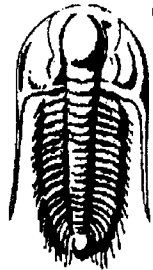


15-065-23120

2-9s-22w



TRILOBITE
TESTING, INC.

CONFIDENTIAL
MAR 15 2006
KCC

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

2-9s-22w Graham

Billips B # 1

Start Date: 2006.01.07 @ 02:24:04

End Date: 2006.01.07 @ 09:59:34

Job Ticket #: 23309

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer, Inc.

Billips B # 1

2-9s-22w Graham

DST # 1

KC J - K

2006.01.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc.

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

Billips B # 1

2-9s-22w Graham

Job Ticket: 23309

DST#: 1

Test Start: 2006.01.07 @ 02:24:04

GENERAL INFORMATION:

Formation: **KC J - K**

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

Time Tool Opened: 04:56:34

Time Test Ended: 09:59:34

Test Type: **Conventional Bottom Hole**

Tester: **Michael Armbrister**

Unit No: **32**

Interval: **3607.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Total Depth: **3660.00 ft (KB) (TVD)**

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

Reference Elevations: **2204.00 ft (KB)**

2196.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: **45.42 psig @ 3615.00 ft (KB)**

Start Date: **2006.01.07**

End Date:

2006.01.07

Start Time: **02:24:09**

End Time:

09:59:33

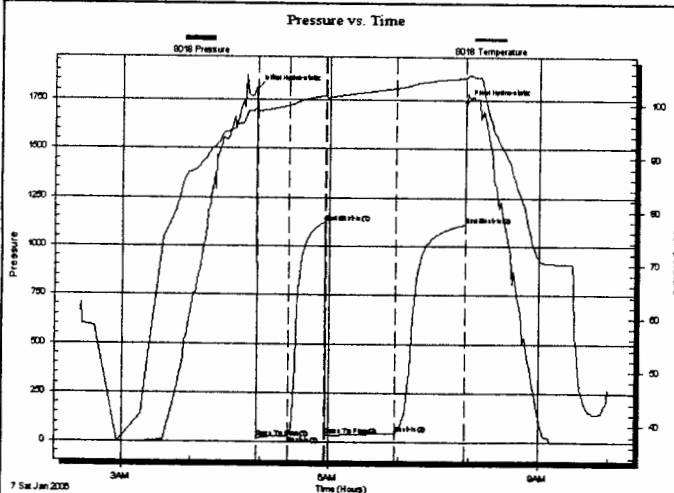
Capacity: **7000.00 psig**

Last Calib.: **2006.01.07**

Time On Btm: **2006.01.07 @ 04:56:04**

Time Off Btm: **2006.01.07 @ 07:57:04**

TEST COMMENT: IF- 1" Slow building blow
IS- No blow
FF- 2 1/2" Slow building blow
FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.32	99.26	Initial Hydro-static
1	18.18	98.88	Open To Flow (1)
29	31.87	99.87	Shut-In (1)
60	1123.95	101.75	End Shut-In (1)
61	33.80	101.42	Open To Flow (2)
121	45.42	103.12	Shut-In (2)
180	1112.41	105.07	End Shut-In (2)
181	1736.26	105.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Oil cut mud 40%o 60%	0.50
20.00	Mud & Oil 50%o 50%	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23309

DST#: 1

ATTN: Brad Hutchison

Test Start: 2006.01.07 @ 02:24:04

Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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:	42000.00 lb
			Total Volume: 50.33 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3607.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	73.00 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			3588.00	
Shut In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Packer	4.00			3602.00	20.00 Bottom Of Top Packer
Packer	5.00			3607.00	
Stubb	1.00			3608.00	
Perforations	6.00			3614.00	
Change Over Sub	1.00			3615.00	
Recorder	0.00	8018	Inside	3615.00	
Blank Spacing	31.00			3646.00	
Change Over Sub	1.00			3647.00	
Recorder	0.00	11084	Outside	3647.00	
Perforations	10.00			3657.00	
Bullnose	3.00			3660.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23309

DST#: 1

ATTN: Brad Hutchison

Test Start: 2006.01.07 @ 02:24:04

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.77 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Oil cut mud 40%o 60%	0.498
20.00	Mud & Oil 50%o 50%	0.281

