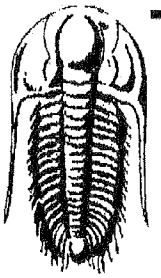
15-141-20381 26-10s-15w IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Killian

26 10 15W Osborne KS

Koelling A #1

Start Date: 2008.01.29 @ 09:35:38
End Date: 2008.01.29 @ 15:32:38
Job Ticket #: 30275 DST #: 1

CONFIDENTIAL
FEB 28 2008
KCC

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

John O Farmer Inc
Koelling A #1
26 10 15W Osborne KS
DST # 1
Topeka 30'
2008.01.29

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 30275 **DST#: 1**

Test Start: 2008.01.29 @ 09:35:38

GENERAL INFORMATION:

Formation: **Topeka 30'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:23:38
Time Test Ended: 15:32:38

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 2716.00 ft (KB) To 2750.00 ft (KB) (TVD)
Total Depth: 2750.00 ft (KB) (TVD)
Hole Diameter: 7.66 inches Hole Condition: Good

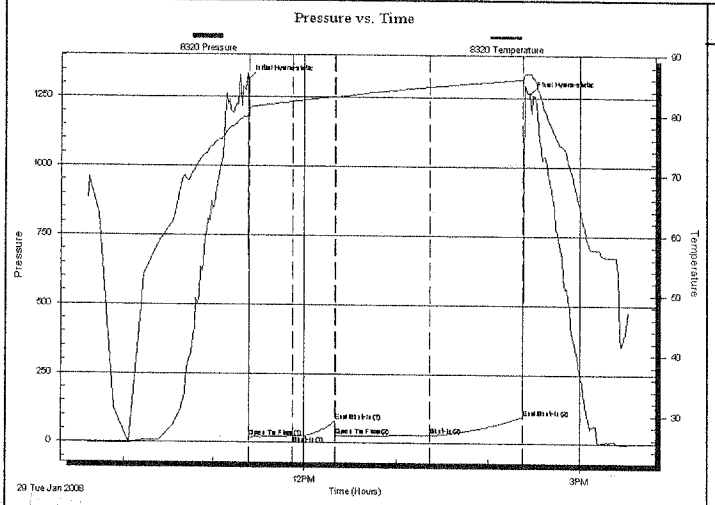
Reference Elevations: 1816.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 28.59 psig @ 2722.00 ft (KB)
Start Date: 2008.01.29 End Date: 2008.01.29
Start Time: 09:35:39 End Time: 15:32:38

Capacity: 7000.00 psig
Last Calib.: 2008.01.29
Time On Btm: 2008.01.29 @ 11:22:38
Time Off Btm: 2008.01.29 @ 14:27:08

TEST COMMENT: IFP Weak surface blow built to 1 "
ISI Weak surface blow back throughout
FFP Weak 1/4 " blow throughout
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1313.96	80.04	Initial Hydro-static
1	19.78	80.81	Open To Flow (1)
30	24.46	82.22	Shut-In(1)
58	78.20	83.04	End Shut-In(1)
59	25.95	83.04	Open To Flow (2)
120	28.59	84.75	Shut-In(2)
180	97.28	86.09	End Shut-In(2)
185	1262.97	87.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 5%O 95%M	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 30275 **DST#: 1**

Test Start: 2008.01.29 @ 09:35:38

Tool Information

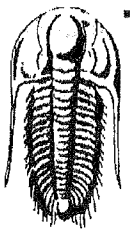
Drill Pipe:	Length:	2587.00 ft	Diameter:	3.82 inches	Volume:	36.67 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	37.27 bbl	

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	2716.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	34.00 ft
Tool Length:	55.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	40000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	35000.00 lb
Final	35000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2696.00		
Shut In Tool	5.00			2701.00		
Hydraulic tool	5.00			2706.00		
Packer	5.00			2711.00	21.00	Bottom Of Top Packer
Packer	5.00			2716.00		
Stubb	1.00			2717.00		
Perforations	5.00			2722.00		
Recorder	0.00	8320	Inside	2722.00		
Recorder	0.00	8367	Inside	2722.00		
Perforations	25.00			2747.00		
Bullnose	3.00			2750.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**55.00**					



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 30275 **DST#: 1**

Test Start: 2008.01.29 @ 09:35:38

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:	ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

