TWP <u>N05</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>12:00 AM</u>	JOB START <u>1:30 AM</u>	JOB FINISH <u>2:00 AM</u>
LEASE <u>SHARP</u>	WELL # <u>1-3</u>	LOCATION <u>HEARN 55-KW-5 INTD</u>	COUNTY <u>LANE</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

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CONTRACTOR MURFIN DRUG REG # 14

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 234'

CASING SIZE 8 7/8" DEPTH 234'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 14 BBLs

OWNER SAME

CEMENT AMOUNT ORDERED 175 SKS COM 38 CC 28 GEL

COMMON	<u>175 SKS</u>	@ <u>15.45</u>	<u>2703.25</u>
POZMIX		@	
GEL	<u>3 SKS</u>	@ <u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@ <u>58.30</u>	<u>349.80</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>184 SKS</u>	@ <u>2.40</u>	<u>441.60</u>
MILEAGE	<u>104 PER SKI</u>	<u>ME/C</u>	<u>1012.00</u>
TOTAL			<u>4568.25</u>

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

431 HELPER KELLY

BULK TRUCK DRIVER TERRY

386

BULK TRUCK DRIVER

REMARKS:

CEMENT JED CIRC.

3 BBLs TO NET

SERVICE

DEPTH OF JOB	<u>234'</u>	
PUMP TRUCK CHARGE		<u>1018.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>55 ME</u>	@ <u>7.00</u> <u>385.00</u>
MANIFOLD	@	
	@	
	@	
TOTAL		<u>1403.00</u>

THANK YOU

CHARGE TO: MURFIN DRUG, CO.

STREET

CITY STATE ZIP

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 Corey Unruh

SIGNATURE Corey Unruh

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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PO BOX 31 Russell, KS 67665

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

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INVOICE

Invoice Number: 124229
 Invoice Date: Aug 27, 2010
 Page: 1

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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Sharp #1-3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Aug 27, 2010	9/26/10

Quantity	Item	Description	Unit Price	Amount
115.00	MAT	AMD	23.55	2,708.25
29.00	MAT	Flo Seal	2.50	72.50
303.00	SER	Handling	2.40	727.20
55.00	SER	Mileage 303 sx @.10 per sk per mi	30.30	1,666.50
1.00	SER	Port Collar	1,185.00	1,185.00
55.00	SER	Pump Truck Mileage	7.00	385.00

New well

USED FOR COMPLETION

APPROVED [Signature]

RECEIVED
 NOV 09 2010

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF \$ 2360.55 ONLY IF PAID ON OR BEFORE Sep 21, 2010	Subtotal	6,744.45
	Sales Tax	175.19
	Total Invoice Amount	6,919.64
	Payment/Credit Applied	
	TOTAL	6,919.64

KCC WICHITA

ALLIED CEMENTING CO., LLC. 038989

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

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SERVICE POINT:

OAKLEY, KS

DATE 8-27-10	SEC. 3	TWP. 18S	RANGE 30W	CALLED OUT	ON LOCATION 7:30AM	JOB START 9:30AM	JOB FINISH 10:00AM
LEASE SHARP	WELL# 1-3	LOCATION Healy Sr - 112051A		COUNTY Lane	STATE KS		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murphy Workover OWNER _____

TYPE OF JOB Pack Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH 4669'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL P-collar DEPTH 2239'

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 8.7 BBLs

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy
1131 HELPER Kelly

BULK TRUCK
344 DRIVER Bob (GB)

BULK TRUCK
_____ DRIVER _____

CEMENT

AMOUNT ORDERED 275 SKS AMD
(290 plastic, 290 metsubroads, 290cc
490 seal) only brought 270
used 115 SKS

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

AMD 115 @ 23.55 2708.25

Flow seal 290 @ 2.50 725.00

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 303 @ 2.40 727.20

MILEAGE 110 x 5.4 mile @ 16.66 1832.60

TOTAL 5174.15

REMARKS:

Test closed tool @ 1200' ^{open tool} AEST
circulation. mix 115 SKS AMD
(290cc, 290 plastic, 290 metsubroads, 490 seal)
Displace 8 1/4 BBL Close tool
pressure to 1200' Push to 2400'
reverse the clean with 26 BBLs
Job complete @ 10:00 AM
THANKS Fuzzy & crew

1/4" flow seal SERVICE

DEPTH OF JOB 2239'

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 55 @ 7.00 385.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

RECEIVED

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TOTAL 1570.00

CHARGE TO: Murphy

STREET _____

CITY _____ STATE _____ ZIP _____

KCC WICHITA

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment



PO BOX 31 Russell, KS 67665

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

INVOICE

Invoice Number: 124036
 Invoice Date: Aug 14, 2010
 Page: 1

Bill To:

Murfin Drlg. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

KCC

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Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Sharp #1-3	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Aug 14, 2010	9/13/10

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Gel	20.80	83.20
220.00	MAT	ASC Class A	18.60	4,092.00
25.00	MAT	Salt	23.95	598.75
55.00	MAT	Flo Seal	2.50	137.50
500.00	MAT	WFR-2	1.27	635.00
5.00	MAT	Cla Pro	31.25	156.25
263.00	SER	Handling	2.40	631.20
55.00	SER	Mileage 263 sx @ .10 per sk per mi	26.30	1,446.50
1.00	SER	Production Casing	2,185.00	2,185.00
55.00	SER	Pump Truck Mileage	7.00	385.00
1.00	EQP	5.5 AFU Float Shoe	214.00	214.00
1.00	EQP	5.5 Latch Down Assembly	164.00	164.00
10.00	EQP	5.5 Centralizer	35.00	350.00
1.00	EQP	5.5 Basket	161.00	161.00
1.00	EQP	5.5 Port Collar	1,750.00	1,750.00
25.00	EQP	5.5 Rotating Scratchers	85.00	2,125.00

USED FOR

APPROVED

New
we
 11
[Signature]

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

\$ 5290.04

ONLY IF PAID ON OR BEFORE
Sep 8, 2010

Subtotal		15,114.40
Sales Tax		659.40
Total Invoice Amount		15,773.80
Payment/Credit Applied		
TOTAL	NOV 09 2010	15,773.80

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ALLIED CEMENTING CO., LLC. 038972

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

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SERVICE POINT:
DAKE, KS

DATE <u>9-14-10</u>	SEC. <u>3</u>	TWP. <u>18S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION <u>9:00pm</u>	JOB START <u>4:00am</u>	JOB FINISH <u>4:30am</u>
LEASE <u>SHARP</u>	WELL# <u>1-3</u>	LOCATION <u>Healy 55-1/2W</u>			COUNTY <u>LANE</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>SUR</u>			

CONTRACTOR MUNSH #14
 TYPE OF JOB Production
 HOLE SIZE 7 1/8 T.D.
 CASING SIZE 5" 2 15.5 DEPTH 4669'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL P-Collar DEPTH 2241'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 2129'
 CEMENT LEFT IN CSG. 2129'
 PERFS. _____
 DISPLACEMENT 110.6

