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KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
June 2009

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

OPERATOR: License # 6030  
Name: Ainsworth Operating Co.  
Address 1: 4676 Commercial Street SE, #412  
Address 2:  
City: Salem State: OR Zip: 97302 +  
Contact Person: Al Ainsworth  
Phone: ( 503 ) 881-4357  
CONTRACTOR: License # 33350  
Name: Southwind Drilling Co.  
Wellsite Geologist: Randy Killian  
Purchaser:

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SLOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.):

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

Well Name:

Original Comp. Date: Original Total Depth:  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

9/4/12 9/11/12 9/11/12  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 185-23760-00-00

Spot Description:  
NW NE NE Sec. 7 Twp. 22 S. R. 11  East  West  
330 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: Stafford

Lease Name: Hammeke "C" Well #: 4

Field Name: Max

Producing Formation:

Elevation: Ground: 1785 Kelly Bushing: 1795

Total Depth: 3675 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 305 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

(Data must be collected from the Reserve Pit)

Chloride content: 88k ppm Fluid volume: 700 bbls

Dewatering method used: evaporation

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: [Handwritten Signature]

Title: vice president Date: 11/28/12

KCC Office Use ONLY

Letter of Confidentiality Received  
Date:  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Handwritten Signature] Date: 12/4/12

Operator Name: Ainsworth Operating Co. Lease Name: Hammeke "C" Well #: 4  
 Sec. 7 Twp. 22 S. R. 11  East  West County: Stafford

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Dual Compensated Porosity, Microresistivity</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>530</td> <td>1265</td> </tr> <tr> <td>Heebner Shale</td> <td>3074</td> <td>-1279</td> </tr> <tr> <td>Toronto</td> <td>3091</td> <td>-1296</td> </tr> <tr> <td>Lansing</td> <td>3230</td> <td>-1435</td> </tr> <tr> <td>BKc.</td> <td>3470</td> <td>-1675</td> </tr> <tr> <td>Viola</td> <td>3498</td> <td>-1703</td> </tr> <tr> <td>Arbuckle</td> <td>3601</td> <td>-1806</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	530	1265	Heebner Shale	3074	-1279	Toronto	3091	-1296	Lansing	3230	-1435	BKc.	3470	-1675	Viola	3498	-1703	Arbuckle	3601	-1806
Name	Top	Datum																							
Anhydrite	530	1265																							
Heebner Shale	3074	-1279																							
Toronto	3091	-1296																							
Lansing	3230	-1435																							
BKc.	3470	-1675																							
Viola	3498	-1703																							
Arbuckle	3601	-1806																							

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	12 1/4"	8 5/8"	23	305'	common	300	

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

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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

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

No. 5046

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

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

Date	9-5-12	Sec.	7	Twp.	22	Range	11	County	Stafford	State	Ks	On Location		Finish	11:00 AM
Lease	Hammeke C			Well No.	4			Location Ike + Jo's - 1E, S/Into							

Contractor	Southwind #6			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	Surface			T.D.	305'			Charge To	Ainsworth operating						
Hole Size	12 1/4"			Depth	305'			Street							
Csg.	8 5/8"			Depth				City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15'			Shoe Joint	15'			Cement Amount Ordered	300 5x Common 3 1/2 CC						
Meas Line				Displace	18 1/4 BLS			2% Gel 1/2# Flt-seal							

**EQUIPMENT**

Pumptrk	5	No.	Cementer	Brett	Common	300
Bulktrk	12	No.	Driver	Douxy	Poz. Mix	
Bulktrk	14	No.	Driver	Rick	Gel.	6
			Driver		Calcium	11

**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate.					
Rat Hole	Salt					
Mouse Hole	Flowseal 150#					
Centralizers	Kol-Seal					
Baskets	Mud CLR 48					
D/V or Port Collar	CFL-117 or CD110 CAF 38					
	Sand					
	Handling 317					
	Mileage					

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	25

X Signature *[Signature]*

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Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

No. 5357

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

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-11-12	7	22	11	Stafford	Ks		4:15 Am

Lease Hammcke C Well No. 4 Location Ike + Jo's - 1 1/2 E, S/into

Contractor Southwind #6 Owner To Quality Oilwell Cementing, Inc.

Type Job Plug 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 7 7/8" T.D. 3675' Charge To Ainsworth operating

Csg. \_\_\_\_\_ Depth \_\_\_\_\_ Street \_\_\_\_\_

Tbg. Size 4 1/2" D.P. Depth 3565' City \_\_\_\_\_ State \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. \_\_\_\_\_ Shoe Joint \_\_\_\_\_ Cement Amount Ordered 200 SX 60/40 40% Gel

Meas Line \_\_\_\_\_ Displace H2O/mud Cement Amount Ordered 200 SX 60/40 40% Gel

EQUIPMENT		
Pumptrk	5 No.	Cementer <u>Brett</u>
		Helper _____
Bulktrk	14 No.	Driver <u>Lonnie</u>
		Driver _____
Bulktrk	p.m. No.	Driver <u>Rick</u>
		Driver _____

