

DRILL STEM TEST REPORT

Prepared For: **I A Operating Inc**

900 N Tyler Rd # 14
Wichita Ks 67212

ATTN: Hal Porter

19-14-20-Ellis-Ks

^W
Evelyn J # 19-1

Start Date: 2005.07.04 @ 11:45:31

End Date: 2005.07.04 @ 17:46:46

Job Ticket #: 21668

DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 03 2007

CONSERVATION DIVISION
WICHITA, KS

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

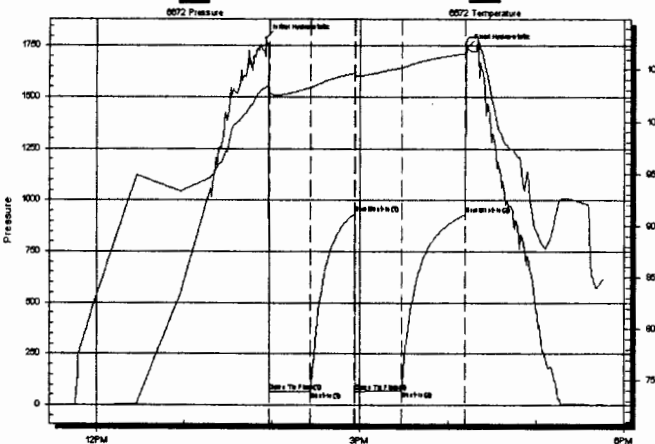
137694

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
	IA Operating Inc 900 N Tyler Rd # 14 Wichita Ks 67212 ATTN: Hal Porter	Evelyn J # 19-1 19-14-20-Ellis-Ks Job Ticket: 21668 DST#: 1 Test Start: 2005.07.04 @ 11:45:31	

GENERAL INFORMATION:			
Formation:	C-G LKC		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole
Time Tool Opened:	13:58:01		Tester: Dan Bangle
Time Test Ended:	17:46:46		Unit No: 21
Interval:	3574.00 ft (KB) To 3675.00 ft (KB) (TVD)	Reference Elevations:	2232.00 ft (KB)
Total Depth:	3675.00 ft (KB) (TVD)		2227.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good KB to GR/CF: 5.00 ft

Serial #: 6672 Inside			
Press@RunDepth:	69.16 psig @ 3577.00 ft (KB)	Capacity:	7000.00 psig
Start Date:	2005.07.04	End Date:	2005.07.04
Start Time:	11:45:32	End Time:	17:46:46
		Time On Btm:	2005.07.04 @ 13:55:31
		Time Off Btm:	2005.07.04 @ 16:13:16

TEST COMMENT: Hit bridge @ 2350 spudded tool - Hit bridge @ 2412 spud tool
 F-Weak died in 10 min
 FF-No blow
 Times-30-30-30-45

Pressure vs. Time 	PRESSURE SUMMARY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1788.06</td><td>103.25</td><td>Initial Hydro-static</td></tr> <tr><td>3</td><td>63.98</td><td>102.97</td><td>Open To Flow (1)</td></tr> <tr><td>31</td><td>66.09</td><td>103.27</td><td>Shut-In(1)</td></tr> <tr><td>61</td><td>936.53</td><td>104.66</td><td>End Shut-In(1)</td></tr> <tr><td>61</td><td>65.87</td><td>104.47</td><td>Open To Flow (2)</td></tr> <tr><td>93</td><td>69.16</td><td>105.18</td><td>Shut-In(2)</td></tr> <tr><td>137</td><td>930.48</td><td>106.58</td><td>End Shut-In(2)</td></tr> <tr><td>138</td><td>1742.87</td><td>107.98</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1788.06	103.25	Initial Hydro-static	3	63.98	102.97	Open To Flow (1)	31	66.09	103.27	Shut-In(1)	61	936.53	104.66	End Shut-In(1)	61	65.87	104.47	Open To Flow (2)	93	69.16	105.18	Shut-In(2)	137	930.48	106.58	End Shut-In(2)	138	1742.87	107.98	Final Hydro-static
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Recovery <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr><td>90.00</td><td>DM</td><td>0.99</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	90.00	DM	0.99																Gas Rates <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)												
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc

Evelyn J # 19-1

900 N Tyler Rd # 14
Wichita Ks 67212

19-14-20-Ellis-Ks

Job Ticket: 21668

DST#: 1

ATTN: Hal Porter

Test Start: 2005.07.04 @ 11:45:31

Tool Information

Drill Pipe:	Length: 3535.00 ft	Diameter: 3.80 inches	Volume: 49.59 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 49.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3574.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	101.00 ft				
Tool Length:	122.00 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			3554.00	
Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Packer	5.00			3569.00	21.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Perforations	1.00			3576.00	
Change Over Sub	1.00			3577.00	
Recorder	0.00	6672	Inside	3577.00	
Drill Pipe	92.00			3669.00	
Recorder	0.00	13254	Outside	3669.00	
Change Over Sub	1.00			3670.00	
Perforations	2.00			3672.00	
Bullnose	3.00			3675.00	101.00 Bottom Packers & Anchor

Total Tool Length: 122.00

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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY																											
	I A Operating Inc 900 N Tyler Rd # 14 Wichita Ks 67212 ATTN: Hal Porter		Evelyn J # 19-1 19-14-20-Ellis-Ks Job Ticket: 21668 DST#: 1 Test Start: 2005.07.04 @ 11:45:31																											
	Mud and Cushion Information <table style="width: 100%;"> <tr> <td style="width: 40%;">Mud Type: Gel Chem</td> <td style="width: 20%;">Cushion Type:</td> <td style="width: 20%;">Oil API:</td> <td style="width: 20%;">deg API</td> </tr> <tr> <td>Mud Weight: 9.00 lb/gal</td> <td>Cushion Length:</td> <td>ft</td> <td>Water Salinity:</td> </tr> <tr> <td>Viscosity: 49.00 sec/qt</td> <td>Cushion Volume:</td> <td>bbl</td> <td>ppm</td> </tr> <tr> <td>Water Loss: 8.39 in³</td> <td>Gas Cushion Type:</td> <td></td> <td></td> </tr> <tr> <td>Resistivity: ohm.m</td> <td>Gas Cushion Pressure:</td> <td>psig</td> <td></td> </tr> <tr> <td>Salinity: 4500.00 ppm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Filter Cake: inches</td> <td></td> <td></td> <td></td> </tr> </table>			Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API	Mud Weight: 9.00 lb/gal	Cushion Length:	ft	Water Salinity:	Viscosity: 49.00 sec/qt	Cushion Volume:	bbl	ppm	Water Loss: 8.39 in ³	Gas Cushion Type:			Resistivity: ohm.m	Gas Cushion Pressure:	psig		Salinity: 4500.00 ppm				Filter Cake: inches		
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Recovery Information Recovery Table <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Length ft</th> <th style="width: 50%;">Description</th> <th style="width: 30%;">Volume bbl</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">90.00</td> <td>DM</td> <td style="text-align: center;">0.989</td> </tr> </tbody> </table> <table style="width: 100%;"> <tr> <td style="width: 33%;">Total Length: 90.00 ft</td> <td style="width: 33%;">Total Volume: 0.989 bbl</td> <td style="width: 33%;"></td> </tr> <tr> <td>Num Fluid Samples: 0</td> <td>Num Gas Bombs: 0</td> <td>Serial #:</td> </tr> <tr> <td>Laboratory Name:</td> <td>Laboratory Location:</td> <td></td> </tr> <tr> <td colspan="3">Recovery Comments:</td> </tr> </table>				Length ft	Description	Volume bbl	90.00	DM	0.989	Total Length: 90.00 ft	Total Volume: 0.989 bbl		Num Fluid Samples: 0	Num Gas Bombs: 0	Serial #:	Laboratory Name:	Laboratory Location:		Recovery Comments:											
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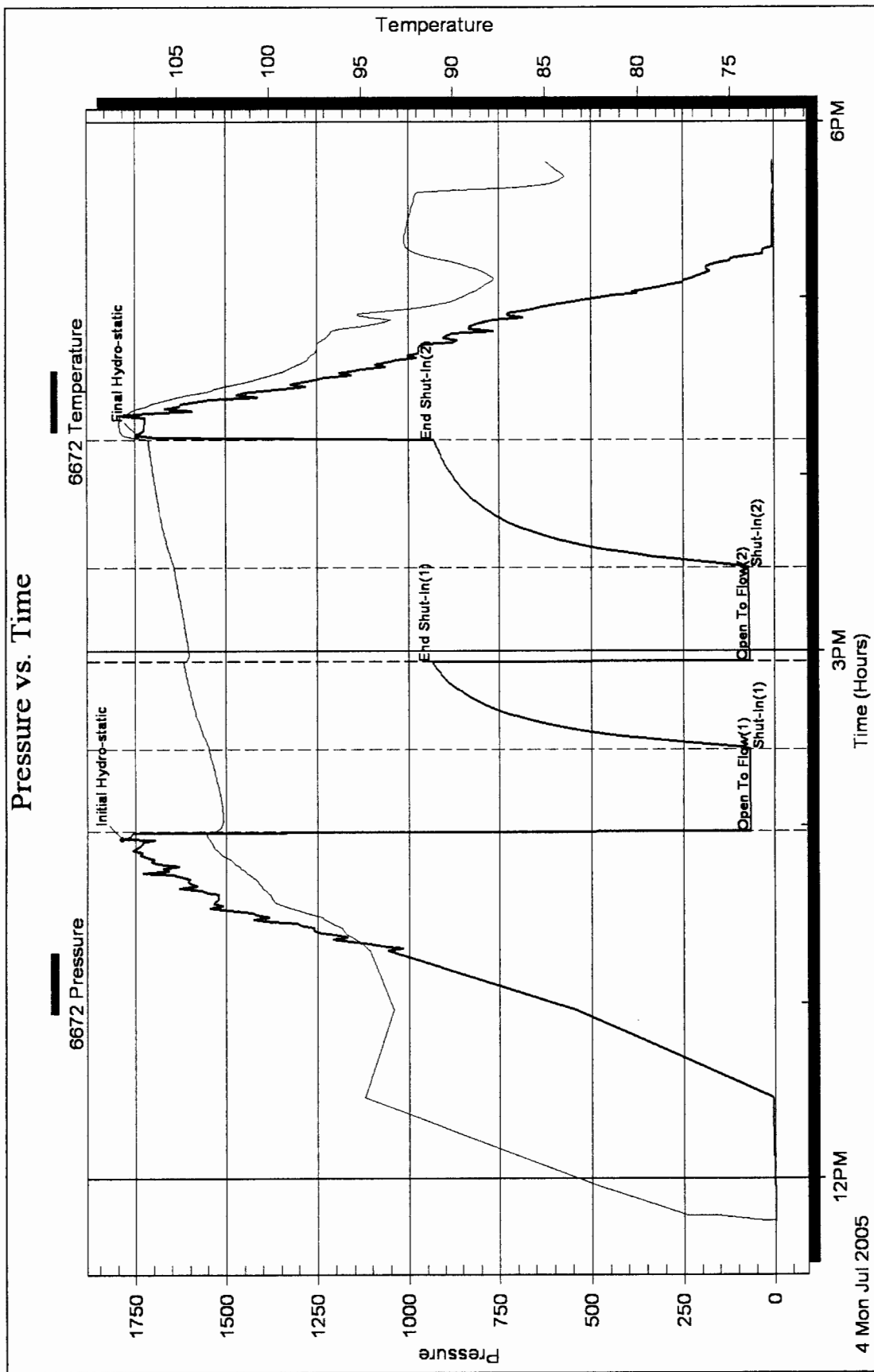
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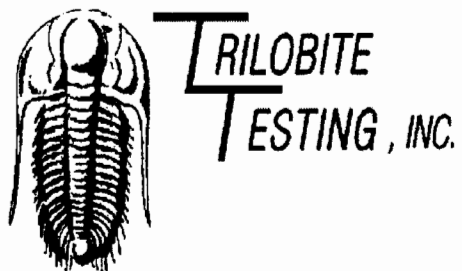
Inside

IA Operating Inc

19-14-20-Ellis-Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

900 N Tyler Rd # 14
Wichita Ks 67212

ATTN: Hal Porter

19-14-20-Ellis-Ks

Evelyn J # 19-1

Start Date: 2005.07.05 @ 04:03:27

End Date: 2005.07.05 @ 09:42:42

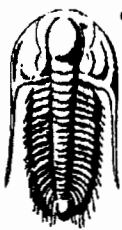
Job Ticket #: 21669 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

137694



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating Inc
900 N Tyler Rd # 14
Wichita Ks 67212
ATTN: Hal Porter

Evelyn J # 19-1
19-14-20-Ellis-Ks
Job Ticket: 21669 **DST#: 2**
Test Start: 2005.07.05 @ 04:03:27

GENERAL INFORMATION:

Formation: **H-K LKC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 05:50:42
Time Test Ended: 09:42:42

Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**

Interval: **3680.00 ft (KB) To 3780.00 ft (KB) (TVD)**
Total Depth: **3780.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2232.00 ft (KB)**
2227.00 ft (CF)
KB to GR/CF: **5.00 ft**

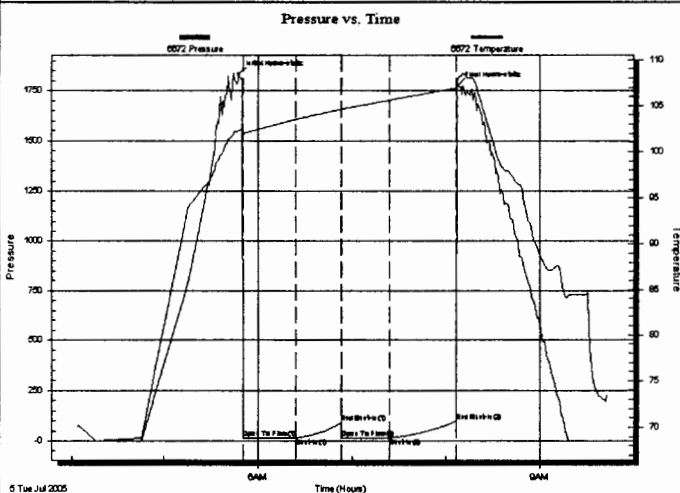
Serial #: 6672

Inside

Press@RunDepth: **14.98 psig @ 3683.00 ft (KB)**
Start Date: **2005.07.05** End Date: **2005.07.05**
Start Time: **04:03:28** End Time: **09:42:42**

Capacity: **7000.00 psig**
Last Calib.: **2005.07.05**
Time On Btm: **2005.07.05 @ 05:47:57**
Time Off Btm: **2005.07.05 @ 08:07:57**

TEST COMMENT: IF-Weak died in 10 min
FF-No blow
Times-30-30-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.09	102.31	Initial Hydro-static
3	12.39	101.61	Open To Flow (1)
37	14.96	103.50	Shut-In(1)
66	89.34	104.62	End Shut-In(1)
66	14.07	104.63	Open To Flow (2)
96	14.98	105.60	Shut-In(2)
139	96.79	106.89	End Shut-In(2)
140	1777.41	107.99	Final Hydro-static

Recovery

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

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

IA Operating Inc

Evelyn J # 19-1

900 N Tyler Rd # 14
Wichita Ks 67212

19-14-20-Ellis-Ks

Job Ticket: 21669

DST#: 2

ATTN: Hal Porter

Test Start: 2005.07.05 @ 04:03:27

Tool Information

Drill Pipe:	Length: 3660.00 ft	Diameter: 3.80 inches	Volume: 51.34 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			Total Volume: 51.49 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3680.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	121.00 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			3660.00	
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Packer	5.00			3675.00	21.00 Bottom Of Top Packer
Packer	5.00			3680.00	
Stubb	1.00			3681.00	
Perforations	1.00			3682.00	
Change Over Sub	1.00			3683.00	
Recorder	0.00	6672	Inside	3683.00	
Drill Pipe	92.00			3775.00	
Recorder	0.00	13254	Outside	3775.00	
Change Over Sub	1.00			3776.00	
Perforations	1.00			3777.00	
Bullnose	3.00			3780.00	100.00 Bottom Packers & Anchor

Total Tool Length: 121.00

137694



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating Inc	Evelyn J # 19-1
900 N Tyler Rd # 14 Wichita Ks 67212	19-14-20-Ellis-Ks
ATTN: Hal Porter	Job Ticket: 21669 DST#: 2
	Test Start: 2005.07.05 @ 04:03:27

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

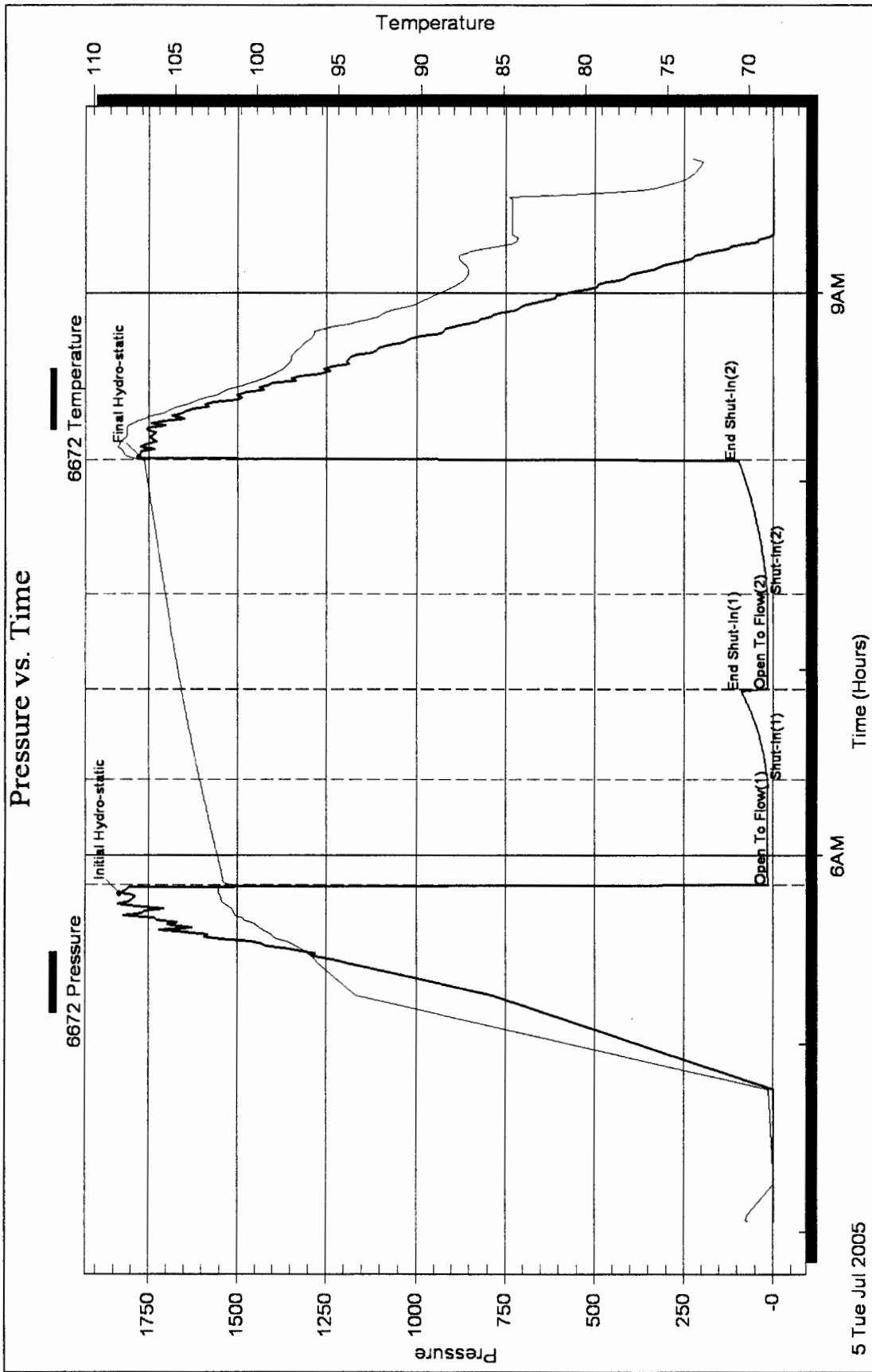
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

900 N Tyler Rd # 14
Wichita Ks 67212

ATTN: Hal Porter

19-14-20-Ellis-Ks

Evelyn J # 19-1

Start Date: 2005.07.06 @ 01:15:29

End Date: 2005.07.06 @ 08:15:29

Job Ticket #: 21670 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating Inc
900 N Tyler Rd # 14
Wichita Ks 67212
ATTN: Hal Porter

Evelyn J # 19-1
19-14-20-Ellis-Ks
Job Ticket: 21670 **DST#: 3**
Test Start: 2005.07.06 @ 01:15:29

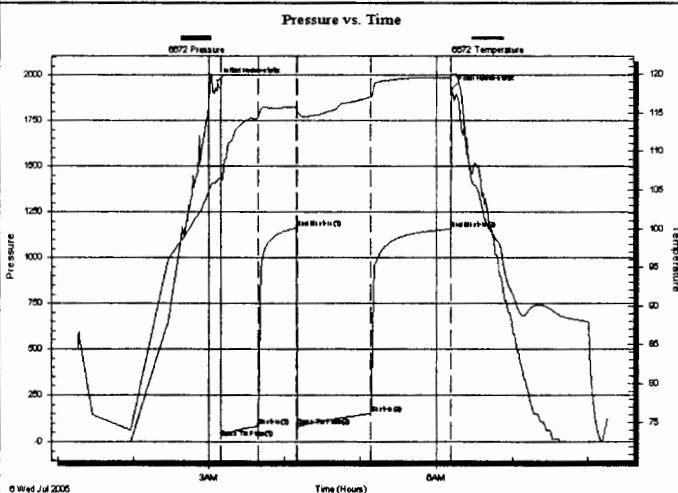
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 03:09:44
Time Test Ended: 08:15:29
Interval: **3906.00 ft (KB) To 3950.00 ft (KB) (TVD)**
Total Depth: **3950.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**
Reference Elevations: **2232.00 ft (KB)**
2227.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6672

Press@RunDepth: **151.20 psig @ ft (KB)**
Start Date: **2005.07.06** End Date: **2005.07.06** Capacity: **7000.00 psig**
Start Time: **01:15:30** End Time: **08:15:29** Last Calib.: **2005.07.06**
Time On Btm: **2005.07.06 @ 03:06:59**
Time Off Btm: **2005.07.06 @ 06:12:14**

TEST COMMENT: F-Weak building to 10" fair blow
SI-Weak steady blow back
FF-Weak building to 4"
Times-30-30-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.24	106.19	Initial Hydro-static
3	23.36	106.00	Open To Flow (1)
32	83.37	114.30	Shut-In(1)
63	1164.83	115.68	End Shut-In(1)
64	85.63	115.38	Open To Flow (2)
122	151.20	117.04	Shut-In(2)
185	1156.67	119.51	End Shut-In(2)
186	1922.44	119.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MCGsyO 30% m 70%o	2.32
175.00	CGsyO 10%g 90%o	2.45
0.00	260 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

IA Operating Inc

Evelyn J # 19-1

900 N Tyler Rd # 14
Wichita Ks 67212

19-14-20-Ellis-Ks

Job Ticket: 21670

DST#: 3

ATTN: Hal Porter

Test Start: 2005.07.06 @ 01:15:29

Tool Information

Drill Pipe:	Length:	3879.00 ft	Diameter:	3.80 inches	Volume:	54.41 bbl	Tool Weight:	2000.00 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:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	54.56 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		3906.00 ft					Final	52000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		44.00 ft						
Tool Length:		65.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3886.00	
Shut In Tool	5.00			3891.00	
Hydraulic tool	5.00			3896.00	
Packer	5.00			3901.00	21.00 Bottom Of Top Packer
Packer	5.00			3906.00	
Stubb	1.00			3907.00	
Perforations	1.00			3908.00	
Change Over Sub	1.00			3909.00	
Recorder	0.00	6672	Inside	3909.00	
Drill Pipe	31.00			3940.00	
Recorder	0.00	13254	Outside	3940.00	
Change Over Sub	1.00			3941.00	
Perforations	6.00			3947.00	
Bullnose	3.00			3950.00	44.00 Bottom Packers & Anchor

Total Tool Length: 65.00

137694

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		FLUID SUMMARY
	IA Operating Inc		Evelyn J # 19-1
	900 N Tyler Rd # 14 Wichita Ks 67212		19-14-20-Ellis-Ks
ATTN: Hal Porter	Job Ticket: 21670	DST#: 3	
	Test Start: 2005.07.06 @ 01:15:29		

Mud and Cushion Information			
Mud Type: Gel Chem	Cushion Type:	Oil API:	36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: inches			

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
185.00	MCGsyO 30%w 70%o	2.322
175.00	CGsyO 10%g 90%o	2.455
0.00	260 GP	0.000

Total Length:	360.00 ft	Total Volume:	4.777 bbl
Num Fluid Samples: 0		Num Gas Bombs: 0	Serial #:
Laboratory Name:		Laboratory Location:	
Recovery Comments:			

Pressure vs. Time