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy
 # 431 HELPER Kelly
 BULK TRUCK
 # 347 DRIVER Walbur
 BULK TRUCK
 # _____ DRIVER _____

NOV 09 2010

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REMARKS:

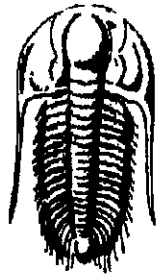
MISSISSIPPI - 305K5 RH
D

OWNER _____
 CEMENT
 AMOUNT ORDERED 220 ASC 29 seal
10% salt 1/4 seal
500 seal WFA II 6 seal Clapro
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ 4 @ 20.70 83.20
 CHLORIDE _____ @ _____
 ASC _____ 220 @ 18.60 4092.00
 _____ @ _____
salt 25 @ 23.95 598.75
 _____ @ _____
10-seal 55 @ 2.50 137.50
 _____ @ _____
WFA II 500 seal @ 1.22 635.00
 _____ @ _____
Clapro 5 seal @ 3.25 156.25
 HANDLING 263 @ 2.40 631.20
 MILEAGE 10 x 5K + mile 1446.50
 TOTAL 7780.45

under normal use and service when installed, and used, and/or services in the manner provided and intended, under no circumstances shall this warranty be limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S SOLE AND ONLY REMEDY WITH REGARD TO ANY defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:
 (A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
 (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.
 (C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will not be responsible for any damage to property or injury to persons or animals caused by the work done or merchandise used, sold, or furnished under this contract.

accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.09 @ 18:39:12

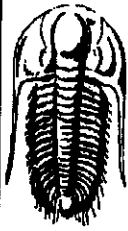
End Date: 2010.08.10 @ 00:42:36

Job Ticket #: 39116 DST #: 1

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

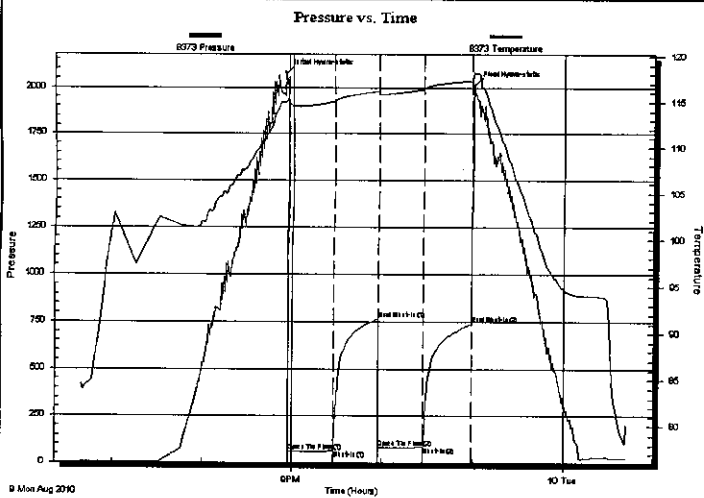
Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39116 **DST#: 1**
Test Start: 2010.08.09 @ 18:39:12

GENERAL INFORMATION:

Formation: **Lansing H-I**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 20:57:22
Time Test Ended: 00:42:36
Interval: **4104.00 ft (KB) To 4180.00 ft (KB) (TVD)**
Total Depth: **4180.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**
Reference Elevations: **2874.00 ft (KB)**
2864.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8373 **Inside**
Press@RunDepth: **85.56 psig @ 4105.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.09** End Date: **2010.08.10** Last Calib.: **2010.08.10**
Start Time: **18:39:12** End Time: **00:42:36** Time On Btm: **2010.08.09 @ 20:55:37**
Time Off Btm: **2010.08.09 @ 23:00:21**

TEST COMMENT: IF: 1/4 blow built to 1 1/4 in 30 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

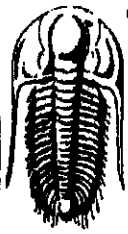
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.49	114.99	Initial Hydro-static
2	61.46	114.62	Open To Flow (1)
32	63.64	115.04	Shut-In(1)
62	763.76	116.20	End Shut-In(1)
62	81.35	115.88	Open To Flow (2)
92	85.56	116.43	Shut-In(2)
124	736.63	117.35	End Shut-In(2)
125	2012.12	118.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	ocm 2% o 98% m	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39116 DST#: 1
Test Start: 2010.08.09 @ 18:39:12

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4104.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4082.00	
Shut In Tool	5.00			4087.00	
Hydraulic tool	5.00			4092.00	
Safety Joint	3.00			4095.00	
Packer	5.00			4100.00	23.00 Bottom Of Top Packer
Packer	4.00			4104.00	
Stubb	1.00			4105.00	
Recorder	0.00	8373	Inside	4105.00	
Recorder	0.00	8289	Outside	4105.00	
Perforations	5.00			4110.00	
Change Over Sub	1.00			4111.00	
Drill Pipe	63.00			4174.00	
Change Over Sub	1.00			4175.00	
Bullnose	5.00			4180.00	76.00 Bottom Packers & Anchor

Total Tool Length: 99.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Sharp 1-3

250 N. Water ste 300
Wichita, Ks 67202

3-18-30 Lane, KS

Job Ticket: 39116

DST#: 1

ATTN: Ken Leblanc

Test Start: 2010.08.09 @ 18:39:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	ocm 2%o 98%m	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

