

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

RECEIVED  
JAN 07 2011

**ORIGINAL**

Form ACO-1  
June 2009

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

1/5/13

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 **KCC**  
Phone: ( 316 ) 267-3241 **JAN 05 2011**  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Company, Inc. **CONFIDENTIAL**  
Wellsite Geologist: Rocky Milford  
Purchaser: None

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 #: \_\_\_\_\_

12/11/10	12/18/10	12/19/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 141-20424-0000  
Spot Description: \_\_\_\_\_  
E2 NW NE SE Sec. 09 Twp. 10 S. R. 14  East  West  
2310 Feet from  North /  South Line of Section  
800 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Osborne  
Lease Name: Janet Well #: 1-9  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 1987 Kelly Bushing: 1992  
Total Depth: 3922 Plug Back Total Depth: None  
Amount of Surface Pipe Set and Cemented at: 220 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 cmf.

**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: 01/05/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 1/5/11 - 1/5/13 **22**  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NS Date: 1-24-11  
**PA**

KCC  
JAN 05 2011  
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Operator Name: Murfin Drilling Company, Inc. Lease Name: Janet Well #: 1-9  
 Sec. 09 Twp. 10 S. R. 14  East  West County: Osborne

**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.

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <i>(If no, Submit Copy)</i></p> <p>List All E. Logs Run:  <b>Dual Induction, Compensated Porosity,                  Microresistivity</b></p>	<p><input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <p>Name Top Datum</p> <p style="text-align: center;">See Attached List</p>
---	---

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#	220	Common	160	3% cc, 2% gel

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

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TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input 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) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

KCC  
JAN 0 5 2011

MDCI Janet #1-9 2310 FSL 800 FEL Sec. 9-T10S-R14W 1992' KB				MDCI <b>CONFIDENTIAL</b> Pamela #1-16 1100 FNL 1200 FEL Sec. 16-T10S-R14W 1985' KB				MDCI Tim #1-8 2310 FNL 1100 FWL Sec. 8-T10S-R14W 1953' KB		
Formation	Sample tops	Datum	Log Tops	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1185	+807	1184	+808	-15	1162	+823	-4	1141	+812
B/Anhydrite	1219	+773	1216	+776	-13	1196	+789	-5	1172	+781
Topeka	2923	-931	2923	-931	-7	2909	-924	-26	2858	-905
Heebner	3176	-1184	3174	-1182	-9	3158	-1173	-31	3104	-1151
Toronto	3197	-1205	3196	-1204	-9	3180	-1195	-30	3127	-1174
Lansing	3226	-1234	3225	-1233	-8	3210	-1225	-29	3157	-1204
Stark	3439	-1447	3439	-1447	-10	3422	-1437	-33	3367	-1414
BKC	3500	-1508	3500	-1508	-10	3483	-1498	-39	3422	-1469
Cherokee	3617	-1625	3617	-1625	-12	3598	-1613	-47	3531	-1578
Viola	3708	-1716	3708	-1716	-8	3693	-1708	-65	3604	-1651
Simpson	3804	-1812	3863	-1871	-72	3784	-1799	-182	3642	-1689
Arbuckle	3915	-1923	NOL	NOL		3849	-1864		3691	-1738
RTD	3922					3905			3750	
LTD			3922			3907			3751	

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Accty - cc:W1  
 cc:Lin  
 cc:Lea-pl

Date: 12/13/2010  
 Invoice # 4471



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

**KCC**  
**JAN 05 2011**  
**CONFIDENTIAL**

P.O.#:  
 Due Date: 1/12/2011  
 Division: Russell

**Invoice**

APPROVED FOR New Well Drilling  
 APPROVED h R  
 PROD COPY

**Contact:**  
 Murfin Drilling Company  
**Address/Job Location:**  
 Murfin Drilling Company  
 P.O. Box 288  
 Russell Ks 67665

**Reference:**  
 JANET 1-9

**Description of Work:**  
 SURFACE JOB

Account	Description
03600 016 vs 3821 3430.70	Cement S. Csg.

