

DRILL STEM TEST REPORT

Prepared For: **Osage Resources LLC**

1605 E 56th Avenue
Hutchinson KS 67502

ATTN: Jim Musgrove

30 33S 14W Barber KS

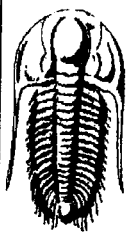
Osage #102

Start Date: 2006.09.04 @ 03:22:52

End Date: 2006.09.04 @ 17:54:52

Job Ticket #: 24014 DST #: 1

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

1605 E 56th Avenue
Hutchinson KS 67502

ATTN: Jim Musgrove

Osage #102

30 33S 14W Barber KS

Job Ticket: 24014

DST#: 1

Test Start: 2006.09.04 @ 03:22:52

GENERAL INFORMATION:

Formation: **Chatanooga**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:50:22

Time Test Ended: 17:54:52

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **4949.00 ft (KB) To 5010.00 ft (KB) (TVD)**

Total Depth: 5010.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1664.00 ft (KB)

1655.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6719

Inside

Press@RunDepth: 60.78 psig @ 4952.00 ft (KB)

Start Date: 2006.09.04

End Date: 2006.09.04

Capacity: 7000.00 psig

Last Calib.: 2006.09.04

Start Time: 03:22:54

End Time: 17:54:52

Time On Btm: 2006.09.04 @ 07:49:22

Time Off Btm: 2006.09.04 @ 13:36:52

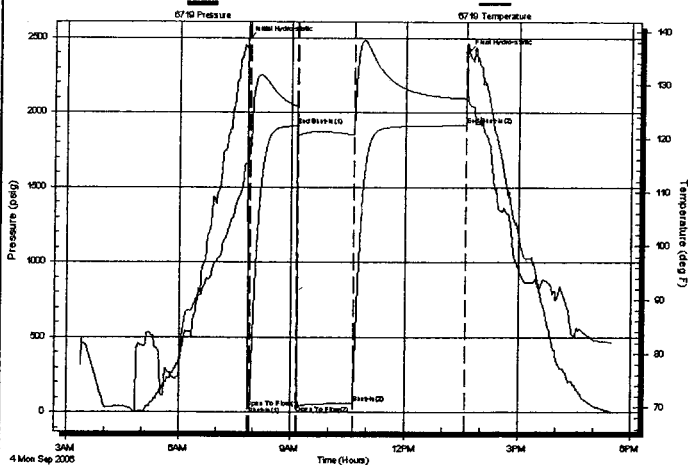
TEST COMMENT: IFP Strong Blow BOB in 1 Min. 5 Sec.

ISI Dead

FFP BOB Upon Opening Tool Gas To Surface in 3 Min. Gauging Gas

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

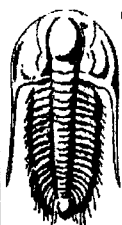
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2485.92	115.30	Initial Hydro-static
1	30.87	115.90	Open To Flow (1)
5	38.02	118.64	Shut-In (1)
79	1910.17	126.03	End Shut-In (1)
80	45.60	120.58	Open To Flow (2)
170	60.78	120.67	Shut-In (2)
347	1915.10	127.45	End Shut-In (2)
348	2402.19	129.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.34
0.00	Oil Spots in Tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	1.25	105.57
Last Gas Rate	0.38	7.00	78.39
Max. Gas Rate	0.38	7.00	78.39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Osage Resources LLC

1605 E 56th Avenue
Hutchinson KS 67502

ATTN: Jim Musgrove

Osage #102

30 33S 14W Barber KS

Job Ticket: 24014

DST#: 1

Test Start: 2006.09.04 @ 03:22:52

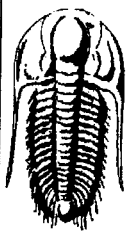
Tool Information

Drill Pipe:	Length: 4372.00 ft	Diameter: 3.80 inches	Volume: 61.33 bbl	Tool Weight: 2200.00 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: 584.00 ft	Diameter: 2.25 inches	Volume: 2.87 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume:	64.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4949.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4922.00	
Shut In Tool	5.00			4927.00	
Hydraulic tool	5.00			4932.00	
Jars	5.00			4937.00	
Safety Joint	2.00			4939.00	
Packer	5.00			4944.00	28.00 Bottom Of Top Packer
Packer	5.00			4949.00	
Stubb	1.00			4950.00	
Perforations	1.00			4951.00	
Change Over Sub	1.00			4952.00	
Recorder	0.00	6719	Inside	4952.00	
Blank Spacing	31.00			4983.00	
Change Over Sub	1.00			4984.00	
Perforations	23.00			5007.00	
Recorder	0.00	13221	Outside	5007.00	
Bullnose	3.00			5010.00	61.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Osage Resources LLC