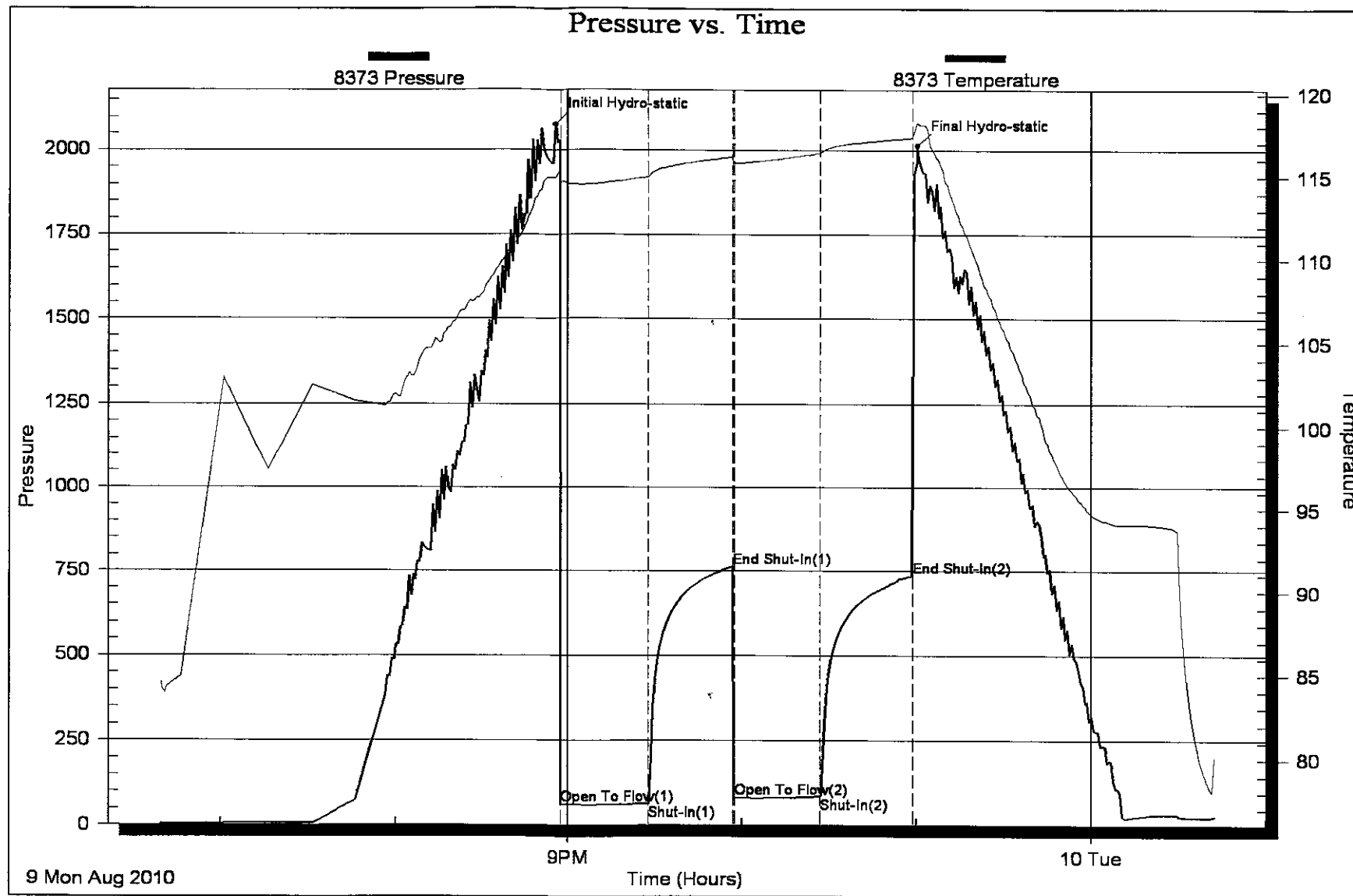
Num Gas Bombs: 0

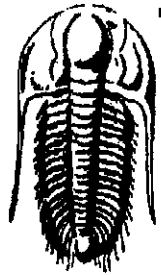
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.10 @ 10:33:53

End Date: 2010.08.10 @ 18:40:37

Job Ticket #: 39117 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

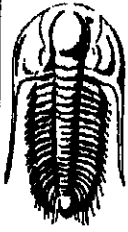
Sharp 1-3

3-18-30 Lane, KS

DST # 2

Lansing K

2010.08.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

Sharp 1-3

3-18-30 Lane, KS

Job Ticket: 39117

DST#: 2

Test Start: 2010.08.10 @ 10:33:53

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 12:22:52

Time Test Ended: 18:40:37

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **28**

Interval: **4202.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: **4240.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2874.00 ft (KB)**

2864.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 6669

Outside

Press@RunDepth: **421.65 psig @ 4203.00 ft (KB)**

Start Date: **2010.08.10** End Date: **2010.08.10**

Start Time: **10:33:53** End Time: **18:40:37**

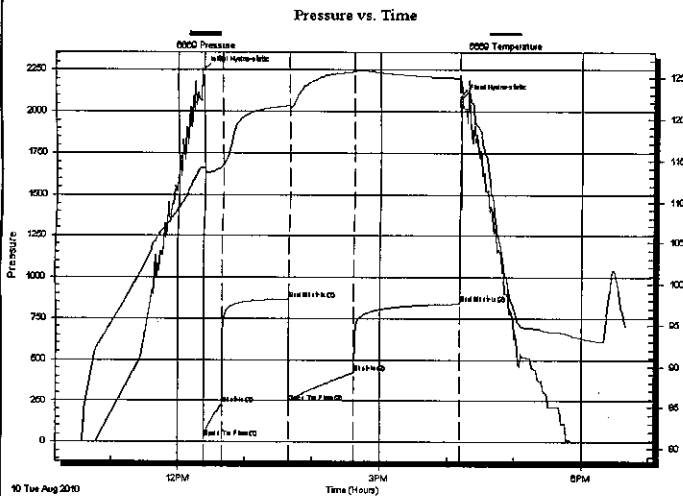
Capacity: **8000.00 psig**

Last Calib.: **2010.08.10**

Time On Btm: **2010.08.10 @ 12:21:37**

Time Off Btm: **2010.08.10 @ 16:12:07**

TEST COMMENT: IF: BOB in 5 min.
IS: Surface blow built to 1 in
FF: BOB in 9 min.
FS: Surface blow built to 7 in



PRESSURE SUMMARY

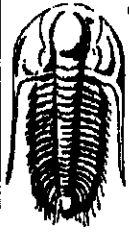
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.27	114.18	Initial Hydro-static
2	28.00	113.32	Open To Flow (1)
18	227.50	114.41	Shut-In(1)
78	866.76	121.63	End Shut-In(1)
78	241.96	121.38	Open To Flow (2)
136	421.65	125.73	Shut-In(2)
229	840.41	124.98	End Shut-In(2)
231	2083.40	123.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
279.00	mcw 95%w 5%m	1.37
279.00	ocnw 2%o 78%w 20%m	1.53
186.00	ocnw 2%o 68%w 30%m	2.61
248.00	go 20%g 80%o	3.48
0.00	279 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

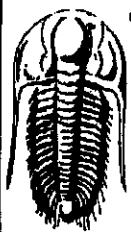
Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39117 **DST#: 2**
Test Start: 2010.08.10 @ 10:33:53

Tool Information

Drill Pipe:	Length: 3644.00 ft	Diameter: 3.80 inches	Volume: 51.12 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 53.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4202.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4180.00	
Shut In Tool	5.00			4185.00	
Hydraulic tool	5.00			4190.00	
Safety Joint	3.00			4193.00	
Packer	5.00			4198.00	23.00 Bottom Of Top Packer
Packer	4.00			4202.00	
Stubb	1.00			4203.00	
Recorder	0.00	8654	Inside	4203.00	
Recorder	0.00	6669	Outside	4203.00	
Perforations	1.00			4204.00	
Change Over Sub	1.00			4205.00	
Drill Pipe	31.00			4236.00	
Change Over Sub	1.00			4237.00	
Bullnose	3.00			4240.00	38.00 Bottom Packers & Anchor
Total Tool Length:	61.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39117 **DST#: 2**
Test Start: 2010.08.10 @ 10:33:53

