

1-31-08

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 32811  
Name: Osage Resources, L.L.C.  
Address: 6209 N. K61 Hwy.  
City/State/Zip: Hutchinson, Kansas 67502  
Purchaser: OneOK  
Operator Contact Person: Benjamin W. Crouch  
Phone: ( 620 ) 664-9622  
Contractor: Name: D & B Drilling  
License: 33789  
Wellsite Geologist: \_\_\_\_\_

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Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     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: 11/28/2006 Original Total Depth: 5420  
 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. \_\_\_\_\_

<u>10/21/2006</u>	<u>11/8/2006</u>	<u>11/28/2006</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 007230710000  
County: Barber  
NE SW NW Sec. 31 Twp. 32 S. R. 14  East  West  
1718 feet from S  (circle one) Line of Section  
1210 feet from E  (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE  (NW) SW  
Lease Name: Osage Well #: 103  
Field Name: Aetna Gas Area  
Producing Formation: Simpson  
Elevation: Ground: 1951 Kelly Bushing: 1958  
Total Depth: 5420 Plug Back Total Depth: 5397  
Amount of Surface Pipe Set and Cemented at 214' 8 5/8" Circ. Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 3906 Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan AIT INH 10-7-08  
(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 **RECEIVED**  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ East West  
County: \_\_\_\_\_ Docket No.: **FEB 01 2007**

KCC WICHITA

**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: Benjamin W. Crouch  
Title: Vice President Date: 1/31/2007

Subscribed and sworn to before me this 31 day of January  
19 2007  
Notary Public: Linda Murdock  
Date Commission Expires: 1-24-10



**KCC Office Use ONLY**

Y Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Osage Resources, L.L.C. Lease Name: Osage Well #: 103  
 Sec. 31 Twp. 32 S. R. 14 East  West County: Barber

**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  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

Density/Neutron, Induction

Log Formation	Top	Datum
Lensing	-2308	MSL
BKC	-2739	MSL
Marmaton	-2773	MSL
Mississippian	-4835	MSL
Kinderhook	-3039	MSL
Viola	-3218	MSL

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CASING RECORD							
				New	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#	214'	60/40 Poz	175	2% gel, 3% CC
Intermediate							
Production	7 7/8"	5 1/2"	15.5#	5397'	AA2 Cement/50:50 Poz	730	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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
6	5332 to 5338'	1000 gal acid, 15,000# Sand	

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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	5250'		Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
12/1/2006	Flowing <input checked="" type="checkbox"/> Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	<1	65	NA	NA

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



**TREATMENT REPORT**

Customer <i>Range Resources</i>	Lease No.	Date <i>11-8-06</i>	
Lease <i>Range <del>1000</del></i>	Well # <i>103</i>		
Field Order # <i>15229</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>	Depth
Type Job <i>5 1/2" 2 stage New Well</i>	Formation	County <i>Barber</i>	State <i>Ks.</i>
		Legal Description <i>31-32S-14W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft	<i>1st Stage</i>	Acid <i>260 sk. AA2</i>		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad <i>1.50 ft<sup>3</sup></i>	Max	<b>KCC</b>		5 Min.
Volume	Volume	From	To	Pad <i>2nd Stage 450 sk. 50/60oz</i>	Min	<b>JAN 31 2007</b>		10 Min.
Max Press	Max Press	From	To	Frac <i>1.58 ft<sup>3</sup></i>	Avg	<b>CONFIDENTIAL</b>		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>Jeff Dale</i>	Station Manager <i>Dave Scott</i>	Treater <i>Bobby Drake</i>
Service Units <i>123 226 346 570 347 501</i>		
Driver Names <i>Diak Anthony Lathane Bates</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0645</i>					<i>On location - Safety Meeting</i>
<i>1230</i>					<i>Run Csg. -</i>
<i>1600</i>					<i>Csg. on bottom</i>
<i>1610</i>					<i>Hook up to Csg. - Break Circ. w/ Rig</i>
<i>1645</i>	<i>1400</i>				<i>Set Packer Shoe w/ Tool.</i>
<i>1647</i>	<i>350</i>		<i>5</i>	<i>4.5</i>	<i>H2O Ahead</i>
<i>1649</i>	<i>350</i>		<i>12</i>	<i>4.5</i>	<i>Super Flush II</i>
<i>1651</i>	<i>350</i>		<i>5</i>	<i>4.5</i>	<i>H2O Spacer</i>
<i>1652</i>	<i>300</i>		<i>80</i>	<i>4.5</i>	<i>Mix Cont. @ 14.8 gal</i>
<i>1718</i>					<i>Release Plug - Clear Pump &amp; Lines</i>
<i>1727</i>	<i>100</i>			<i>5.5</i>	<i>Start H2O Disp.</i>
<i>1742</i>	<i>150</i>		<i>50</i>	<i>5.5</i>	<i>Start Mud Disp.</i>
<i>1752</i>	<i>300</i>		<i>42</i>	<i>5.2</i>	<i>Lift Pressure</i>
<i>1800</i>	<i>1500</i>		<i>130.5</i>		<i>Plug Down</i>
<i>1821</i>	<i>800</i>				<i>Open D.V. Tool</i>
<i>1835</i>					<i>Circ.</i>
					<i>1st Stage Complete</i>

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**TREATMENT REPORT**

Customer <i>Osage Resources</i>	Lease No.	Date <i>11-8-06</i>
Lease <i>Osage</i>	Well # <i>103</i>	
Field Order # <i>15229</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>
Type Job <i>5 1/2 2stage New Well</i>	Formation	Legal Description <i>31-325-14w</i>
	Depth	County <i>Barber</i>
		State <i>Ks.</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	<i>48% HCl 50/soloz</i>	Max	<b>KCC</b>	5 Min.	
Volume	Volume	From	To	Pre Pad <i>1.58 ft<sup>3</sup></i>	Min	<b>JAN 31 2007</b>	10 Min.	
Max Press	Max Press	From	To	Pad	Avg	<b>CONFIDENTIAL</b>	15 Min.	
Well Connection	Annulus Vol.	From	To	Frac	HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Teff Dale</i>	Station Manager <i>Dave Scott</i>	Treater <i>Bobby Drake</i>
Service Units <i>123</i>	<i>226</i>	<i>346</i>
Driver Names <i>Drake Anthony</i>	<i>LaChance</i>	<i>Boles</i>
	<i>510</i>	<i>521</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2137</i>	<i>300</i>		<i>5</i>	<i>4.0</i>	<i>H2O Ahead</i>
<i>2138</i>	<i>300</i>		<i>12</i>	<i>4.0</i>	<i>Super Flush II</i>
<i>2142</i>	<i>300</i>		<i>5</i>	<i>4.0</i>	<i>H2O spacer</i>
<i>2144</i>	<i>300</i>		<i>130</i>	<i>4.0</i>	<i>Mix Cont. @ 13.2#/gal</i>
<i>2215</i>					<i>Release Plug - Clear Pump &amp; Lines</i>
<i>2219</i>	<i>150</i>			<i>5.0</i>	<i>Start Disp.</i>
<i>2227</i>	<i>350</i>		<i>37</i>	<i>5.0</i>	<i>Lift Pressure</i>
<i>2238</i>	<i>1500</i>		<i>94</i>		<i>Plug Down - Did not hold - Shut in at Wellhead</i>
<i>2255</i>			<i>4</i>		<i>Plug Rat Hole</i>
					<i>Corrosion Treatment Job</i>
					<i>Job Complete</i>
					<i>Thanks, Bobby</i>