**Services / Items Included:**

Item	Quantity	Price	Taxable
Labor		\$ 722.89	No
Common-Class A	160	\$ 2,060.44	Yes
Bulk Truck Matl-Material Service Charge	168	\$ 354.67	No
Pump Truck Mileage-Job to Nearest Camp	28	\$ 294.96	No
Calcium Chloride	5	\$ 198.76	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 172.60	No
Premium Gel (Bentonite)	3	\$ 51.55	Yes

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**Invoice Terms:**  
 Net 30

SubTotal:	\$ 3,855.88
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (578.38)
SubTotal for Taxable Items:	\$ 1,964.15
SubTotal for Non-Taxable Items:	\$ 698.90

7.80% Osborne County Sales Tax

Total:	\$ 3,277.50
Tax:	\$ 153.20
<b>Amount Due:</b>	<b>\$ 3,430.70</b>
<b>Applied Payments:</b>	
<b>Balance Due:</b>	<b>\$ 3,430.70</b>

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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*Handwritten signature*

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

KCC No. **4471**  
JAN 05 2011

Date	12-11-10	Sec.	9	Twp.	10	Range	14	County	Osborne	State	Kansas	On Location	CONFIDENTIAL	Finish	11:30 PM
Lease	Swiret	Well No.	1-9			Location			Paradise CON IE IS						
Contractor	Muffin Drilling Rig 16							Owner							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4		T.D.		222		Charge To								
Csg.	8 5/8 23 1/2		Depth		220		Muffin								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.	10-15'		Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		13 BH		Cement Amount Ordered 160 Cms Fall 2011								

**EQUIPMENT**

Pumptrk	1	No.	Cementer		Common	160
			Helper	Steve		
Bulktrk	8	No.	Driver		Poz. Mix	
			Driver	Mark		
Bulktrk		No.	Driver		Gel.	3
			Driver	1500		

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

*Cement did Circulate*

Sand		RECEIVED JAN 07 2011 KCC WICHITA
Handling	168	
Mileage		

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Quality Oilwell

Cementing

Pumptrk Charge	Surface
Mileage	28

*Thank You*

X Signature *Andy Jibul*

Tax	
Discount	
Total Charge	



**QUALITY OILWELL CEMENTING INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell, KS 67665  
 Phone: 785-324-1041 Fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 12/21/2010  
 Invoice # 4444

P.O.#:  
 Due Date: 1/20/2011  
 Division: Russell

**NETTED PROD COPY**

# Invoice

USED FOR New well Drilling <sup>D+A</sup>  
 APPROVED [Signature]

**Contact:**  
 Murfin Drilling Company  
**Address/Job Location:**  
 Murfin Drilling Company  
 P.O. Box 288  
 Russell Ks 67665

**Reference:**  
 JANET 1-9

**Description of Work:**  
 PLUG JOB

**KCC**  
**JAN 05 2011**  
**CONFIDENTIAL**

Services / Items Included:	Quantity	Price	Taxable	Item
Labor		\$ 963.85	No	
Common-Class A	138	\$ 1,777.13	Yes	
Bulk Truck Matl-Material Service Charge	238	\$ 502.44	No	
POZ Mix-Standard	92	\$ 446.71	Yes	
Pump Truck Mileage-Job to Nearest Camp	28	\$ 294.96	No	
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 172.60	No	
Premium Gel (Bentonite)	8	\$ 137.48	Yes	
Flo Seal	57	\$ 120.33	Yes	
Dry Hole Plug	1	\$ 59.11	Yes	

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**Invoice Terms:**  
 Net 30

SubTotal:	\$ 4,474.63
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (671.19)
SubTotal for Taxable Items:	\$ 2,159.65
SubTotal for Non-Taxable Items:	\$ 824.51
Total:	\$ 3,803.43
Tax:	\$ 168.45
7.80% Osborne County Sales Tax	
<b>Amount Due:</b>	<b>\$ 3,971.89</b>

**Thank You For Your Business!**

Account	Description	Applied Payments:
		<b>Balance Due:</b> \$ 3,971.89

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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*03600 016 W 3821 3971.89 PTA*

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

KCC No. 4444

JAN 05 2011  
On Location  
CONFIDENTIAL

Date	12-19-10	Sec.	9	Twp.	10	Range	14	County	Osborne	State	KS	Finish	3:00 Am.
Lease	Janet		Well No.	1-9		Location Paradise 1E 62N 1E 1/2S W100							
Contractor	Muntin #16							Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job	Retain Plug							Charge To Muntin					
Hole Size	7 7/8		T.D.		3923								
Csg.			Depth				Street						
Tbg. Size			Depth				City						
Tool			Depth				State						
Cement Left in Csg.			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line			Displace				Cement Amount Ordered 230 6/40 4/40 1/4 1/2 1/4 1/2 1/4 1/2						

**EQUIPMENT**

Pumptrk	5	No.	Cementer	Caig	Common	138
			Helper			
Bulktrk		No.	Driver	Fawl	Poz. Mix	92
			Driver			
Bulktrk	3	No.	Driver	CRV	Gel.	8
			Driver			

**JOB SERVICES & REMARKS**

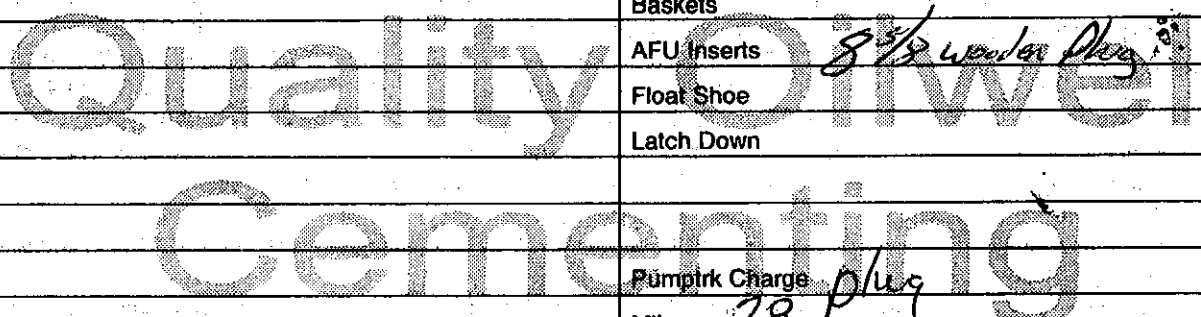
Remarks:	Calcium
Rat Hole	Hulls
30SK	Salt
Mouse Hole	Flowseal 57#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st	Sand
3895 25SK	Handling 238
2nd	Mileage
1200 25SK	
3rd	
690 100SK	
4th	
270' 40SK	
5th	
40' 100SK	
Rathole 30SK	

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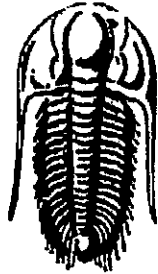
KCC WICHITA

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	8 3/8 wooden plugs
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage	28



X Signature	Ary Leibel	Tax	
		Discount	
		Total Charge	



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Company Inc**

250 N Water  
Suite300  
Wichita,KS 67202

ATTN: Rocky Milford

**9-10s-14w Osborne,KS**

**Janet #1-9**

Start Date: 2010.12.14 @ 22:38:51

End Date: 2010.12.15 @ 06:12:36

Job Ticket #: 41278                      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 Company Inc

Janet #1-9

9-10s-14w Osborne,KS

DST # 1

Topoka

2010.12.14





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite 300  
Wichita, KS 67202  
ATTN: Rocky Milford

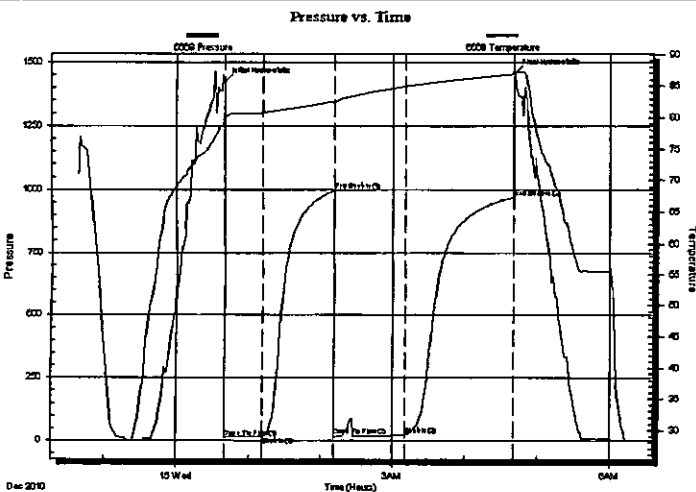
9-10s-14w Osborne, KS  
Job Ticket: 41278      DST#: 1  
Test Start: 2010.12.14 @ 22:38:51

### GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 00:39:36  
 Time Test Ended: 06:12:36  
 Interval: 2944.00 ft (KB) To 2968.00 ft (KB) (TVD)  
 Total Depth: 2968.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 1992.00 ft (KB)  
 1987.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: **6668**      Inside  
 Press@RunDepth: 22.14 psig @ 2946.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.12.14      End Date: 2010.12.15      Last Calib.: 2010.12.15  
 Start Time: 22:38:53      End Time: 06:12:36      Time On Btm: 2010.12.15 @ 00:39:06  
 Time Off Btm: 2010.12.15 @ 04:40:51

TEST COMMENT: IFP-Weak Blow, Built to 1-1/4"  
 ISI-Dead  
 FFP-Weak Blow, Built to 1-3/4"  
 ISI-Dead



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1425.50	79.89	Initial Hydro-static
1	11.66	79.51	Open To Flow (1)
32	16.12	80.74	Shut-In(1)
92	994.74	82.55	End Shut-In(1)
92	17.73	82.22	Open To Flow (2)
151	22.14	84.91	Shut-In(2)
241	969.56	86.88	End Shut-In(2)
242	1458.04	87.15	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Watery Mud-10%W-90%M	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

**Janet #1-9**

250 N Water  
Suite300  
Wichita,KS 67202  
ATTN: Rocky Milford

**9-10s-14w Osborne,KS**

Job Ticket: 41278

**DST#: 1**

Test Start: 2010.12.14 @ 22:38:51

### Tool Information

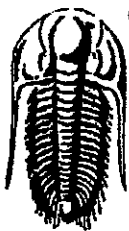
Drill Pipe:	Length: 2916.00 ft	Diameter: 3.80 inches	Volume: 40.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>41.05 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2944.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	47.00 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			2922.00	
Shut In Tool	5.00			2927.00	
Hydraulic tool	5.00			2932.00	
Safety Joint	2.00			2934.00	
Packer	5.00			2939.00	23.00 Bottom Of Top Packer
Packer	5.00			2944.00	
Stubb	1.00			2945.00	
Perforations	1.00			2946.00	
Recorder	0.00	6668	Inside	2946.00	
Recorder	0.00	8673	Outside	2946.00	
Perforations	19.00			2965.00	
Bullnose	3.00			2968.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Janet #1-9**

250 N Water  
Suite300  
Wichita,KS 67202

**9-10s-14w Osborne,KS**

Job Ticket: 41278      DST#: 1

ATTN: Rocky Milford

Test Start: 2010.12.14 @ 22:38:51

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 24000 ppm	
Viscosity: 86.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

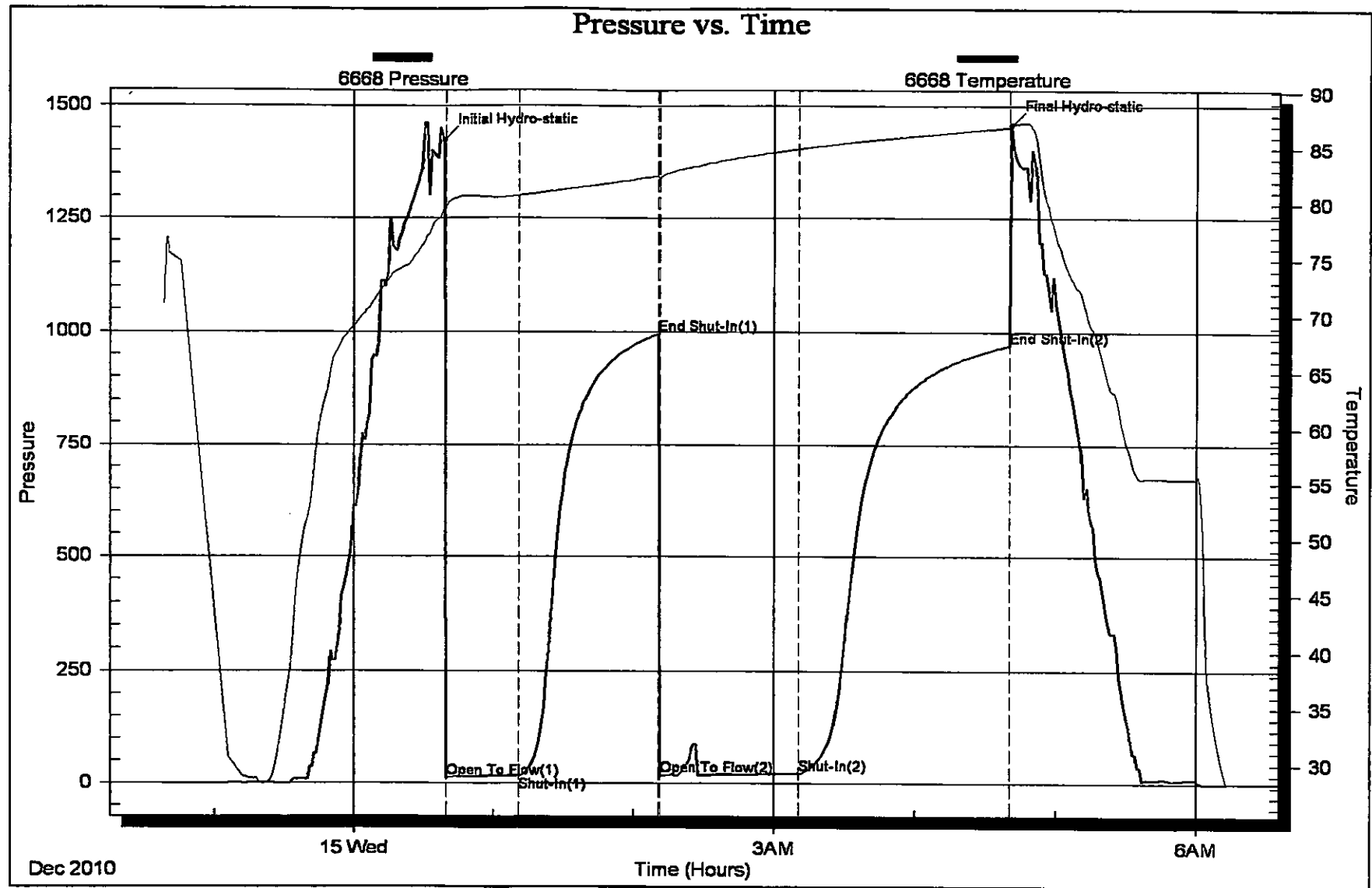
Length ft	Description	Volume bbl
5.00	Watery Mud-10%W-90%M	0.025

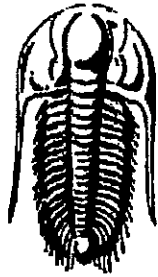
Total Length: 5.00 ft      Total Volume: 0.025 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water  
Suite300  
Wichita,KS 67202

ATTN: Rocky Milford

**9-10s-14w Osborne,KS**

**Janet #1-9**

Start Date: 2010.12.16 @ 00:02:20

End Date: 2010.12.16 @ 06:41:50

Job Ticket #: 41279                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Company Inc

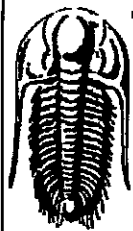
Janet #1-9

9-10s-14w Osborne,KS

DST # 2

Toronto-B

2010.12.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite300  
Wichita, KS 67202  
ATTN: Rocky Milford

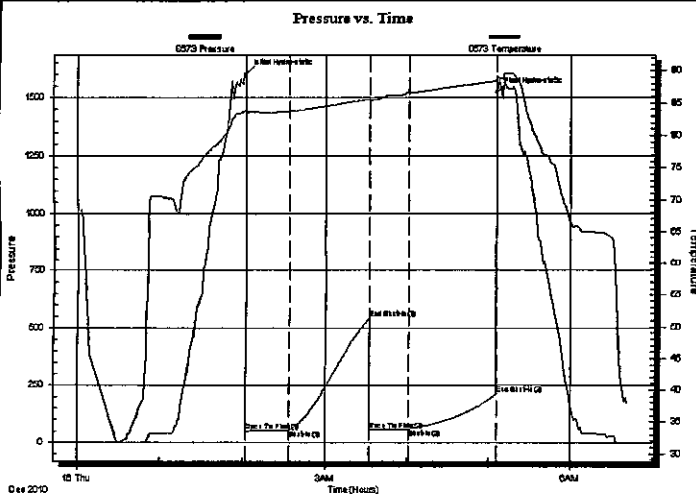
9-10s-14w Osborne, KS  
Job Ticket: 41279 DST#: 2  
Test Start: 2010.12.16 @ 00:02:20

## GENERAL INFORMATION:

Formation: **Toronto-B**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 02:02:35  
 Time Test Ended: 06:41:50  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jason McLemore**  
 Unit No: **54**  
 Interval: **3173.00 ft (KB) To 3267.00 ft (KB) (TVD)**  
 Reference Elevations: **1992.00 ft (KB)**  
**3267.00 ft (KB) (TVD)**  
**1987.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8673** Inside  
 Press@RunDepth: **58.67 psig @ 3244.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.12.16** End Date: **2010.12.16** Last Calib.: **2010.12.16**  
 Start Time: **00:02:22** End Time: **06:41:50** Time On Btm: **2010.12.16 @ 02:02:20**  
 Time Off Btm: **2010.12.16 @ 05:05:50**

**TEST COMMENT:** IFP-Weak Blow, Built to 1-3/4"  
 ISI-Dead  
 FFP-Dead  
 FSI-Dead



## PRESSURE SUMMARY

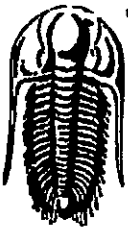
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.66	83.85	Initial Hydro-static
1	49.82	83.20	Open To Flow (1)
32	54.44	83.69	Shut-In(1)
91	543.40	85.62	End Shut-In(1)
91	55.98	85.39	Open To Flow (2)
120	58.67	86.65	Shut-In(2)
184	211.02	88.42	End Shut-In(2)
184	1522.22	89.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite300  
Wichita, KS 67202  
ATTN: Rocky Milford

9-10s-14w Osborne, KS  
Job Ticket: 41279      DST#: 2  
Test Start: 2010.12.16 @ 00:02:20

### Tool Information

Drill Pipe:	Length: 3136.00 ft	Diameter: 3.80 inches	Volume: 43.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<b>Total Volume: 44.14 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3173.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	117.00 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			3151.00	
Shut In Tool	5.00			3156.00	
Hydraulic tool	5.00			3161.00	
Safety Joint	2.00			3163.00	
Packer	5.00			3168.00	23.00      Bottom Of Top Packer
Packer	5.00			3173.00	
Stubb	1.00			3174.00	
Perforations	5.00			3179.00	
Change Over Sub	1.00			3180.00	
Blank Spacing	63.00			3243.00	
Change Over Sub	1.00			3244.00	
Recorder	0.00	8673	Inside	3244.00	
Recorder	0.00	6668	Outside	3244.00	
Perforations	20.00			3264.00	
Bullnose	3.00			3267.00	94.00      Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite300  
Wichita,KS 67202  
ATTN: Rocky Milford

9-10s-14w Osborne,KS  
Job Ticket: 41279      DST#: 2  
Test Start: 2010.12.16 @ 00:02:20

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 86.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in*	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

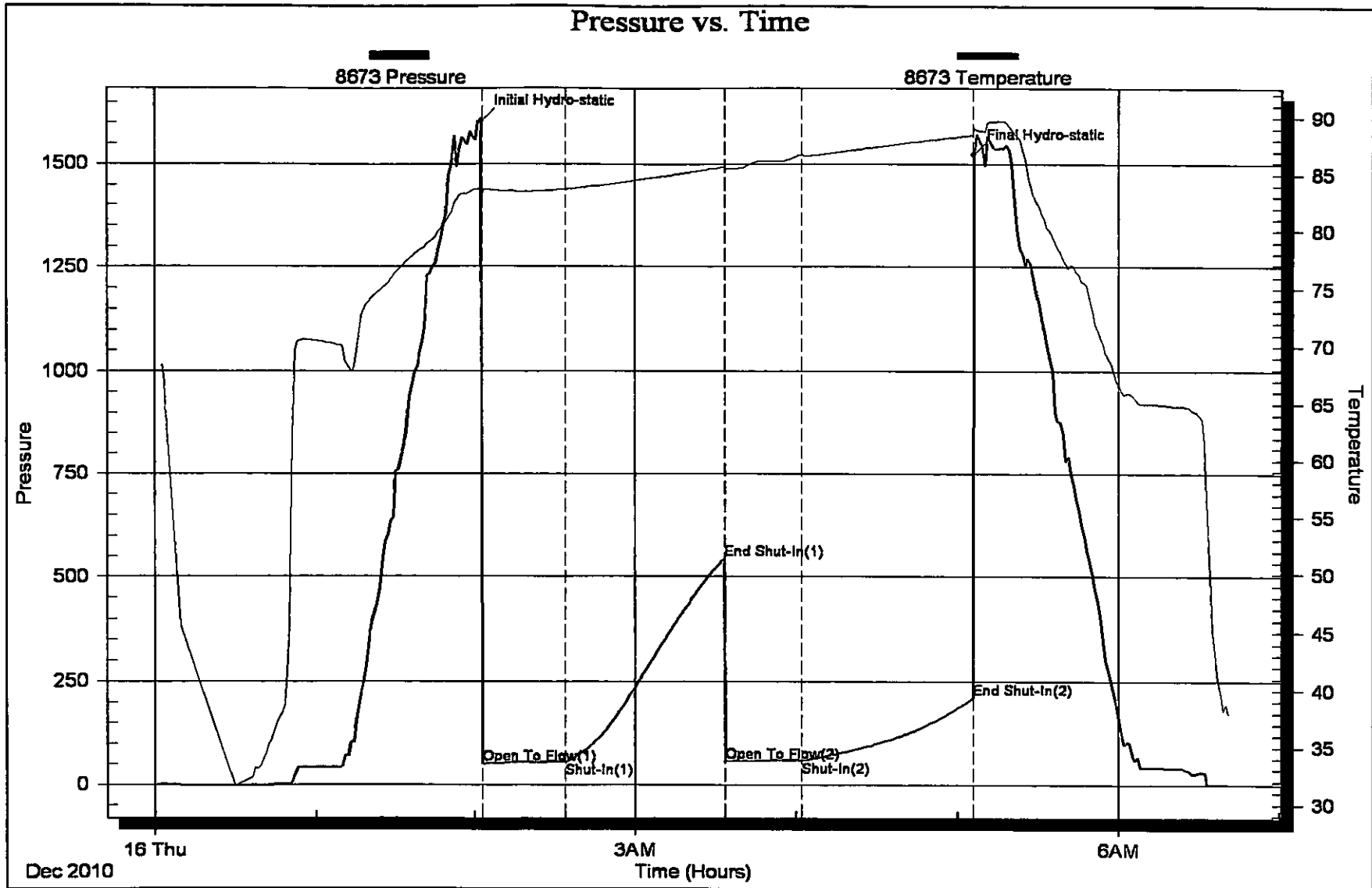
**Recovery Information**

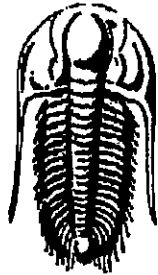
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water  
Suite300  
Wichita,KS 67202

ATTN: Rocky Milford

**9-10s-14w Osborne,KS**

**Janet #1-9**

Start Date: 2010.12.16 @ 15:47:11

End Date: 2010.12.16 @ 22:23:11

Job Ticket #: 41280                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Company Inc

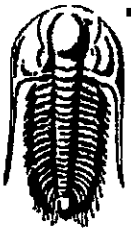
Janet #1-9

9-10s-14w Osborne,KS

DST # 3

Lansing D-G

2010.12.16



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Murfin Drilling Company Inc

**Janet #1-9**

250 N Water  
Suite300  
Wichita, KS 67202  
ATTN: Rocky Milford

**9-10s-14w Osborne, KS**  
Job Ticket: 41280      **DST#: 3**  
Test Start: 2010.12.16 @ 15:47:11

**GENERAL INFORMATION:**

Formation: **Lansing D-G**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 16:58:11  
Time Test Ended: 22:23:11

Test Type: **Conventional Bottom Hole**  
Tester: **Jason McLemore**  
Unit No: **54**

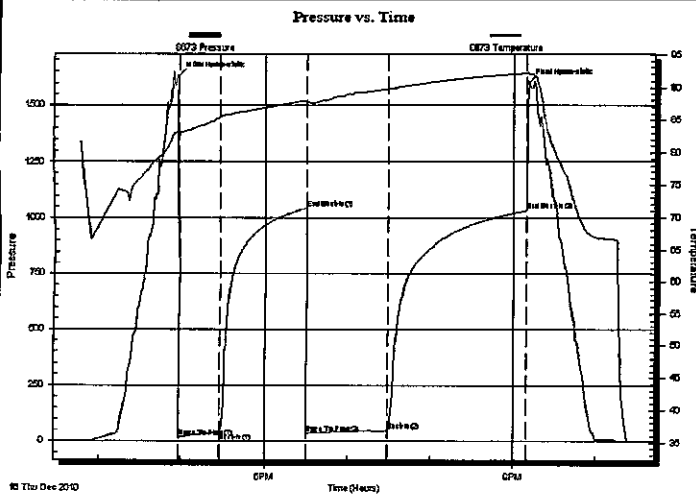
Interval: **3265.00 ft (KB) To 3340.00 ft (KB) (TVD)**  
Total Depth: **2968.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1992.00 ft (KB)**  
**1987.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8673**      **Inside**  
Press@RunDepth: **49.53 psig @ 3336.00 ft (KB)**  
Start Date: **2010.12.16**      End Date: **2010.12.16**  
Start Time: **15:47:13**      End Time: **22:23:11**

Capacity: **8000.00 psig**  
Last Calib.: **2010.12.16**  
Time On Btm: **2010.12.16 @ 16:57:41**  
Time Off Btm: **2010.12.16 @ 21:10:26**

**TEST COMMENT:** IFP-Weak Blow , Built to 3-1/2"  
ISI-Dead  
FP-Weak Blow , Built to 2-1/2"  
FSI-Dead



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.89	83.28	Initial Hydro-static
1	17.40	82.27	Open To Flow (1)
30	36.03	85.49	Shut-In(1)
93	1042.36	87.97	End Shut-In(1)
93	37.18	87.47	Open To Flow (2)
151	49.53	89.71	Shut-In(2)
252	1032.52	92.17	End Shut-In(2)
253	1599.24	92.23	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	Drilling Mud	0.64

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite 300  
Wichita, KS 67202  
ATTN: Rocky Milford

9-10s-14w Osborne, KS  
Job Ticket: 41280      DST#: 3  
Test Start: 2010.12.16 @ 15:47:11

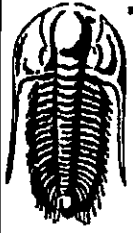
**Tool Information**

Drill Pipe:	Length: 3235.00 ft	Diameter: 3.80 inches	Volume: 45.38 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume: 45.53 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3265.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.00 ft				
Tool Length:	96.00 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			3245.00	
Shut In Tool	5.00			3250.00	
Hydraulic tool	5.00			3255.00	
Packer	5.00			3260.00	21.00      Bottom Of Top Packer
Packer	5.00			3265.00	
Stubb	1.00			3266.00	
Perforations	5.00			3271.00	
Change Over Sub	1.00			3272.00	
Blank Spacing	63.00			3335.00	
Change Over Sub	1.00			3336.00	
Recorder	0.00	8673	Inside	3336.00	
Recorder	0.00	6668	Outside	3336.00	
Perforations	1.00			3337.00	
Bullnose	3.00			3340.00	75.00      Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Company Inc

Janet #1-9

250 N Water  
Suite300  
Wichita,KS 67202  
ATTN: Rocky Milford

9-10s-14w Osborne,KS  
Job Ticket: 41280      DST#: 3  
Test Start: 2010.12.16 @ 15:47:11

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	10500 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

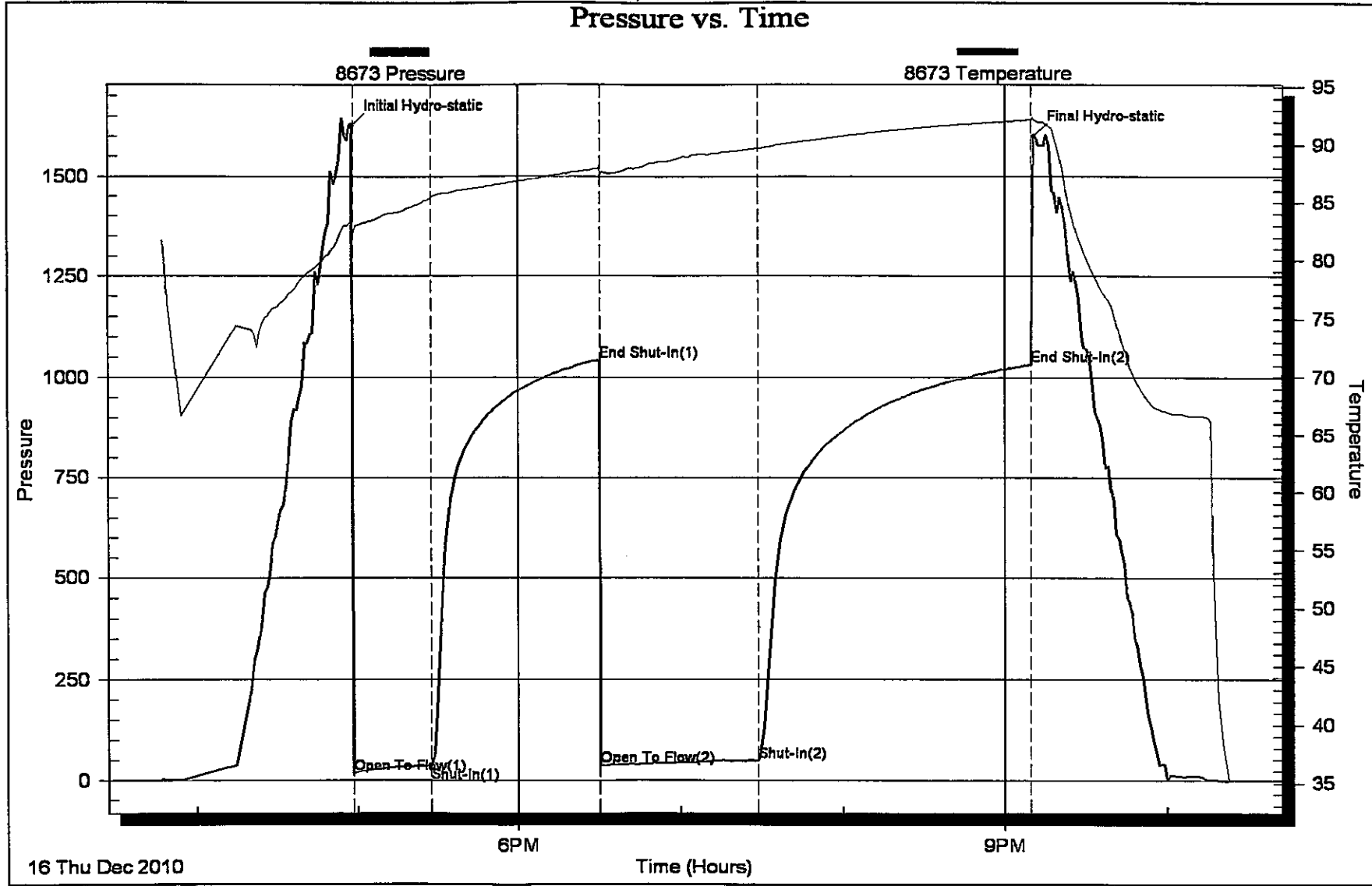
Length ft	Description	Volume bbl
65.00	Drilling Mud	0.638

Total Length: 65.00 ft      Total Volume: 0.638 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



16 Thu Dec 2010