

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

12/17/12

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: Tom Funk
Purchaser: MV Purchasing

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DEC 17 2010
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Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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 #:

09/07/10 09/16/10 10/05/10
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 193-20778-0000
Spot Description:
SW NW NE SE Sec. 21 Twp. 10 S. R. 34 East West
2100 Feet from North / South Line of Section
1285 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Thomas
Lease Name: L.R. Frahm Well #: 3-21
Field Name: Unknown
Producing Formation: LKC K, Myrick Sta, Ft Scott & Johns Zn
Elevation: Ground: 3223 Kelly Bushing: 3234
Total Depth: 4825 Plug Back Total Depth: 4800
Amount of Surface Pipe Set and Cemented at: 258 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2735 Feet
If Alternate II completion, cement circulated from: 2735
feet depth to: 0 w/ 230 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: [Signatures]

Title: VP Production Date: 12/17/10

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 12/17/10 - 12/17/12

Confidential Release Date:

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: [Signature] Date: 1-10-11

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Operator Name: Murfin Drilling Company, Inc.

Lease Name: L.R. Frahm

Well #: 3-21

Sec. 21 Twp. 10 S. R. 34 East West

County: Thomas

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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 Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
(If no, Submit Copy)

List All E. Logs Run:

Dual Induction, Compensated Porosity,
Microresistivity

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

See Attached List

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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	24	258	Common	215	3% cc, 2% gel
Production		5 1/2	15.5	4818	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 (Amount and Kind of Material Used)	Depth
4	4403-4407 LKC K	250 gal 15% MCA, 750 gal 15% NEFE	
4	4617-4624 Myrick Sta	250 gal 15% MCA, 750 gal 15% NEFE	
4	4648-4658, 4660-4666 Ft Scott	250 gal 15% MCA	
4	4712-4722, 4727-4730 Johns Zn	750 gal 15% MCA	

TUBING RECORD: Size: 2 3/8 Set At: 4731 Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. 10/07/10
Producing Method: Flowing Pumping Gas Lift Other (Explain) _____
Estimated Production Per 24 Hours: Oil 60 Bbls. Gas Mcf Water 6.7 Bbls. Gas-Oil Ratio Gravity 29.0

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4403-4730</u>
--	--	--

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L.R. Frahm #3-21 2100 FSL 1285 FEL Sec. 21-T10S-R34W 3234' KB							L.R. Frahm #1-21 2030 FSL 2310 FEL Sec. 21-T10S-R34W 3217' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2737	+497	+4	2742	+492	-1	2724	+493
B/Anhydrite	2759	+475	+8	2769	+465	-2	2750	+467
Topeka	3890	-656	+8	3901	-667	-3	3881	-664
Heebner	4110	-876	+7	4120	-886	-3	4100	-883
Toronto	4134	-900	+7	4144	-910	-3	4124	-907
Lansing	4150	-916	+9	4164	-930	-5	4142	-925
Stark	4381	-1147	+6	4392	-1158	-5	4370	-1153
BKC	4453	-1219	+6	4464	-1230	-5	4442	-1225
Fort Scott	4624	-1390	+6	4635	-1401	-5	4613	-1396
Johnson	4703	-1469	-10	4709	-1475	-16	4676	-1459
Mississippi	4783	-1549	+9	4792	-1558	Flat	4775	-1558
RTD	4825						4830	
LTD				4835			4830	

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CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

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Yect.
Fiji
MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE

Invoice Date: 09/13/2010

Terms:

PROD COPY

operator Invoice # 236480

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

L.R. FGAHAM
24459
21-10-34
9-7-10

USED FOR _____
APPROVED _____

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	215.00	16.0000	3440.00
1102	CALCIUM CHLORIDE (50#)	606.00	.8800	533.28
1118B	PREMIUM GEL / BENTONITE	404.00	.2000	80.80

Sublet Performed	Description	Total
9999-100	CASH DISCOUNT	-1655.72

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Description	Hours	Unit Price	Total
439 TON MILEAGE DELIVERY	1.00	390.00	390.00
463 CEMENT PUMP (SURFACE)	1.00	985.00	985.00
463 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.50	90.00

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Account	Unit	Qty	Rate	Description
CB600	022	40	3944	4159.31 Cement S. Csg.

OK

Parts:	4054.08	Freight:	.00	Tax:	295.95	AR	4159.31
Labor:	.00	Misc:	.00	Total:	4159.31		
Sublt:	-1655.72	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Field Services, L.L.C.

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TICKET NUMBER 24459
LOCATION Oakley Ks
FOREMAN Pat Hershe

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-7-10	5406	L.R. Fabam 3-21	21	10 ^s	34 ^w	Thomas
CUSTOMER <u>Mur Fin Drlg Co</u>			TRUCK #			
MAILING ADDRESS			DRIVER		TRUCK #	
CITY			DRIVER		TRUCK #	
STATE			DRIVER		TRUCK #	
ZIP CODE			DRIVER		TRUCK #	
<u>Colby</u>			<u>Shannon F</u>		<u>463</u>	
<u>Ks</u>			<u>Pat</u>		<u>439</u>	

JOB TYPE Surface HOLE SIZE 2 7/8 HOLE DEPTH 260' CASING SIZE & WEIGHT 8 5/8 - 24 #
 CASING DEPTH 258' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15'
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, Rig up to casing to circ, mix 215 sks conc,
3" hole - 2" hole, Displace 15 1/2 BBL water, shut in

Cement Did Cure RECEIVED
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Thank you
Pat + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE <u>Surface</u>	985 ⁰⁰	985 ⁰⁰
5406	20	MILEAGE <u>concrete</u>	4 ⁵⁰	90 ⁰⁰
1104S	215	Class "A"	16 ⁰⁰	3440 ⁰⁰
1102	606	Calcium Chloride	88	533 ²⁸
1118 B	404	Bentonite Cell	20	80 ⁸⁰
5407B	10.11	Tot mileage Delivery	150	390 ⁰⁰
<u>236480</u>				
Subtotal				5519 ⁰⁸
Less 30% Disc				1655 ⁷²
				3863 ³⁰
			SALES TAX	295.95
			ESTIMATED TOTAL	4159.31

Revin 3737
 AUTHORIZATION Kelly Wilson TITLE Tool Pusher DATE 9-7-10



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

IT wing -

cc: Liz

cc: Leon pl.