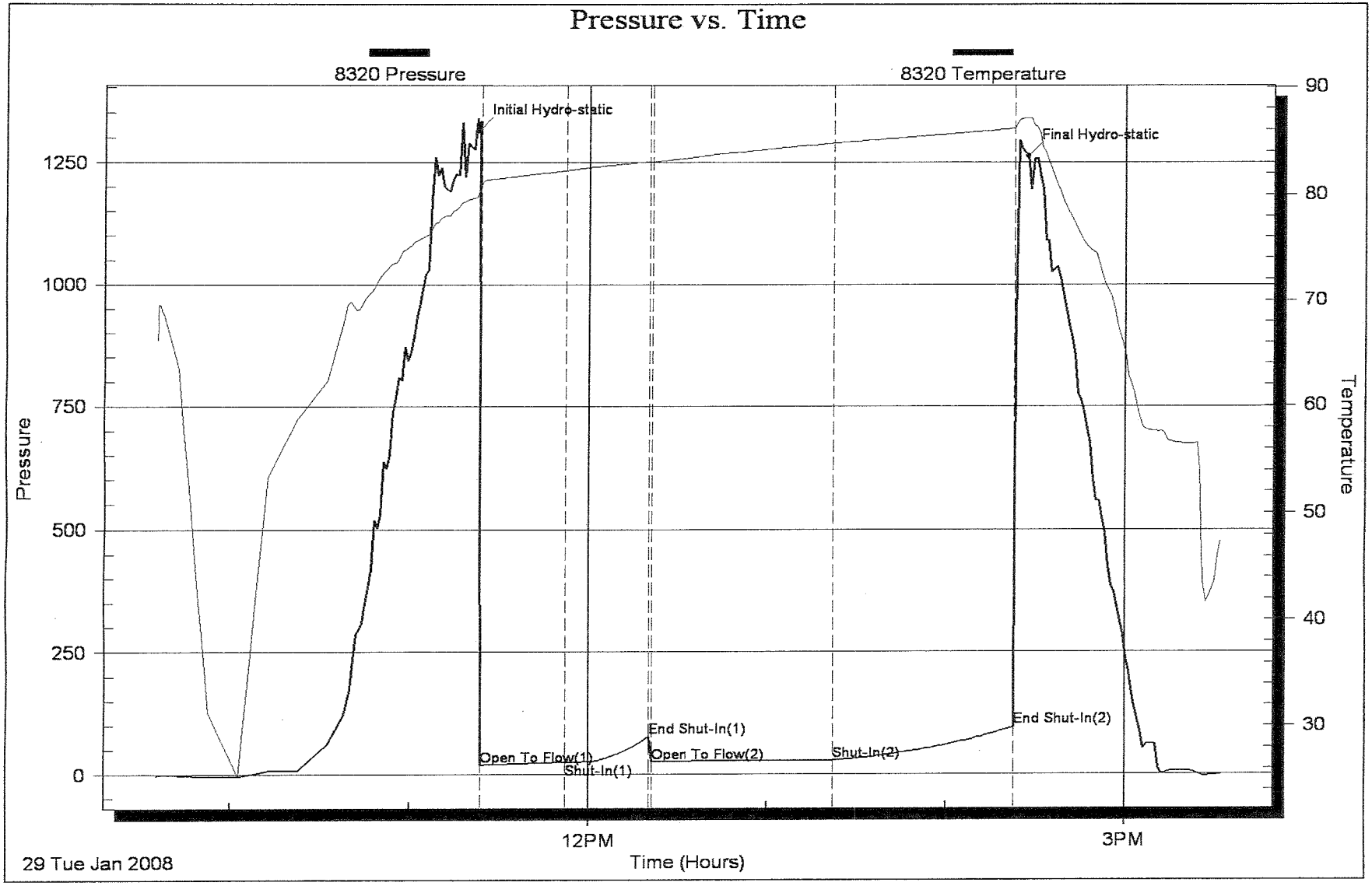
Recovery Information

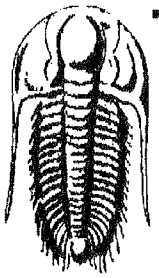
Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM 5%O 95%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
1250
1000
750
500
250
0
90
80
70
60
50
40
30
12PM
3PM
29 Tue Jan 2008
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Killian

26 10 15W Osborne KS

Koelling A #1

Start Date: 2008.01.30 @ 09:10:15

End Date: 2008.01.30 @ 15:04:45

Job Ticket #: 31501 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31501 **DST#: 2**

Test Start: 2008.01.30 @ 09:10:15

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:41:15
Time Test Ended: 15:04:45

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3010.00 ft (KB) To 3040.00 ft (KB) (TVD)
Total Depth: 3040.00 ft (KB) (TVD)
Hole Diameter: 7.66 inches Hole Condition: Good

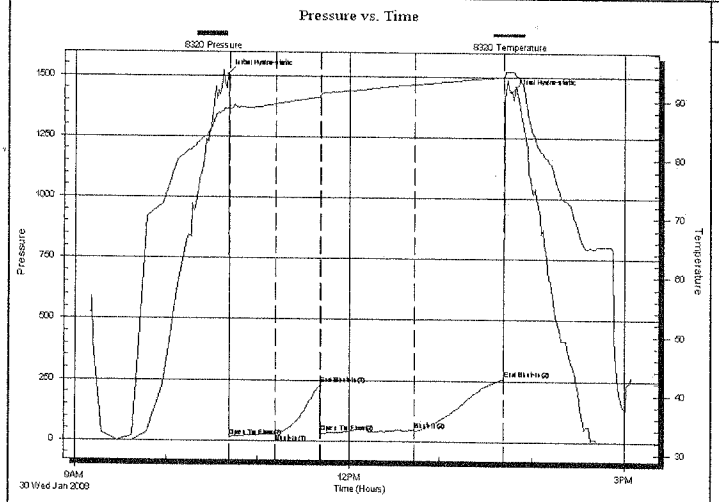
Reference Elevations: 1816.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 46.63 psig @ 3011.00 ft (KB)
Start Date: 2008.01.30 End Date: 2008.01.30
Start Time: 09:10:16 End Time: 15:04:45