**JOB SERVICES & REMARKS**

Remarks:	1/4 # Flo-seal
Rat Hole	Common <u>120</u>
Mouse Hole	Poz. Mix <u>80</u>
Centralizers	Gel. <u>7</u>
Baskets	Calcium _____
D/V or Port Collar	Hulls _____
<u>3565' - 50 SX</u>	Salt _____
<u>620' - 50 SX</u>	Flowseal <u>50#</u>
<u>310' - 50 SX</u>	Kol-Seal _____
<u>60' - 20 SX</u>	Mud CLR 48 _____
<u>Rathole - 30 SX</u>	CFL-117 or CD110 CAF 38 _____
	Sand _____
	Handling <u>207</u>
	Mileage _____

**FLOAT EQUIPMENT**

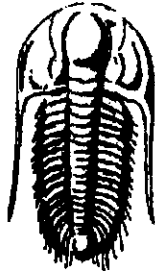
	Guide Shoe _____
	Centralizer _____
	Baskets _____
	AFU Inserts _____
	Float Shoe _____
	Latch Down _____

Pumptrk Charge plug  
Mileage 25

	Tax _____
	Discount _____
	Total Charge _____

Signature [Signature]

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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Ainsworth Operating Co.**

4676 Commercial St S.E. #412  
Salem OR 97302

ATTN: Randy Kilian

**Hammeke C #4**

**7-22s-11w Stafford KS**

Start Date: 2012.09.09 @ 18:55:53

End Date: 2012.09.10 @ 02:25:38

Job Ticket #: 49604                      DST #: 1

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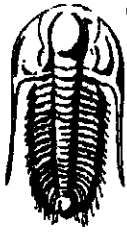
Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.13 @ 15:27:43

Ainsworth Operating Co. 7-22s-11w Stafford KS Hammeke C #4 DST # 1 Simpson Sd. 2012.09.09

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**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Ainsworth Operating Co.  
4676 Commercial St S.E. #412  
Salem OR 97302  
ATTN: Randy Kilian

7-22s-11w Stafford KS  
**Hammeke C #4**  
Job Ticket: 49604      DST#: 1  
Test Start: 2012.09.09 @ 18:55:53

**GENERAL INFORMATION:**

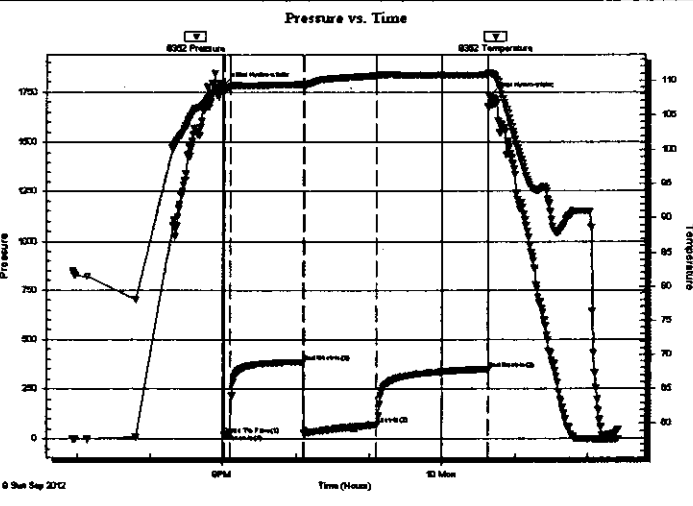
Formation: **Simpson Sd.**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:00:53  
Time Test Ended: 02:25:38  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gary Pevoteaux  
Unit No: 56  
Interval: **3529.00 ft (KB) To 3555.00 ft (KB) (TVD)**  
Total Depth: 3555.00 ft (KB) (TVD)  
Reference Elevations: 1795.00 ft (KB)  
1787.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
KB to GR/CF: 8.00 ft

**Serial #: 8352**

Outside

Press@RunDepth: 73.84 psig @ 3530.00 ft (KB)  
Start Date: 2012.09.09      End Date: 2012.09.10  
Start Time: 18:55:58      End Time: 02:25:37  
Capacity: 8000.00 psig  
Last Calib.: 2012.09.10  
Time On Btm: 2012.09.09 @ 20:59:23  
Time Off Btm: 2012.09.10 @ 00:38:53

TEST COMMENT: IF:Weak blow . 1/4 - 2 1/4".  
IS:No blow .  
FFLWeak blow . 1/4 - 3 1/2".  
FSI:No blow .



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.97	109.13	Initial Hydro-static
2	18.49	108.70	Open To Flow (1)
7	27.21	109.10	Shut-In(1)
67	386.17	109.47	End Shut-In(1)
67	27.28	109.32	Open To Flow (2)
127	73.84	110.74	Shut-In(2)
219	347.15	110.81	End Shut-In(2)
220	1731.43	111.09	Final Hydro-static


**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	Thin layer of clean oil (2 - 3")	0.00
75.00	WWw oil specs 36%w 64%m	1.05
60.00	MV 30%m 70%w / Rw .15ohms@60deg	0.84

**Gas Rates**

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



 <p><b>TRILOBITE TESTING, INC.</b></p>	<p><b>DRILL STEM TEST REPORT</b></p>	<p><b>KCC WICHITA</b></p>	<p><b>TOOL DIAGRAM</b></p>
	<p>Ainsworth Operating Co. 4676 Commercial St S.E. #412 Salem OR 97302 ATTN: Randy Kilian</p>	<p>7-22s-11w Stafford KS Hammeke C #4 Job Ticket: 49604 Test Start: 2012.09.09 @ 18:55:53</p>	<p>DST#: 1</p>

**Tool Information**

Drill Pipe: Length: 3516.00 ft	Diameter: 3.80 inches	Volume: 49.32 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe: Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar: Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
Total Volume: 49.32 bbl			Tool Chased 0.00 ft
Drill Pipe Above KB: 10.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer: 3529.00 ft			Final 40000.00 lb
Depth to Bottom Packer: ft			
Interval between Packers: 26.00 ft			
Tool Length: 49.00 ft			
Number of Packers: 2	Diameter: 6.75 inches		

Tool Comments:

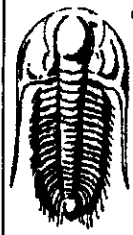
**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3507.00		
Shut in tool	5.00			3512.00		
HMV	5.00			3517.00		
Safety Joint	3.00			3520.00		
Packer	4.00			3524.00	23.00	Bottom Of Top Packer
Packer	5.00			3529.00		
Stubb	1.00			3530.00		
Recorder	0.00	8370	Inside	3530.00		
Recorder	0.00	8352	Outside	3530.00		
Perforations	20.00			3550.00		
Bullnose	5.00			3555.00	26.00	Bottom Packers & Anchor

**Total Tool Length: 49.00**



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**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT FLUID SUMMARY**

Ainsworth Operating Co. 7-22s-11w Stafford KS  
 4676 Commercial St S.E. #412 Hammeke C #4  
 Salem OR 97302 Job Ticket: 49604 DST#: 1  
 ATTN: Randy Kilian Test Start: 2012.09.09 @ 18:55:53

**Mud and Cushion Information**

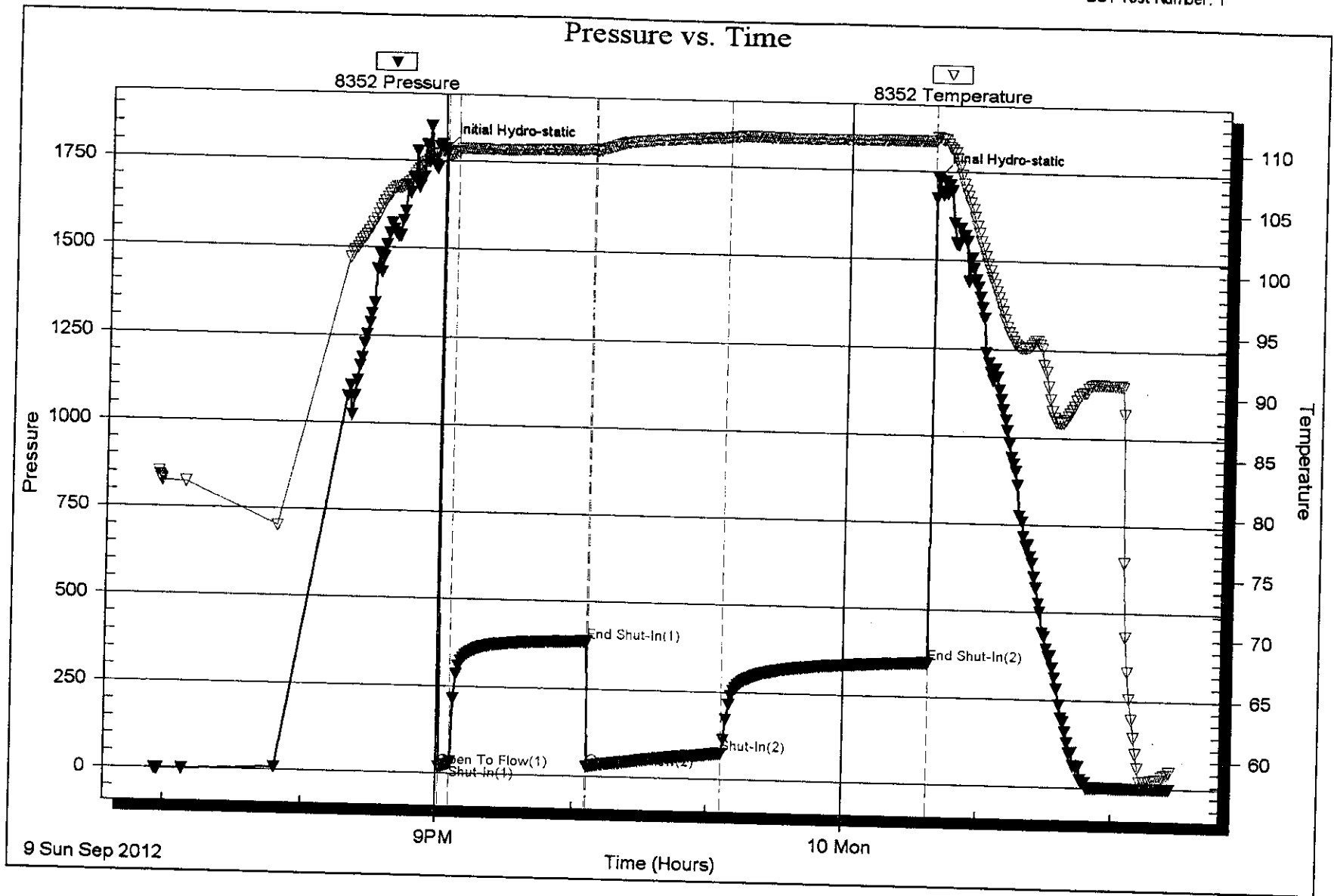
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	61000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 0.20 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	Thin layer of clean oil (2 - 3")	0.000
75.00	WMW oil specs 36%w 64%m	1.052
60.00	MW 30%m 70%w / Rw .15ohms@60deg	0.842

