

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
September 1999  
Form Must Be Typed

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

5/28/12

Operator: License # 30606  
Name: Murfin Drilling Company, Inc.  
Address: 250 N. Water, Suite 300  
City/State/Zip: Wichita, Kansas 67202  
Purchaser: None  
Operator Contact Person: Leon Rodak  
Phone: (316) 267-3241  
Contractor: Name: Murfin Drilling Company, Inc.  
License: 30606

**KCC**  
**MAY 27 2010**  
**CONFIDENTIAL**

Wellsite Geologist: Tom Funk  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

01/30/10      02/07/10      02/08/10  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 109-20884-0000  
County: Logan  
SW\_NW\_SE\_SW Sec. 25 Twp. 12 S. R. 33  East  West  
750 FSL feet from S N (circle one) Line of Section  
1580 FWL feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Gary Well #: 2-25  
Field Name: Funky Town West

Producing Formation: None  
Elevation: Ground: 3092 Kelly Bushing: 3097  
Total Depth: 4757 Plug Back Total Depth: None  
Amount of Surface Pipe Set and Cemented at 209 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

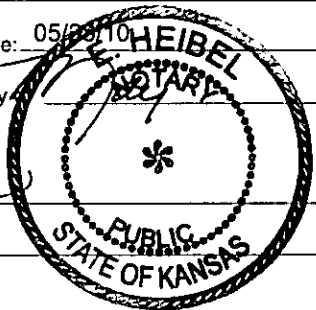
Drilling Fluid Management Plan PAN 6-210  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Ken Dean  
Title: Geologist Date: 05/28/10  
Subscribed and sworn to before me this 28 day of May 2010.  
Notary Public: [Signature]  
Date Commission Expires: 4/11/2011



**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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Side Two

Operator Name: Murfin Drilling Company, Inc. Lease Name: Gary Well #: 2-25
Sec. 25 Twp. 12 S. R. 33 [ ] East [x] West County: Logan

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken [x] Yes [ ] No
Samples Sent to Geological Survey [x] Yes [ ] No
Cores Taken [ ] Yes [x] No
Electric Log Run [x] Yes [ ] No
List All E. Logs Run:
E-mailed Electronically:
Dual Induction, Compensated Porosity, Microresistivity

CASING RECORD Table with columns: 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. Row 1: Surface, 8 5/8, 23#, 209, Common, 170, 3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives

PERFORATION RECORD - Bridge Plugs Set/Type Table with columns: 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

TUBING RECORD Table with columns: Size, Set At, Packer At, Liner Run [ ] Yes [x] No, Date of First, Resumed Production, SWD or Enhr., Producing Method [ ] Flowing [ ] Pumping [ ] Gas Lift [ ] Other (Explain)

Disposition of Gas [ ] Vented [ ] Sold [ ] Used on Lease (If vented, Submit ACO-18.)
METHOD OF COMPLETION [ ] Open Hole [ ] Perf. [ ] Dually Comp. [ ] Commingled [ ] Other (Specify)
Production Interval

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Gary #2-25 750' FSL 1580' FWL Sec. 25-T12S-R33W 3097' KB							Gary #1-25 1800' FSL 2050' FWL Sec. 25-T12S-R33W 3086' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2583	+514	+2	2589	+508	-4	2574	+512
B/Anhydrite	2612	+485	-5	2610	+487	-3	2596	+490
Topeka	3806	-709	+3	3810	-713	-1	3798	-712
Heebner	4026	-929	+1	4022	-925	+5	4016	-930
Lansing	4070	-973	-2	4067	-970	+1	4057	-971
Stark	4302	-1205	-2	4299	-1202	+1	4289	-1203
Marmaton	4408	-1311	-5	4406	-1309	-3	4392	-1306
Up Pawnee	4502	-1405	-9	4498	-1401	-5	4482	1396
Johnson	4627	-1530	-5	4625	-1528	-3	4611	-1525
Mississippi	4696	-1599	-9	4690	-1593	-3	4676	-1590
RTD	4757							
LTD				4756			4737	

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MAY 28 2010  
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24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906  
 Voice: (785) 483-3887  
 Fax: (785) 483-5566