Capacity: 7000.00 psig
Last Calib.: 2008.01.30
Time On Btm: 2008.01.30 @ 10:40:15
Time Off Btm: 2008.01.30 @ 13:46:15

TEST COMMENT: IFP Weak surface blow built to 1 "
ISI Weak surface blow back throughout
FFP Weak surface blow built to 1/2 "
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1505.68	88.58	Initial Hydro-static
1	14.19	88.50	Open To Flow (1)
32	27.46	89.38	Shut-In(1)
61	231.25	90.56	End Shut-In(1)
61	34.88	90.77	Open To Flow (2)
123	46.63	92.77	Shut-In(2)
181	258.42	94.17	End Shut-In(2)
186	1437.46	95.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 20%O 80%M	0.30

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31501 **DST#: 2**

Test Start: 2008.01.30 @ 09:10:15

Tool Information

Drill Pipe:	Length:	2896.00 ft	Diameter:	3.82 inches	Volume:	41.05 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	41.65 bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	3010.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	30.00 ft
Tool Length:	51.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		45000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	36000.00 lb
	Final	36000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2990.00		
Shut In Tool	5.00			2995.00		
Hydraulic tool	5.00			3000.00		
Packer	5.00			3005.00	21.00	Bottom Of Top Packer
Packer	5.00			3010.00		
Stubb	1.00			3011.00		
Recorder	0.00	8320	Inside	3011.00		
Recorder	0.00	8367	Inside	3011.00		
Perforations	26.00			3037.00		
Bullnose	3.00			3040.00	30.00	Bottom Packers & Anchor
Total Tool Length:	**51.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31501 **DST#: 2**