Total Length: 135.00 ft Total Volume: 1.894 bbl  
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none  
 Laboratory Name: Laboratory Location:  
 Recovery Comments:



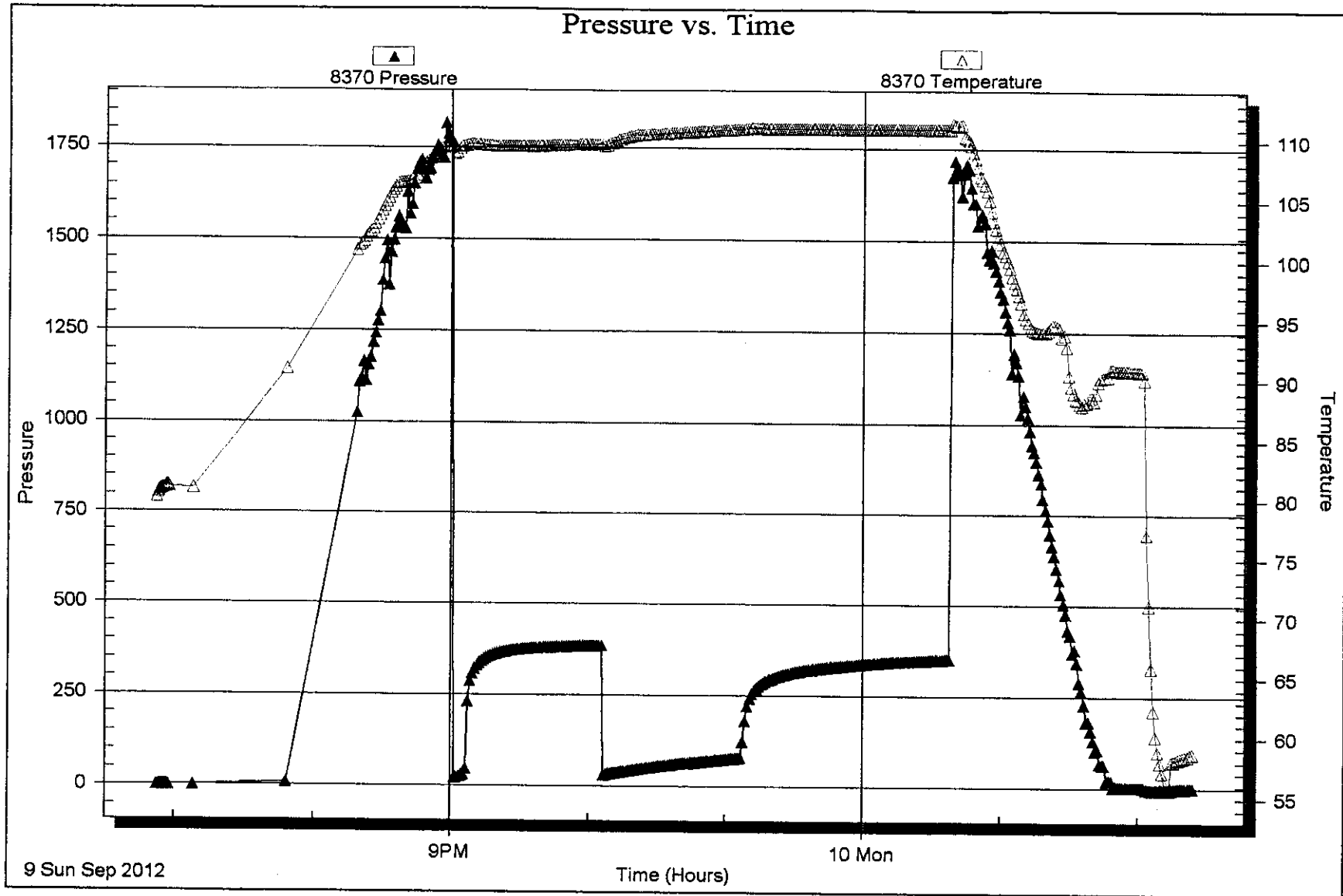
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Serial #: 8370

Inside Ainsworth Operating Co.