Invoice



DATE	INVOICE #
9/24/2010	18141

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

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- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3-21	L.R. Frahm	Thomas	Company Rig	Oil	Development	Cement Port Collar	Don

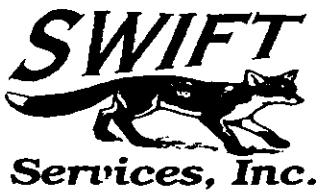
PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar - 2735 Feet	1	Job	1,100.00	1,100.00
290	D-Air	3	Gallon(s)	35.00	105.00T
279	Bentonite Gel	2	Sack(s)	25.00	50.00T
330	Swift Multi-Density Standard (MIDCON II)	250	Sacks	15.00	3,750.00T
276	Flocele	125	Lb(s)	1.50	187.50T
581D	Service Charge Cement	350	Sacks	1.50	525.00
583D	Drayage	1,434.64	Ton Miles	1.00	1,434.64
	Subtotal				7,552.14
	Sales Tax Thomas County			7.30%	298.75

USED FOR new well
APPROVED [Signature]

We Appreciate Your Business!

Total

\$7,850.89



CHARGE TO: Martin Drly Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

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TICKET
18141

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Hays, Ks WELL/PROJECT NO. 3-21 LEASE L. R. Framm COUNTY/PARISH Thomas STATE Ks. CITY _____ DATE 9-24-10 OWNER _____
 2. Ness City, Ks TICKET TYPE SERVICE CONTRACTOR Co Reg RIG NAME/NO. _____ SHIPPED VIA TR DELIVERED TO S/Olby, Ks ORDER NO. _____
 3. _____ WELL TYPE Oil WELL CATEGORY infield JOB PURPOSE Cement Post Collar 2735' WELL PERMIT NO. _____ WELL LOCATION _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	80	mi			500	400.00
576 D		1			Pump Charge - cement Post Collar	1	pc	2735	ft	110000	110000
290		1			D-Air	3	gal			3500	10500
279		1			Bentonite Gel	2	skt	800	lbs	2500	5000
276		#									
330		2			SMD - cement	250	skt			1500	375000
276		2			Flocele	125	lbs			1500	18750
581		2			Service Charge	3.50	skt	34748	lbs	150	52500
583		2			Drillage - cement Gel - 1000 lbs	1434.64	Tm	35866	lbs	100	143464

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 9-24-10 TIME SIGNED 10:30 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	AMOUNT
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?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	755219
				Thomas TAX 7.3%	29875
				TOTAL	785089

JOB LOG

SWIFT Services, Inc.

DATE 9-24-10 PAGE NO. 1

CUSTOMER *Newlin Dwyer Co* WELL NO. *3-21* LEASE *L R Framm* JOB TYPE *Commut P.C. Col* TICKET NO. *18141*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>0815</i>							<i>On location</i>
	<i>0845</i>					<i>1000</i>	<i>1000</i>	<i>Set-up Tots - P.C @ 2735'</i>
		<i>3</i>	<i>3</i>			<i>C</i>	<i>200</i>	<i>Test P.C. Closed</i>
	<i>0855</i>	<i>3</i>				<i>200</i>	<i>C</i>	<i>Open P.C - Have Blow</i>
		<i>3</i>	<i>10</i>			<i>250</i>	<i>C</i>	<i>2 sks Gal mixed - Have ^{need} Returns</i>
		<i>3</i>				<i>300</i>	<i>C</i>	<i>Start SMD cont @ 11.2 #/gal</i>
		<i>3</i>	<i>122</i>			<i>400</i>	<i>C</i>	<i>Good cont circ @ 220 sks.</i>
		<i>3</i>	<i>10</i>			<i>500</i>	<i>C</i>	<i>Test in 30 sks @ 13.5 #</i>
		<i>3</i>	<i>9</i>			<i>600</i>	<i>C</i>	<i>Fin cont - Displ 9 BBL H₂O</i>
						<i>1000</i>	<i>1000</i>	<i>Fin H₂O - T₆ - Close P.C / Test Close</i>
		<i>3</i>				<i>C</i>	<i>300</i>	<i>Rig run tests.</i>
		<i>3</i>				<i>C</i>	<i>250</i>	<i>Rev-out T₆ -</i>
		<i>3</i>	<i>30</i>			<i>C</i>	<i>200</i>	<i>2 flags</i>
								<i>Fin 30 BBL H₂O</i>
	<i>10:00</i>							<i>Job Complete</i>
	<i>10:30</i>							<i>Wash up & Pack up T₆.</i>
								<i>Thanks</i>
								<i>Lon, Doug & Rob</i>

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



Invoice

DATE	INVOICE #
9/16/2010	18108

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

• Acidizing
• Cement
USED FOR NEW WELLS
APPROVED [Signature] Tool Rental
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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3-21	L.R. Frahm	Thomas	Company Tools #22	Oil	Development	LongString	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	5.00	350.00
578D-L	Pump Charge - Long String - 4825 Feet	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	15	Each	40.00	600.00T
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	50	Lb(s)	1.50	75.00T
283	Salt	1,150	Lb(s)	0.15	172.50T
284	Calseal	11	Sack(s)	30.00	330.00T
285	CFR-1	150	Lb(s)	4.00	600.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	826	Ton Miles	1.00	826.00
	Subtotal				12,586.00
	Sales Tax Thomas County			7.30%	706.09

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We Appreciate Your Business!	Total	\$13,292.09
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CHARGE TO: Murfin Drly Co. Inc
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
18108

PAGE 1 OF 2

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 KCC WICHITA
 CONFIDENTIAL
 DEC 17 2010

1. <u>Hays, KS</u>	WELL/PROJECT NO. <u>3-21</u>	LEASE <u>LR Ftdm</u>	COUNTY/PARISH <u>Thomas</u>	STATE <u>KS</u>	CITY _____	DATE <u>9-16-10</u>	OWNER <u>Sqme</u>
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co Tools #22</u>	RIG NAME/NO. _____	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO. _____	
3. _____	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Longstring</u>	WELL PERMIT NO. _____	WELL LOCATION _____		
4. _____	REFERRAL LOCATION _____	INVOICE INSTRUCTIONS _____					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #111	70	mi			5.00	350.00
578		1			Pump Charge (Longstring)	1	ea	4825'		1400.00	1400.00
221		1			KCC	4	gal			25.00	100.00
280		1			Flocheck 21	500	gal			2.50	1250.00
290		1			D-Air	2	gal			35.00	70.00
402		1			Centralizers	15	ea	5 1/2"		55.00	825.00
403		1			Baskets	2	ea			200.00	400.00
404		1			Part Collar	1	ea			1900.00	1900.00
406		1			LD Plug & Bark/le	1	ea			225.00	225.00
407		1			Insert Float Shoe w/ Pill	1	ea			275.00	275.00
413		1			Rot wall Scratchers	15	ea			40.00	600.00
419		1			Rotating Head	1	ea			150.00	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 Buck Sabas
 DATE SIGNED 9-17-10 TIME SIGNED 0315 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
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?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 1	7545.00
page 2	5091.00
Subtotal	12586.00
Thomas TAX 7.3%	706.09
TOTAL	13,292.09

JOB LOG

SWIFT Services, Inc.

DATE 9-16-10 PAGE NO.

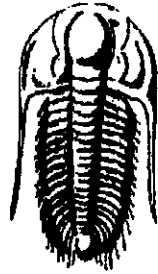
CUSTOMER *Martin D. Co. Esc* WELL NO. *3-21* LEASE *L R Frahm* JOB TYPE *Leasing* TICKET NO. *18108*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2020							on loc w/FE.
								RTD 4825'
								5 1/2" x 15.5" x 4818' x 20'
								Cent. 1-14, 49
								Basket 49, 50
								P.C. 50 @ 2731'
	2300							Start FE
	2345							jt 55 - in 15 min.
	0120							Bottom Ciro 4 1 hr
	0220	4.5	0			200		Start KCL
	0223	4.5	15/0			200		Start Flocheck-21
	0226	4.5	12/0			200		Start KCL
	0227	5.5	5			250		Start Cement
	0235		43					End Cement
								Wash Pk
								Drop L.D. Plug
	0234	6.5	0			150		Start Displacement
	0255	5	84			200		Catch Cement
	0300		114			800 1400		Land Plug
								Release Pressure
								Pressure Float held
	0310	2.5	7/5					Plug RH & MH 30/20 Ea 2

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DEC 16 2010
KCC WICHITA

KCC
DEC 17 2010
CONFIDENTIAL

Thank you
Nick, Josh F, & John



**TRILOBITE
TESTING, INC.**

**KCC
DEC 17 2010
CONFIDENTIAL**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tom Funk

21-10s-34w Thomas,Ks

L R Frahm #3-21

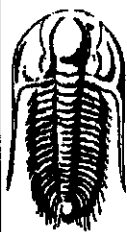
Start Date: 2010.09.11 @ 18:24:11

End Date: 2010.09.12 @ 03:05:41

Job Ticket #: 039655 DST #: 1

**RECEIVED
DEC 16 2010
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 Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

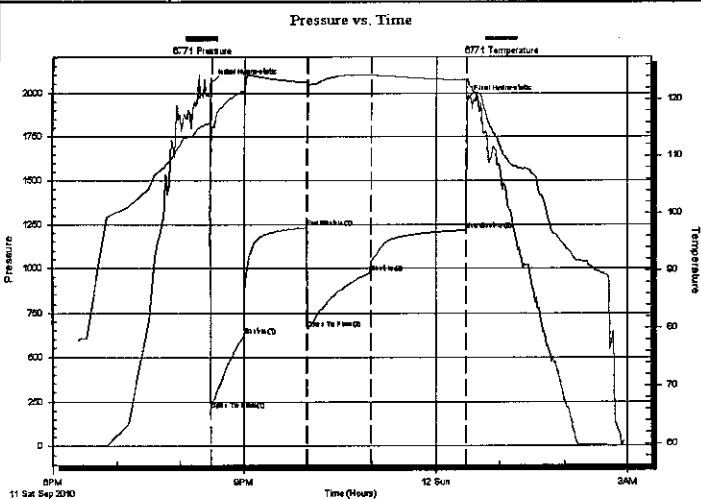
L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039655 DST#: 1
Test Start: 2010.09.11 @ 18:24:11

GENERAL INFORMATION:

Formation: **Toronto, B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:28:41
Time Test Ended: 03:05:41
Interval: **4108.00 ft (KB) To 4196.00 ft (KB) (TVD)**
Total Depth: **4196.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Reference Elevations: 3234.00 ft (KB)
3223.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6771 Inside
Press@RunDepth: 974.97 psig @ 4109.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.11 End Date: 2010.09.12 Last Calib.: 2010.09.12
Start Time: 18:24:11 End Time: 02:56:41 Time On Btm: 2010.09.11 @ 20:28:26
Time Off Btm: 2010.09.12 @ 00:29:11

TEST COMMENT: B.O.B. in 2 min.
No return
B.O.B. in 4 1/2 min
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2057.19	115.81	Initial Hydro-static
1	204.09	115.17	Open To Flow (1)
31	622.18	121.47	Shut-In(1)
91	1231.91	122.87	End Shut-In(1)
91	661.84	122.63	Open To Flow (2)
151	974.97	124.15	Shut-In(2)
240	1217.96	123.23	End Shut-In(2)
241	1964.77	123.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1680.00	water 100w	21.40
180.00	s m c w 10m 90w	2.52
120.00	m c w 30m 70w	1.68
90.00	w c m 40w 60m	1.26

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: Tom Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039655 DST#: 1
Test Start: 2010.09.11 @ 18:24:11

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 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: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 55.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4108.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	108.00 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			4089.00	
Shut In Tool	5.00			4094.00	
Hydraulic tool	5.00			4099.00	
* Packer	5.00			4104.00	* 20.00 Bottom Of Top Packer
Packer	4.00			4108.00	
Stubb	1.00			4109.00	
Recorder	0.00	6771	Inside	4109.00	
Recorder	0.00	6667	Outside	4109.00	
Perforations	16.00			4125.00	
Change Over Sub	1.00			4126.00	
Drill Pipe	64.00			4190.00	
Change Over Sub	1.00			4191.00	
Bullnose	5.00			4196.00	88.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

L R Frahm #3-21

250 N Water Ste 300
Wichita, KS 67202

21-10s-34w Thomas, Ks

Job Ticket: 039655

DST#: 1

ATTN: Tom Funk

Test Start: 2010.09.11 @ 18:24:11

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil APt:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26500 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.92 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

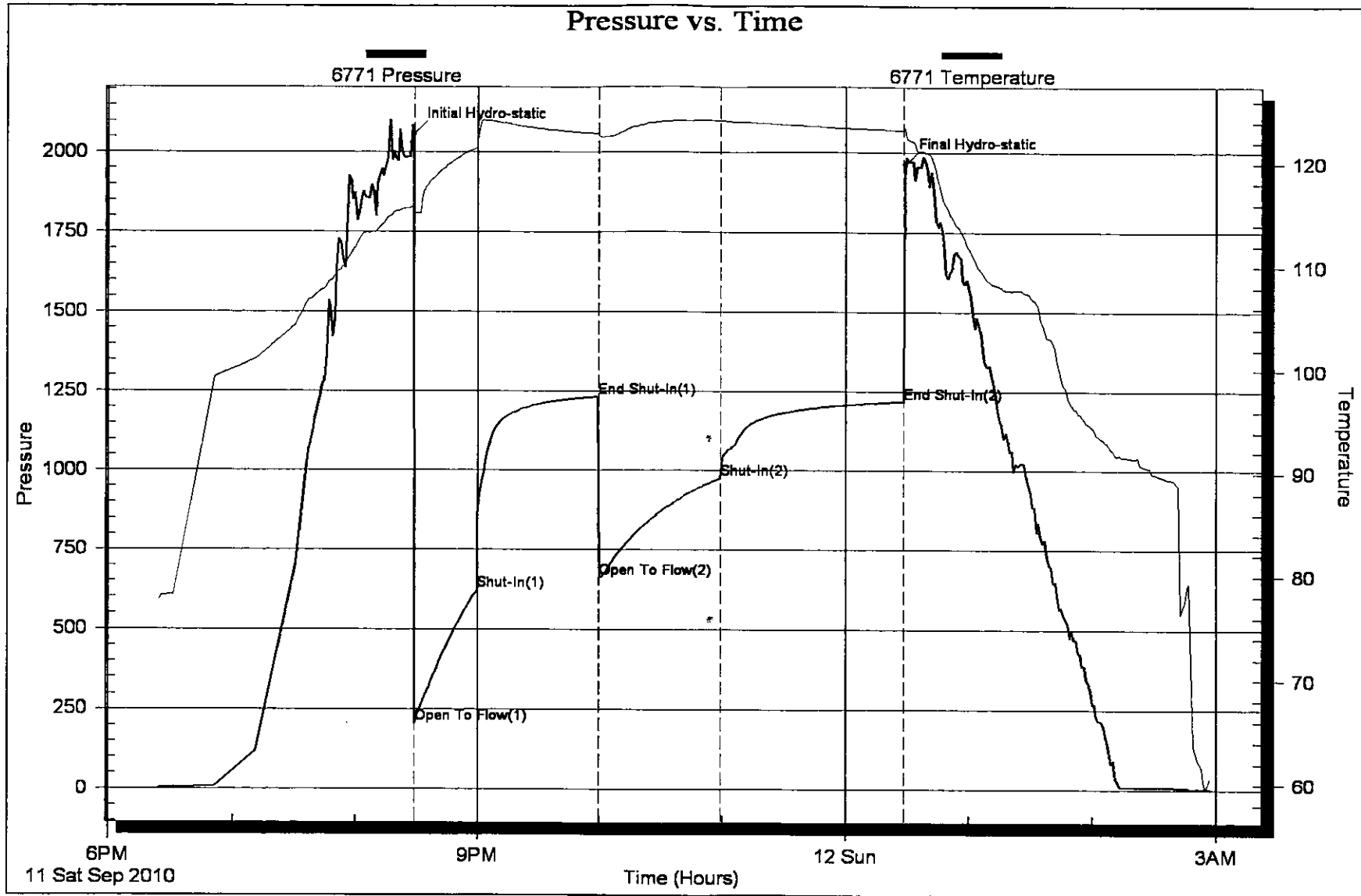
Length ft	Description	Volume bbl
1680.00	water 100w	21.398
180.00	s m c w 10m 90w	2.525
120.00	m c w 30m 70w	1.683
90.00	w c m 40w 60m	1.262

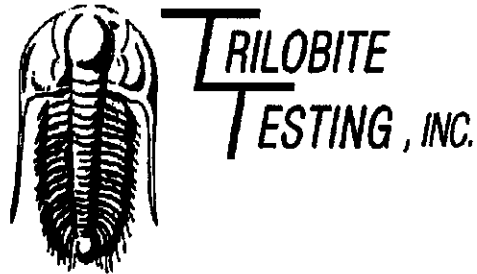
Total Length: 2070.00 ft Total Volume: 26.868 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .302 @ 60*f = 26,500 chlor





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tom Funk

21-10s-34w Thomas,Ks

L R Frahm #3-21

Start Date: 2010.09.12 @ 20:46:13

End Date: 2010.09.13 @ 05:05:13

Job Ticket #: 039656 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

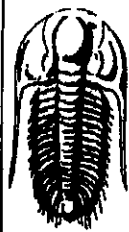
L R Frahm #3-21

21-10s-34w Thomas,Ks

DST # 2

H,I,J

2010.09.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

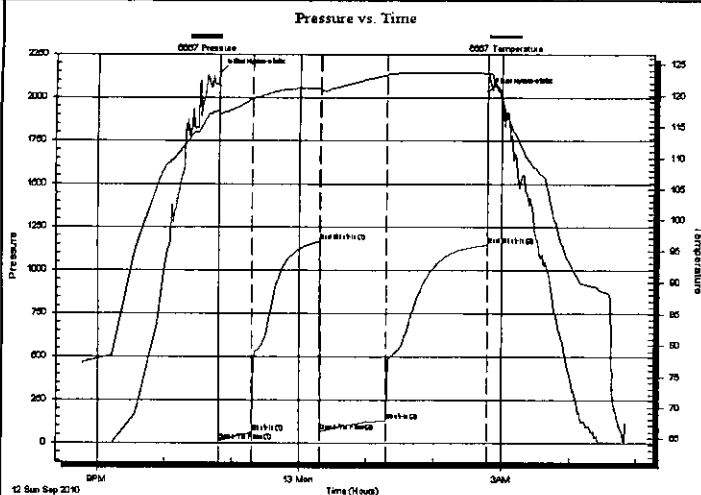
L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039656 **DST#: 2**
Test Start: 2010.09.12 @ 20:46:13

GENERAL INFORMATION:

Formation: H,I,J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:48:13
Time Test Ended: 05:05:13
Interval: 4290.00 ft (KB) To 4377.00 ft (KB) (TVD)
Total Depth: 4377.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Reference Elevations: 3234.00 ft (KB)
3223.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6667 Outside
Press@RunDepth: 130.12 psig @ 4291.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.12 End Date: 2010.09.13 Last Calib.: 2010.09.13
Start Time: 20:46:13 End Time: 04:52:13 Time On Btm: 2010.09.12 @ 22:47:58
Time Off Btm: 2010.09.13 @ 02:47:13

TEST COMMENT: 2 1/2" in blow
No return
1 3/4" in blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.04	117.55	Initial Hydro-static
1	14.21	117.07	Open To Flow (1)
30	63.91	119.43	Shut-In(1)
90	1163.03	121.25	End Shut-In(1)
91	68.90	120.81	Open To Flow (2)
150	130.12	123.26	Shut-In(2)
239	1143.10	123.58	End Shut-In(2)
240	2036.26	123.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water 100w	0.59
130.00	m c w 30m 70w	0.75

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: Tom Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039656 **DST#: 2**
Test Start: 2010.09.12 @ 20:46:13