Test Start: 2008.01.30 @ 09:10:15

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

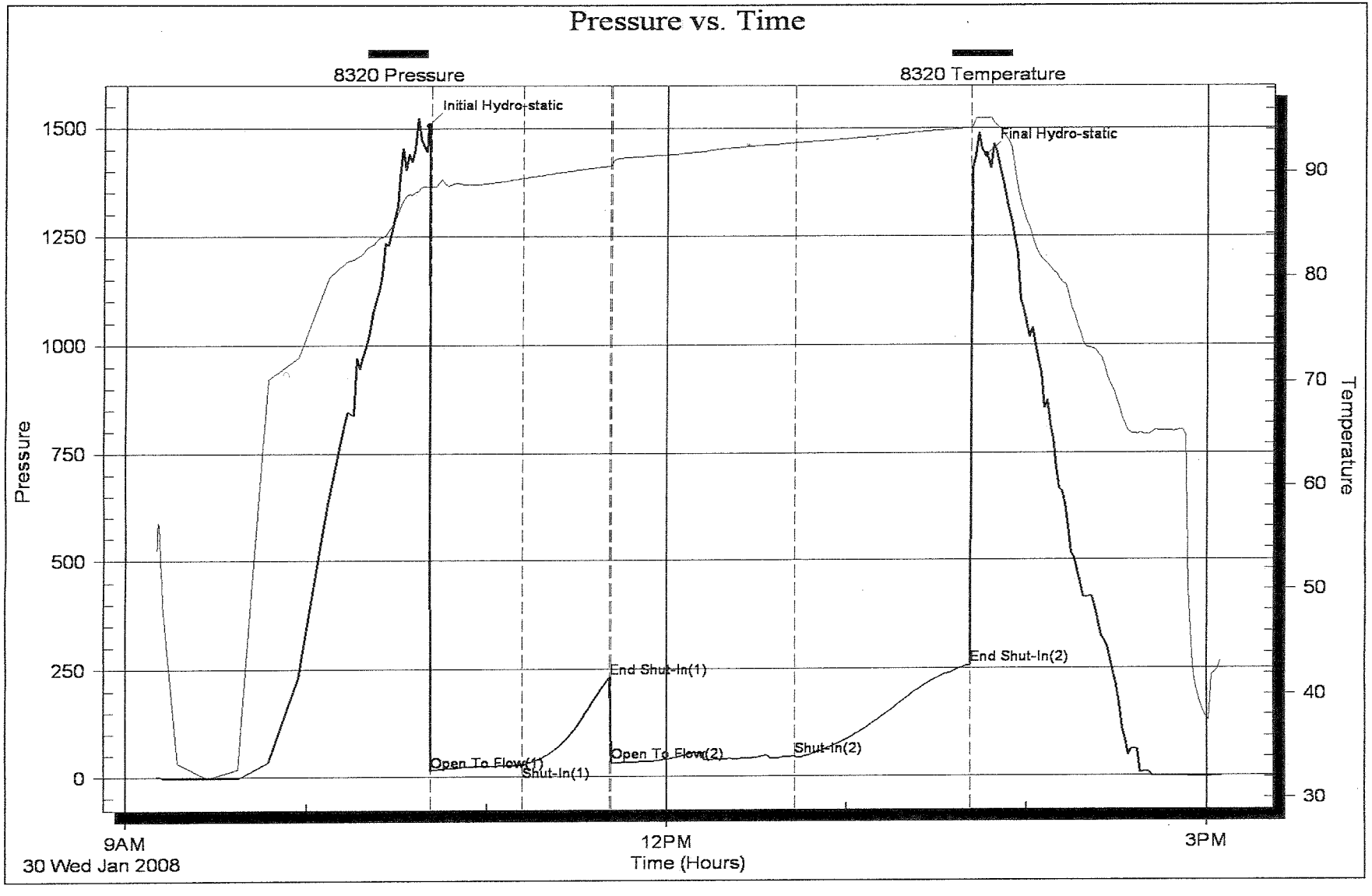
Recovery Information

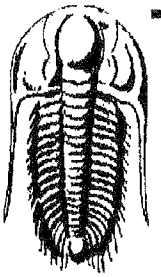
Recovery Table

Length ft	Description	Volume bbl
62.00	OCM 20%O 80%M	0.305

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
90
80
70
60
50
40
30
9AM
30 Wed Jan 2008
12PM
Time (Hours)
3PM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Killian

26 10 15W Osborne KS

Koelling A #1

Start Date: 2008.01.30 @ 19:45:08
End Date: 2008.01.31 @ 01:38:08
Job Ticket #: 31502 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

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31502 **DST#: 3**

Test Start: 2008.01.30 @ 19:45:08

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:05:08
Time Test Ended: 01:38:08

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3038.00 ft (KB) To 3058.00 ft (KB) (TVD)
Total Depth: 3058.00 ft (KB) (TVD)
Hole Diameter: 7.66 inches Hole Condition: Good

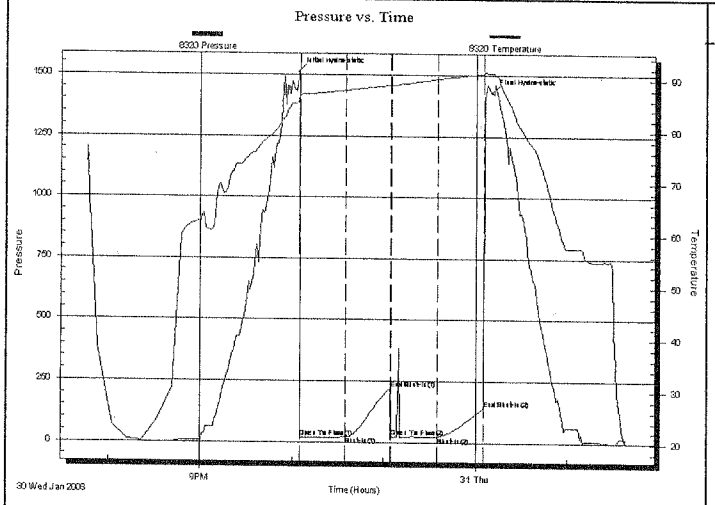
Reference Elevations: 1816.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 22.91 psig @ 3039.00 ft (KB)
Start Date: 2008.01.30 End Date: 2008.01.31
Start Time: 19:45:09 End Time: 01:38:08

Capacity: 7000.00 psig
Last Calib.: 2008.01.31
Time On Btm: 2008.01.30 @ 22:04:08
Time Off Btm: 2008.01.31 @ 00:10:08

TEST COMMENT: IFP Weak surface blow died in 2.5 min
ISI No blow back
FFP No blow flushed tool no blow
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.52	86.18	Initial Hydro-static
1	16.22	86.89	Open To Flow (1)
31	20.63	87.91	Shut-In(1)
60	219.15	88.88	End Shut-In(1)
61	20.38	88.90	Open To Flow (2)
91	22.91	90.10	Shut-In(2)
121	139.22	91.15	End Shut-In(2)
126	1428.38	91.34	Final Hydro-static

Recovery

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

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31502 **DST#: 3**

Test Start: 2008.01.30 @ 19:45:08

Tool Information

Drill Pipe:	Length:	2917.00 ft	Diameter:	3.82 inches	Volume:	41.35 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	41.95 bbl	

Drill Pipe Above KB:	23.00 ft
Depth to Top Packer:	3038.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	20.00 ft
Tool Length:	41.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	45000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	36000.00 lb
Final	36000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3018.00		
Shut In Tool	5.00			3023.00		
Hydraulic tool	5.00			3028.00		
Packer	5.00			3033.00	21.00	Bottom Of Top Packer
Packer	5.00			3038.00		
Stubb	1.00			3039.00		
Recorder	0.00	8320	Inside	3039.00		
Recorder	0.00	8367	Inside	3039.00		
Perforations	16.00			3055.00		
Bullnose	3.00			3058.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31502 **DST#: 3**