# INVOICE

Invoice Number: 121527  
 Invoice Date: Feb 8, 2010  
 Page: 1

PROD COPY

*act  
fin*  
 KCC  
 MAY 27 2010  
 CONFIDENTIAL

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

*operator pay  
 MOC/BM*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Gary #2-25	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Feb 8, 2010	3/10/10

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	15.45	2,039.40
88.00	MAT	Pozmix	8.00	704.00
8.00	MAT	Gel	20.80	166.40
55.00	MAT	Flo Seal	2.50	137.50
230.00	SER	Handling	2.40	552.00
15.00	SER	Mileage 230 sx @.10 per sk per mi	23.00	345.00
1.00	SER	Plug to Abandon	1,185.00	1,185.00
15.00	SER	Pump Truck Mileage	7.00	105.00
1.00	EQP	Dry Hole Plug	40.00	40.00

*OLM*

QTY	Unit	Rate	No.	Description
03600	00840	3590	5606.58	PTA
			(1846.01)	

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

\$ 1846.01

ONLY IF PAID ON OR BEFORE  
 Mar 5, 2010

Subtotal	5,274.30
Sales Tax	332.28
Total Invoice Amount	5,606.58
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,606.58</b>

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 MAY 27 2010  
*1846.01*  
*3760.57*

# ALLIED CEMENTING CO., LLC. 039190

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

SERVICE POINT:  
Oakley

DATE <u>2-8-10</u>	SEC <u>25</u>	TWP <u>12</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>1:30p.m</u>	JOB START <u>4:00pm</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>Gary</u>	WELL # <u>2-25</u>	LOCATION <u>Oakley 9.5 4W 1/2 S</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>Winito</u>			

CONTRACTOR Murfin Drilling Rig 8 OWNER Same  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D. 4764' CEMENT AMOUNT ORDERED 220 SKS 6940  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ 4 1/2 gel 14 FLO seal  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2600'  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER Andrew  
 # 428-281 HELPER Larene  
 BULK TRUCK  
 # 347 DRIVER Darrin  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
25 SKS @ 2600'  
100 SKS @ 1550'  
40 SKS @ 2600'  
10 SKS @ 40'  
15 SKS mouse hole  
30 SKS Rat hole

Thank you

CHARGE TO: Murfin  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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

PRINTED NAME Rodney Carr  
 SIGNATURE Rodney Carr

COMMON	<u>132 SKS</u>	@ <u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88 SKS</u>	@ <u>8.00</u>	<u>704.00</u>
GEL	<u>8 SKS</u>	@ <u>20.80</u>	<u>166.40</u>
CHLORIDE		@	
ASC		@	
		@	
	<u>FLO-seal 55#</u>	@ <u>2.50</u>	<u>137.50</u>
		@	
		@	
		@	
		@	
HANDLING	<u>230 SKS</u>	@ <u>2.40</u>	<u>552.00</u>
MILEAGE	<u>106.56/mile</u>		<u>345.00</u>
TOTAL			<u>3944.30</u>

SERVICE

DEPTH OF JOB	<u>2600'</u>		
PUMP TRUCK CHARGE			<u>1185.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>15 miles</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD		@	
		@	
TOTAL			<u>1290.00</u>

PLUG & FLOAT EQUIPMENT

	<u>8 5/8</u>		
	<u>1 Dry hole plug</u>	@	<u>40.00</u>
		@	
		@	
		@	
TOTAL			<u>40.00</u>

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

KCC  
 MAY 27 2010  
 CONFIDENTIAL



*Liz*

# INVOICE

24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906  
 Voice: (785) 483-3887  
 Fax: (785) 483-5566

Invoice Number: 121411  
 Invoice Date: Jan 30, 2010  
 Page: 1

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

KCC  
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*operator pay  
 mdc*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Gary #2-25 <i>BM</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 30, 2010	3/1/10

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	15.45	2,626.50
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.40	429.60
15.00	SER	Mileage 179 sx @.10 per sk per mi	17.90	268.50
1.00	SER	Surface	1,018.00	1,018.00
15.00	SER	Pump Truck Mileage	7.00	105.00

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*DD*

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

\$ 1700.72

ONLY IF PAID ON OR BEFORE  
Feb 24, 2010

Subtotal	4,859.20
Sales Tax	191.40
Total Invoice Amount	5,050.60
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,050.60</b>

*im*

# ALLIED CEMENTING CO., LLC. 044470

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

SERVICE POINT: OAKLEY, KS

DATE <u>1-30-10</u>	SEC. <u>25</u>	TWP. <u>12</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>6:30pm</u>	JOB START <u>8:00am</u>	JOB FINISH <u>5:30pm</u>
LEASE <u>GARY</u>	WELL# <u>2-25</u>	LOCATION <u>OAKLEY - S. Gould Rd</u>			COUNTY <u>Woods</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>4w-1"2n wt stwin</u>			MAY 27 2010	

CONTRACTOR Murphy #8  
 TYPE OF JOB SURFACE  
 HOLE SIZE 12"14 T.D. 209'  
 CASING SIZE 8 5/8 23 DEPTH 209'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 12.3 BBL

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 170 com 3 9/16 cc  
2 9/16 gel

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**EQUIPMENT**

PUMP TRUCK CEMENTER Fuzzy  
 # 423 HELPER Kelly  
 BULK TRUCK  
 # 347 DRIVER Wilbur  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>170</u>	@ <u>15<sup>45</sup></u>	<u>2626<sup>50</sup></u>
POZMIX		@	
GEL	<u>3</u>	@ <u>2080</u>	<u>6240</u>
CHLORIDE	<u>6</u>	@ <u>5820</u>	<u>34920</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>179</u>	@ <u>2<sup>40</sup></u>	<u>429<sup>60</sup></u>
MILEAGE	<u>10.45</u>	@ <u>5K/mile</u>	<u>268<sup>50</sup></u>
TOTAL			<u>3736<sup>20</sup></u>

REMARKS:  
cement did circulate

Job complete @ 5:15pm  
Thanks Fuzzy & crew

**SERVICE**

DEPTH OF JOB	<u>209'</u>	
PUMP TRUCK CHARGE		<u>1018<sup>00</sup></u>
EXTRA FOOTAGE	@	
MILEAGE	<u>15</u>	@ <u>7<sup>00</sup></u> <u>105<sup>00</sup></u>
MANIFOLD	@	
	@	
	@	
TOTAL		<u>1123<sup>00</sup></u>

CHARGE TO: Murphy Dals  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

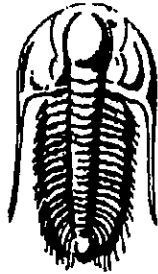
**PLUG & FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
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 Rodney Fair  
 SIGNATURE Rodney Fair

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wichita, KS 67202

ATTN: Tom Funk

**25-12-33 Logan, KS**

**Gary #2-25**

Start Date: 2010.02.04 @ 23:43:00

End Date: 2010.02.05 @ 06:02:36

Job Ticket #: 37745                      DST #: 1

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

Murfin Drilling Co.

Gary #2-25

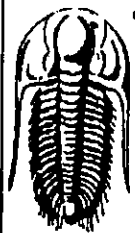
25-12-33 Logan, KS

DST # 1

LKC 'H, I, J'

2010.02.04





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37745      DST#: 1

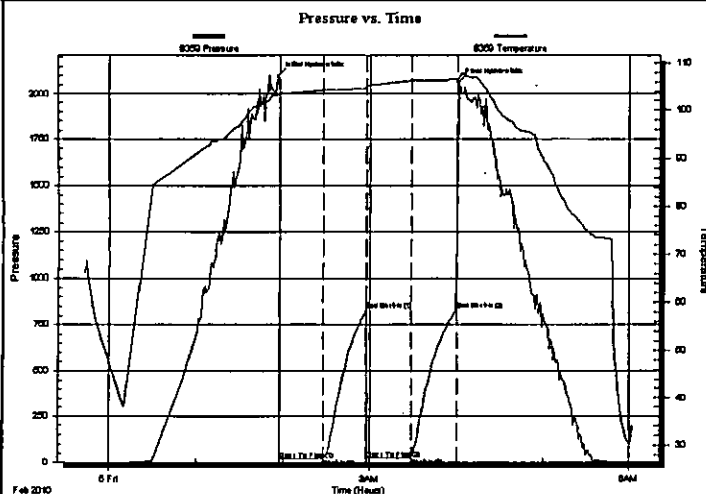
Test Start: 2010.02.04 @ 23:43:00

### GENERAL INFORMATION:

Formation: LKC 'H, I, J'		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened: 01:57:24		Tester: Chuck Smith
Time Test Ended: 06:02:36		Unit No: 37
Interval: 4209.00 ft (KB) To 4298.00 ft (KB) (TVD)		Reference Elevations: 3097.00 ft (KB)
Total Depth: 4298.00 ft (KB) (TVD)		3092.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

<b>Serial #: 8359</b>	<b>Outside</b>				
Press@RunDepth: 25.22 psig @	4213.00 ft (KB)	Capacity: 8000.00 psig			
Start Date: 2010.02.04	End Date: 2010.02.05	Last Calib.: 2010.02.05			
Start Time: 23:43:01	End Time: 06:02:36	Time On Btm: 2010.02.05 @ 01:56:12			
		Time Off Btm: 2010.02.05 @ 04:00:24			

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



### PRESSURE SUMMARY

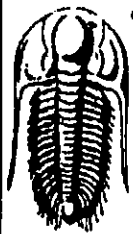
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.11	103.44	Initial Hydro-static
2	16.63	103.48	Open To Flow (1)
32	21.01	104.41	Shut-In (1)
62	826.90	104.83	End Shut-In (1)
62	22.05	105.32	Open To Flow (2)
92	25.22	106.41	Shut-In (2)
124	827.74	106.72	End Shut-In (2)
125	2066.60	106.91	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	M 100%M	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

Gary #2-25

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

25-12-33 Logan, KS

Job Ticket: 37745

DST#: 1

Test Start: 2010.02.04 @ 23:43:00

### Tool Information

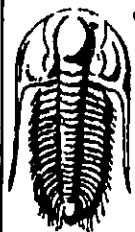
Drill Pipe:	Length: 4015.00 ft	Diameter: 3.80 inches	Volume: 56.32 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4209.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	109.00 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			4190.00	
Shut In Tool	5.00			4195.00	
Hydraulic tool	5.00			4200.00	
Packer	5.00			4205.00	20.00 Bottom Of Top Packer
Packer	4.00			4209.00	
Stubb	1.00			4210.00	
Perforations	3.00			4213.00	
Recorder	0.00	8351	Inside	4213.00	
Recorder	0.00	8359	Outside	4213.00	
Perforations	15.00			4228.00	
Change Over Sub	1.00			4229.00	
Drill Pipe	63.00			4292.00	
Change Over Sub	1.00			4293.00	
Bullnose	5.00			4298.00	89.00 Bottom Packers & Anchor

**Total Tool Length: 109.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37745      DST#: 1

Test Start: 2010.02.04 @ 23:43:00

### 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 8600.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 0.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

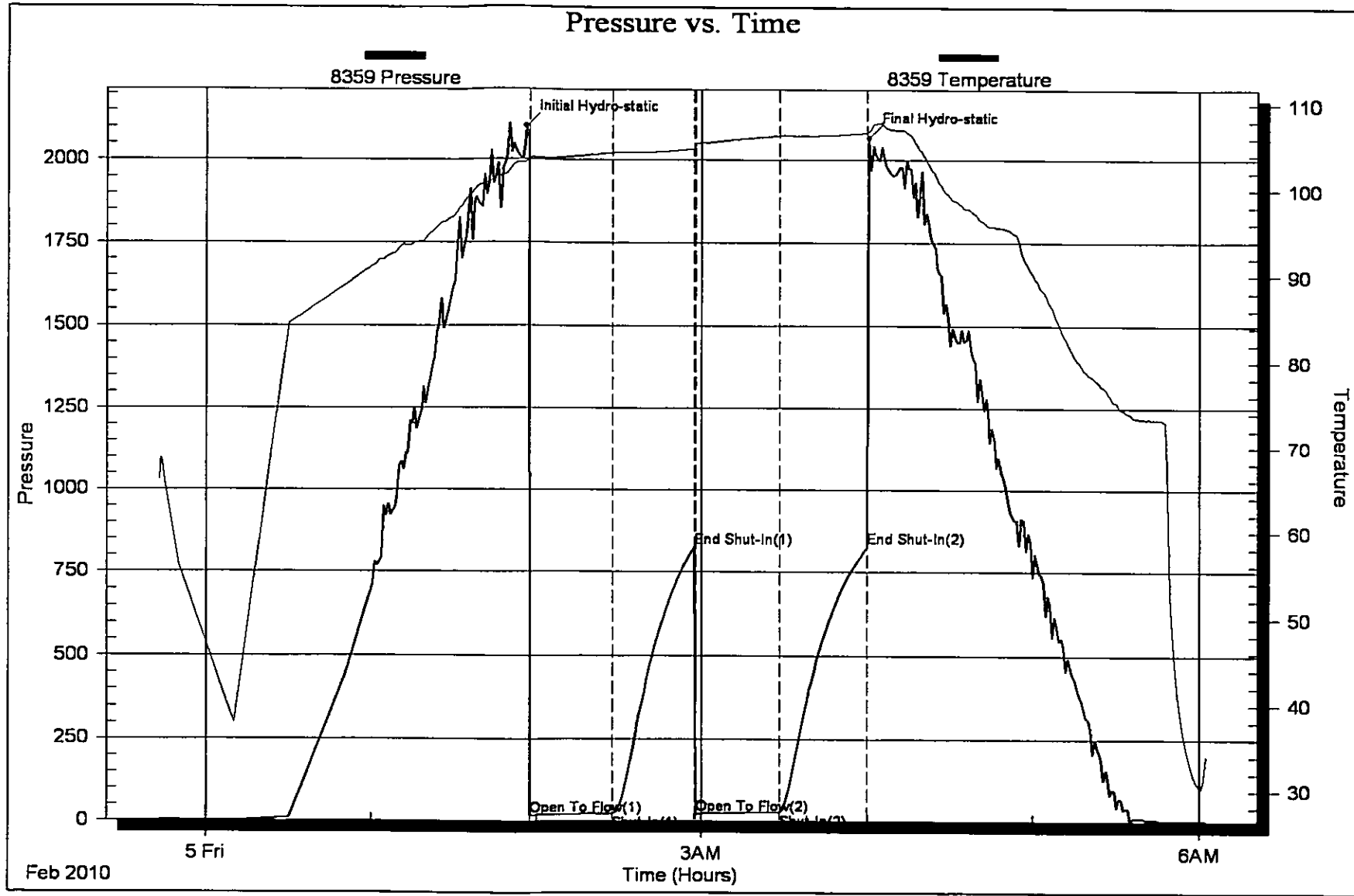
Length ft	Description	Volume bbl
15.00	M 100%M	0.074

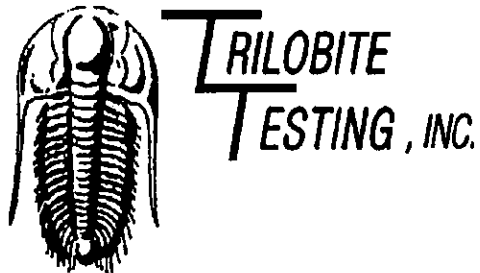
Total Length: 15.00 ft      Total Volume: 0.074 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wichita, KS 67202

ATTN: Tom Funk

**25-12-33 Logan, KS**

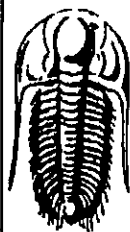
**Gary #2-25**

Start Date: 2010.02.06 @ 08:29:00

End Date: 2010.02.06 @ 16:37:36

Job Ticket #: 37746                      DST #: 2

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.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37746

DST#: 2

Test Start: 2010.02.06 @ 08:29:00

### GENERAL INFORMATION:

Formation: **Altamont - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:24:24

Time Test Ended: 16:37:36

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4416.00 ft (KB) To 4568.00 ft (KB) (TVD)**

Reference Elevations: 3097.00 ft (KB)

Total Depth: 4568.00 ft (KB) (TVD)

3092.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8351**

Inside

Press@RunDepth: 106.71 psig @ 4419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.02.06

End Date: 2010.02.06

Last Calib.: 2010.02.06

Start Time: 08:29:01

End Time: 16:37:36

Time On Btm: 2010.02.06 @ 10:23:12

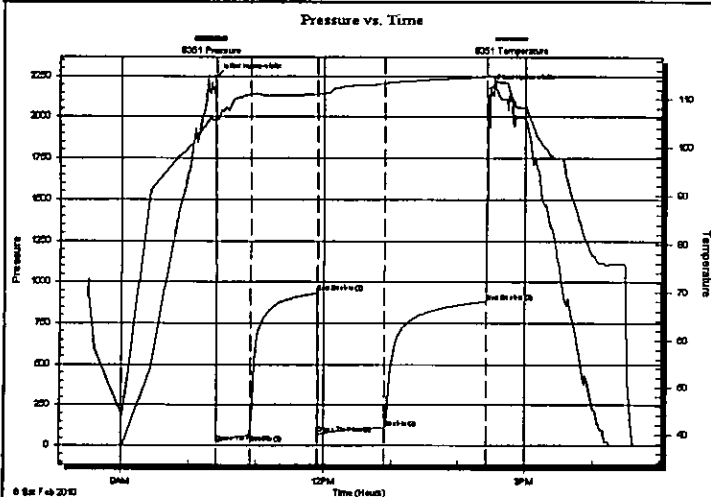
Time Off Btm: 2010.02.06 @ 14:28:24

TEST COMMENT: IF: 3 1/2" Blow.

IS: No return.

FF: 2" Blow.

FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.38	105.88	Initial Hydro-static
2	19.90	105.98	Open To Flow (1)
31	64.27	111.06	Shut-In(1)
91	935.97	111.12	End Shut-In(1)
92	70.06	111.00	Open To Flow (2)
152	106.71	113.44	Shut-In(2)
243	880.85	114.73	End Shut-In(2)
246	2174.90	114.81	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 40%M 60%W	0.59
80.00	OSM 100%M	0.57
0.00	RW: .270 @ 60 Degrees F = 30000 PPM	0.00
0.00	100 Feet weak 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.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37746

DST#: 2

Test Start: 2010.02.06 @ 08:29:00

**Tool Information**

Drill Pipe:	Length: 4235.00 ft	Diameter: 3.80 inches	Volume: 59.41 bbl	Tool Weight: 2000.00 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume: 60.30 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4416.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	172.00 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			4397.00	
Shut In Tool	5.00			4402.00	
Hydraulic tool	5.00			4407.00	
Packer	5.00			4412.00	20.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Perforations	2.00			4419.00	
Recorder	0.00	8351	Inside	4419.00	
Recorder	0.00	8359	Outside	4419.00	
Perforations	15.00			4434.00	
Change Over Sub	1.00			4435.00	
Drill Pipe	127.00			4562.00	
Change Over Sub	1.00			4563.00	
Bullnose	5.00			4568.00	152.00 Bottom Packers & Anchor

**Total Tool Length: 172.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

Gary #2-25

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

25-12-33 Logan, KS  
Job Ticket: 37746      DST#: 2  
Test Start: 2010.02.06 @ 08:29:00

### 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:	30000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9400.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 40%M 60%W	0.590
80.00	OSM 100%M	0.567
0.00	RW: .270 @ 60 Degrees F = 30000 PPM	0.000
0.00	100 Feet weak GIP	0.000

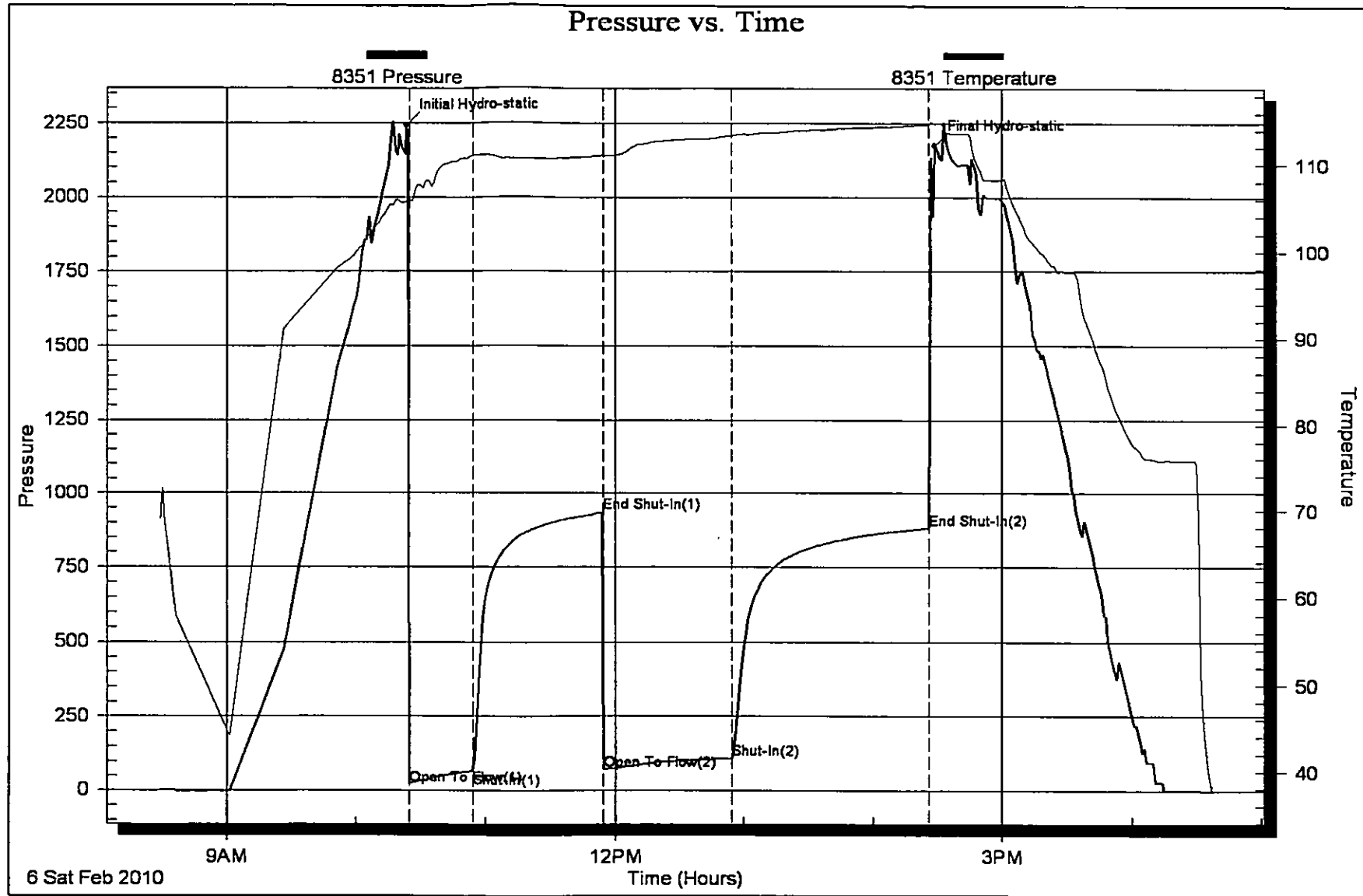
Total Length: 200.00 ft      Total Volume: 1.157 bbl

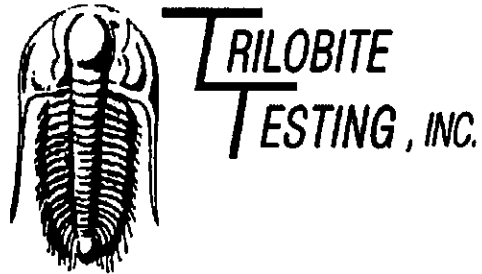
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water  
Suite 300  
Wichita, KS 67202

ATTN: Tom Funk

**25-12-33 Logan, KS**

**Gary #2-25**

Start Date: 2010.02.07 @ 05:21:00

End Date: 2010.02.07 @ 13:54:12

Job Ticket #: 37747                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co.

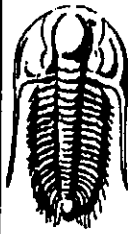
Gary #2-25

25-12-33 Logan, KS

DST # 3

Johnson

2010.02.07



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

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

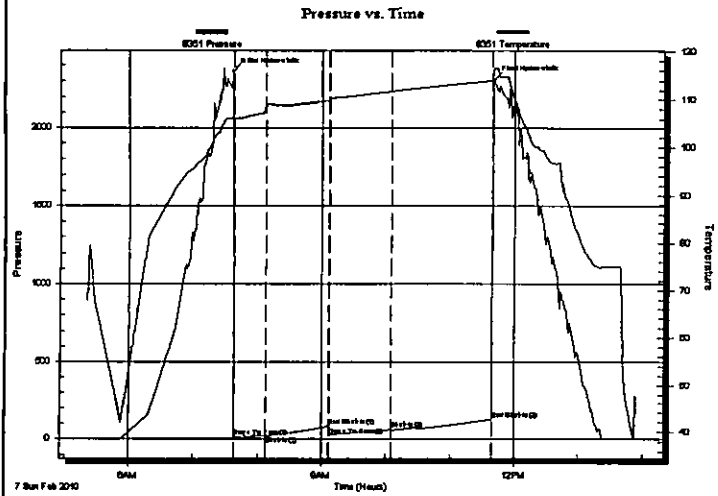
**Gary #2-25**  
**25-12-33 Logan, KS**  
Job Ticket: 37747      DST#: 3  
Test Start: 2010.02.07 @ 05:21:00

**GENERAL INFORMATION:**

Formation: **Johnson**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 07:37:24  
Time Test Ended: 13:54:12  
Interval: **4604.00 ft (KB) To 4653.00 ft (KB) (TVD)**  
Total Depth: **4653.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Chuck Smith**  
Unit No: **37**  
Reference Elevations: **3097.00 ft (KB)**  
**3092.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8351**      **Inside**  
Press@RunDepth: **61.18 psig @ 4605.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.02.07**      End Date: **2010.02.07**      Last Calib.: **2010.02.07**  
Start Time: **05:21:01**      End Time: **13:54:12**      Time On Btm: **2010.02.07 @ 07:36:24**  
Time Off Btm: **2010.02.07 @ 11:41:12**

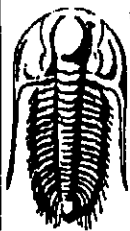
**TEST COMMENT:** IF: 1/2" Blow.  
IS: No return.  
FF: No blow.  
FSI: No return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.52	106.49	Initial Hydro-static
1	14.51	105.82	Open To Flow (1)
31	17.31	108.73	Shut-In(1)
90	82.90	109.79	End Shut-In(1)
91	20.72	109.85	Open To Flow (2)
149	61.18	111.79	Shut-In(2)
244	127.25	114.04	End Shut-In(2)
245	2305.48	116.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	OSM 100%M	0.02

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37747

DST#: 3

Test Start: 2010.02.07 @ 05:21:00

### Tool Information

Drill Pipe:	Length: 4430.00 ft	Diameter: 3.80 inches	Volume: 62.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 27000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4604.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 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			4585.00	
Shut In Tool	5.00			4590.00	
Hydraulic tool	5.00			4595.00	
Packer	5.00			4600.00	20.00 Bottom Of Top Packer
Packer	4.00			4604.00	
Stubb	1.00			4605.00	
Recorder	0.00	8351	Inside	4605.00	
Recorder	0.00	8359	Outside	4605.00	
Perforations	10.00			4615.00	
Change Over Sub	1.00			4616.00	
Drill Pipe	31.00			4647.00	
Change Over Sub	1.00			4648.00	
Bullnose	5.00			4653.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**Gary #2-25**

250 N. Water  
Suite 300  
Wichita, KS 67202  
ATTN: Tom Funk

**25-12-33 Logan, KS**

Job Ticket: 37747

**DST#: 3**

Test Start: 2010.02.07 @ 05:21:00

### 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	OSM 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