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 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: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 58.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4290.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4271.00	
Shut In Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Packer	5.00			4286.00	20.00 Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6771	Inside	4291.00	
Recorder	0.00	6667	Outside	4291.00	
Perforations	15.00			4306.00	
Change Over Sub	1.00			4307.00	
Drill Pipe	64.00			4371.00	
Change Over Sub	1.00			4372.00	
Bullnose	5.00			4377.00	87.00 Bottom Packers & Anchor

Total Tool Length: 107.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039656 **DST#: 2**
Test Start: 2010.09.12 @ 20:46:13

Mud and Cushion Information

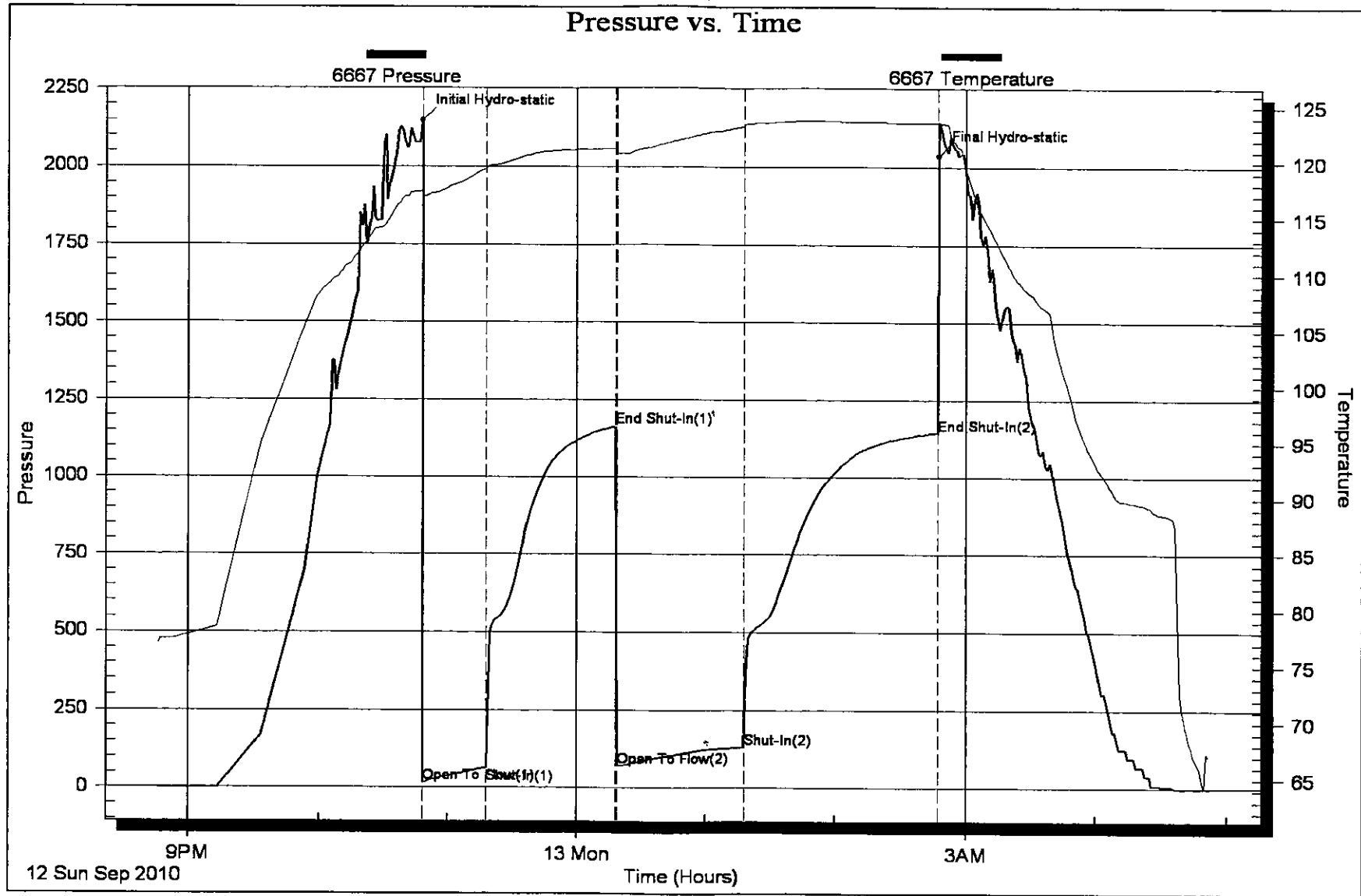
Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	22000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbf		
Water Loss:	8.34 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8100.00 ppm				
Filter Cake:	2.00 inches				

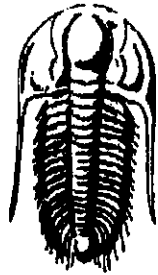
Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	water 100w	0.590
130.00	m c w 30m 70w	0.749

Total Length: 250.00 ft Total Volume: 1.339 bbf
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: fw .312 @66*f = 22,000 chlor





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tom Funk

21-10s-34w Thomas, Ks

L R Frahm #3-21

Start Date: 2010.09.13 @ 11:51:05

End Date: 2010.09.13 @ 19:58:50

Job Ticket #: 039657 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

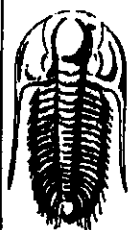
L R Frahm #3-21

21-10s-34w Thomas, Ks

DST # 3

K

2010.09.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

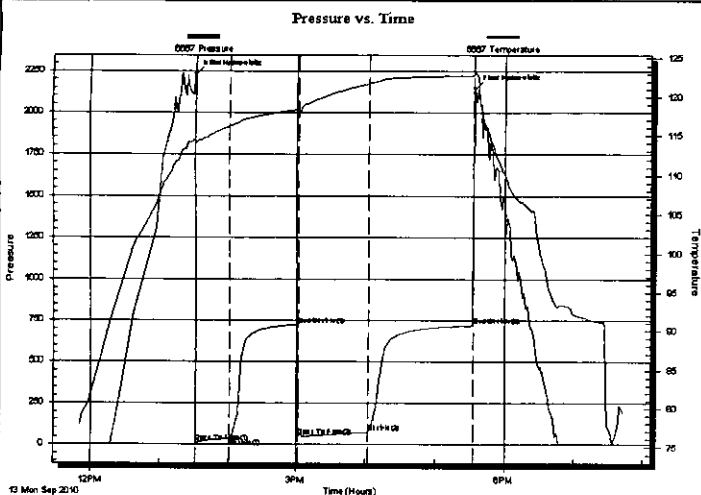
L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039657 **DST#: 3**
Test Start: 2010.09.13 @ 11:51:05

GENERAL INFORMATION:

Formation: **K**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 13:31:20
Time Test Ended: 19:58:50
Interval: **4381.00 ft (KB) To 4405.00 ft (KB) (TVD)**
Total Depth: **4405.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**
Reference Elevations: **3234.00 ft (KB)**
3223.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 6667 **Outside**
Press@RunDepth: **73.06 psig @ 4382.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.09.13** End Date: **2010.09.13** Last Calib.: **2010.09.13**
Start Time: **11:51:05** End Time: **19:43:50** Time On Btm: **2010.09.13 @ 13:31:05**
Time Off Btm: **2010.09.13 @ 17:33:50**

TEST COMMENT: 1 1/2" in blow
No return
2" in blow
No return



PRESSURE SUMMARY

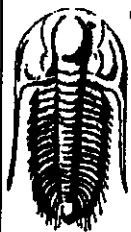
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.01	114.64	Initial Hydro-static
1	12.00	114.00	Open To Flow (1)
31	37.78	116.28	Shut-In(1)
90	723.79	118.40	End Shut-In(1)
91	48.47	118.03	Open To Flow (2)
151	73.06	121.74	Shut-In(2)
242	718.21	122.77	End Shut-In(2)
243	2145.20	123.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	c o 100o	0.30
90.00	o c m 40o 60m	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

L R Frahm #3-21

250 N Water Ste 300
Wichita, KS 67202

21-10s-34w Thomas, Ks

Job Ticket: 039657

DST#: 3

ATTN: Tom Funk

Test Start: 2010.09.13 @ 11:51:05

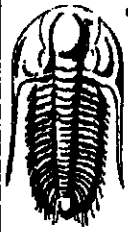
Tool Information

Drill Pipe:	Length: 4127.00 ft	Diameter: 3.80 inches	Volume: 57.89 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: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4381.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4362.00	
Shut In Tool	5.00			4367.00	
Hydraulic tool	5.00			4372.00	
* Packer	5.00			4377.00	* 20.00 Bottom Of Top Packer
Packer	4.00			4381.00	
Stubb	1.00			4382.00	
Recorder	0.00	6771	Inside	4382.00	
Recorder	0.00	6667	Outside	4382.00	
Perforations	18.00			4400.00	
Bullnose	5.00			4405.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

L R Frahm #3-21

250 N Water Ste 300
Wichita, KS 67202

21-10s-34w Thomas, Ks

Job Ticket: 039657

DST#: 3

ATTN: Tom Funk

Test Start: 2010.09.13 @ 11:51:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	c o 100o	0.295
90.00	o c m 40o 60m	0.443

Total Length: 150.00 ft

Total Volume: 0.738 bbf

Num Fluid Samples: 0

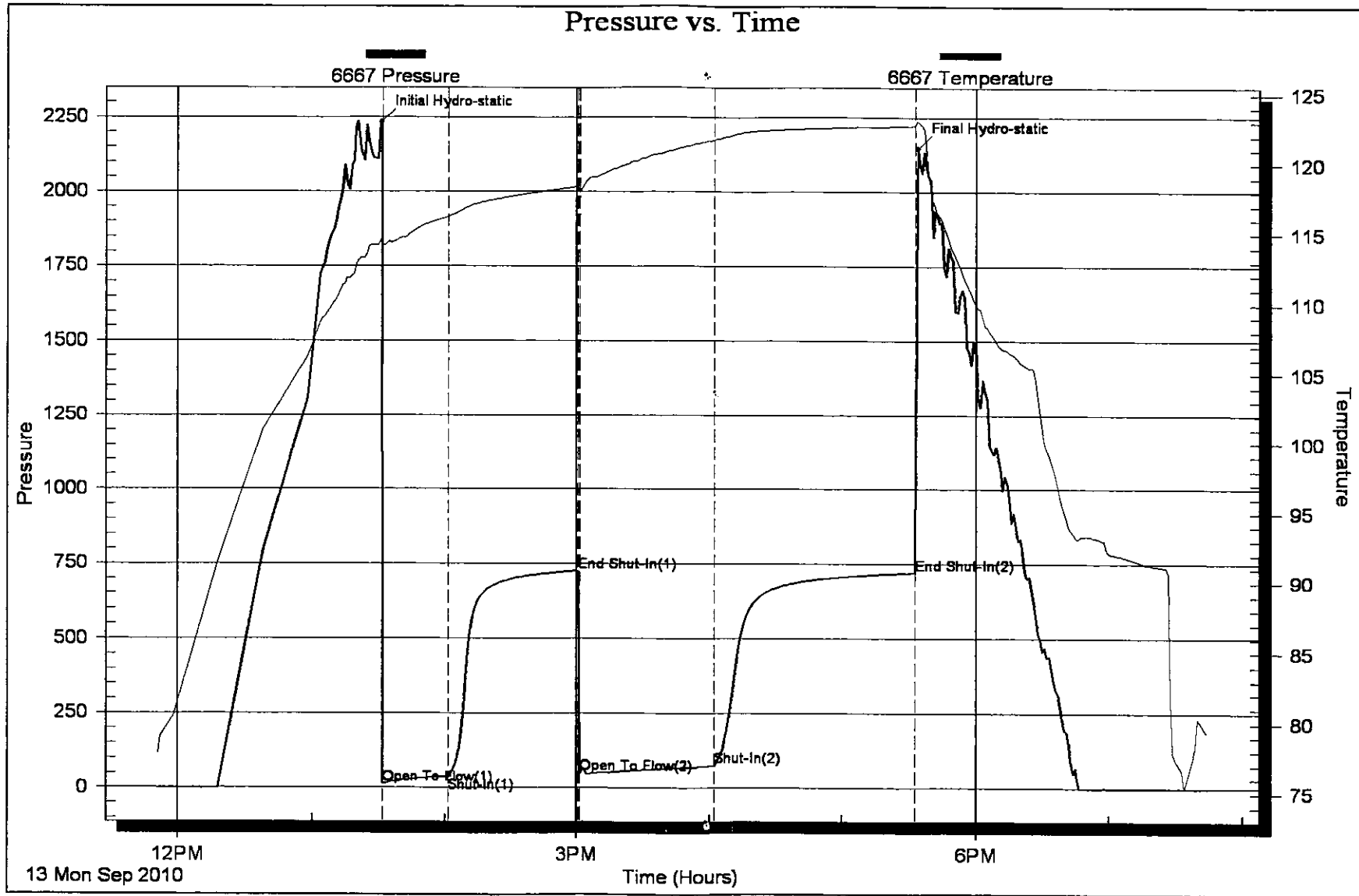
Num Gas Bombs: 0

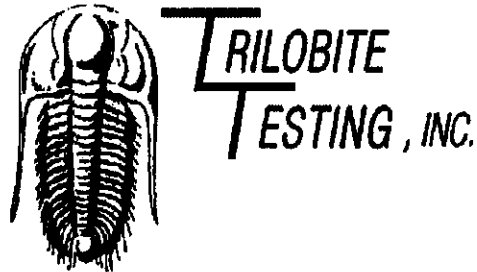
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tom Funk

21-10s-34w Thomas, Ks

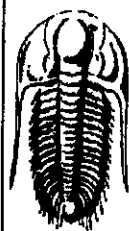
L R Frahm #3-21

Start Date: 2010.09.14 @ 18:02:44

End Date: 2010.09.15 @ 02:58:44

Job Ticket #: 039658 DST #: 4

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 Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Torn Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039658 DST#: 4
Test Start: 2010.09.14 @ 18:02:44

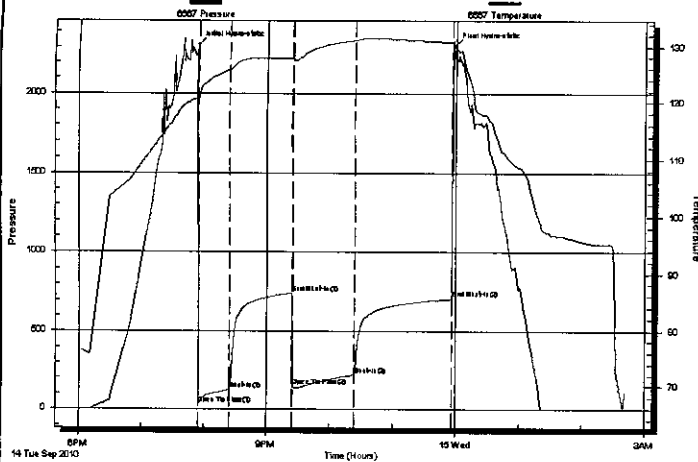
GENERAL INFORMATION:

Formation: **Myrick Station, Ft S**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 19:54:14
Time Test Ended: 02:58:44
Interval: **4591.00 ft (KB) To 4665.00 ft (KB) (TVD)**
Total Depth: **4665.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**
Reference Elevations: **3234.00 ft (KB)**
3223.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 6667 Outside
Press@RunDepth: **221.66 psig @ 4592.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.09.14** End Date: **2010.09.15** Last Calib.: **2010.09.15**
Start Time: **18:02:44** End Time: **02:41:44** Time On Btm: **2010.09.14 @ 19:53:44**
Time Off Btm: **2010.09.14 @ 23:57:29**

TEST COMMENT: B.O.B. in 6 min
3" in return blow
B.O.B. in 8 min
B.O.B. return in 25 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2310.80	121.09	Initial Hydro-static
1	32.55	120.58	Open To Flow (1)
31	123.68	125.77	Shut-In(1)
91	742.13	127.84	End Shut-In(1)
91	145.42	127.58	Open To Flow (2)
151	221.66	131.09	Shut-In(2)
243	707.26	130.75	End Shut-In(2)
244	2303.66	130.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	g m c o 30g 30m 40o	3.05
226.00	c g o 30g 70o	3.17
0.00	1260' 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 Co

L R Frahm #3-21

250 N Water Ste 300
Wichita, KS 67202

21-10s-34w Thomas, Ks

Job Ticket: 039658

DST#: 4

ATTN: Tom Funk

Test Start: 2010.09.14 @ 18:02:44

Tool Information

Drill Pipe:	Length: 4346.00 ft	Diameter: 3.80 inches	Volume: 60.96 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: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 62.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4591.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4572.00	
Shut In Tool	5.00			4577.00	
Hydraulic tool	5.00			4582.00	
Packer	5.00			4587.00	20.00 Bottom Of Top Packer
Packer	4.00			4591.00	
Stubb	1.00			4592.00	
Recorder	0.00	6771	inside	4592.00	
Recorder	0.00	6667	Outside	4592.00	
Perforations	34.00			4626.00	
Change Over Sub	1.00			4627.00	
Drill Pipe	32.00			4659.00	
Change Over Sub	1.00			4660.00	
Bullnose	5.00			4665.00	74.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039658 **DST#: 4**
Test Start: 2010.09.14 @ 18:02:44

Mud and Cushion Information

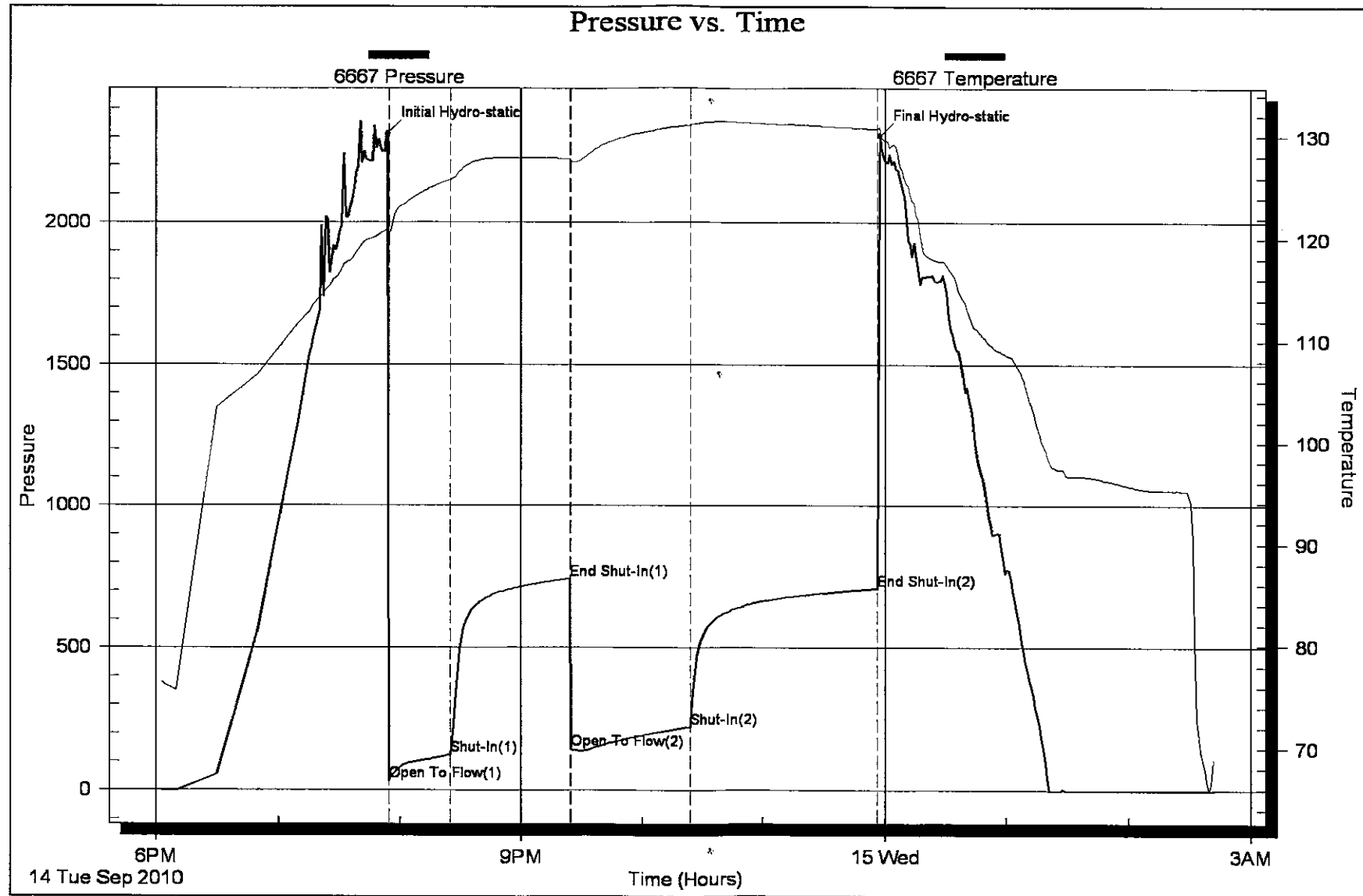
Mud Type: Gel Chem	Cushion Type:	Oil API:	32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 ppm			
Filter Cake: 2.00 inches			

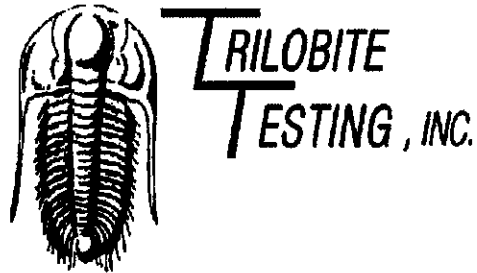
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	g m c o 30g 30m 40o	3.050
226.00	c g o 30g 70o	3.170
0.00	1260' gas in pipe	0.000

Total Length: 598.00 ft Total Volume: 6.220 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Ste 300
Wichita, KS 67202

ATTN: Tom Funk

21-10s-34w Thomas, Ks

L R Frahm #3-21

Start Date: 2010.09.15 @ 14:01:13

End Date: 2010.09.15 @ 23:05:58

Job Ticket #: 039659 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

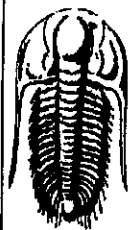
L R Frahm #3-21

21-10s-34w Thomas, Ks

DST # 5

Johnson

2010.09.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

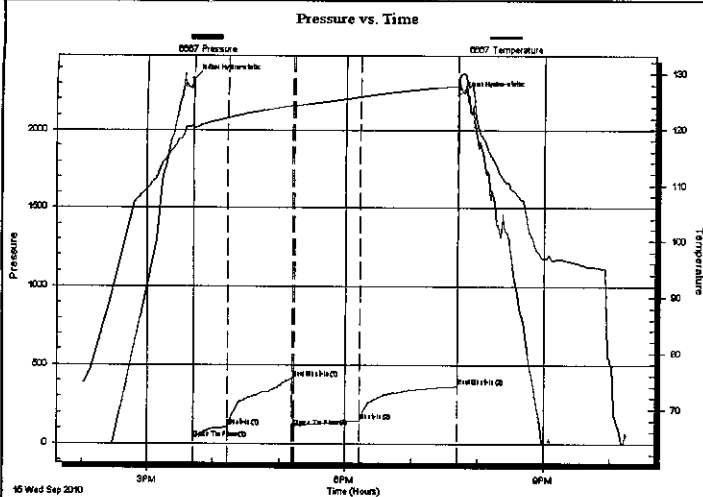
L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039659 **DST#: 5**
Test Start: 2010.09.15 @ 14:01:13

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 15:41:28
Time Test Ended: 23:05:58
Interval: **4678.00 ft (KB) To 4740.00 ft (KB) (TVD)**
Total Depth: **4740.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**
Reference Elevations: **3234.00 ft (KB)**
3223.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 6667 **Outside**
Press@RunDepth: **143.69 psig @ 4679.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.09.15** End Date: **2010.09.15** Last Calib.: **2010.09.15**
Start Time: **14:01:13** End Time: **22:15:58** Time On Btm: **2010.09.15 @ 15:41:13**
Time Off Btm: **2010.09.15 @ 19:42:28**

TEST COMMENT: B.O.B. in 6 min
6" in return
B.O.B. in 3 min
1 1/2" in blow



PRESSURE SUMMARY

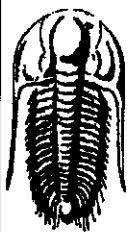
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.20	120.85	Initial Hydro-static
1	30.82	119.66	Open To Flow (1)
32	105.78	122.11	Shut-In(1)
91	411.54	124.34	End Shut-In(1)
92	108.69	124.24	Open To Flow (2)
152	143.69	125.89	Shut-In(2)
241	360.57	127.88	End Shut-In(2)
242	2225.76	128.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	g s m c o 15g 15m 70o	1.20
90.00	g m c o 10g 35m 55o	1.26
0.00	1023' gas in pipe very weak	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

L R Frahm #3-21

250 N Water Ste 300
Wichita, KS 67202

21-10s-34w Thomas, Ks

Job Ticket: 039659

DST#: 5

ATTN: Tom Funk

Test Start: 2010.09.15 @ 14:01:13

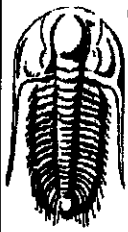
Tool Information

Drill Pipe:	Length: 4439.00 ft	Diameter: 3.80 inches	Volume: 62.27 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 63.44 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4678.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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			4659.00	
Shut In Tool	5.00			4664.00	
Hydraulic tool	5.00			4669.00	
Packer	5.00			4674.00	20.00 Bottom Of Top Packer
Packer	4.00			4678.00	
Stubb	1.00			4679.00	
Recorder	0.00	6771	Inside	4679.00	
Recorder	0.00	6667	Outside	4679.00	
Perforations	23.00			4702.00	
Change Over Sub	1.00			4703.00	
Drill Pipe	31.00			4734.00	
Change Over Sub	1.00			4735.00	
Bullnose	5.00			4740.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water Ste 300
Wichita, KS 67202
ATTN: Tom Funk

L R Frahm #3-21
21-10s-34w Thomas, Ks
Job Ticket: 039659 **DST#: 5**
Test Start: 2010.09.15 @ 14:01:13

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: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	g s m c o 15g 15m 70o	1.198
90.00	g m c o 10g 35m 55o	1.262
0.00	1023' gas in pipe very weak	0.000

Total Length: 330.00 ft Total Volume: 2.460 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