Osage #102

1605 E 56th Avenue
Hutchinson KS 67502

30 33S 14W Barber KS

Job Ticket: 24014

DST#: 1

ATTN: Jim Musgrove

Test Start: 2006.09.04 @ 03:22:52

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud	0.344
0.00	Oil Spots in Tool	0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Osage Resources LLC

Osage #102

1605 E 56th Avenue
Hutchinson KS 67502

30 33S 14W Barber KS

Job Ticket: 24014

DST#: 1

ATTN: Jim Musgrove

Test Start: 2006.09.04 @ 03:22:52

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 (m³/d)
2	10	0.50	1.25	105.57
2	10	0.50	1.25	105.57
2	20	0.38	3.00	63.74
2	30	0.38	4.00	67.40
2	40	0.38	5.00	71.07
2	50	0.38	5.50	72.90
2	60	0.38	6.00	74.73
2	70	0.38	6.50	76.56
2	80	0.38	7.00	78.39

Serial #: 6719

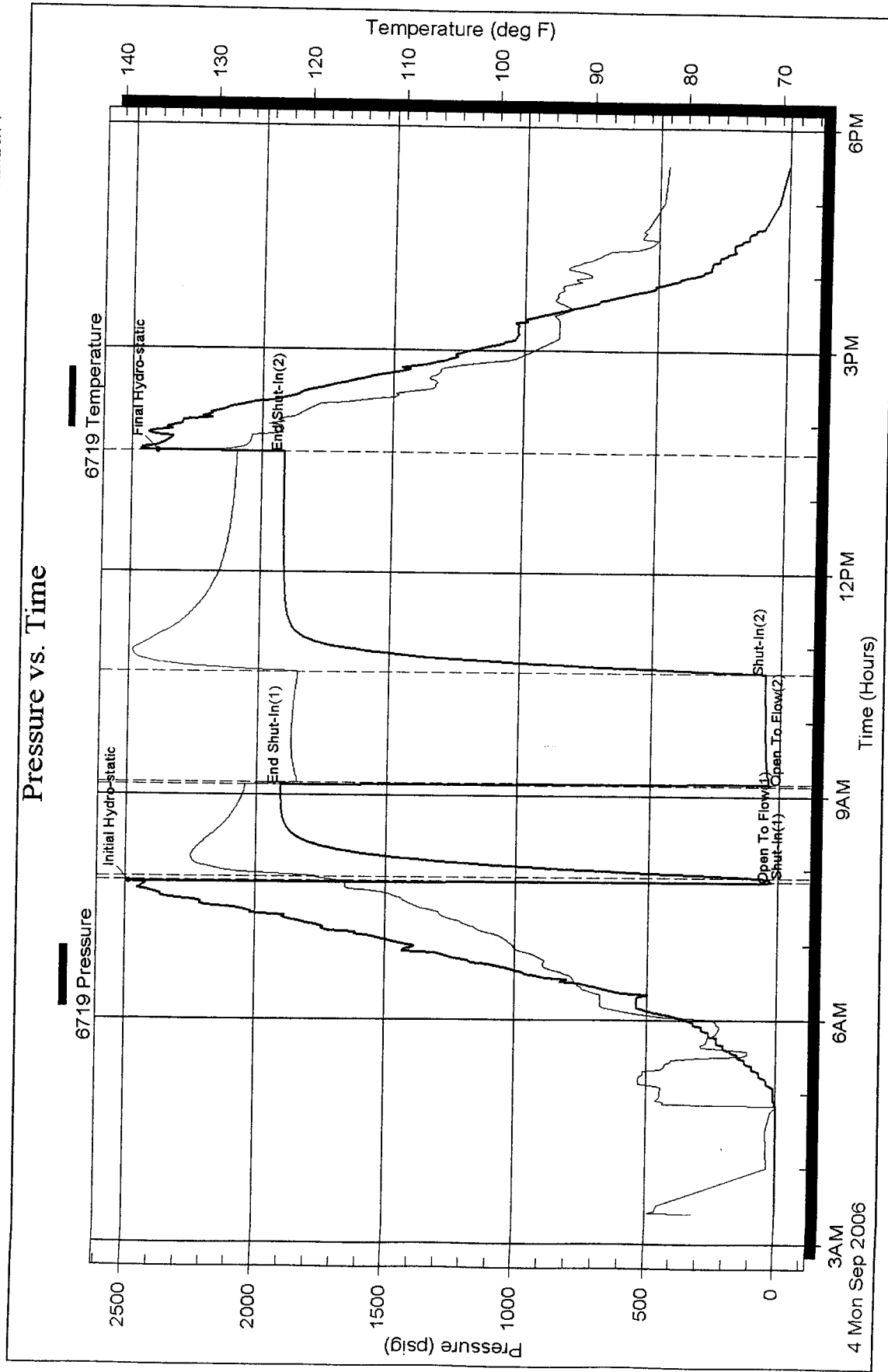
Inside

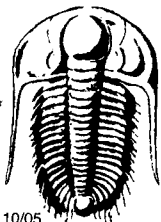
Osage Resources LLC

30 33S 14W Barber KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9734

No 24014

Test Ticket

Well Name & No. <u>Osage #102</u>	Test No. <u>1</u>	Date <u>9-4-06</u>
Company <u>Osage Resources LLC</u>	Zone Tested <u>Chatanooga</u>	
Address <u>1605 E. 56th Avenue, Hutchinson, Ks. 67502</u>	Elevation <u>1664</u> KB <u>1655</u> GL	
Co. Rep / Geo. <u>Jim Musgrove</u>	Rig <u>Warren #9</u>	
Location: Sec. <u>30</u> Twp. <u>33S</u> Rge. <u>14W</u>	Co. <u>Barber</u>	State <u>Ks</u>
Comment: _____	Release date / time <u>9-5 @ 20:00</u>	

Interval Tested <u>4949 — 5010</u>	Initial Str Wt./Lbs. <u>58,000</u>	Unseated Str Wt./Lbs. <u>58,000</u>
Anchor Length <u>61'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>62,000</u>
Top Packer Depth <u>4944</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>4949</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>5010</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>584</u>