Test Start: 2008.01.30 @ 19:45:08

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

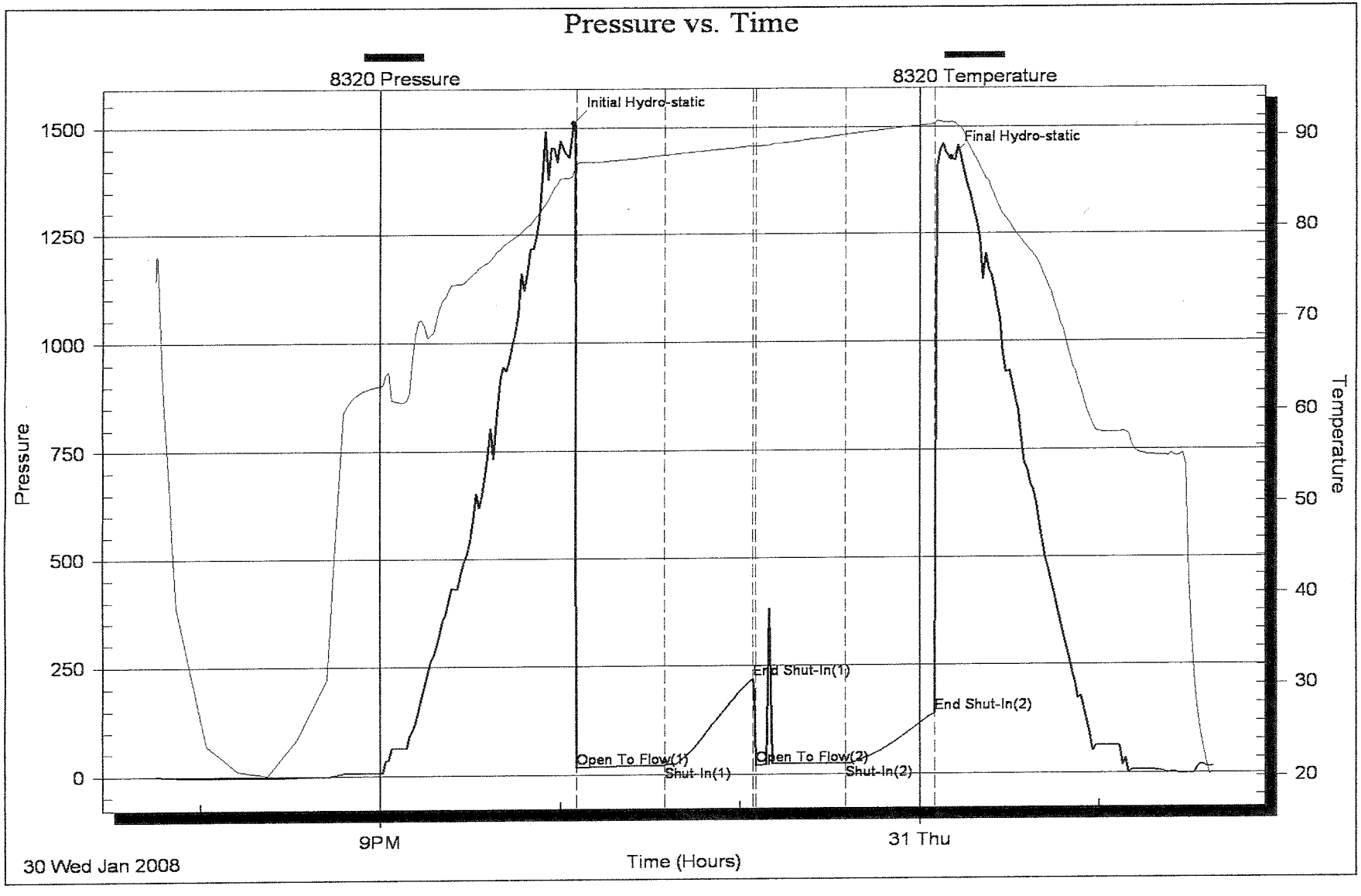
Recovery Information

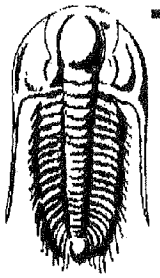
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	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
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
0
Pressure
90
80
70
60
50
40
30
20
Temperature
9PM
31 Thu
30 Wed Jan 2008
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Killian

26 10 15W Osborne KS

Koelling A #1

Start Date: 2008.01.31 @ 09:33:27
End Date: 2008.01.31 @ 15:06:27
Job Ticket #: 31503 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

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31503 **DST#: 4**

Test Start: 2008.01.31 @ 09:33:27

GENERAL INFORMATION:

Formation: **LKC "E-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:59:27
Time Test Ended: 15:06:27

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

Interval: 3058.00 ft (KB) To 3095.00 ft (KB) (TVD)
Total Depth: 3095.00 ft (KB) (TVD)
Hole Diameter: 7.66 inches Hole Condition: Good