Hammke C#4

DST Test Number: 1



Trilobite Testing, Inc

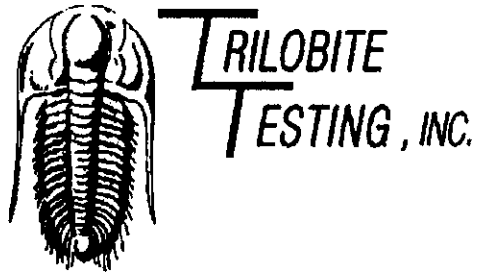
Ref. No: 49604

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## DRILL STEM TEST REPORT

Prepared For: **Ainsworth Operating Co.**

4676 Commercial St S.E. #412  
Salem OR 97302

ATTN: Randy Kilian

**Hammeke C #4**

**7-22s-11w Stafford KS**

Start Date: 2012.09.10 @ 16:01:02

End Date: 2012.09.10 @ 22:25:47

Job Ticket #: 49605                      DST #: 2

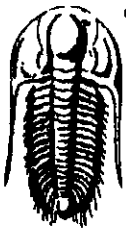
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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 15:26:56



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

**KCC WICHITA**

Ainsworth Operating Co.  
4676 Commercial St S.E. #412  
Salem OR 97302  
ATTN: Randy Kilian

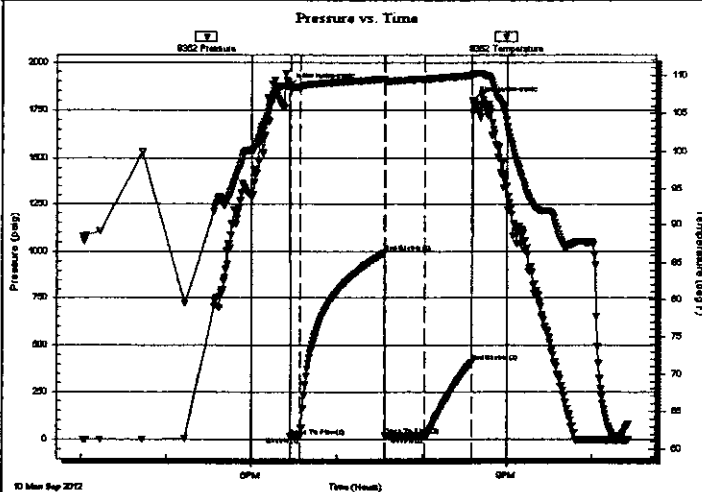
7-22s-11w Stafford KS  
**Hammeke C #4**  
Job Ticket: 49605      DST#: 2  
Test Start: 2012.09.10 @ 16:01:02

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 18:27:17  
Time Test Ended: 22:25:47  
Interval: **3606.00 ft (KB) To 3619.00 ft (KB) (TVD)**  
Total Depth: 3675.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1795.00 ft (KB)  
1787.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8352      Outside**  
Press@RunDepth: 18.16 psig @ 3607.00 ft (KB)  
Start Date: 2012.09.10      End Date: 2012.09.10  
Start Time: 16:01:07      End Time: 22:25:46  
Capacity: 8000.00 psig  
Last Calib.: 2012.09.10  
Time On Btm: 2012.09.10 @ 18:26:02  
Time Off Btm: 2012.09.10 @ 20:35:47

TEST COMMENT: IF:Weak blow . 1/4".  
IS:No blow .  
FF:No blow .  
FSI:No blow .



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.26	108.68	Initial Hydro-static
2	17.38	108.18	Open To Flow (1)
8	17.46	108.48	Shut-In(1)
68	993.53	109.52	End Shut-In(1)
68	19.09	109.07	Open To Flow (2)
96	18.16	109.52	Shut-In(2)
129	410.74	109.97	End Shut-In(2)
130	1799.75	110.21	Final Hydro-static

**Recovery**

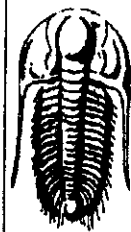
Length (ft)	Description	Volume (bbl)
10.00	Drig.mud	0.14

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT KCC WICHITA**

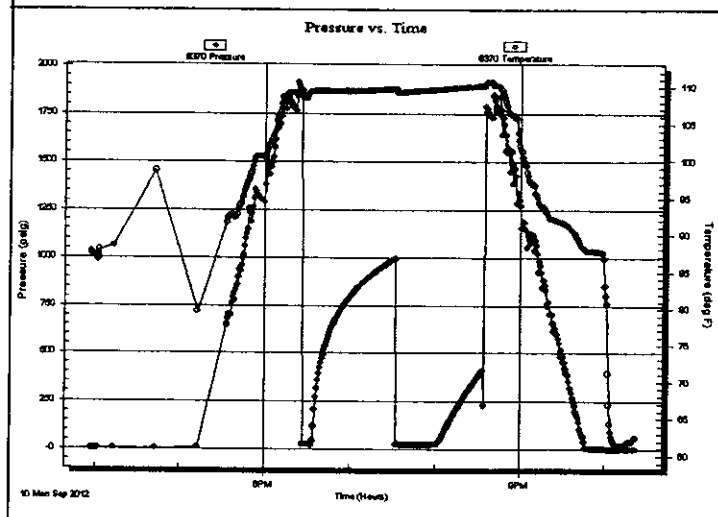
Ainsworth Operating Co. **7-22s-11w Stafford KS**  
 4676 Commercial St S.E. #412 **Hammeke C #4**  
 Salem OR 97302 Job Ticket: 49605 **DST#: 2**  
 ATTN: Randy Kilian Test Start: 2012.09.10 @ 16:01:02

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 18:27:17 Tester: Gary Pevoteaux  
 Time Test Ended: 22:25:47 Unit No: 56  
 Interval: **3606.00 ft (KB) To 3619.00 ft (KB) (TVD)** Reference Elevations: 1795.00 ft (KB)  
 Total Depth: 3675.00 ft (KB) (TVD) 1787.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8370 Inside**  
 Press@RunDepth: psig @ 3607.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.10 End Date: 2012.09.10 Last Calib.: 2012.09.10  
 Start Time: 15:56:32 End Time: 22:22:26 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:Weak blow . 1/4".  
 IS:No blow .  
 FF:No blow .  
 FS:No blow .



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

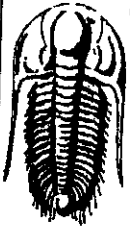
**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	Drig.mud	0.14

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT KCC WICHITA**

**TOOL DIAGRAM**

Ainsworth Operating Co.  
4676 Commercial St S.E. #412  
Salem OR 97302  
ATTN: Randy Kilian

7-22s-11w Stafford KS  
Hammeke C #4  
Job Ticket: 49605      DST#: 2  
Test Start: 2012.09.10 @ 16:01:02

**Tool Information**

Drill Pipe:	Length: 3608.00 ft	Diameter: 3.80 inches	Volume: 50.61 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 50.61 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3606.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3619.00 ft			
Interval between Packers:	13.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

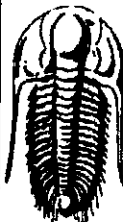
**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3584.00	
Shut in tool	5.00			3589.00	
HMV	5.00			3594.00	
Safety Joint	3.00			3597.00	
Packer	4.00			3601.00	23.00      Bottom Of Top Packer
Packer	5.00			3606.00	
Stubb	1.00			3607.00	
Recorder	0.00	8370	Inside	3607.00	
Recorder	0.00	8352	Outside	3607.00	
Perforations	8.00			3615.00	
Blank Off Sub	1.00			3616.00	
T.C.	3.00			3619.00	13.00      Tool Interval
Packer	0.00			3619.00	
Stubb	1.00			3620.00	
Recorder	0.00	8649	Below	3620.00	
Perforations	18.00			3638.00	
Blank Spacing	32.00			3670.00	
Bullnose	5.00			3675.00	56.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>92.00</b>				



NOV 30 2012

KCC WICHITA

 <p><b>TRILOBITE TESTING, INC.</b></p>	<p><b>DRILL STEM TEST REPORT</b></p>	<p><b>FLUID SUMMARY</b></p>
	<p>Ainsworth Operating Co. 4676 Commercial St S.E. #412 Salem OR 97302 ATTN: Randy Kilian</p>	<p>7-22s-11w Stafford KS Hammeke C #4 Job Ticket: 49605      DST#: 2 Test Start: 2012.09.10 @ 16:01:02</p>

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	11000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 0.20 inches			