Mud Wt. <u>9.4</u> LCM <u>1 1/2#</u> Vis. <u>51</u> WL <u>6.8</u>	Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>4372</u>
Blow Description <u>IFP - Strong Blow, BOB in 1 min, 5 seconds</u>		
<u>ISI - Dead</u>		
<u>FFP - BOB upon opening, Gas to surface in 3 min., Gauging Gas</u>		
<u>FSI - Dead.</u>		

Recovery - Total Feet _____	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT <u>127</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____	@ _____	°F Chlorides _____ ppm Recovery _____	Chlorides <u>4,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2486</u> PSI	Recorder No. <u>6719</u>	(Test) <u>1300</u>
(B) First Initial Flow Pressure	<u>31</u> PSI	(depth) <u>4952</u>	(Jars) <u>250</u>
(C) First Final Flow Pressure	<u>38</u> PSI	Recorder No. <u>13221</u>	(Safety Jt.) <u>75</u>
(D) Initial Shut-In Pressure	<u>1910</u> PSI	(depth) <u>5007</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>46</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>61</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1915</u> PSI	Initial Opening <u>3</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2402</u> PSI	Initial Shut-In <u>75</u>	Shale Packer _____
Final Flow <u>90</u>		Ruined Packer _____	
Final Shut-In <u>180</u>		106 Feet from _____ <u>132.50</u>	
T-On Location <u>2:30</u>		Sub Total: <u>1757.50</u>	
T-Started <u>3:22</u>		(Std. By) <u>1000.00</u>	
T-Open <u>7:49</u>		(Acc. Chg) <u>152.50</u>	
T-Pulled <u>13:36</u>		Other: _____	
T-Out <u>17:53</u>		Total: <u>\$2907.50</u>	
		<u>20.00 5th</u>	

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Approved By [Signature]

Our Representative [Signature] *Thank you*



GAS VOLUME REPORT

Usage #102

WELL NAME AND NO.

DST NO.

2nd Flow Period

Remarks: