

DRILL STEM TEST REPORT

Prepared For: **Lotus Operating CO LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

5 29S 15W Pratt KS

Carver #3

Start Date: 2006.11.15 @ 04:05:28

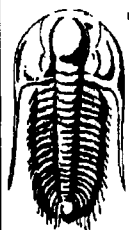
End Date: 2006.11.15 @ 17:29:58

Job Ticket #: 26380 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

Lotus Operating CO LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Carver #3

5 29S 15W Pratt KS

Job Ticket: 26380

DST#: 1

Test Start: 2006.11.15 @ 04:05:28

GENERAL INFORMATION:

Formation: **Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:48:43

Time Test Ended: 17:29:58

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4570.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2041.00 ft (KB)

2030.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8167** Inside

Press@RunDepth: 442.18 psig @ 4571.00 ft (KB)

Start Date: 2006.11.15

End Date:

2006.11.15

Capacity: 7000.00 psig

Last Calib.: 2006.11.15

Start Time: 04:05:33

End Time:

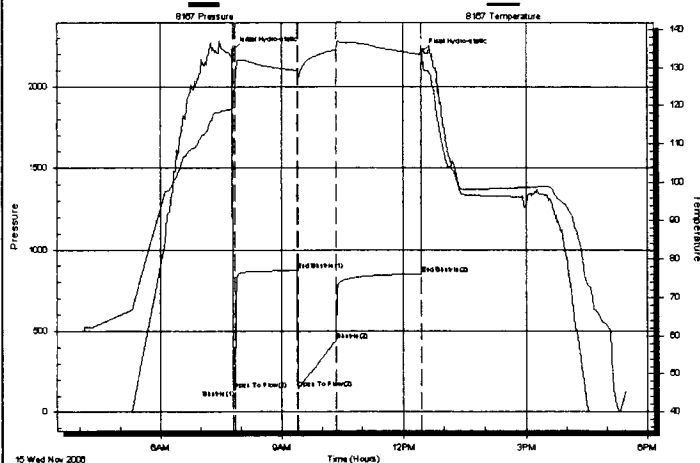
17:29:58

Time On Btm: 2006.11.15 @ 07:47:13

Time Off Btm: 2006.11.15 @ 12:28:12

TEST COMMENT: IF Strong blow BOB in 5 - 10 secs.
ISI Strong blow BOB GTS 3.5 mins. in to ISIP
FF Strong blow (see gas volume report)
FSI Strong blow Venting

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.25	119.06	Initial Hydro-static
2	137.08	121.30	Open To Flow (1)
5	136.18	125.17	Shut-In (1)
96	870.96	129.19	End Shut-In (1)
97	143.76	126.98	Open To Flow (2)
154	442.18	134.54	Shut-In (2)
281	851.61	133.35	End Shut-In (2)
281	2212.21	133.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 30%G 30%O 40%M	0.57
2690.00	CGO 38%G 62%O	37.73

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	9.00	157.85
Last Gas Rate	0.25	8.00	35.54
Max. Gas Rate	0.38	10.00	89.38



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating CO LLC

Carver #3

100 S Main Ste 420
Wichita KS 67202

5 29S 15W Pratt KS

Job Ticket: 26380

DST#: 1

ATTN: Tim Hellman

Test Start: 2006.11.15 @ 04:05:28

Tool Information

Drill Pipe:	Length: 4531.00 ft	Diameter: 3.80 inches	Volume: 63.56 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	81000.00 lb
			<u>Total Volume: 63.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4570.00 ft			Final	59500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	52.00 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			4549.00	
Shut In Tool	5.00			4554.00	
Hydraulic tool	5.00			4559.00	
Safety Joint	2.00			4561.00	
Packer	4.00			4565.00	22.00 Bottom Of Top Packer
Packer	5.00			4570.00	
Stubb	1.00			4571.00	
Recorder	0.00	8167	Inside	4571.00	
Perforations	24.00			4595.00	
Recorder	0.00	11019	Outside	4595.00	
Bullnose	5.00			4600.00	30.00 Bottom Packers & Anchor
Total Tool Length:		52.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating CO LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Carver #3

5 29S 15W Pratt KS

Job Ticket: 26380

DST#: 1

Test Start: 2006.11.15 @ 04:05:28

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 8.78 in³

Resistivity: 0.00 ohm.m

Salinity: 9500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

41.2 deg API

9500 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 30%G 30%O 40%M	0.568
2690.00	CGO 38%G 62%O	37.734

Total Length: 2750.00 ft

Total Volume: 38.302 bbl

Num Fluid Samples: 0

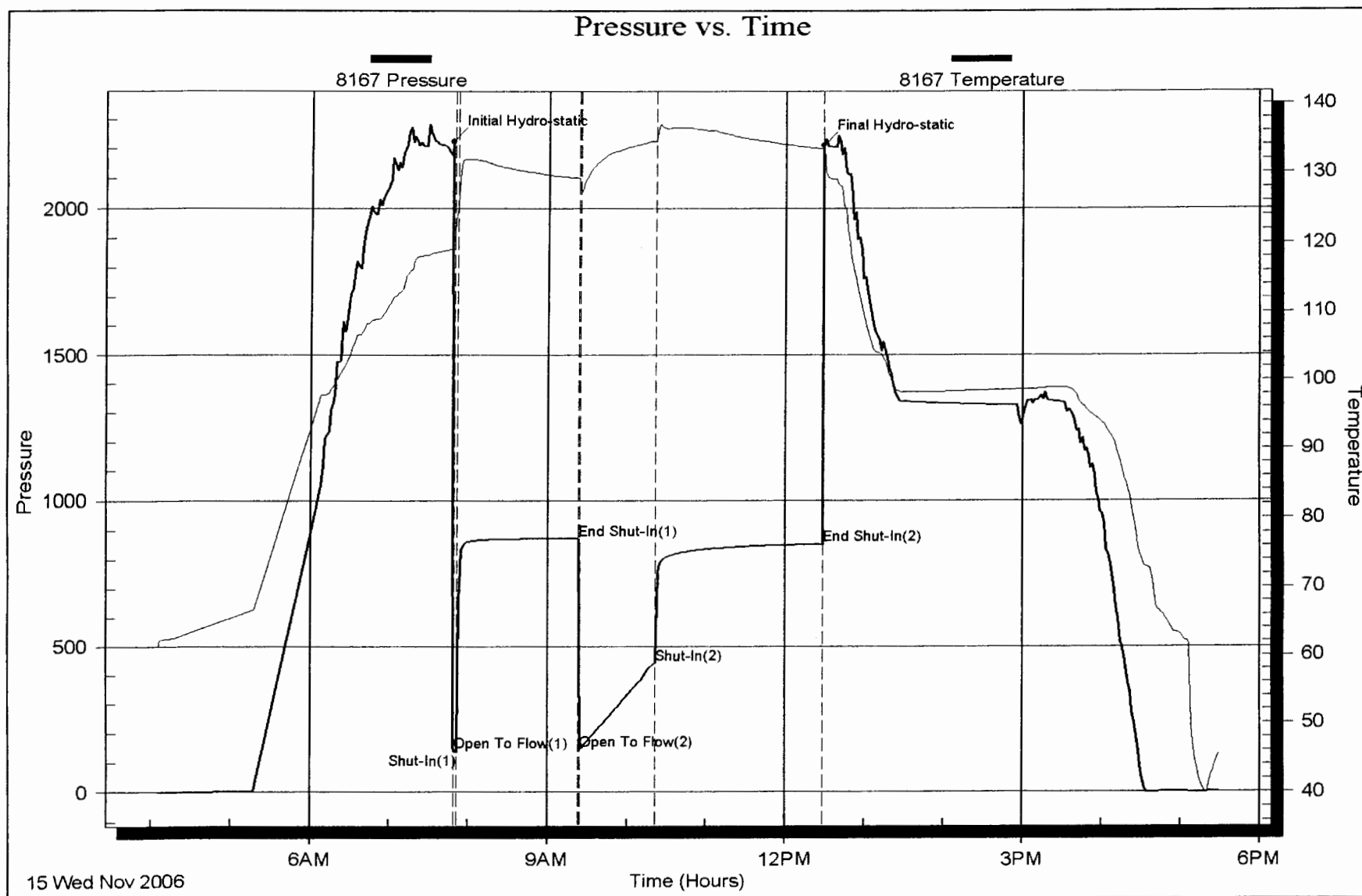
Num Gas Bombs: 1

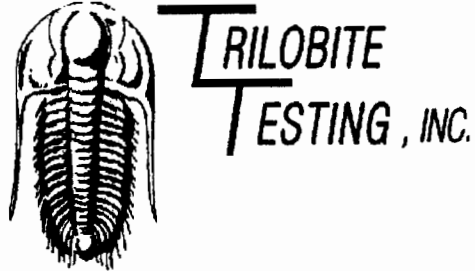
Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Lotus Operating CO LLC**

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

5 29S 15W Pratt KS

Carver #3

Start Date: 2006.11.16 @ 10:30:36

End Date: 2006.11.16 @ 18:35:21

Job Ticket #: 26381 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC**

DRILL STEM TEST REPORT

Lotus Operating CO LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Carver #3

5 29S 15W Pratt KS

Job Ticket: 26381

DST#: 2

Test Start: 2006.11.16 @ 10:30:36

GENERAL INFORMATION:

Formation: **Miss.**

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

Time Tool Opened: 12:53:51

Time Test Ended: 18:35:21

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4623.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Total Depth: **4670.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2041.00 ft (KB)**

2030.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 8167

Inside

Press@RunDepth: **18.12 psig @ 4624.00 ft (KB)**

Start Date: **2006.11.16**

End Date:

2006.11.16

Capacity: **7000.00 psig**

Last Calib.: **2006.11.16**

Start Time: **10:30:41**

End Time:

18:35:20

Time On Btm: **2006.11.16 @ 12:53:06**

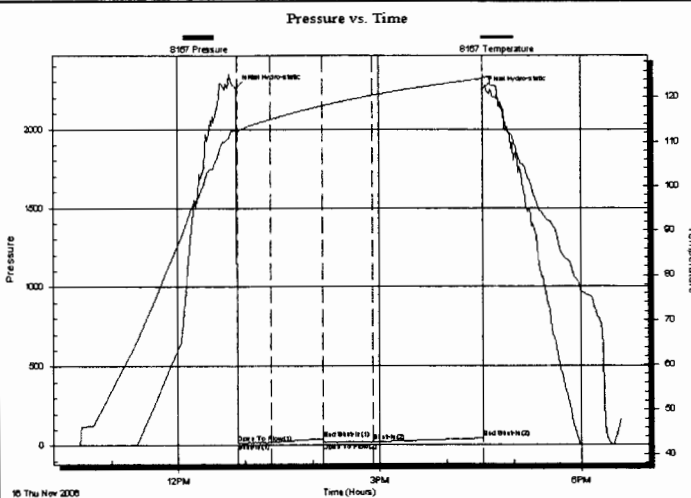
Time Off Btm: **2006.11.16 @ 16:32:50**

TEST COMMENT: IF Weak blow 1 - 5 "

ISI No blow

FF Weak blow 1/2 - 2 "

FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.90	112.57	Initial Hydro-static
1	17.46	112.24	Open To Flow (1)
30	17.49	115.04	Shut-In(1)
77	41.05	118.11	End Shut-In(1)
77	16.29	118.11	Open To Flow (2)
121	18.12	120.41	Shut-In(2)
220	43.62	124.16	End Shut-In(2)
220	2250.41	125.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Drig. Mud (good odor)	0.35
0.00	180 ft. of GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Lotus Operating CO LLC

100 S Main Ste 420
Wichita KS 67202

ATTN: Tim Hellman

Carver #3

5 29S 15W Pratt KS

Job Ticket: 26381

DST#: 2

Test Start: 2006.11.16 @ 10:30:36

Tool Information

Drill Pipe:	Length: 4625.00 ft	Diameter: 3.80 inches	Volume: 64.88 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: 32000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 64.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4623.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	69.00 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			4602.00	
Shut In Tool	5.00			4607.00	
Hydraulic tool	5.00			4612.00	
Safety Joint	2.00			4614.00	
Packer	4.00			4618.00	22.00 Bottom Of Top Packer
Packer	5.00			4623.00	
Stubb	1.00			4624.00	
Recorder	0.00	8167	Inside	4624.00	
Perforations	8.00			4632.00	
Change Over Sub	1.00			4633.00	
Blank Spacing	31.00			4664.00	
Change Over Sub	1.00			4665.00	
Recorder	0.00	11019	Outside	4665.00	
Bullnose	5.00			4670.00	47.00 Bottom Packers & Anchor

Total Tool Length: 69.00



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Carver #3

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Wichita KS 67202

5 29S 15W Pratt KS

Job Ticket: 26381

DST#: 2

ATTN: Tim Hellman

Test Start: 2006.11.16 @ 10:30:36

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:

6500 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drig. Mud (good odor)	0.351
0.00	180 ft.of GIP	0.000

Total Length: 25.00 ft

Total Volume: 0.351 bbl

Num Fluid Samples: 0

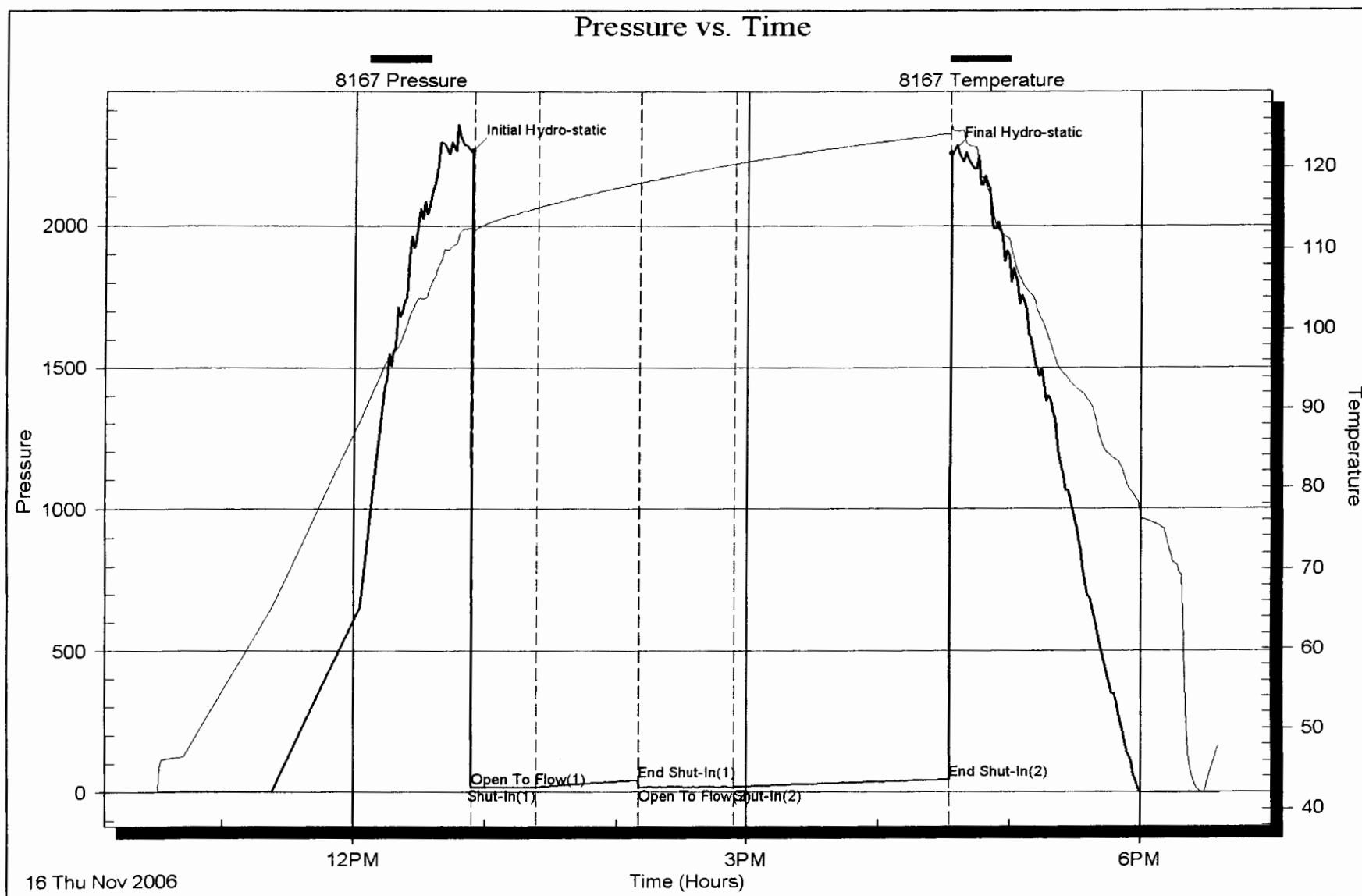
Num Gas Bombs: 0

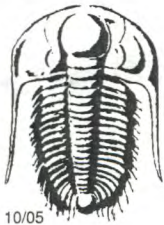
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26380

9531 ✓

Test Ticket

Well Name & No. <u>Carver #3</u>	Test No. <u>1</u>	Date <u>11-15-06</u>
Company <u>Lotus Oper. Co. LLC</u>	Zone Tested <u>Ft. Scott</u>	
Address <u>1005 Main St. #20, Wichita Ks. 67202</u>	Elevation <u>2041</u> KB <u>2030</u> GL	
Co. Rep / Geo. <u>Tim Hellman</u>	Rig <u>Duke Joly #5</u>	
Location: Sec. <u>5</u> Twp. <u>29S</u> Rge. <u>15W</u> Co. <u>Pratt</u> State <u>Ks.</u>		
Comment: _____	Release date / time: _____	

Interval Tested 4520 — 4600' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 59,500
 Anchor Length 30' Wt. Set Lbs. 28,000 Wt. Pulled Loose/Lbs. 81,000
 Top Packer Depth 4565' Tool Weight 2100#
 Bottom Packer Depth 4570' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4600' Wt. Pipe Run None Drill Collar Run 30
 Mud Wt. 9.2 LCM 2# Vis. 57 WL 8.8cc Drill Pipe Size 4 1/2" Ft. Run 4531'
 Blow Description IF: Strong below B.O.B. in 5-10 sec. ISF: Strong below B.O.B. GTS 13.5 mins. in to ISIP. FF: Strong below. (see gas volume report) FSI: Strong below. Venting

Recovery - Total Feet 2750 GIP yes Ft. in DC 30 Ft. in DP 2720'
 Rec. 2690 Feet of CGO 38 %gas 62 %oil %water %mud
 Rec. 60 Feet of CGCM 30 %gas 30 %oil %water 40 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 133 °F Gravity 41 °API D @ 57 °F Corrected Gravity 41.2 °API
 RW N.C. @ _____ °F Chlorides 9500 ppm Recovery _____ Chlorides 9,500 ppm System

AK-1	Alpine	Recorder No. <u>8167</u>	Test <u>✓ 1200</u>
(A) Initial Hydrostatic Mud <u>2216</u> PSI	(depth) <u>4571'</u>	Jars _____	
(B) First Initial Flow Pressure <u>137</u> PSI	Recorder No. <u>11019</u>	Safety Jt. <u>✓ 75</u>	
(C) First Final Flow Pressure <u>136</u> PSI	(depth) <u>4595'</u>	Circ Sub <u>✓ 50</u>	
(D) Initial Shut-In Pressure <u>871</u> PSI	Recorder No. <u>—</u>	Sampler _____	
(E) Second Initial Flow Pressure <u>144</u> PSI	(depth) <u>—</u>	Straddle _____	
(F) Second Final Flow Pressure <u>442</u> PSI	Initial Opening <u>3</u>	Ext. Packer _____	
(G) Final Shut-In Pressure <u>852</u> PSI	Initial Shut-In <u>90</u>	Shale Packer _____	
(Q) Final Hydrostatic Mud <u>2215</u> PSI	Final Flow <u>60</u>	Ruined Packer _____	
	Final Shut-In <u>120</u>	Mileage <u>44</u> <u>✓ 57.5</u>	
	T-On Location <u>0246</u>	Sub Total: <u>1382.5</u>	
	T-Started <u>0405</u>	Std. By <u>4.5</u> <u>✓ 450.0</u>	
	T-Open <u>0748</u>	Acc. Chg: _____	
	T-Pulled <u>1227</u>	Other: _____	
	T-Out <u>1729</u>	Total: <u>1832.5</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative Gary P. Wolan



GAS VOLUME REPORT

1

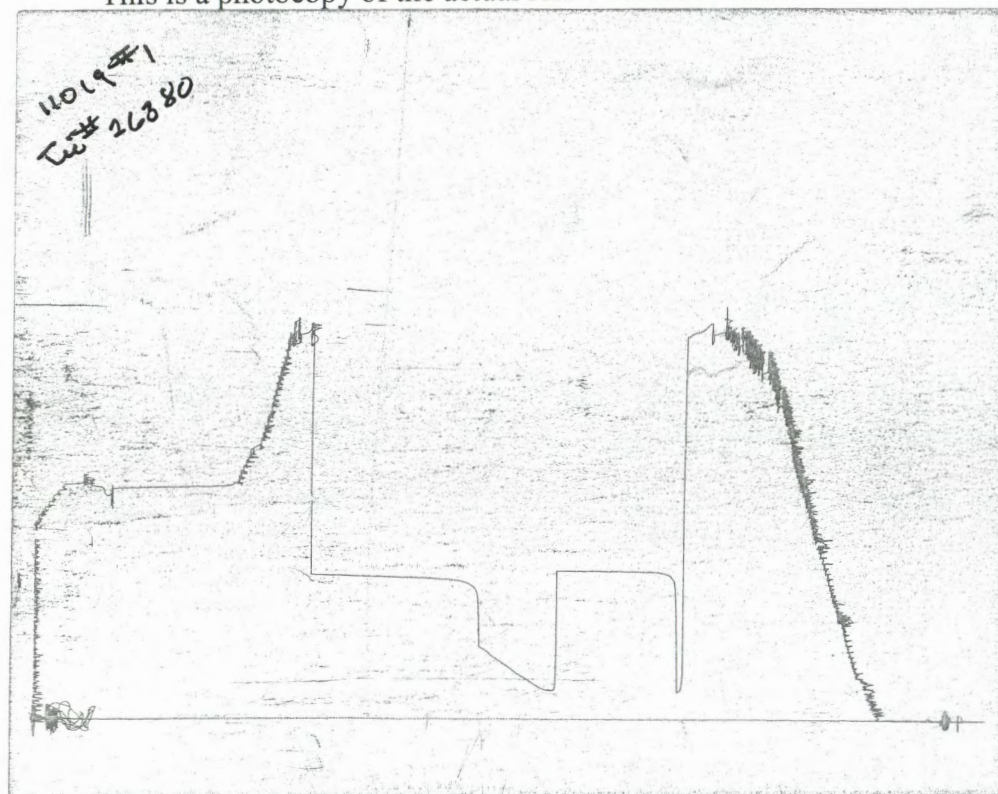
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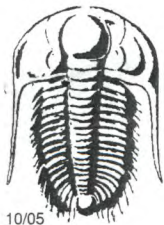
FINAL OPEN

Remarks:

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26381

Test Ticket

Well Name & No. Carver #3 Test No. 2 Date 11-16-06
 Company Lotus Oper. Co. LLC Zone Tested Miss
 Address 1005 Main, Ste 420, Wichita Ks. 67202 Elevation 2041 KB 2030 GL
 Co. Rep / Geo. Tim Hellman Rig Duke Dely - #5
 Location: Sec. 5 Twp. 29 S Rge. 15 W Co. Butte State Ks.
 Comment: _____ Release date / time: _____

Interval Tested 4623 ~ 4670' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 42' Wt. Set Lbs. 32,000 Wt. Pulled Loose/Lbs. 81,000
 Top Packer Depth 4618' Tool Weight 2100 #
 Bottom Packer Depth 4623' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4670' Wt. Pipe Run None Drill Collar Run 0
 Mud Wt. 9.1 LCM 2# Vis. 57 WL 10.8 Drill Pipe Size 4 1/2" Ft. Run 4625'
 Blow Description IF: Weak below 1-5" ISI: No below

FF: Weak below 1/2-2" FSI: No below

Recovery - Total Feet 25 GIP 180 Ft. in DC 0 Ft. in DP 25
 Rec. 25 Feet of 2 1/2" Mud (good order) %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 124 °F Gravity N/A °API D @ _____ °F Corrected Gravity N/A °API
 RW N/A @ _____ °F Chlorides 6500 ppm Recovery _____ Chlorides 6,500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		9266 PSI	8167	✓ 1200
(B) First Initial Flow Pressure		17 PSI	4624'	Jars
(C) First Final Flow Pressure		17 PSI	11019	Safety Jt. ✓ 75
(D) Initial Shut-In Pressure		41 PSI	4665'	Circ Sub
(E) Second Initial Flow Pressure		46 PSI		Sampler
(F) Second Final Flow Pressure		18 PSI		Straddle
(G) Final Shut-In Pressure		44 PSI	Initial Opening	Ext. Packer
(Q) Final Hydrostatic Mud		2272 PSI	Initial Shut-In	Shale Packer

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Approved By [Signature]

Our Representative [Signature]

Final Flow 45
 Final Shut-In 90
 T-On Location 0945
 T-Started 1030
 T-Open 1253
 T-Pulled 1634
 T-Out 1835
 Mileage 57.5
 Sub Total: 1332.5
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: 1332.5

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