**Recovery Information**

Recovery Table

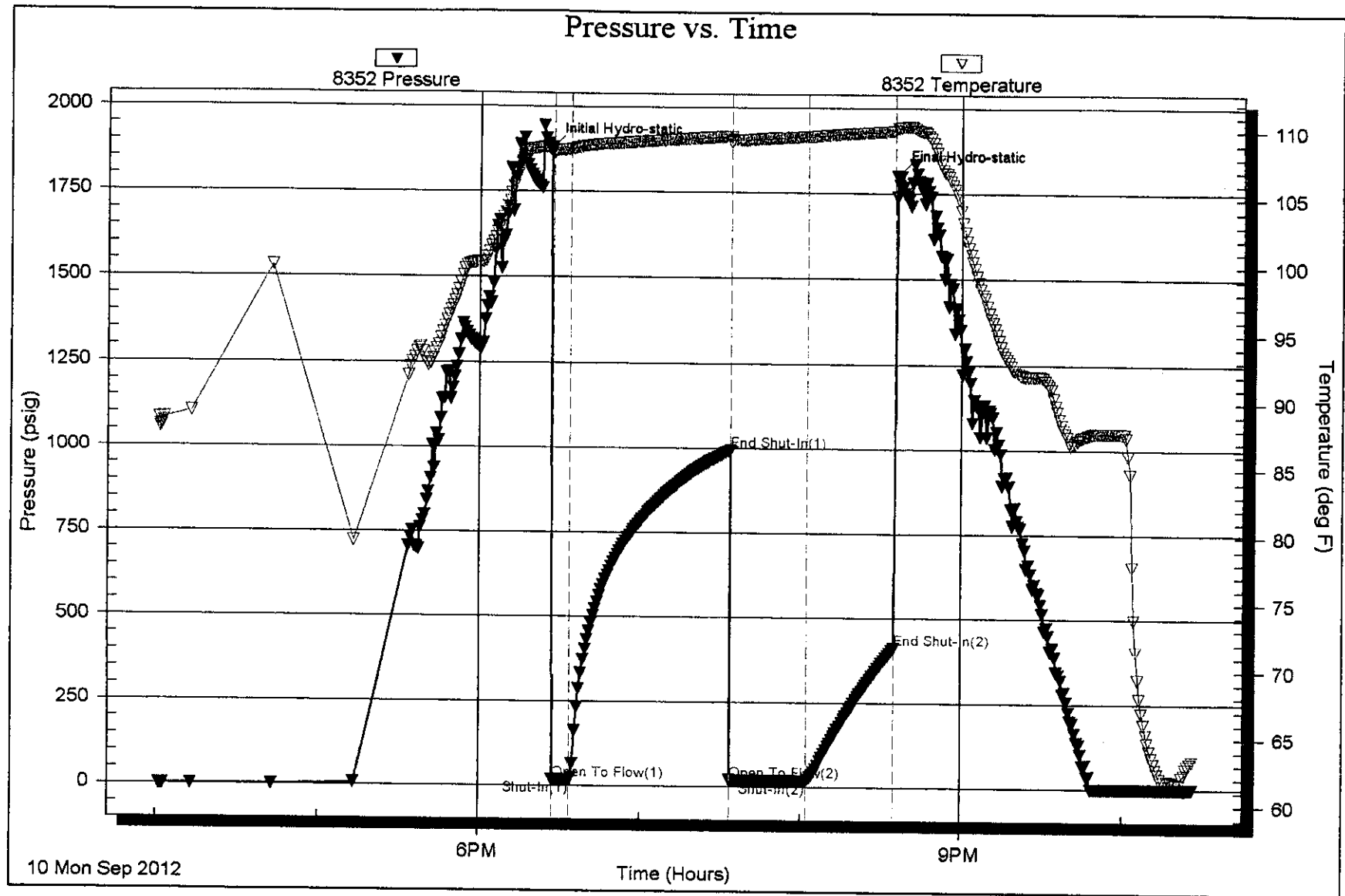
Length ft	Description	Volume bbl
10.00	Drig.mud	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:



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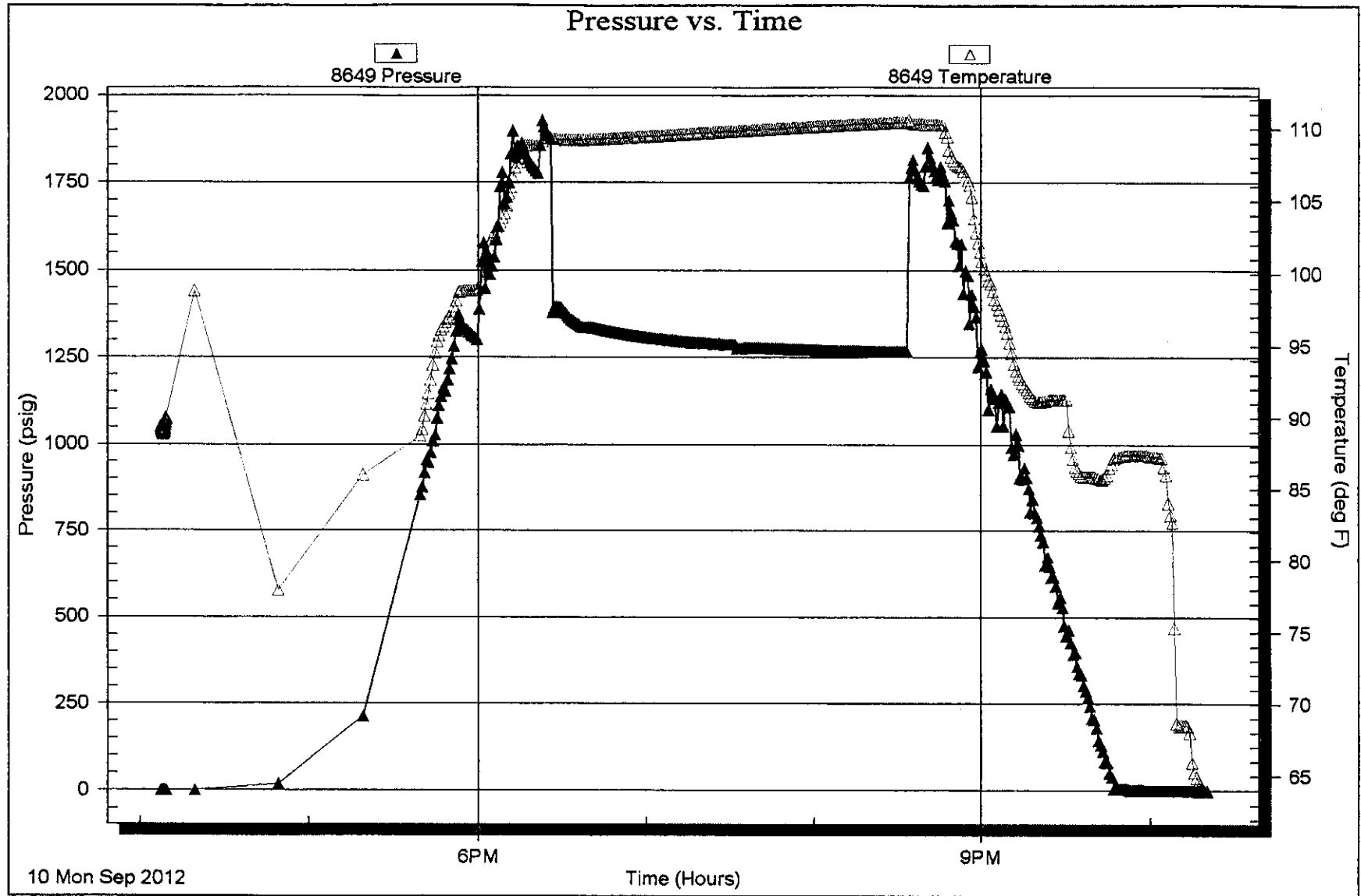
KCC WICHITA