Total Length: 75.00 ft

Total Volume: 0.779 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

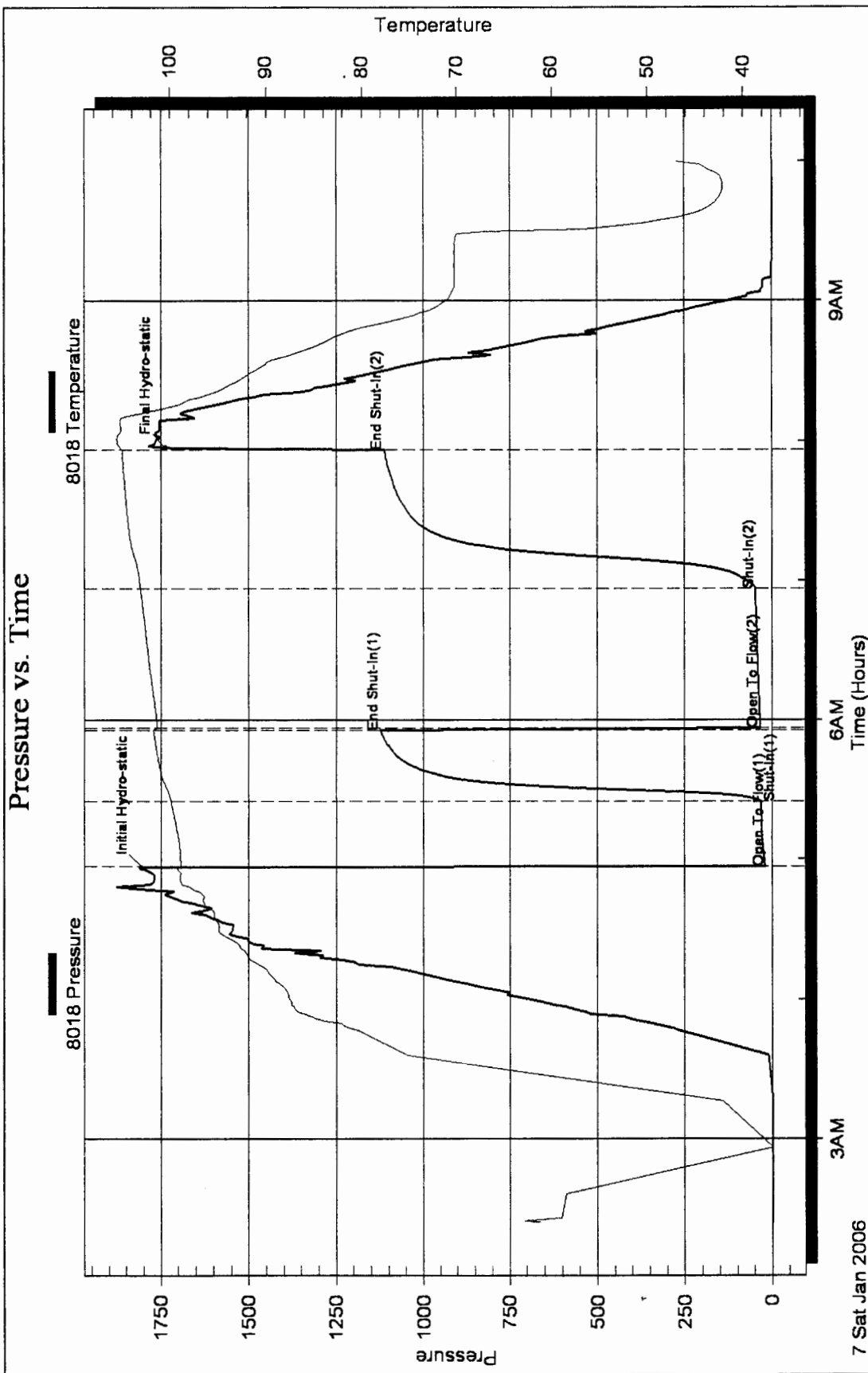
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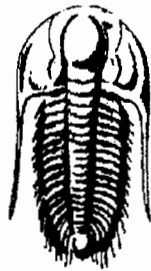
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **JO Farmer**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

2-9s-22w Graham

Billips B # 1

Start Date: 2006.01.07 @ 22:24:43

End Date: 2006.01.08 @ 03:55:13

Job Ticket #: 23310

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

JO Farmer

Billips B # 1

2-9s-22w Graham

DST # 2

Marmaton

2006.01.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JO Farmer

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

Billips B # 1

2-9s-22w Graham

Job Ticket: 23310

DST#: 2

Test Start: 2006.01.07 @ 22:24:43

GENERAL INFORMATION:

Formation: **Marmaton**

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

Time Tool Opened: 00:06:13

Time Test Ended: 03:55:13

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 32

Interval: **3694.00 ft (KB) To 3775.00 ft (KB) (TVD)**

Total Depth: **3775.00 ft (KB) (TVD)**

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

Reference Elevations: **2204.00 ft (KB)**

2196.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **8018** Inside

Press@RunDepth: **21.64 psig @ 3702.00 ft (KB)**

Start Date: **2006.01.07**

End Date:

2006.01.08

Start Time: **22:24:48**

End Time:

03:55:12

Capacity: **7000.00 psig**

Last Calib.: **2006.01.08**

Time On Btm: **2006.01.08 @ 00:04:13**

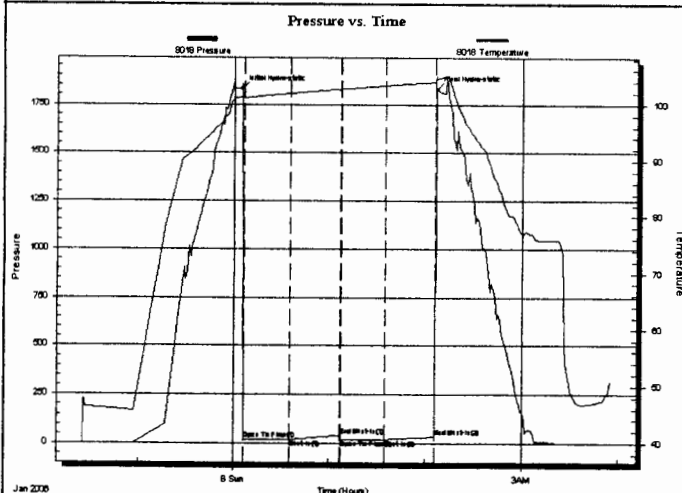
Time Off Btm: **2006.01.08 @ 02:06:43**

TEST COMMENT: **FF- 1/4" Blow in 4m died back to weak surface blow**

ISL- no blow

FF- No blow

FSL- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1828.59	101.34	Initial Hydro-static
2	18.70	101.16	Open To Flow (1)
32	20.72	102.03	Shut-In(1)
63	41.03	102.77	End Shut-In(1)
64	20.93	102.79	Open To Flow (2)
91	21.64	103.40	Shut-In(2)
122	33.56	104.04	End Shut-In(2)
123	1828.97	104.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

JO Farmer

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23310

DST#: 2

ATTN: Brad Hutchison

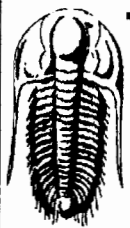
Test Start: 2006.01.07 @ 22:24:43

Tool Information

Drill Pipe:	Length:	3667.00 ft	Diameter:	3.80 inches	Volume:	51.44 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 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:	42000.00 lb
					Total Volume:	51.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		23.00 ft					String Weight: Initial	42000.00 lb
Depth to Top Packer:		3694.00 ft					Final	42000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		81.00 ft						
Tool Length:		101.00 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			3675.00	
Shut In Tool	5.00			3680.00	
Hydraulic tool	5.00			3685.00	
Packer	4.00			3689.00	20.00 Bottom Of Top Packer
Packer	5.00			3694.00	
Stubb	1.00			3695.00	
Perforations	6.00			3701.00	
Change Over Sub	1.00			3702.00	
Recorder	0.00	8018	Inside	3702.00	
Blank Spacing	62.00			3764.00	
Change Over Sub	1.00			3765.00	
Recorder	0.00	11084	Outside	3765.00	
Perforations	7.00			3772.00	
Bullnose	3.00			3775.00	81.00 Bottom Packers & Anchor

Total Tool Length: 101.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

JO Farmer

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23310

DST#: 2

ATTN: Brad Hutchison

Test Start: 2006.01.07 @ 22:24:43

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.76 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

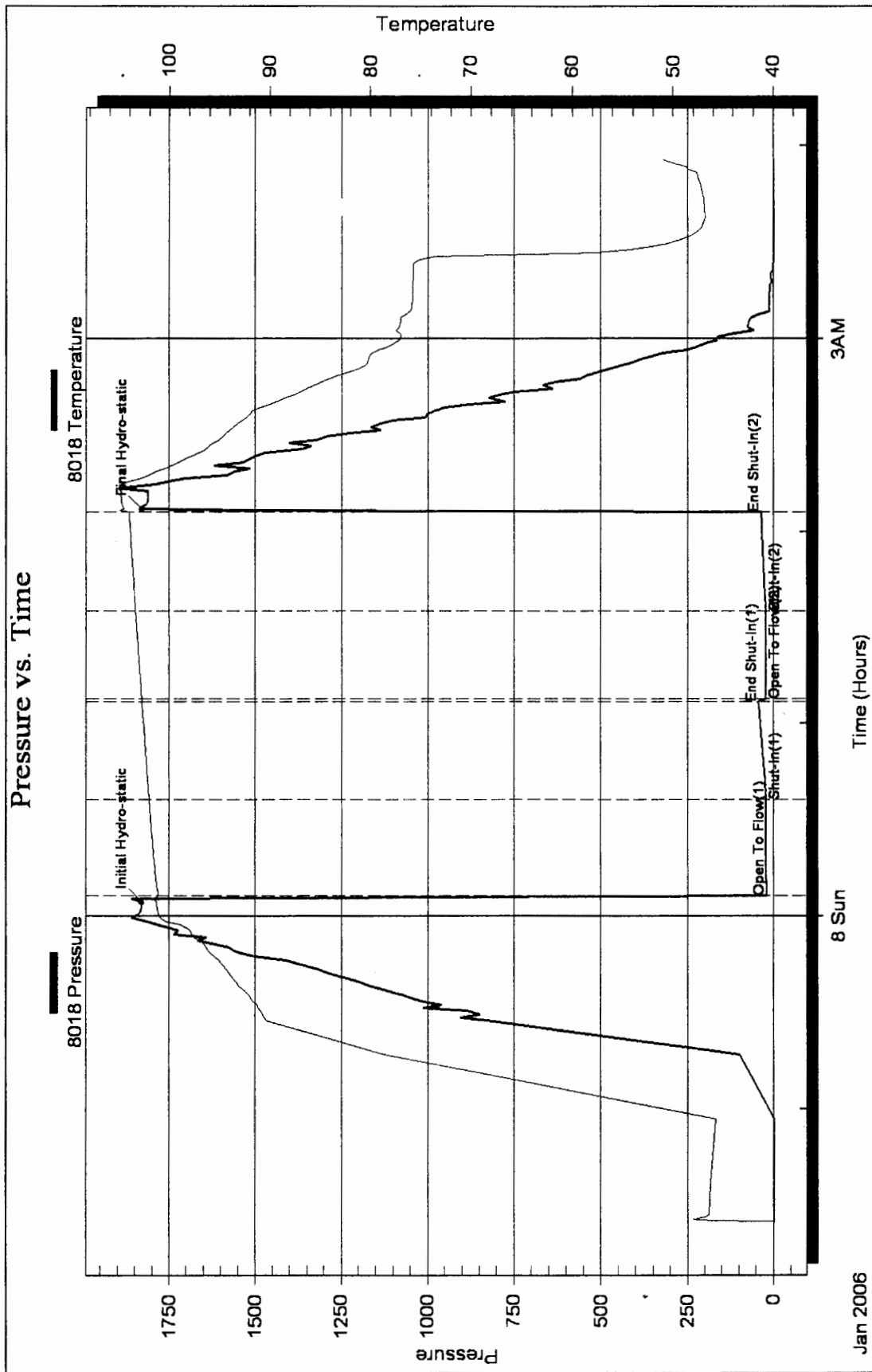
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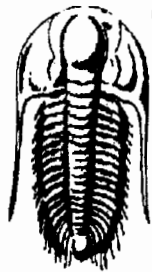
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **JO Farmer**

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

2-9s-22w Graham

Billips B # 1

Start Date: 2006.01.08 @ 19:52:20

End Date: 2006.01.09 @ 01:13:20

Job Ticket #: 23311 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

JO Farmer

Billips B # 1

2-9s-22w Graham

DST # 3

Arbuckle

2006.01.08



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

JO Farmer

PO Box 352
Russell KS 67665

ATTN: Brad Hutchison

Billips B # 1

2-9s-22w Graham

Job Ticket: 23311

DST#: 3

Test Start: 2006.01.08 @ 19:52:20

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 21:26:50

Time Test Ended: 01:13:20

Test Type: **Conventional Straddle**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3792.00 ft (KB) To 3819.00 ft (KB) (TVD)**

Total Depth: **3871.00 ft (KB) (TVD)**

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

Reference Elevations: **2204.00 ft (KB)**

2196.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **8018**

Inside

Press@RunDepth: **457.41 psig @ 3800.00 ft (KB)**

Start Date: **2006.01.08**

End Date: **2006.01.09**

Capacity: **7000.00 psig**

Last Calib.: **2006.01.09**

Start Time: **19:52:25**

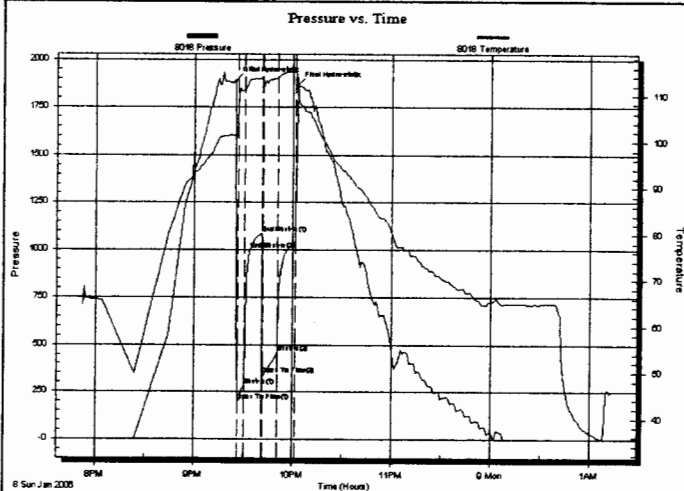
End Time: **01:13:19**

Time On Btm: **2006.01.08 @ 21:25:20**

Time Off Btm: **2006.01.08 @ 22:02:50**

TEST COMMENT: **IF-Strong B.O.B.1 min.**
FF-Strong B.O.B.1 min.

ISI-Weak blow back.
FSI-Weak blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.13	101.45	Initial Hydro-static
2	200.16	107.69	Open To Flow (1)
6	279.94	111.25	Shut-In(1)
16	1087.98	113.60	End Shut-In(1)
17	344.16	111.42	Open To Flow (2)
26	457.41	113.82	Shut-In(2)
37	1045.04	115.10	End Shut-In(2)
38	1863.30	113.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
995.00	Clean gassy oil 2%gas-98%oil	13.68

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

JO Farmer

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23311

DST#: 3

ATTN: Brad Hutchison

Test Start: 2006.01.08 @ 19:52:20

Tool Information

Drill Pipe:	Length: 3761.00 ft	Diameter: 3.80 inches	Volume: 52.76 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 52.91 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3792.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	3819.00 ft				
Interval between Packers:	27.00 ft				
Tool Length:	99.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	4.00			3787.00	20.00 Bottom Of Top Packer
Packer	5.00			3792.00	
Stubb	1.00			3793.00	
Perforations	7.00			3800.00	
Recorder	0.00	8018	Inside	3800.00	
Perforations	18.00			3818.00	
Recorder	0.00	13308	Outside	3818.00	
Blank Off Sub	1.00			3819.00	27.00 Tool Interval
Packer	0.00			3819.00	
Stubb	1.00			3820.00	
Perforations	10.00			3830.00	
Change Over Sub	1.00			3831.00	
Recorder	0.00	11084		3831.00	
Blank Spacing	31.00			3862.00	
Change Over Sub	1.00			3863.00	
Perforations	5.00			3868.00	
Bullnose	3.00			3871.00	52.00 Bottom Packers & Anchor

Total Tool Length: 99.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

JO Farmer

Billips B # 1

PO Box 352
Russell KS 67665

2-9s-22w Graham

Job Ticket: 23311

DST#: 3

ATTN: Brad Hutchison

Test Start: 2006.01.08 @ 19:52:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

14 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
995.00	Clean gassy oil 2%gas-98%oil	13.684

Total Length: 995.00 ft

Total Volume: 13.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