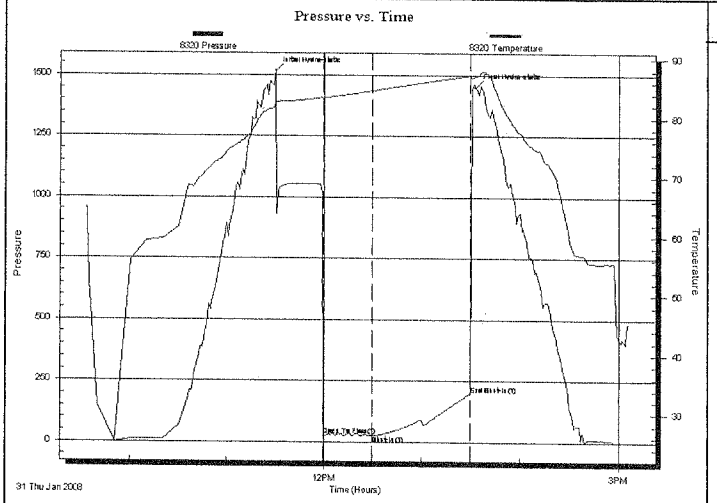
Reference Elevations: 1816.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**

Press@RunDepth: 27.83 psig @ 3067.00 ft (KB)
Start Date: 2008.01.31 End Date: 2008.01.31
Start Time: 09:33:28 End Time: 15:06:27

Capacity: 7000.00 psig
Last Calib.: 2008.01.31
Time On Btm: 2008.01.31 @ 11:30:27
Time Off Btm: 2008.01.31 @ 13:32:57

TEST COMMENT: IFP Weak surface blow built to 3/4 "
ISI No blow back
FFP Weak surface blow throughout
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1516.01	82.52	Initial Hydro-static
29	25.70	83.42	Open To Flow (1)
60	27.83	84.66	Shut-In(1)
120	195.25	87.27	End Shut-In(1)
123	1452.03	87.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/scum of Oil	0.02

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31503 **DST#: 4**

Test Start: 2008.01.31 @ 09:33:27

Tool Information

Drill Pipe:	Length:	2926.00 ft	Diameter:	3.82 inches	Volume:	41.48 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	42.08 bbl	

Drill Pipe Above KB:	12.00 ft
Depth to Top Packer:	3058.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	37.00 ft
Tool Length:	58.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	45000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	36000.00 lb
Final	36000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3038.00		
Shut In Tool	5.00			3043.00		
Hydraulic tool	5.00			3048.00		
Packer	5.00			3053.00	21.00	Bottom Of Top Packer
Packer	5.00			3058.00		
Stubb	1.00			3059.00		
Perforations	8.00			3067.00		
Recorder	0.00	8320	Inside	3067.00		
Recorder	0.00	8367	Inside	3067.00		
Perforations	25.00			3092.00		
Bullnose	3.00			3095.00	37.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31503 **DST#: 4**

Test Start: 2008.01.31 @ 09:33:27

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

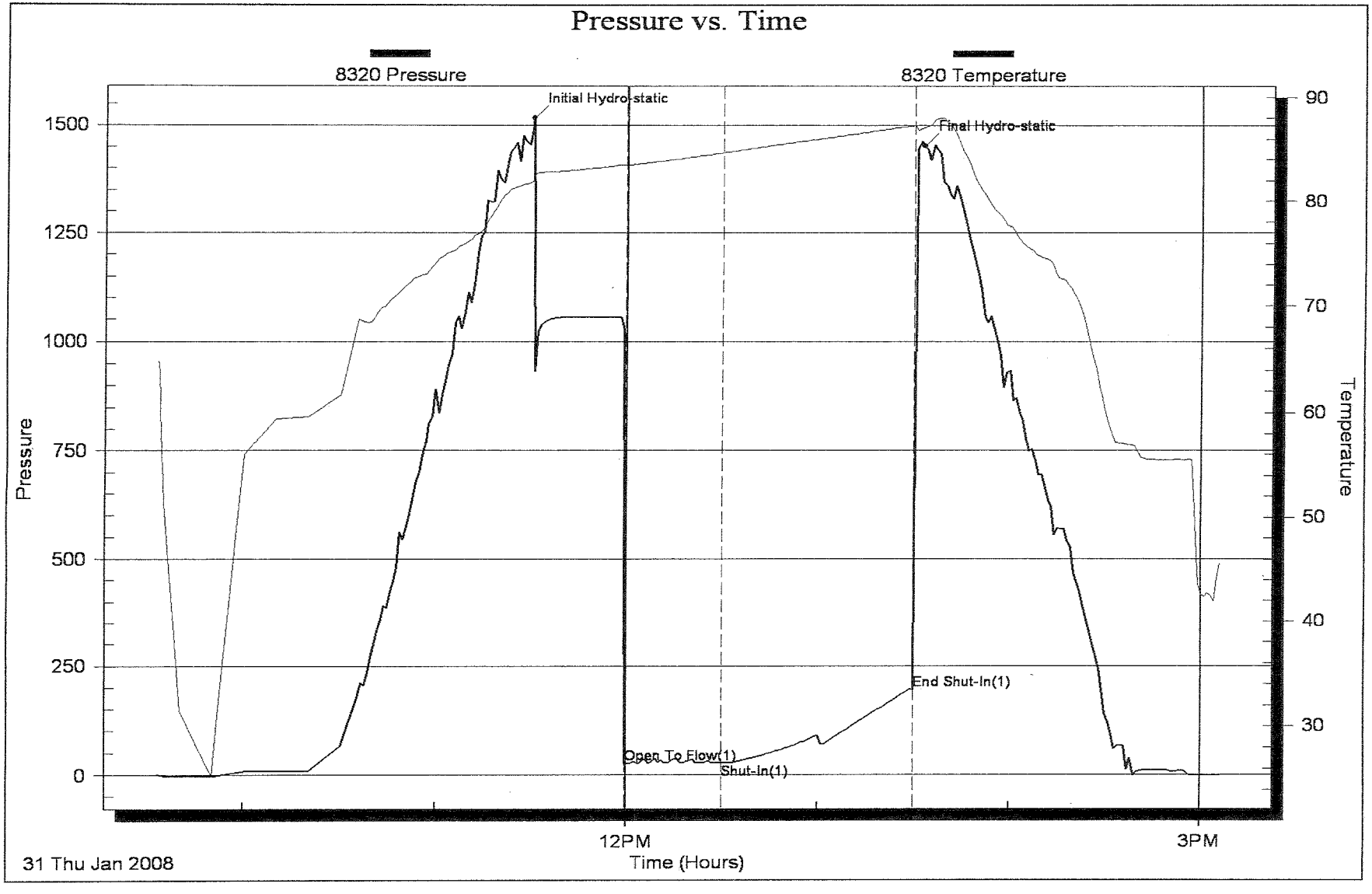
Recovery Information

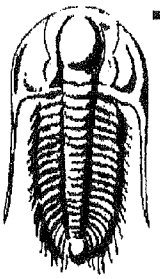
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/scum of Oil	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
8320 Pressure
8320 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
1500
1250
1000
750
500
250
0
Pressure
90
80
70
60
50
40
30
Temperature
12PM
3PM
31 Thu Jan 2008
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Randy Killian

26 10 15W Osborne KS

Koelling A #1

Start Date: 2008.02.01 @ 01:01:07
End Date: 2008.02.01 @ 07:37:07
Job Ticket #: 31504 DST #: 5

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31504 **DST#: 5**

Test Start: 2008.02.01 @ 01:01:07

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:54:37
Time Test Ended: 07:37:07

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21

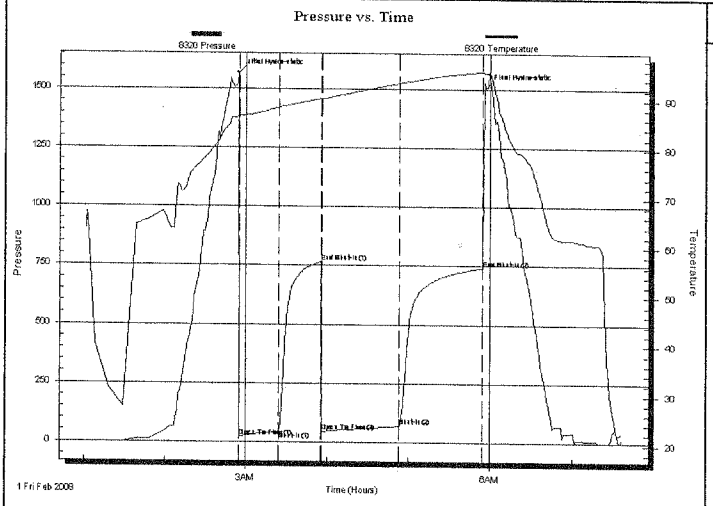
Interval: 3141.00 ft (KB) To 3212.00 ft (KB) (TVD)
Total Depth: 2750.00 ft (KB) (TVD)
Hole Diameter: 7.66 inches Hole Condition: Good

Reference Elevations: 1816.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Inside**
Press@RunDepth: 67.31 psig @ 3151.00 ft (KB)
Start Date: 2008.02.01 End Date: 2008.02.01
Start Time: 01:01:08 End Time: 07:37:07

Capacity: 7000.00 psig
Last Calib.: 2008.02.01
Time On Btm: 2008.02.01 @ 02:54:07
Time Off Btm: 2008.02.01 @ 05:57:07

TEST COMMENT: IFP Weak surface blow built to 2.5 "
ISI No blow back
FFP Weak surface blow built to 1 "
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.74	86.77	Initial Hydro-static
1	19.33	86.50	Open To Flow (1)
31	42.23	88.56	Shut-In(1)
61	766.34	90.29	End Shut-In(1)
62	44.63	90.26	Open To Flow (2)
119	67.31	93.52	Shut-In(2)
181	741.38	95.87	End Shut-In(2)
183	1507.39	95.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.34

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31504 **DST#: 5**

Test Start: 2008.02.01 @ 01:01:07

Tool Information

Drill Pipe:	Length:	3017.00 ft	Diameter:	3.82 inches	Volume:	42.77 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	
					Total Volume:	43.37 bbl	