Mud and Cushion Information

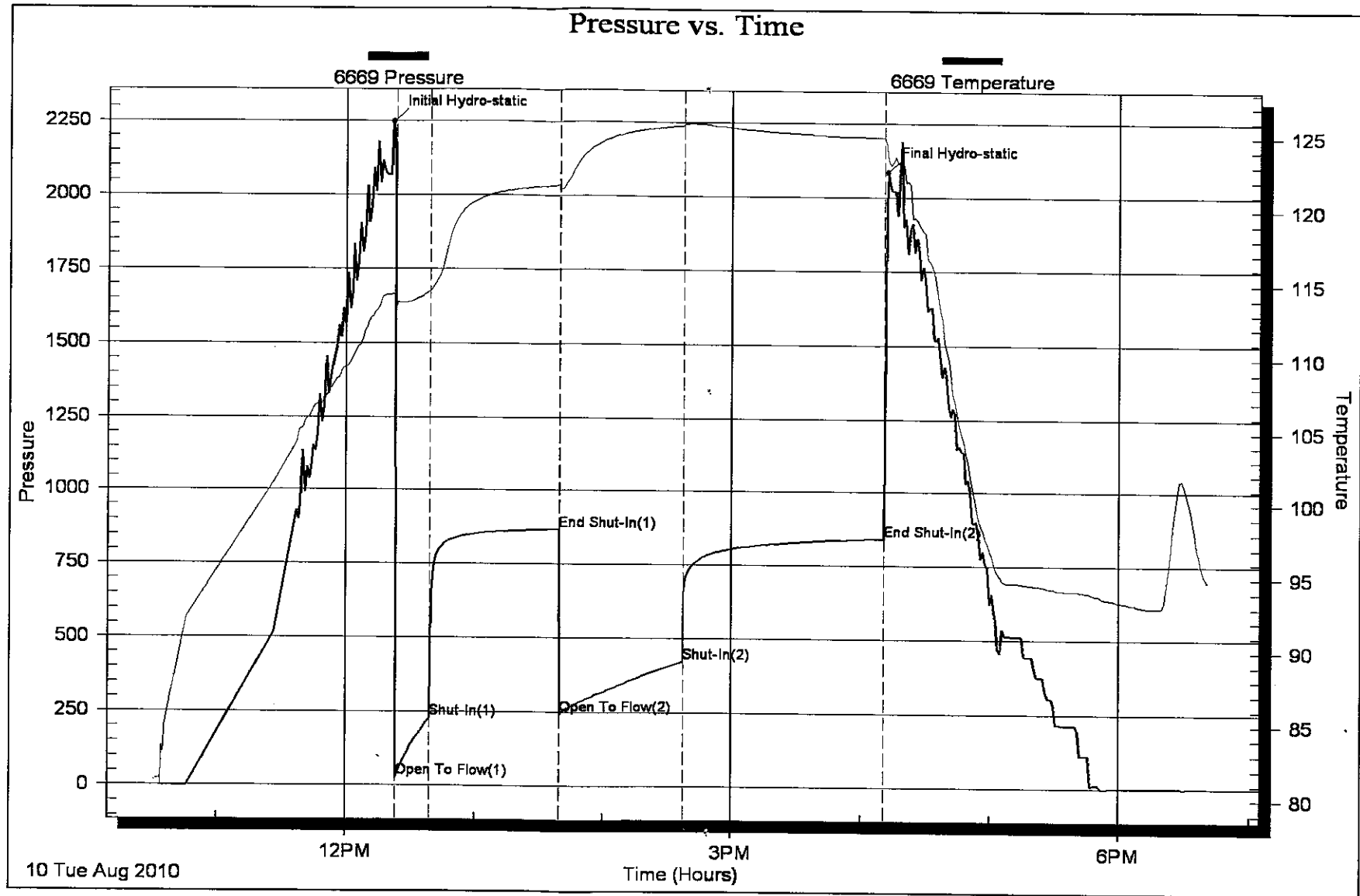
Mud Type:	Gel Chem	Cushion Type:		Oil API:	33 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	38000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.36 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

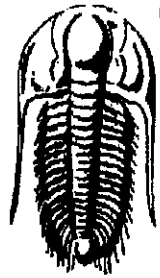
Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
279.00	mcw 95%w 5%m	1.372
279.00	ocmw 2%o 78%w 20%m	1.527
186.00	ocmw 2%o 68%w 30%m	2.609
248.00	go 20%g 80%o	3.479
0.00	279 GIP	0.000

Total Length: 992.00 ft Total Volume: 8.987 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 37@100=33
 .13@98=38000





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.11 @ 03:33:21

End Date: 2010.08.11 @ 11:39:05

Job Ticket #: 39118 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

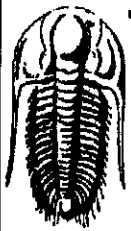
Sharp 1-3

3-18-30 Lane, KS

DST # 3

Lansing L

2010.08.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

Sharp 1-3

3-18-30 Lane, KS

Job Ticket: 39118

DST#: 3

Test Start: 2010.08.11 @ 03:33:21

GENERAL INFORMATION:

Formation: **Lansing L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:28:20

Time Test Ended: 11:39:05

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4240.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Total Depth: **4290.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2874.00 ft (KB)**

2864.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8673

Outside

Press@RunDepth: **366.40 psig @ 4241.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.08.11**

End Date:

2010.08.11

Last Calib.:

2010.08.11

Start Time: **03:33:21**

End Time:

11:39:05

Time On Btm:

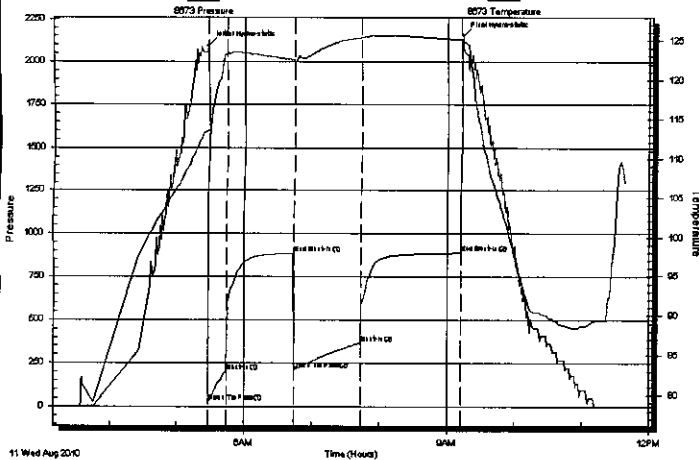
2010.08.11 @ 05:27:50

Time Off Btm:

2010.08.11 @ 09:13:35

TEST COMMENT: IF: BOB in 4 min
IS: Surface blow built to 4 in
FF: BOB in 9 min
FS: Surface blow built to 1/2 in

Pressure vs. Time



PRESSURE SUMMARY

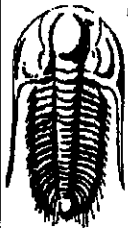
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.82	113.58	Initial Hydro-static
1	30.43	112.26	Open To Flow (1)
17	205.00	123.35	Shut-In(1)
77	885.83	122.58	End Shut-In(1)
77	213.22	122.26	Open To Flow (2)
136	366.40	125.34	Shut-In(2)
225	887.57	125.08	End Shut-In(2)
226	2153.38	125.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb1)
93.00	ocm 50%o 50%m	0.46
372.00	mcgo 30%g 65%o 5%m	1.83
527.00	go 30%g 70%o	6.70
0.00	465 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39118 **DST#: 3**
Test Start: 2010.08.11 @ 03:33:21

Tool Information

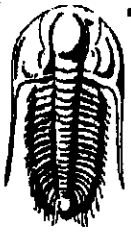
Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.65 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4240.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4218.00	
Shut In Tool	5.00			4223.00	
Hydraulic tool	5.00			4228.00	
Safety Joint	3.00			4231.00	
Packer	5.00			4236.00	23.00 Bottom Of Top Packer
Packer	4.00			4240.00	
Stubb	1.00			4241.00	
Recorder	0.00	8654	Inside	4241.00	
Recorder	0.00	8673	Outside	4241.00	
Perforations	12.00			4253.00	
Change Over Sub	1.00			4254.00	
Drill Pipe	32.00			4286.00	
Change Over Sub	1.00			4287.00	
Bullnose	3.00			4290.00	50.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Sharp 1-3

250 N. Water ste 300
Wichita, Ks 67202

3-18-30 Lane, KS

Job Ticket: 39118

DST#: 3

ATTN: Ken Leblanc

Test Start: 2010.08.11 @ 03:33:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
93.00	ocm 50%o 50%m	0.457
372.00	mcgo 30%g 65%o 5%m	1.829
527.00	go 30%g 70%o	6.700
0.00	465 GIP	0.000

Total Length: 992.00 ft

Total Volume: 8.986 bbl

Num Fluid Samples: 0

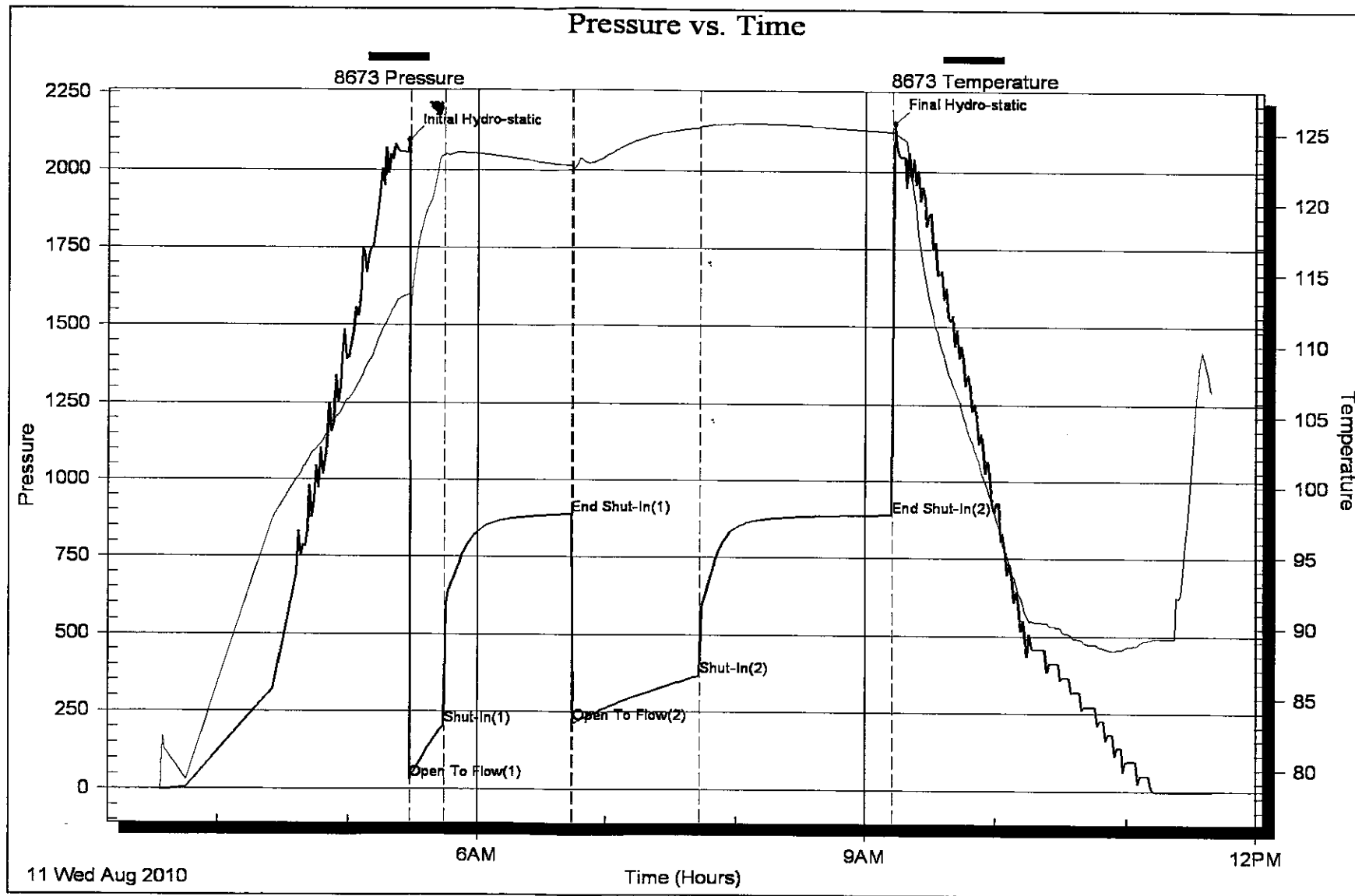
Num Gas Bombs: 0

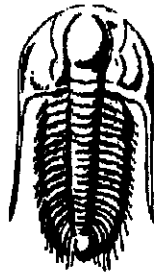
Serial #: *

Laboratory Name:

Laboratory Location:

Recovery Comments: 41@110=35





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.11 @ 18:31:47

End Date: 2010.08.12 @ 02:22:46

Job Ticket #: 39119 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

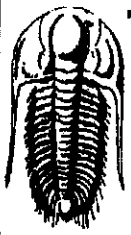
Sharp 1-3

3-18-30 Lane, KS

DST # 4

Pleasanton

2010.08.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N. Water ste 300
 Wichita, Ks 67202
 ATTN: Ken Leblanc

