

12-9-22w



CONFIDENTIAL
MAR 02 2006
KCC

DRILL STEM TEST REPORT

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

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

12-9s-22w/Graham

Buss B #2

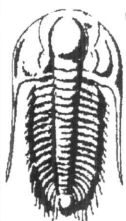
Start Date: 2005.12.15 @ 00:50:29

End Date: 2005.12.15 @ 08:35:28

Job Ticket #: 23381 DST #: 1

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

John O Farmer, Inc.

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

Buss B #2

12-9s-22w/Graham

Job Ticket: 23381

DST#: 1

Test Start: 2005.12.15 @ 00:50:29

GENERAL INFORMATION:

Formation: **LKC "A, B, C"**

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

Time Tool Opened: 03:09:13

Time Test Ended: 08:35:28

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **15**

Interval: **3466.00 ft (KB) To 3516.00 ft (KB) (TVD)**

Total Depth: **3516.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2244.00 ft (KB)**

2236.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press@RunDepth: **186.29 psig @ 3476.01 ft (KB)**

Start Date: **2005.12.15**

End Date:

2005.12.15

Start Time: **00:50:29**

End Time:

08:35:28

Capacity: **7000.00 psig**

Last Calib.: **2005.12.15**

Time On Btm: **2005.12.15 @ 03:08:13**

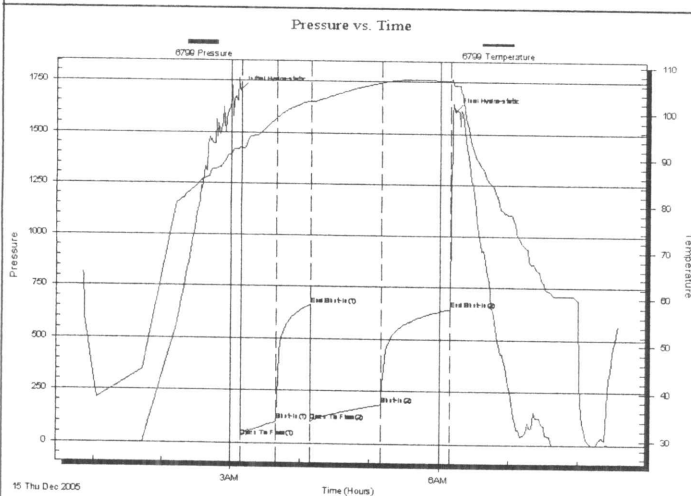
Time Off Btm: **2005.12.15 @ 06:13:43**

TEST COMMENT: **IFP - bottom in 6 min.**

ISI - surface blow back throughout

FFP - bottom in 11 min.

FSI - surface blow to 1 1/2"



PRESSURE SUMMARY

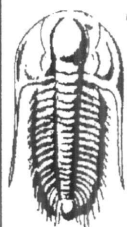
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.47	92.38	Initial Hydro-static
1	29.11	92.04	Open To Flow (1)
32	103.07	98.81	Shut-In(1)
61	662.57	102.44	End Shut-In(1)
61	106.06	102.27	Open To Flow (2)
121	186.29	106.38	Shut-In(2)
182	644.97	106.99	End Shut-In(2)
186	1609.76	105.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MMV show O 80% W, 20% M, SHOW O	1.83
60.00	MMVGO 7% G, 53% O, 20% W, 20% M	0.84
90.00	GMCWO 5% G, 55% O, 25% W, 15% M	1.26
85.00	MMVO 95% O, 1% W, 4% M	1.19

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Buss B #2

P.O. Box 352
Russell, Ks 67665

12-9s-22w/Graham

Job Ticket: 23381

DST#: 1

ATTN: Randy Kilian

Test Start: 2005.12.15 @ 00:50:29

Tool Information

Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight: 2500.00 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: 46000.00 lb
		Total Volume:	48.17 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3466.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.02 ft			
Tool Length:	69.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				
90' GIP				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3451.00	
Hydraulic tool	5.00			3456.00	
Packer	5.00			3461.00	20.00 Bottom Of Top Packer
Packer	5.00			3466.00	
Stubb	1.00			3467.00	
Perforations	8.00			3475.00	
Change Over Sub	1.00			3476.00	
Recorder	0.01	6799	Inside	3476.01	
Blank Spacing	30.00			3506.01	
Change Over Sub	1.00			3507.01	
Perforations	5.00			3512.01	
Recorder	0.01	13548	Outside	3512.02	
Bullnose	3.00			3515.02	49.02 Bottom Packers & Anchor

Total Tool Length: 69.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Buss B #2

P.O. Box 352
Russell, Ks 67665

12-9s-22w/Graham

Job Ticket: 23381

DST#: 1

ATTN: Randy Kilian

Test Start: 2005.12.15 @ 00:50:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.38 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

33 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MMV show O 80% W, 20% M, SHOW O	1.831
60.00	MMVGO 7% G, 53% O, 20% W, 20% M	0.842
90.00	GMCWO 5% G, 55% O, 25% W, 15% M	1.262
85.00	MMVO 95% O, 1% W, 4% M	1.192

Total Length: 385.00 ft

Total Volume: 5.127 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

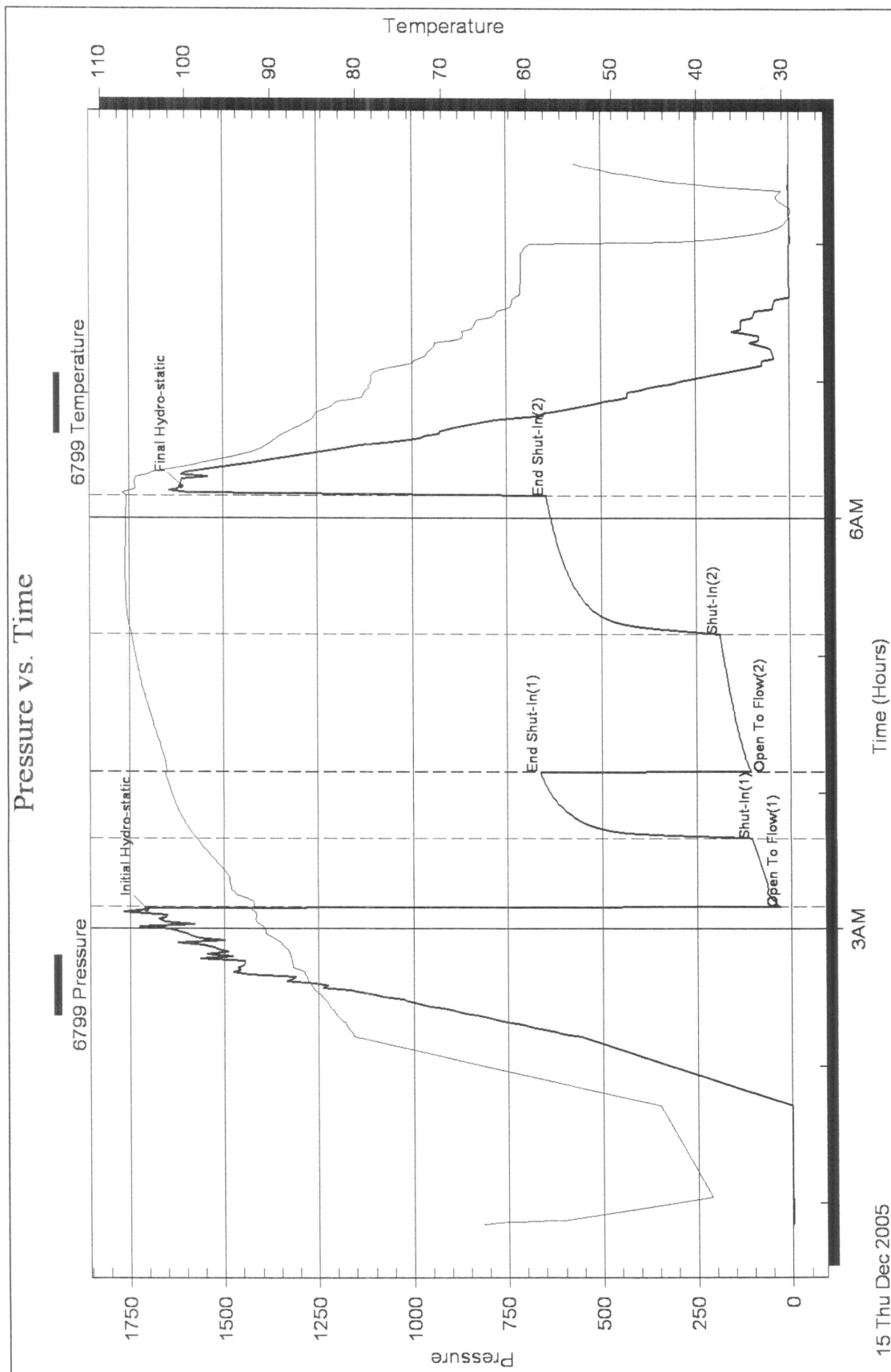
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

12-9s-22w/Graham

Buss B #2

Start Date: 2005.12.15 @ 22:28:55

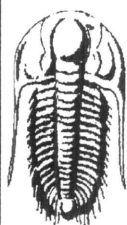
End Date: 2005.12.16 @ 06:11:09

Job Ticket #: 23382 DST #: 2

Trilobite Testing, Inc

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



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DRILL STEM TEST REPORT

John O Farmer, Inc.

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

Buss B #2

12-9s-22w/Graham

Job Ticket: 23382

DST#: 2

Test Start: 2005.12.15 @ 22:28:55

GENERAL INFORMATION:

Formation: **LKC "H-L"**

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

Time Tool Opened: 00:35:39

Time Test Ended: 06:11:09

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **15**

Interval: **3586.00 ft (KB) To 3685.00 ft (KB) (TVD)**

Total Depth: **3685.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2244.00 ft (KB)**

2236.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6799

Inside

Press@RunDepth: **216.16 psig @ 3596.01 ft (KB)**

Start Date: **2005.12.15**

End Date:

2005.12.16

Start Time: **22:28:55**

End Time:

06:11:09

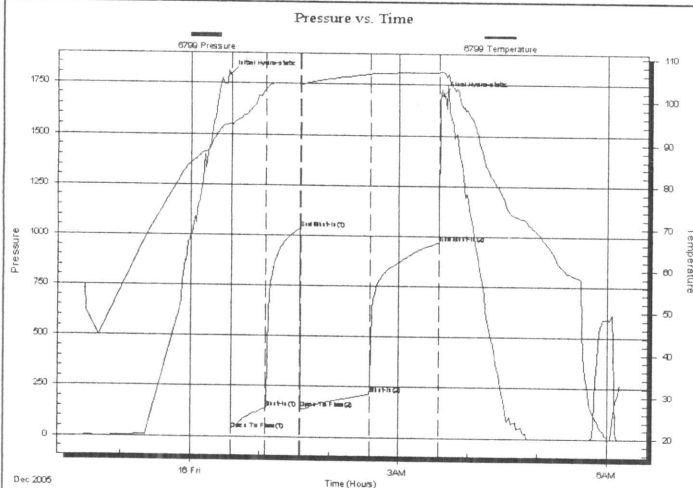
Capacity: **7000.00 psig**

Last Calib.: **2005.12.16**

Time On Btm: **2005.12.16 @ 00:34:24**

Time Off Btm: **2005.12.16 @ 03:38:24**

TEST COMMENT: IFP - bottom in 5 min.
ISI - surface blow throughout
FFP - bottom in 7 min.
FSI - surface blow throughout



PRESSURE SUMMARY

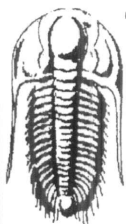
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.13	94.49	Initial Hydro-static
2	30.58	94.11	Open To Flow (1)
31	138.22	102.56	Shut-In(1)
60	1031.71	103.86	End Shut-In(1)
61	137.29	103.60	Open To Flow (2)
121	216.16	106.22	Shut-In(2)
181	969.52	106.67	End Shut-In(2)
184	1694.99	106.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05
45.00	GOWCM 5% G, 10% O, 10% W, 75% M	0.45
75.00	OM 35 O, 65 M	1.05
190.00	GOM 10% G, 10% O, 80% M	2.67
100.00	GMO 15% G, 55% O, 30% M	1.40

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

Buss B #2

12-9s-22w/Graham

Job Ticket: 23382

DST#: 2

Test Start: 2005.12.15 @ 22:28:55

Tool Information

Drill Pipe:	Length: 3549.00 ft	Diameter: 3.80 inches	Volume: 49.78 bbl	Tool Weight:	2500.00 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:	56000.00 lb
			<u>Total Volume: 49.93 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3586.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	99.02 ft				
Tool Length:	119.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Packer	5.00			3581.00	20.00 Bottom Of Top Packer
Packer	5.00			3586.00	
Stubb	1.00			3587.00	
Perforations	8.00			3595.00	
Change Over Sub	1.00			3596.00	
Recorder	0.01	6799	Inside	3596.01	
Blank Spacing	65.00			3661.01	
Change Over Sub	1.00			3662.01	
Perforations	20.00			3682.01	
Recorder	0.01	13548	Outside	3682.02	
Bullnose	3.00			3685.02	99.02 Bottom Packers & Anchor

Total Tool Length: 119.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Buss B #2

P.O. Box 352
Russell, Ks 67665

12-9s-22w/Graham

Job Ticket: 23382

DST#: 2

ATTN: Randy Kilian

Test Start: 2005.12.15 @ 22:28:55

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 4.39 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

38 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049
45.00	GOWCM 5% G, 10% O, 10% W, 75% M	0.449
75.00	OM 35 O, 65 M	1.052
190.00	GOM 10% G, 10% O, 80% M	2.665
100.00	GMO 15% G, 55% O, 30% M	1.403

Total Length: 420.00 ft

Total Volume: 5.618 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

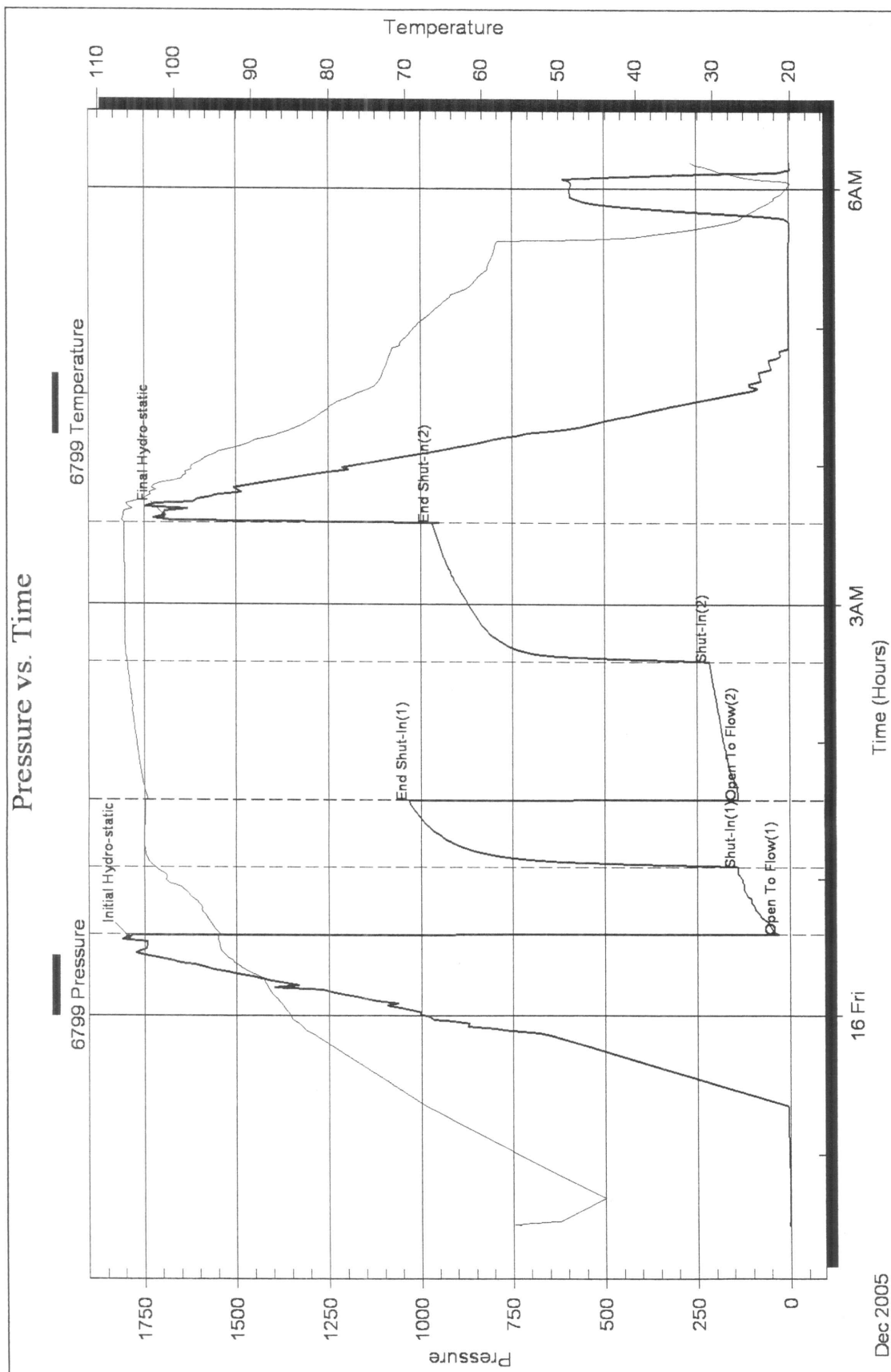
Serial #:

Laboratory Name:

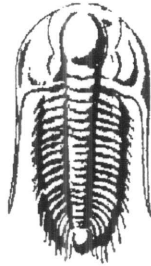
Laboratory Location:

Recovery Comments: 720 GIP

Pressure vs. Time



12-9-22w



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DRILL STEM TEST REPORT

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

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

12-9s-22w/Graham

Buss B #2

Start Date: 2005.12.17 @ 01:55:45

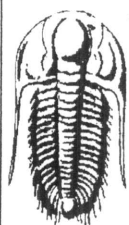
End Date: 2005.12.17 @ 12:04:14

Job Ticket #: 23383 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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DRILL STEM TEST REPORT

John O Farmer, Inc.

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

Buss B #2

12-9s-22w/Graham

Job Ticket: 23383

DST#: 3

Test Start: 2005.12.17 @ 01:55:45

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 04:29:59

Time Test Ended: 12:04:14

Test Type: **Conventional Straddle**

Tester: **Brian Fairbank**

Unit No: **15**

Interval: **3802.00 ft (KB) To 3824.00 ft (KB) (TVD)**

Total Depth: **3893.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2244.00 ft (KB)**

2236.00 ft (CF)

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

Serial #: 6799

Inside

Press@RunDepth: **1004.89 psig @ 3803.01 ft (KB)**

Start Date: **2005.12.17**

End Date:

2005.12.17

Capacity: **7000.00 psig**

Last Calib.: **2005.12.17**

Start Time: **01:55:45**

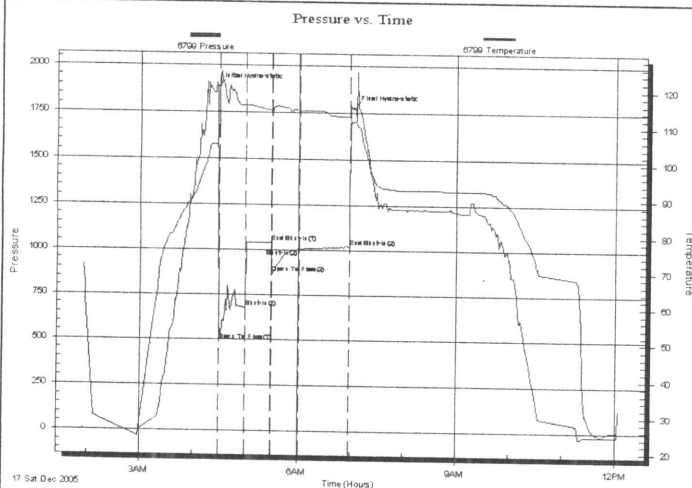
End Time:

12:04:14

Time On Btm: **2005.12.17 @ 04:28:29**

Time Off Btm: **2005.12.17 @ 07:02:44**

TEST COMMENT: IFP - bottom of bucket on opening
ISI - surface blow back throughout
FFP - bottom of bucket on opening
FSI - surface blow throughout



PRESSURE SUMMARY

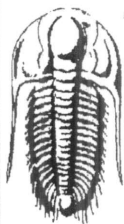
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.40	104.90	Initial Hydro-static
2	490.70	117.26	Open To Flow (1)
32	675.01	115.71	Shut-In(1)
62	1042.10	114.45	End Shut-In(1)
62	866.10	113.62	Open To Flow (2)
93	1004.89	114.14	Shut-In(2)
150	1017.54	112.76	End Shut-In(2)
155	1775.65	111.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1142.00	MGO 20% G, 77% O, 3% M	15.75
1500.00	FREE OIL 10% G, 90 %	21.04

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

P.O. Box 352
Russell, Ks 67665

ATTN: Randy Kilian

Buss B #2

12-9s-22w/Graham

Job Ticket: 23383

DST#: 3

Test Start: 2005.12.17 @ 01:55:45

Tool Information

Drill Pipe:	Length:	3769.00 ft	Diameter:	3.80 inches	Volume:	52.87 bbl	Tool Weight:	2500.00 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:	100000.0 lb
					Total Volume:	53.02 bbl	Tool Chased	1.50 ft
Drill Pipe Above KB:	17.00 ft						String Weight: Initial	42000.00 lb
Depth to Top Packer:	3802.00 ft						Final	52000.00 lb
Depth to Bottom Packer:	3820.02 ft							
Interval between Packers:	18.02 ft							
Tool Length:	116.03 ft							
Number of Packers:	3	Diameter:	6.75 inches					
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3787.00		
Hydraulic tool	5.00			3792.00		
Packer	5.00			3797.00	20.00	Bottom Of Top Packer
Packer	5.00			3802.00		
Stubb	1.00			3803.00		
Recorder	0.01	6799	Inside	3803.01		
Perforations	16.00			3819.01		
Recorder	0.01	13548	Inside	3819.02		
Blank Off Sub	1.00			3820.02	18.02	Tool Interval
Packer	5.00			3825.02		
Change Over Sub	1.00			3826.02		
Blank Spacing	64.00			3890.02		
Perforations	5.00			3895.02		
Recorder	0.01	13760	Outside	3895.03		
Bullnose	3.00			3898.03	78.01	Bottom Packers & Anchor
Total Tool Length:		116.03				



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Buss B #2

P.O. Box 352
Russell, Ks 67665

12-9s-22w/Graham

Job Ticket: 23383

DST#: 3

ATTN: Randy Kilian

Test Start: 2005.12.17 @ 01:55:45

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 10.78 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

11 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1142.00	MGO 20% G, 77% O, 3% M	15.746
1500.00	FREE OIL 10% G, 90 %	21.041

Total Length: 2642.00 ft

Total Volume: 36.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 225' GIP