Drill Pipe Above KB:	20.00 ft
Depth to Top Packer:	3141.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	71.00 ft
Tool Length:	92.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	36000.00 lb
Final	38000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3121.00		
Shut In Tool	5.00			3126.00		
Hydraulic tool	5.00			3131.00		
Packer	5.00			3136.00	21.00	Bottom Of Top Packer
Packer	5.00			3141.00		
Stubb	1.00			3142.00		
Perforations	8.00			3150.00		
Change Over Sub	1.00			3151.00		
Recorder	0.00	8320	Inside	3151.00		
Recorder	0.00	8367	Inside	3151.00		
Blank Spacing	31.00			3182.00		
Change Over Sub	1.00			3183.00		
Perforations	26.00			3209.00		
Bullnose	3.00			3212.00	71.00	Bottom Packers & Anchor
Total Tool Length:	**92.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Randy Killian

Koelling A #1

26 10 15W Osborne KS

Job Ticket: 31504 **DST#: 5**

Test Start: 2008.02.01 @ 01:01:07

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.17 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

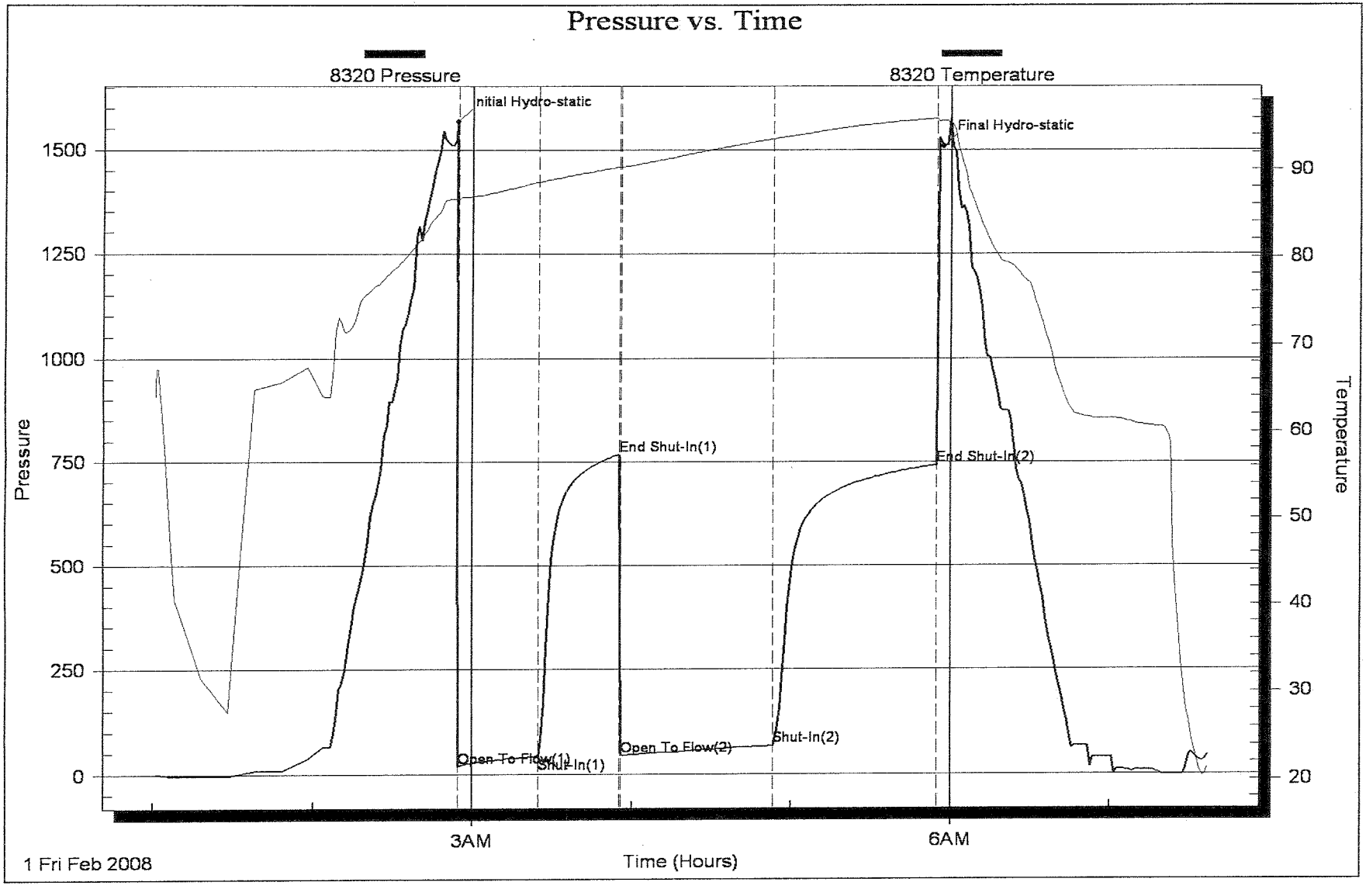
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud	0.344

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:


Pressure vs. Time
8320 Pressure
8320 Temperature
nitial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
0
Pressure
90
80
70
60
50
40
30
20
Temperature
3AM
6AM
Time (Hours)
1 Fri Feb 2008