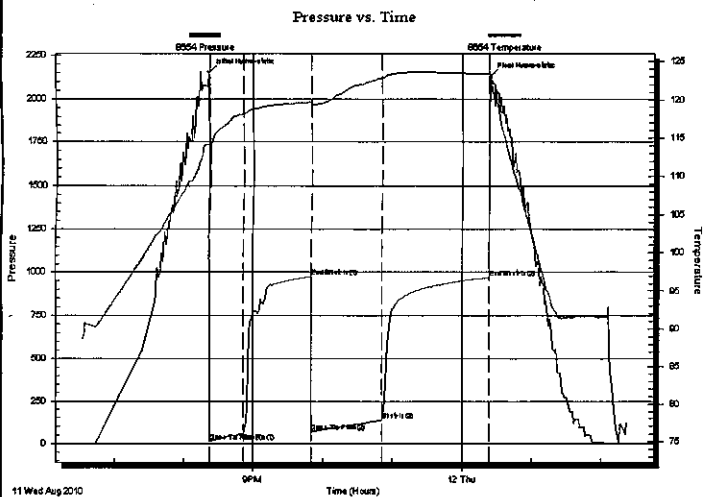
Sharp 1-3
3-18-30 Lane, KS
 Job Ticket: 39119 DST#: 4
 Test Start: 2010.08.11 @ 18:31:47

GENERAL INFORMATION:

Formation: **Pleasanton**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **20:22:16** Tester: **Brandon Turley**
 Time Test Ended: **02:22:46** Unit No: **28**
 Interval: **4288.00 ft (KB) To 4310.00 ft (KB) (TVD)** Reference Elevations: **2874.00 ft (KB)**
 Total Depth: **4310.00 ft (KB) (TVD)** **2864.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: 8654 **Inside**
 Press@RunDepth: **135.81 psig @ 4289.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.11** End Date: **2010.08.12** Last Calib.: **2010.08.12**
 Start Time: **18:31:47** End Time: **02:22:46** Time On Btm: **2010.08.11 @ 20:21:16**
 Time Off Btm: **2010.08.12 @ 00:24:31**

TEST COMMENT: IF: 1/4 blow built to 6 in
 IS: No return
 FF: BOB in 55 min
 FS: No return



PRESSURE SUMMARY

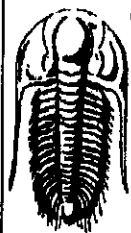
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.20	114.04	Initial Hydro-static
1	14.70	113.77	Open To Flow (1)
31	61.08	118.20	Shut-In(1)
90	976.96	119.66	End Shut-In(1)
90	71.06	119.32	Open To Flow (2)
150	135.81	122.85	Shut-In(2)
242	970.70	123.34	End Shut-In(2)
244	2127.74	123.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	gocm 20%g 20%o 60%m	0.46
93.00	mcgo 10%g 50%o 40%m	0.46
143.00	go 30%g 70%o	0.70
0.00	279 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Sharp 1-3

250 N. Water ste 300
Wichita, Ks 67202

3-18-30 Lane, KS

Job Ticket: 39119

DST#:4

ATTN: Ken Leblanc

Test Start: 2010.08.11 @ 18:31:47

Tool Information

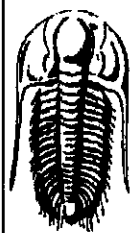
Drill Pipe:	Length: 3740.00 ft	Diameter: 3.80 inches	Volume: 52.46 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4288.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4266.00	
Shut In Tool	5.00			4271.00	
Hydraulic tool	5.00			4276.00	
Safety Joint	3.00			4279.00	
Packer	5.00			4284.00	23.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	8654	Inside	4289.00	
Recorder	0.00	6669	Outside	4289.00	
Perforations	16.00			4305.00	
Bullnose	5.00			4310.00	22.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Sharp 1-3

250 N. Water ste 300
Wichita, Ks 67202

3-18-30 Lane, KS

Job Ticket: 39119

DST#: 4

ATTN: Ken Leblanc

Test Start: 2010.08.11 @ 18:31:47

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	gocm 20%g 20%o 60%m	0.457
93.00	mcgo 10%g 50%o 40%m	0.457
143.00	go 30%g 70%o	0.703
0.00	279 GIP	0.000

Total Length: 329.00 ft Total Volume: 1.617 bbl

Num Fluid Samples: 0

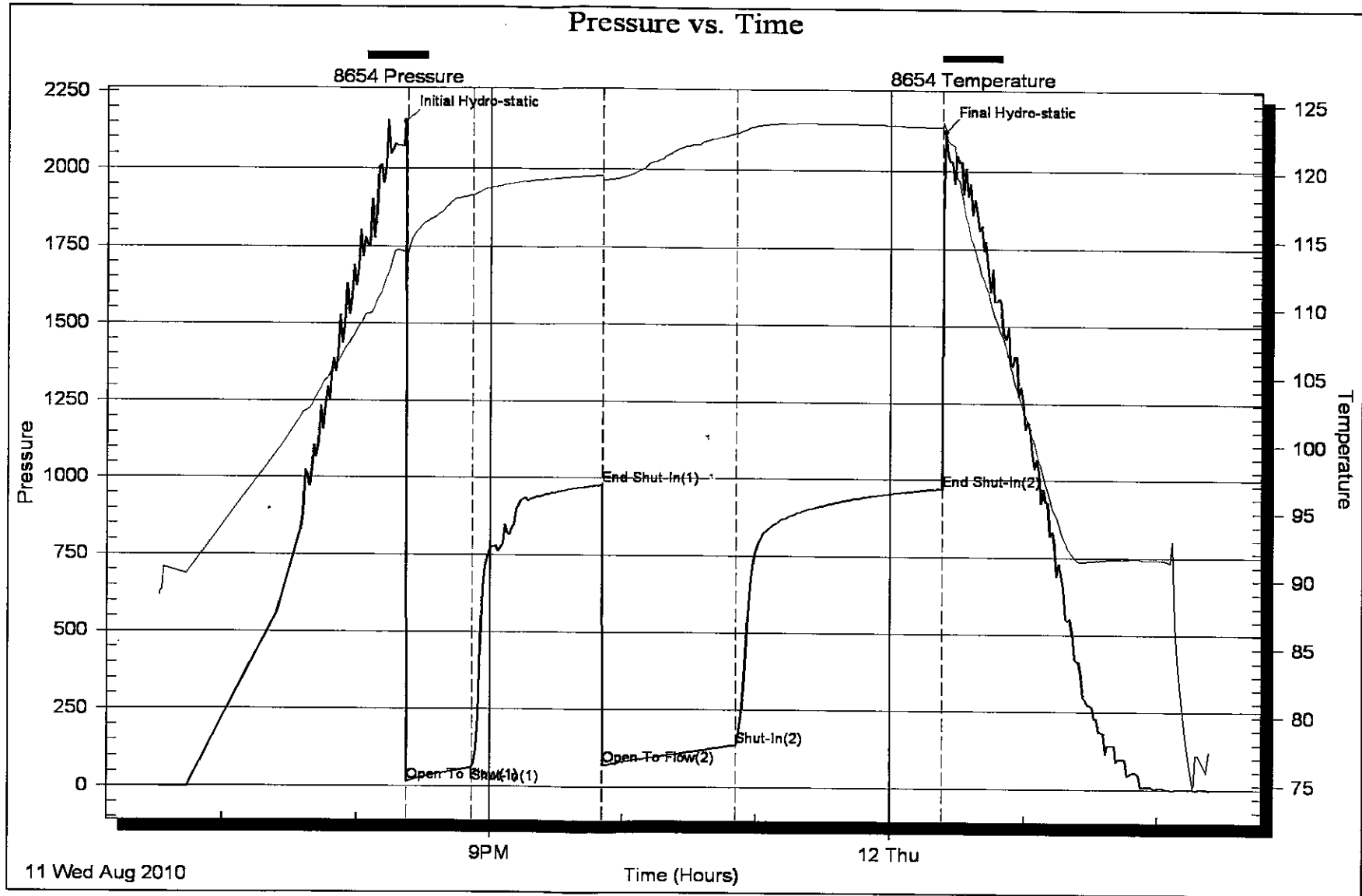
Num Gas Bombs: 0

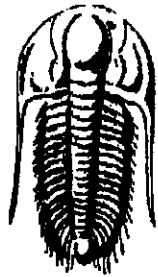
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 31@70=30





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.12 @ 17:55:07

End Date: 2010.08.13 @ 00:15:21

Job Ticket #: 39120 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

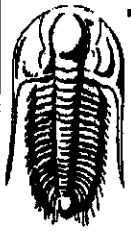
Sharp 1-3

3-18-30 Lane, KS

DST # 5

Pawnee- Ft. Scott

2010.08.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

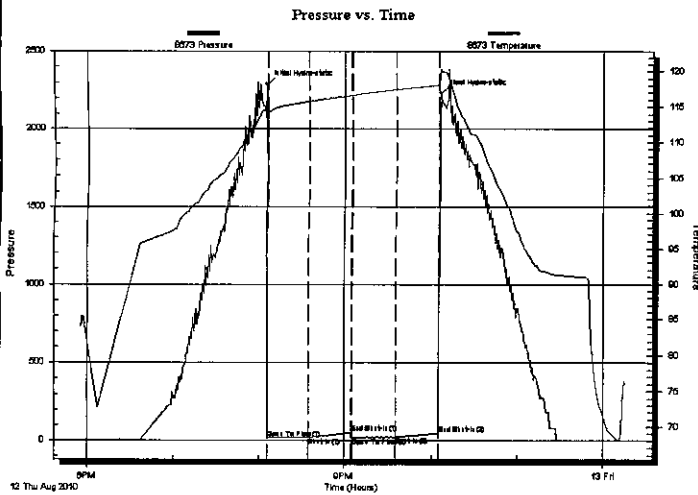
Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39120 DST#: 5
Test Start: 2010.08.12 @ 17:55:07

GENERAL INFORMATION:

Formation: **Pawnee- Ft. Scott**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 20:05:51
Time Test Ended: 00:15:21
Interval: **4385.00 ft (KB) To 4440.00 ft (KB) (TVD)**
Total Depth: **4440.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **28**
Reference Elevations: **2874.00 ft (KB)**
2864.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8673 **Outside**
Press@RunDepth: **21.92 psig @ 4386.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.08.12** End Date: **2010.08.13** Last Calib.: **2010.08.13**
Start Time: **17:55:07** End Time: **00:15:21** Time On Btm: **2010.08.12 @ 20:05:06**
Time Off Btm: **2010.08.12 @ 22:06:06**

TEST COMMENT: IF: Surface blow died in 5 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

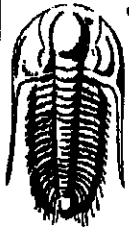
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.23	114.77	Initial Hydro-static
1	13.88	113.39	Open To Flow (1)
30	20.69	115.75	Shut-In(1)
60	50.85	116.62	End Shut-In(1)
60	20.09	116.61	Open To Flow (2)
90	21.92	117.44	Shut-In(2)
120	45.74	118.09	End Shut-In(2)
121	2231.26	120.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 5%o 95%m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39120 **DST#: 5**
Test Start: 2010.08.12 @ 17:55:07

Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.80 inches	Volume: 53.82 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4385.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Safety Joint	3.00			4376.00	
Packer	5.00			4381.00	23.00 Bottom Of Top Packer
Packer	4.00			4385.00	
Stubb	1.00			4386.00	
Recorder	0.00	8654	Inside	4386.00	
Recorder	0.00	8673	Outside	4386.00	
Perforations	15.00			4401.00	
Change Over Sub	1.00			4402.00	
Drill Pipe	32.00			4434.00	
Change Over Sub	1.00			4435.00	
Bullnose	5.00			4440.00	55.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39120 **DST#: 5**
Test Start: 2010.08.12 @ 17:55:07

Mud and Cushion Information

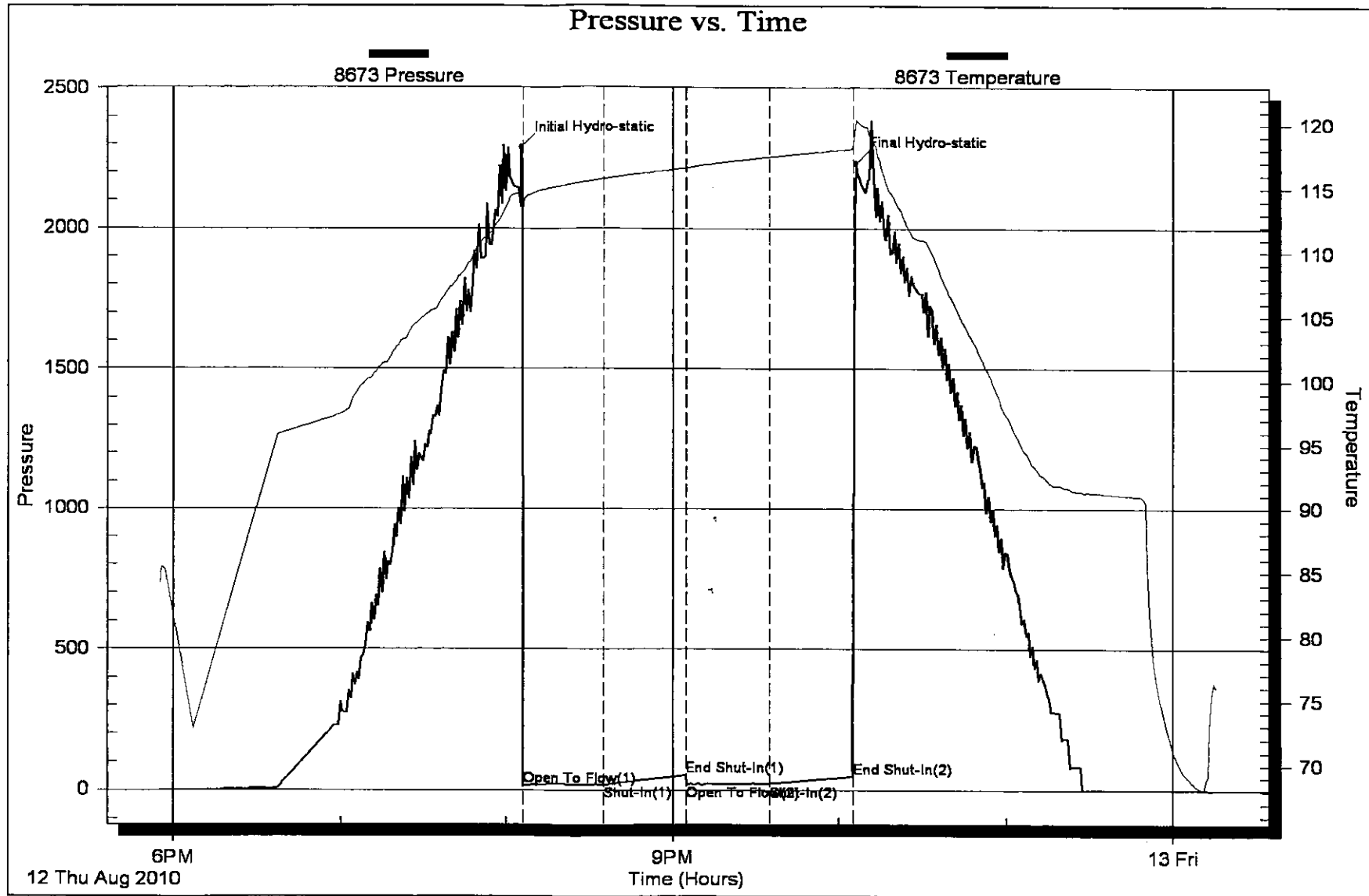
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

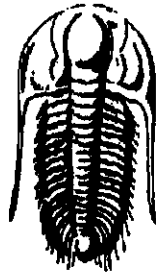
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	ocm 5%o 95%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

3-18-30 Lane, KS

Sharp 1-3

Start Date: 2010.08.13 @ 12:45:00

End Date: 2010.08.13 @ 20:09:42

Job Ticket #: 39593 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

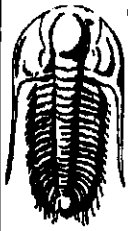
Sharp 1-3

3-18-30 Lane, KS

DST # 6

Cherokee/Johnson

2010.08.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N. Water ste 300
Wichita, Ks 67202

ATTN: Ken Leblanc

Sharp 1-3

3-18-30 Lane, KS

Job Ticket: 39593

DST#: 6

Test Start: 2010.08.13 @ 12:45:00

GENERAL INFORMATION:

Formation: **Cherokee/Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:54:48

Time Test Ended: 20:09:42

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4442.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2874.00 ft (KB)

2864.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8357

Inside

Press@RunDepth: 40.30 psig @ 4446.00 ft (KB)

Start Date: 2010.08.13 End Date: 2010.08.13

Start Time: 12:45:05 End Time: 20:09:42

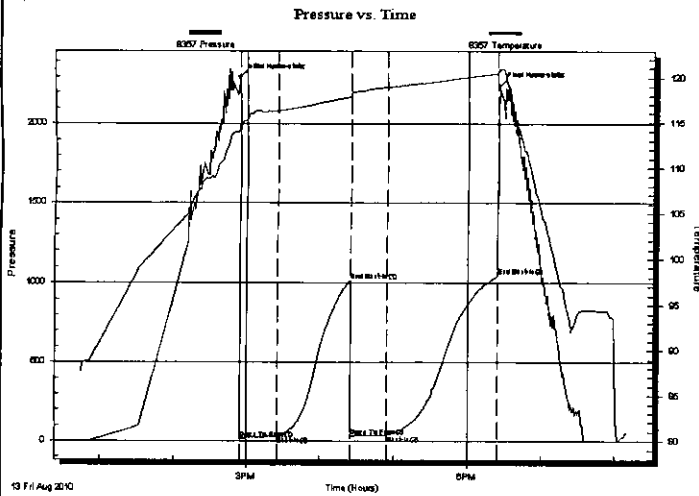
Capacity: 8000.00 psig

Last Calib.: 2010.08.13

Time On Btm: 2010.08.13 @ 14:53:24

Time Off Btm: 2010.08.13 @ 18:25:24

TEST COMMENT: IF: 1" Blow.
IS: No return.
FF: No blow.
FSI: No return.



PRESSURE SUMMARY

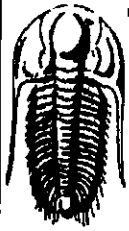
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.41	114.33	Initial Hydro-static
2	14.64	113.72	Open To Flow (1)
32	29.74	116.29	Shut-In(1)
92	1016.00	117.86	End Shut-In(1)
92	31.77	118.19	Open To Flow (2)
122	40.30	118.93	Shut-In(2)
211	1046.42	120.44	End Shut-In(2)
212	2246.12	120.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCM 5%O 95%M	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39593 **DST#: 6**
Test Start: 2010.08.13 @ 12:45:00

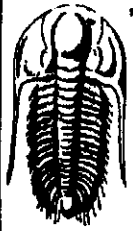
Tool Information

Drill Pipe:	Length: 3901.00 ft	Diameter: 3.80 inches	Volume: 54.72 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 541.00 ft	Diameter: 2.25 inches	Volume: 2.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.50 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4442.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	110.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4420.50	
Shut In Tool	5.00			4425.50	
Hydraulic tool	5.00			4430.50	
Safety Joint	2.50			4433.00	
Packer	5.00			4438.00	22.50 Bottom Of Top Packer
Packer	4.00			4442.00	
Stubb	1.00			4443.00	
Perforations	3.00			4446.00	
Recorder	0.00	8357	Inside	4446.00	
Recorder	0.00	6751	Outside	4446.00	
Perforations	16.00			4462.00	
Change Over Sub	1.00			4463.00	
Drill Pipe	63.00			4526.00	
Change Over Sub	1.00			4527.00	
Bullnose	3.00			4530.00	88.00 Bottom Packers & Anchor

Total Tool Length: 110.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N. Water ste 300
Wichita, Ks 67202
ATTN: Ken Leblanc

Sharp 1-3
3-18-30 Lane, KS
Job Ticket: 39593 DST#: 6
Test Start: 2010.08.13 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	OCM 5%O 95%M	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