Serial #: 8649

Below (Strat) North Operating Co.

Hammeke C#4

DST Test Number: 2



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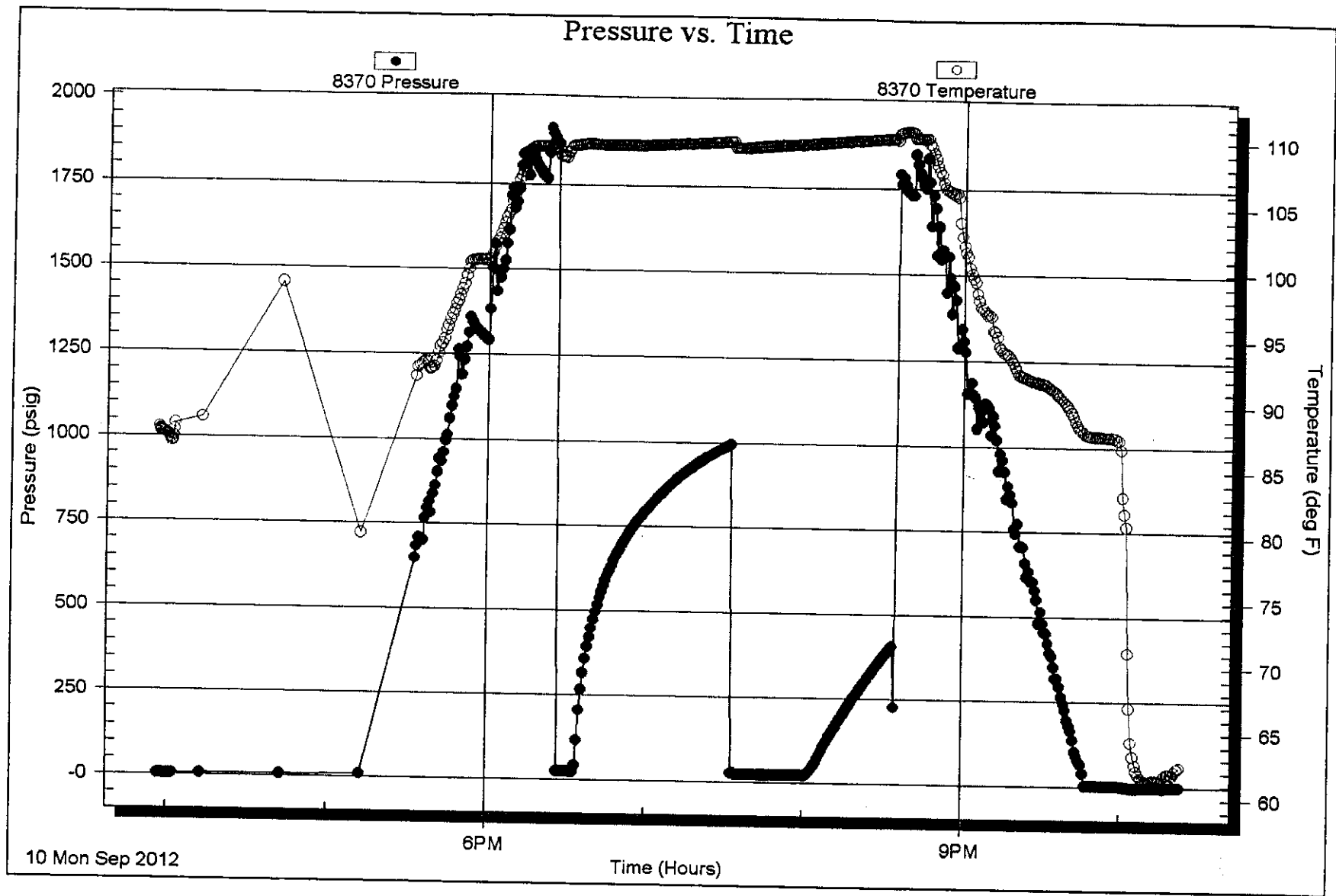
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Trilobite Testing, Inc

Ref. No: 49605

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