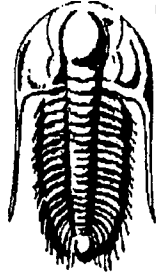
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Customer <b>OSAGE RESOURCES LLC</b>	Lease No. <b>OSAGE</b>	Date <b>10-21-06</b>
Lease <b>OSAGE</b>	Well # <b>103</b>	
Field Order # <b>14177</b>	Station <b>PRATT, KS</b>	Casing <b>8 5/8</b>
Type Job <b>SURFACE - MIN</b>	Depth <b>213'</b>	County <b>BARBER</b>
	Formation	State <b>KS</b>
		Legal Description <b>31-32-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8</b>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth <b>213'</b>	Depth	From	To	Pre Pad	<b>KCC</b>		5 Min.	
Volume	Volume	From	To	Pad	<b>JAN 31 2007</b>		10 Min.	
Max Press	Max Press	From	To	Frac	<b>CONFIDENTIAL</b>		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <b>JEFF</b>	Station Manager <b>SCOTT</b>	Treater <b>CORDLEY</b>
Service Units <b>120 226 303 571</b>		
Driver Names <b>KC HAN MCCANN</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>2300</b>					<b>ON LOCATION 10/20/06</b>
					<b>RUN 213 8 5/8 CSB.</b>
					<b>BRAND CONC.</b>
					<b>INDEX CEMENT</b>
<b>0000</b>	<b>150</b>		<b>39</b>	<b>5</b>	<b>175 SL 60/40 P02</b>
					<b>2% GEL, 3% CC, 1/4" CELL FINISH</b>
					<b>STOP - RELEASE PLUG</b>
	<b>0</b>		<b>0</b>	<b>5</b>	<b>START DISP.</b>
<b>0030</b>	<b>150</b>		<b>12</b>	<b>5</b>	<b>PLUG DOWN</b>
					<b>RECEIVED</b>
					<b>FEB 01 2007</b>
					<b>KCC WICHITA</b>
<b>0100</b>					<b>JOB COMPLETE - THANKS - KEVIN</b>



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.10.24 @ 17:52:38

End Date: 2006.10.25 @ 06:03:08

Job Ticket #: 25480                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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1-3/08



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

ATTN: Jeff Dale

Job Ticket: 25480      **DST#: 1**  
Test Start: 2006.10.24 @ 17:52:38

**GENERAL INFORMATION:**

Formation: **Krider**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 21:30:38  
Time Test Ended: 06:03:08

Test Type: **Conventional Bottom Hole**  
Tester: **Davy Cline/ Zach Sto**  
Unit No: **23**

Interval: **2316.00 ft (KB) To 2348.00 ft (KB) (TVD)**  
Total Depth: **2348.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1958.00 ft (KB)**  
**1951.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

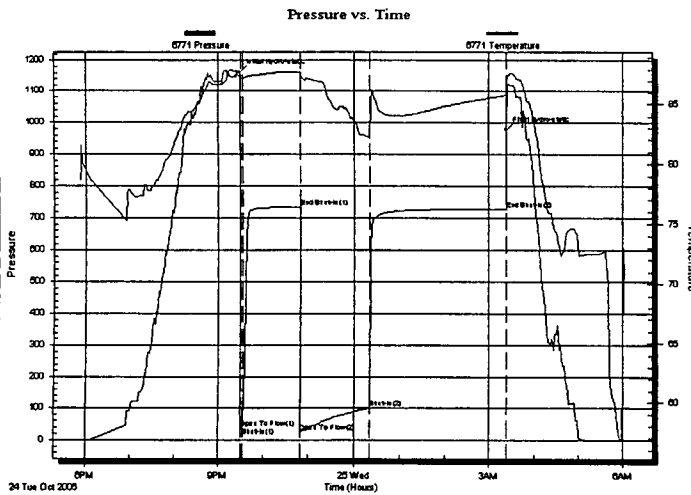
**Serial #: 6771**

**Inside**

Press@RunDepth: **99.87 psig @ 2317.00 ft (KB)**  
Start Date: **2006.10.24** End Date: **2006.10.25**  
Start Time: **17:52:43** End Time: **06:03:08**

Capacity: **7000.00 psig**  
Last Calib.: **2006.10.25**  
Time On Btm: **2006.10.24 @ 21:28:53**  
Time Off Btm: **2006.10.25 @ 03:21:53**

**TEST COMMENT:** IF Fair to strong blow BOB 3 min.  
ISI Bled off No blow back  
FF Strong blow BOB Immediately GTS 10 min. Gauged gas  
FSI Bled off No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1161.65	87.38	Initial Hydro-static
2	36.00	87.15	Open To Flow (1)
5	38.71	87.24	Shut-In(1)
81	733.89	87.71	End Shut-In(1)
82	23.21	87.48	Open To Flow (2)
172	99.87	82.15	Shut-In(2)
353	729.38	85.71	End Shut-In(2)
354	977.71	86.95	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
80.00	GCWM 10%G 50%W 40%M	0.39
0.00	Gas in all fluid free pipe	0.00

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	45.00	94.23
Max. Gas Rate	0.25	45.00	94.23

*[Handwritten signature]*



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25480

**DST#: 1**

ATTN: Jeff Dale

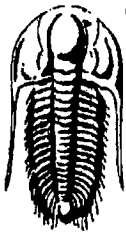
Test Start: 2006.10.24 @ 17:52:38

**Tool Information**

Drill Pipe:	Length: 2093.00 ft	Diameter: 3.25 inches	Volume: 21.48 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 22.64 bbl		Tool Chased 8.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	2316.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 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			2296.00	
Shut In Tool	5.00			2301.00	
Hydraulic tool	5.00			2306.00	
Packer	5.00			2311.00	21.00 Bottom Of Top Packer
Packer	5.00			2316.00	
Stubb	1.00			2317.00	
Recorder	0.00	6771	Inside	2317.00	
Perforations	26.00			2343.00	
Recorder	0.00	13789	Outside	2343.00	
Bullnose	5.00			2348.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>53.00</b>				





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25480

**DST#: 1**

ATTN: Jeff Dale

Test Start: 2006.10.24 @ 17:52:38

## 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:

41000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 38000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GCWM 10%G 50%W 40%M	0.393
0.00	Gas in all fluid free pipe	0.000

Total Length: 80.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 1

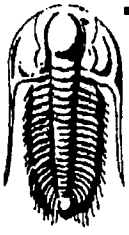
Num Gas Bombs: 0

Serial #: DC

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: .20 ohms @ 63 deg.



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25480

**DST#: 1**

ATTN: Jeff Dale

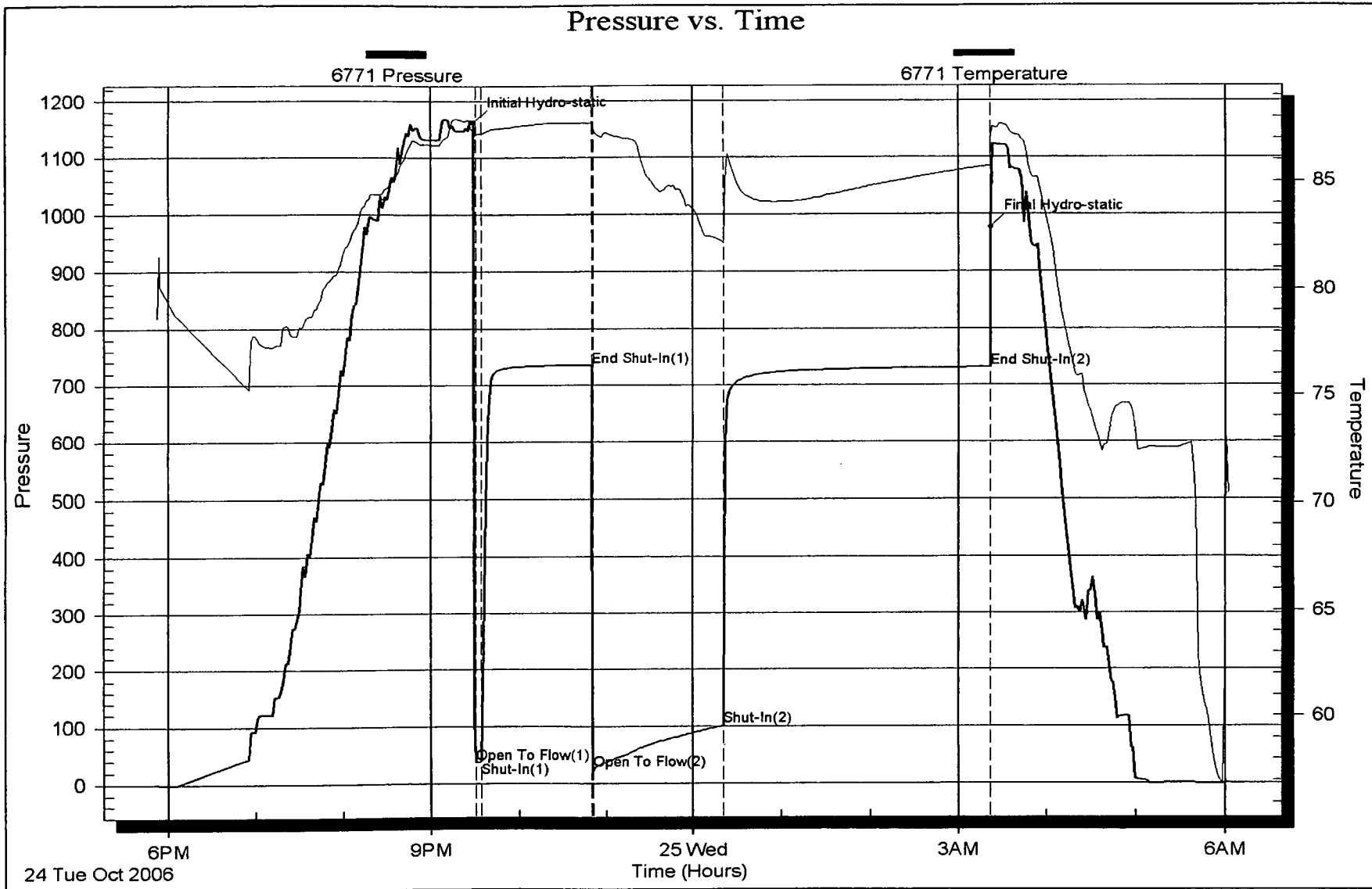
Test Start: 2006.10.24 @ 17:52:38

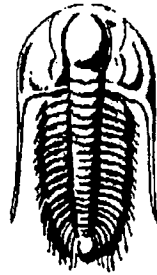
## Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	15	0.25	5.00	30.78
2	15	0.25	5.00	30.78
2	25	0.25	10.50	39.50
2	35	0.25	20.00	54.57
2	45	0.25	26.00	64.09
2	55	0.25	32.00	73.61
2	65	0.25	36.00	79.96
2	75	0.25	40.00	86.30
2	85	0.25	43.00	91.06
2	90	0.25	45.00	94.23





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.10.26 @ 05:28:04

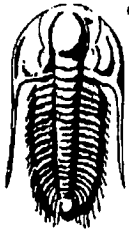
End Date: 2006.10.26 @ 17:30:17

Job Ticket #: 25481                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Osage Resources LLC

Osage #103

1605 E 56th Ave  
Hutchison KS 67502

31 32 14W Barber KS

Job Ticket: 25481

DST#: 2

ATTN: Jeff Dale

Test Start: 2006.10.26 @ 05:28:04

## GENERAL INFORMATION:

Formation: **Wreford**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:22:49

Time Test Ended: 17:30:17

Test Type: Conventional Bottom Hole

Tester: Davy Cline/ Zach Sto

Unit No: 23

Interval: **2632.00 ft (KB) To 2655.00 ft (KB) (TVD)**

Reference Elevations: 1958.00 ft (KB)

Total Depth: 2348.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6771 Inside**

Press@RunDepth: 182.84 psig @ 2633.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.26

End Date:

2006.10.26

Last Calib.: 2006.10.26

Start Time: 05:28:09

End Time:

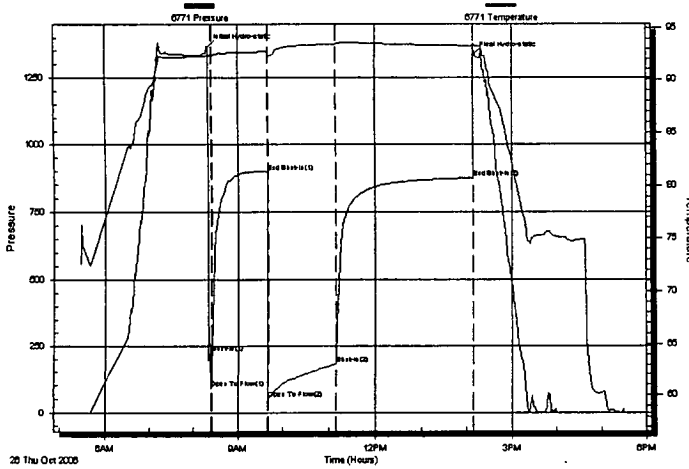
17:30:17

Time On Btm: 2006.10.26 @ 08:19:34

Time Off Btm: 2006.10.26 @ 14:09:04

TEST COMMENT: IF Strong blow BOB in 2 min.  
ISI No blow  
FF Strong blow BOB in 1 min.  
FSI Fair blow Built to 8 in.

Pressure vs. Time



## PRESSURE SUMMARY

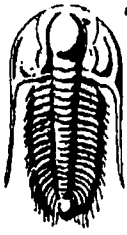
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1363.17	92.34	Initial Hydro-static
4	89.63	92.22	Open To Flow (1)
6	226.47	92.25	Shut-In(1)
80	899.26	92.66	End Shut-In(1)
81	51.94	92.24	Open To Flow (2)
170	182.84	93.42	Shut-In(2)
349	875.50	93.26	End Shut-In(2)
350	1331.02	93.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	HWCM 76%W 24%M	1.76
50.00	SG & WCM 2%G 18%W 80%M	0.51
0.00	RW= .20 @ 63 DEG. 41000 ppm.	0.00
0.00		0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25481

**DST#: 2**

ATTN: Jeff Dale

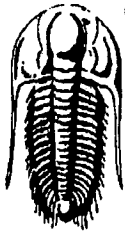
Test Start: 2006.10.26 @ 05:28:04

**Tool Information**

Drill Pipe:	Length: 2371.00 ft	Diameter: 3.25 inches	Volume: 24.33 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 266.00 ft	Diameter: 2.25 inches	Volume: 1.31 bbl	Weight to Pull Loose: 85000.00 lb
		<u>Total Volume:</u>	<u>25.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	2632.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:	Slid 10 ft. to bottom.			

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2612.00	
Shut In Tool	5.00			2617.00	
Hydraulic tool	5.00			2622.00	
Packer	5.00			2627.00	21.00 Bottom Of Top Packer
Packer	5.00			2632.00	
Stubb	1.00			2633.00	
Recorder	0.00	6771	Inside	2633.00	
Perforations	17.00			2650.00	
Recorder	0.00	13789	Outside	2650.00	
Bullnose	5.00			2655.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25481

**DST#: 2**

ATTN: Jeff Dale

Test Start: 2006.10.26 @ 05:28:04

## 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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.55 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 60000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	HWCM 76%W 24%M	1.760
50.00	SG & WCM 2%G 18%W 80%M	0.513
0.00	RW= .20 @ 63 DEG. 41000 ppm.	0.000
0.00		0.000

Total Length: 360.00 ft

Total Volume: 2.273 bbl

Num Fluid Samples: 0

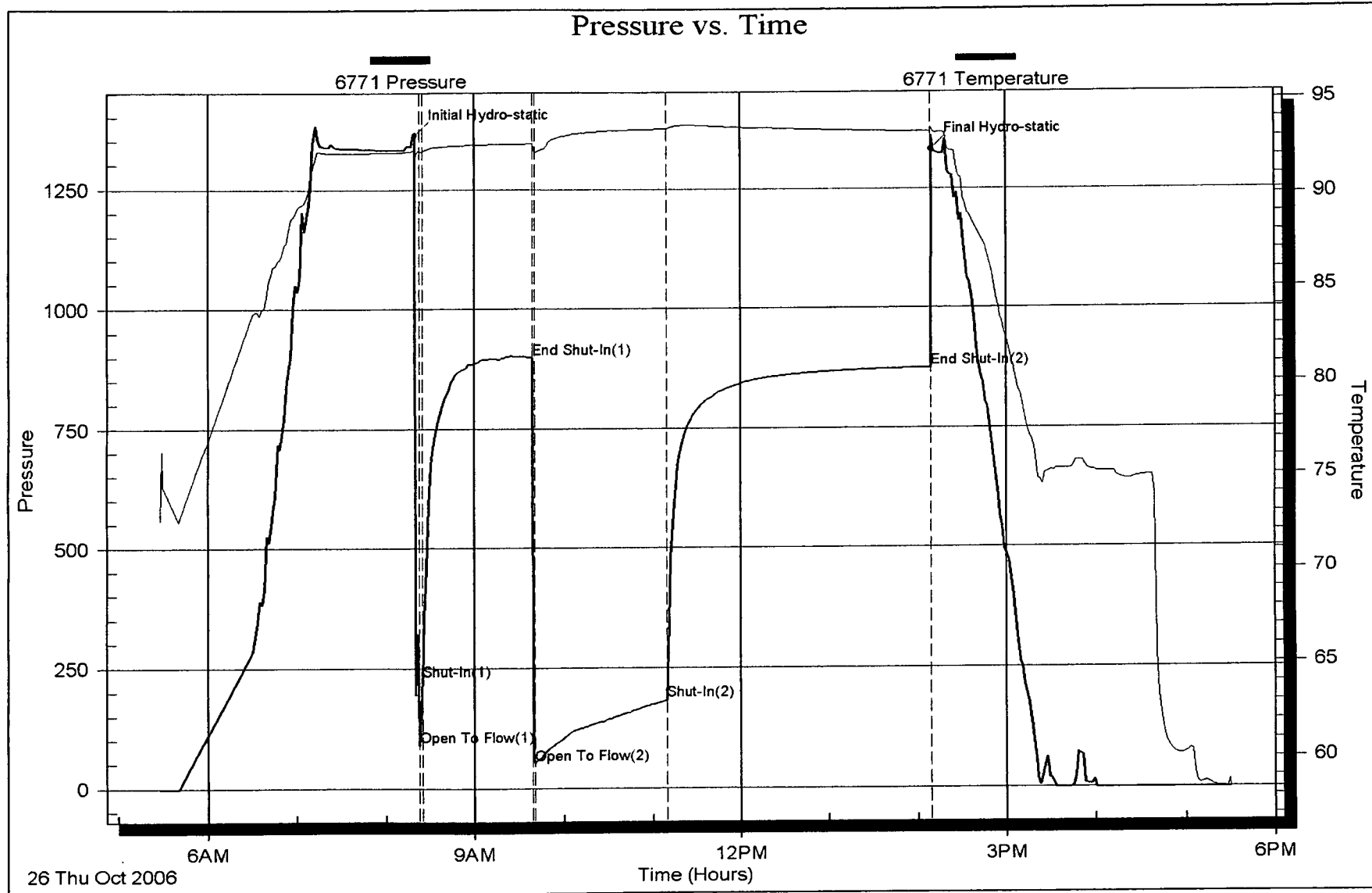
Num Gas Bombs: 1

Serial #: zs

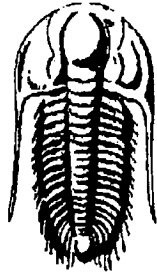
Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:







**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.10.31 @ 06:01:27

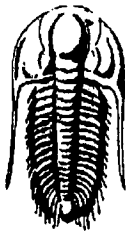
End Date: 2006.10.31 @ 19:52:42

Job Ticket #: 25792                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Osage Resources LLC

Osage #103

1605 E 56th Ave  
Hutchison KS 67502

31 32 14W Barber KS

Job Ticket: 25792

DST#: 3

ATTN: Jeff Dale

Test Start: 2006.10.31 @ 06:01:27

### GENERAL INFORMATION:

Formation: **Lansing "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:12

Time Test Ended: 19:52:42

Test Type: Conventional Bottom Hole

Tester: Travy Cushenbery

Unit No: 30

Interval: **4300.00 ft (KB) To 4320.00 ft (KB) (TVD)**

Total Depth: 4320.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1958.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **6668**

Inside

Press@RunDepth: 891.46 psig @ 4300.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.31

End Date:

2006.10.31

Last Calib.:

2006.10.31

Start Time: 06:01:32

End Time:

19:52:42

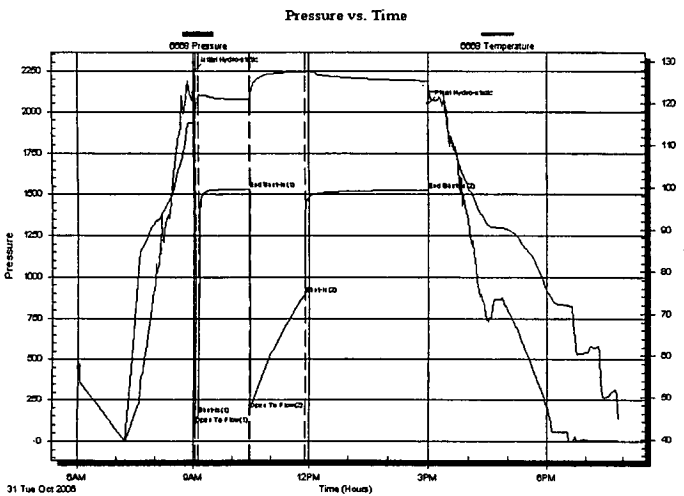
Time On Btm:

2006.10.31 @ 09:02:12

Time Off Btm:

2006.10.31 @ 14:59:42

TEST COMMENT: FF Strong blow BOB immediately  
ISI Bled off No blow No blow back  
FF Strong blow BOB in 30 secs. GTS in 55 mins. (Too small to measure)  
FSI Bled off Strong blow Building to 5" in 180 mins.



### PRESSURE SUMMARY

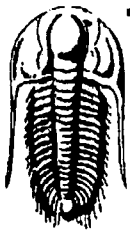
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.66	115.94	Initial Hydro-static
1	99.05	117.34	Open To Flow (1)
5	156.89	121.63	Shut-In(1)
85	1531.73	120.81	End Shut-In(1)
86	187.81	120.78	Open To Flow (2)
171	891.46	127.41	Shut-In(2)
357	1526.87	125.27	End Shut-In(2)
358	2047.25	125.36	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
70.00	Muddy Water 50%W 50%M	0.34
310.00	Watery Mud 66%W 34%M	2.48
1620.00	Gassy Water 1%G 99%W	22.72

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25792

**DST#: 3**

ATTN: Jeff Dale

Test Start: 2006.10.31 @ 06:01:27

**Tool Information**

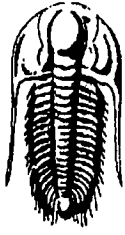
Drill Pipe:	Length: 4035.00 ft	Diameter: 3.80 inches	Volume: 56.60 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 82000.00 lb
		<u>Total Volume:</u>	<u>57.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4300.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Packer	5.00			4295.00	20.00 Bottom Of Top Packer
Packer	5.00			4300.00	
Recorder	0.00	6668	Inside	4300.00	
Perforations	17.00			4317.00	
Recorder	0.00	13266	Outside	4317.00	
Bullnose	3.00			4320.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 25792

**DST#: 3**

ATTN: Jeff Dale

Test Start: 2006.10.31 @ 06:01:27

## 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:

28000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 16.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
70.00	Muddy Water 50%W 50%M	0.344
310.00	Watery Mud 66%W 34%M	2.481
1620.00	Gassy Water 1%G 99%W	22.724

Total Length: 2000.00 ft

Total Volume: 25.549 bbf

Num Fluid Samples: 0

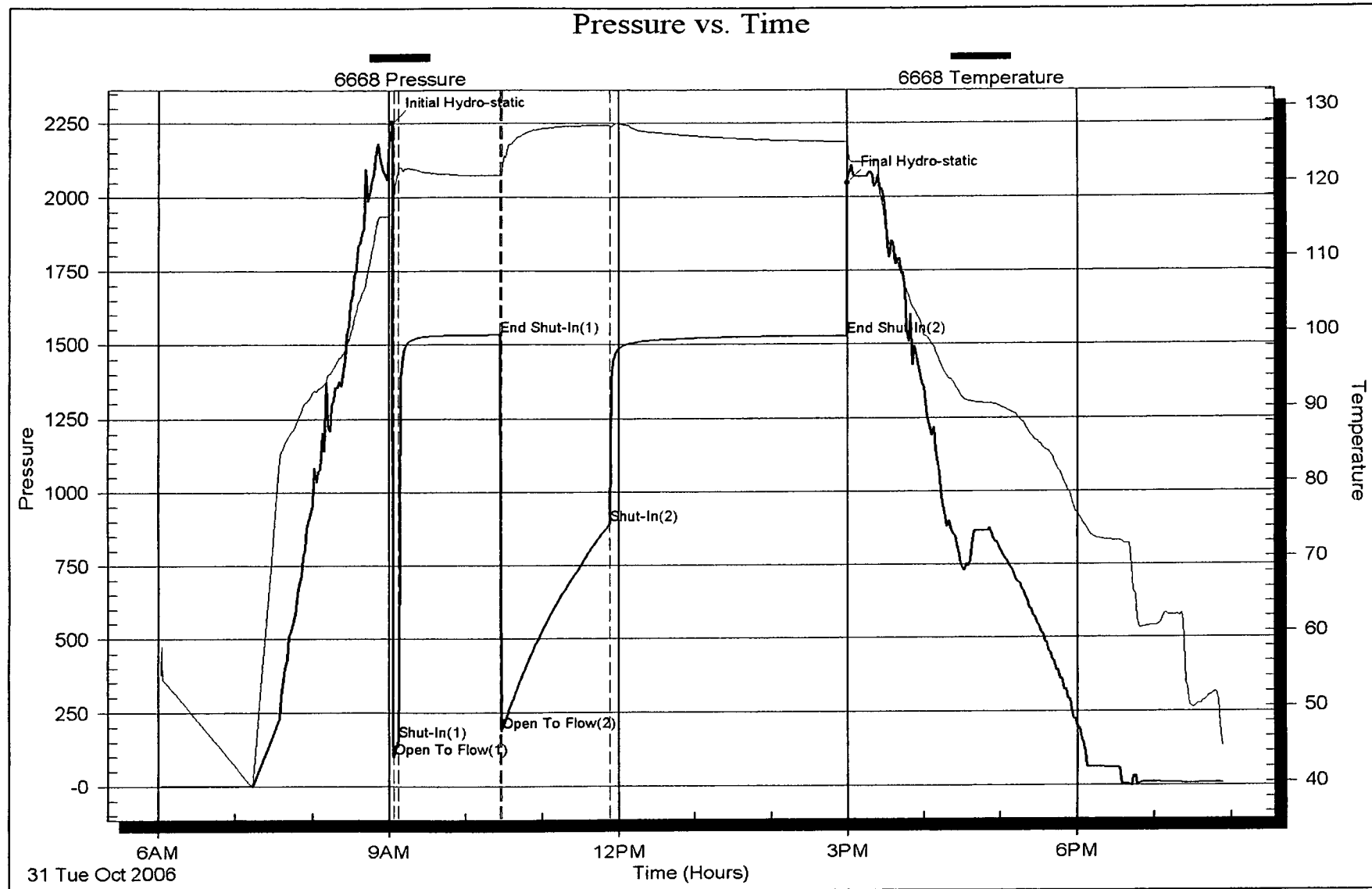
Num Gas Bombs: 0

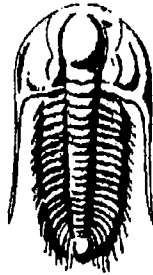
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.11.02 @ 10:49:47

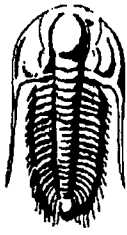
End Date: 2006.11.02 @ 22:14:02

Job Ticket #: 26377                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Osage Resources LLC

Osage #103

1605 E 56th Ave  
Hutchison KS 67502

31 32 14W Barber KS

Job Ticket: 26377

DST#: 4

ATTN: Jeff Dale

Test Start: 2006.11.02 @ 10:49:47

### GENERAL INFORMATION:

Formation: **Lans.**

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

Time Tool Opened: 13:05:02

Time Test Ended: 22:14:02

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **39**

Interval: **4702.00 ft (KB) To 4727.00 ft (KB) (TVD)**

Total Depth: **4727.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1958.00 ft (KB)**

**1951.00 ft (CF)**

KB to GR/CF: **7.00 ft**

Serial #: **8167**

Inside

Press@RunDepth: **22.90 psig @ 4703.00 ft (KB)**

Start Date: **2006.11.02**

End Date:

**2006.11.02**

Capacity: **7000.00 psig**

Last Calib.: **2006.11.02**

Start Time: **10:49:52**

End Time:

**22:14:02**

Time On Btm: **2006.11.02 @ 13:04:47**

Time Off Btm: **2006.11.02 @ 18:54:16**

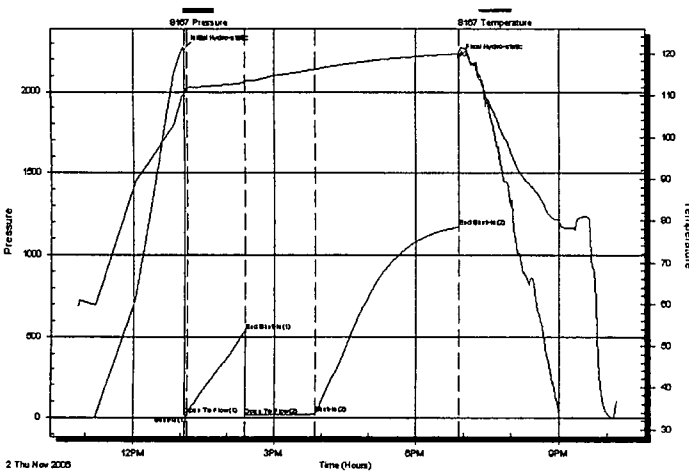
TEST COMMENT: IF Weak blow 1/2 - 2 1/2 "

ISI No blow

FF Fair blow 3 - 13 "

FSI No blow

Pressure vs. Time



### PRESSURE SUMMARY

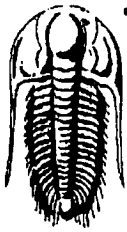
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.79	109.99	Initial Hydro-static
1	16.97	109.45	Open To Flow (1)
4	14.58	111.68	Shut-In(1)
78	531.40	113.03	End Shut-In(1)
78	15.99	113.61	Open To Flow (2)
167	22.90	116.14	Shut-In(2)
349	1170.83	119.95	End Shut-In(2)
350	2209.74	120.39	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig.mud	0.10
0.00	350 ft.of GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 26377

**DST#: 4**

ATTN: Jeff Dale

Test Start: 2006.11.02 @ 10:49:47

### Tool Information

Drill Pipe:	Length: 4434.00 ft	Diameter: 3.80 inches	Volume: 62.20 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 112000.0 lb
		<b>Total Volume:</b>	<b>63.50 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4702.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			4683.00	
Shut In Tool	5.00			4688.00	
Hydraulic tool	5.00			4693.00	
Packer	4.00			4697.00	20.00 Bottom Of Top Packer
Packer	5.00			4702.00	
Stubb	1.00			4703.00	
Recorder	0.00	8167	Inside	4703.00	
Perforations	19.00			4722.00	
Recorder	0.00	11019	Outside	4722.00	
Bullnose	5.00			4727.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>45.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 26377

**DST#: 4**

ATTN: Jeff Dale

Test Start: 2006.11.02 @ 10:49:47

**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:

7000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 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 bbbl
20.00	Drig.mud	0.098
0.00	350 ft.of GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

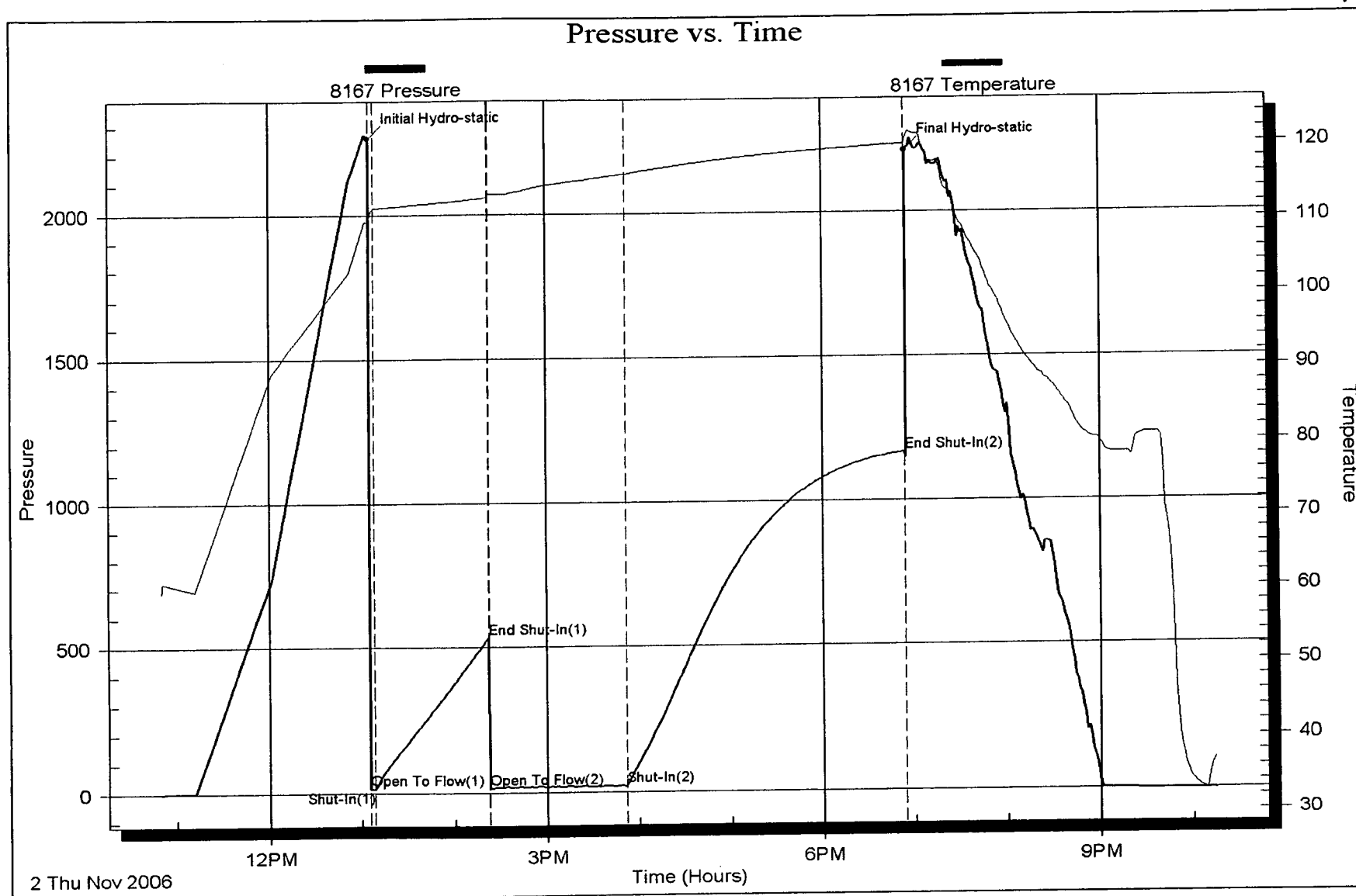
Num Gas Bombs: 0

Serial #: none

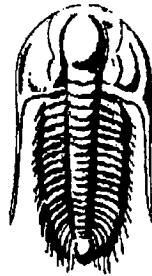
Laboratory Name:

Laboratory Location:

Recovery Comments:



2 Thu Nov 2006



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.11.04 @ 22:01:48

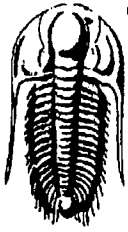
End Date: 2006.11.05 @ 07:21:03

Job Ticket #: 26378                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Osage Resources LLC

Osage #103

1605 E 56th Ave  
Hutchison KS 67502

31 32 14W Barber KS

Job Ticket: 26378

DST#: 5

ATTN: Jeff Dale

Test Start: 2006.11.04 @ 22:01:48

## GENERAL INFORMATION:

Formation: **Chattanooga**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:55:33

Time Test Ended: 07:21:03

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: 5090.00 ft (KB) To 5140.00 ft (KB) (TVD)

Total Depth: 5140.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1958.00 ft (KB)

1951.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8167

Inside

Press@RunDepth: 20.21 psig @ 5091.00 ft (KB)

Start Date: 2006.11.04

End Date:

2006.11.05

Capacity: 7000.00 psig

Last Calib.: 2006.11.05

Start Time: 22:01:53

End Time:

07:21:03

Time On Btm: 2006.11.05 @ 01:55:03

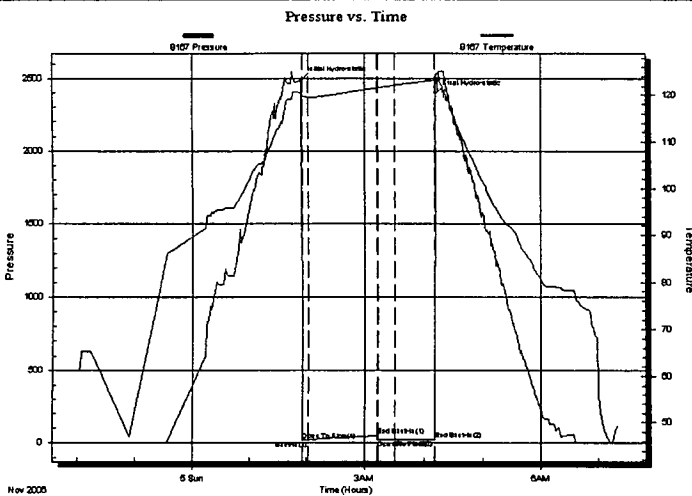
Time Off Btm: 2006.11.05 @ 04:11:32

TEST COMMENT: IF Weak blow 1/4 " or less

ISI No blow

FF No blow

FSI No blow



## PRESSURE SUMMARY

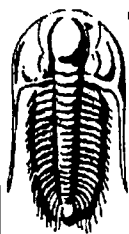
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2487.97	120.55	Initial Hydro-static
1	18.78	119.96	Open To Flow (1)
7	19.18	119.56	Shut-In(1)
78	48.37	121.66	End Shut-In(1)
79	20.46	121.66	Open To Flow (2)
96	20.21	122.20	Shut-In(2)
137	24.85	123.34	End Shut-In(2)
137	2394.51	124.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig.mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Osage Resources LLC

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**Osage #103**

**31 32 14W Barber KS**

Job Ticket: 26378

**DST#: 5**

Test Start: 2006.11.04 @ 22:01:48

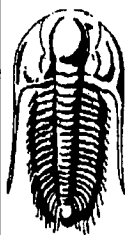
### Tool Information

Drill Pipe:	Length: 4808.00 ft	Diameter: 3.80 inches	Volume: 67.44 bbl	Tool Weight: 2100.00 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: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 121000.0 lb
		Total Volume: 68.74 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5090.00 ft			Final 79500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			5071.00	
Shut In Tool	5.00			5076.00	
Hydraulic tool	5.00			5081.00	
Packer	4.00			5085.00	20.00 Bottom Of Top Packer
Packer	5.00			5090.00	
Stubb	1.00			5091.00	
Recorder	0.00	8167	Inside	5091.00	
Perforations	13.00			5104.00	
Blank Spacing	31.00			5135.00	
Recorder	0.00	11019	Outside	5135.00	
Bullnose	5.00			5140.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Osage Resources LLC

Osage #103

1605 E 56th Ave  
Hutchison KS 67502

31 32 14W Barber KS

Job Ticket: 26378

DST#: 5

ATTN: Jeff Dale

Test Start: 2006.11.04 @ 22:01:48

## 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:

6000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig.mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

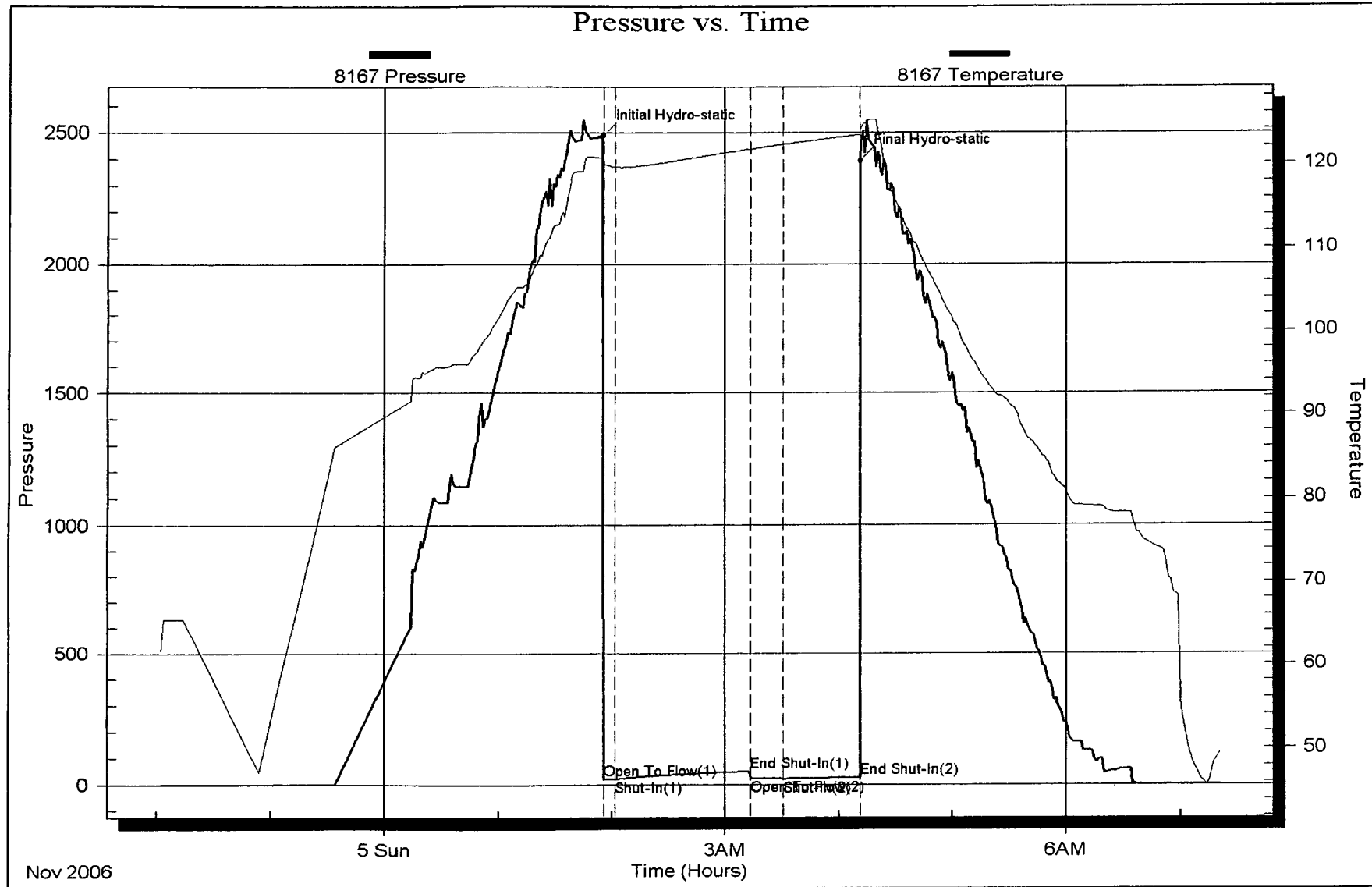
Num Gas Bombs: 0

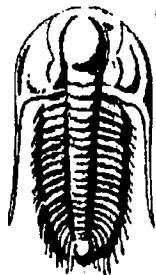
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**31 32 14W Barber KS**

**Osage #103**

Start Date: 2006.11.05 @ 18:44:31

End Date: 2006.11.06 @ 08:12:16

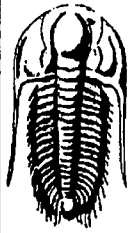
Job Ticket #: 26379                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 26379

**DST#: 6**

ATTN: Jeff Dale

Test Start: 2006.11.05 @ 18:44:31

## GENERAL INFORMATION:

Formation: **Chattanooga**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:28:46

Time Test Ended: 08:12:16

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **5134.00 ft (KB) To 5185.00 ft (KB) (TVD)**

Reference Elevations: 1958.00 ft (KB)

Total Depth: 5185.00 ft (KB) (TVD)

1951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

**Serial #: 8167**

Inside

Press@RunDepth: 21.49 psig @ 5135.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.11.05

End Date:

2006.11.06

Last Calib.: 2006.11.06

Start Time: 18:44:36

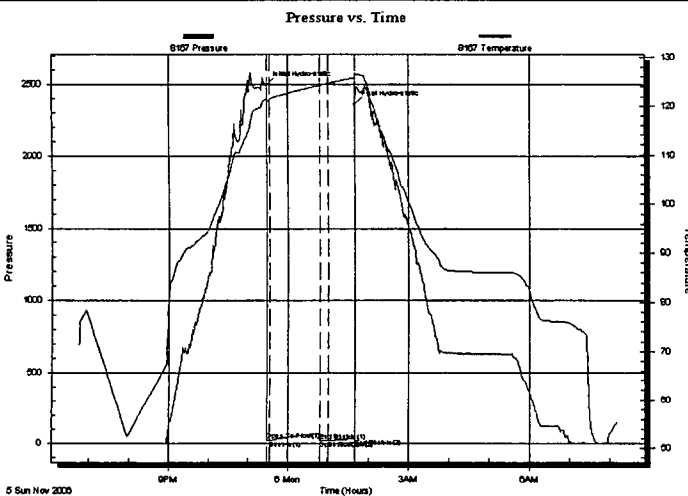
End Time:

08:12:16

Time On Btm: 2006.11.05 @ 23:28:30

Time Off Btm: 2006.11.06 @ 01:40:30

TEST COMMENT: IF Weak blow 1/4 "  
ISI No blow  
FF Weak blow (surface) Dead in 13 mins.  
FSI No blow



## PRESSURE SUMMARY

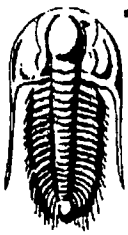
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2498.24	121.51	Initial Hydro-static
1	21.40	120.92	Open To Flow (1)
4	22.40	121.26	Shut-In(1)
80	73.15	124.31	End Shut-In(1)
80	20.05	124.31	Open To Flow (2)
93	21.49	124.69	Shut-In(2)
132	36.24	125.77	End Shut-In(2)
132	2358.50	126.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig.mud	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Osage Resources LLC

1605 E 56th Ave  
Hutchison KS 67502

ATTN: Jeff Dale

**Osage #103**

**31 32 14W Barber KS**

Job Ticket: 26379

**DST#: 6**

Test Start: 2006.11.05 @ 18:44:31

**Tool Information**

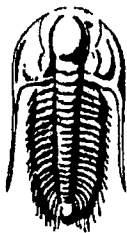
Drill Pipe:	Length: 4870.00 ft	Diameter: 3.80 inches	Volume: 68.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 265.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 112000.0 lb
		<b>Total Volume:</b>	<b>69.61 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	5134.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5115.00	
Shut In Tool	5.00			5120.00	
Hydraulic tool	5.00			5125.00	
Packer	4.00			5129.00	20.00 Bottom Of Top Packer
Packer	5.00			5134.00	
Stubb	1.00			5135.00	
Recorder	0.00	8167	Inside	5135.00	
Perforations	10.00			5145.00	
Blank Spacing	31.00			5176.00	
Perforations	4.00			5180.00	
Recorder	0.00	11019	Outside	5180.00	
Bullnose	5.00			5185.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Osage Resources LLC

**Osage #103**

1605 E 56th Ave  
Hutchison KS 67502

**31 32 14W Barber KS**

Job Ticket: 26379

**DST#: 6**

ATTN: Jeff Dale

Test Start: 2006.11.05 @ 18:44:31

## 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:

8000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig.mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: noe

Laboratory Name:

Laboratory Location:

Recovery Comments:

