

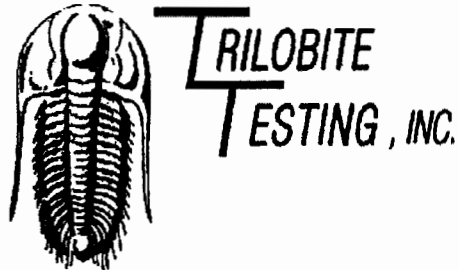
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13-15-13w

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DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russell Ks 67665

ATTN: John Farmer

13-15-13-Russell-Ks

Berrick A #1

Start Date: 2003.12.09 @ 15:35:30

End Date: 2003.12.09 @ 22:42:30

Job Ticket #: 18418

DST.#: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

John O Farmer Inc

Berrick A #1

13-15-13-Russell-Ks

DST # 1

H-J

LKC

2003.12.09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc

P O Box 352
Russelk Ks 67665

ATTN: John Farmer

Berrick A #1

13-15-13-Russell-Ks

Job Ticket: 18418

DST#: 1

Test Start: 2003.12.09 @ 15:35:30

GENERAL INFORMATION:

Formation: **H-J LKC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 17:47:30
Time Test Ended: 22:42:30

Interval: **3128.00 ft (KB) To 3200.00 ft (KB) (TVD)**
Total Depth: **3200.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

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

Reference Elevations: **1824.00 ft (KB)**
1816.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 6755

Inside

Press@RunDepth: **76.16 psig @ 3131.00 ft (KB)**

Start Date: **2003.12.09**

End Date:

2003.12.09

Start Time: **15:35:31**

End Time:

22:42:30

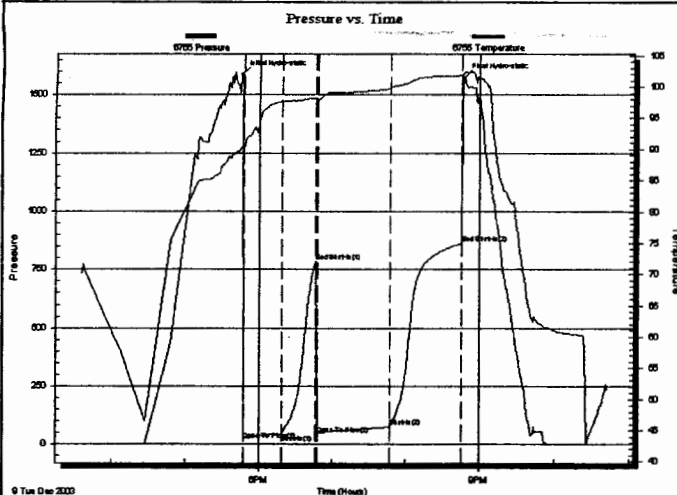
Capacity: **7000.00 psig**

Last Calib.: **2003.12.09**

Time On Bttr: **2003.12.09 @ 17:45:30**

Time Off Bttr: **2003.12.09 @ 20:47:30**

TEST COMMENT: **IF-Strong-BOB in 14 min**
FF-Strong-BOB in 2 min
Times-30-30-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.19	90.31	Initial Hydro-static
2	19.50	89.98	Open To Flow (1)
33	44.65	97.71	Shut-In (1)
61	783.70	98.22	End Shut-In (1)
62	43.89	98.05	Open To Flow (2)
122	76.16	99.80	Shut-In (2)
180	862.37	101.81	End Shut-In (2)
182	1573.45	102.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCM 20%o 80% m	1.47
30.00	Silty OCM 3%O 97% m	0.42
0.00	775 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

John O Farmer Inc

Berrick A #1

P O Box 352
Russell Ks 67665

13-15-13-Russell-Ks

Job Ticket: 18418

DST#: 1

ATTN: John Farmer

Test Start: 2003.12.09 @ 15:35:30

Tool Information

Drill Pipe:	Length: 3103.00 ft	Diameter: 3.80 inches	Volume: 43.53 bbl	Tool Weight: 1000.00 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: 45000.00 lb
		Total Volume: 43.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3128.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3108.00	
Shut In Tool	5.00			3113.00	
Hydraulic tool	5.00			3118.00	
Packer	5.00			3123.00	21.00 Bottom Of Top Packer
Packer	5.00			3128.00	
Stubb	1.00			3129.00	
Perforations	1.00			3130.00	
Change Over Sub	1.00			3131.00	
Recorder	0.00	6755	Inside	3131.00	
Blank Spacing	61.00			3192.00	
Change Over Sub	1.00			3193.00	
Perforations	4.00			3197.00	
Recorder	0.00	13254	Outside	3197.00	
Bullnose	3.00			3200.00	72.00 Bottom Packers & Anchor

Total Tool Length: 93.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Berrick A #1

P O Box 352
Russek Ks 67665

13-15-13-Russell-Ks

Job Ticket: 18418

DST#: 1

ATTN: John Farmer

Test Start: 2003.12.09 @ 15:35:30

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 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
124.00	OCM 20%o 80%m	1.466
30.00	Silty OCM 3%o 97%m	0.421
0.00	775 GIP	0.000

Total Length: 154.00 ft

Total Volume: 1.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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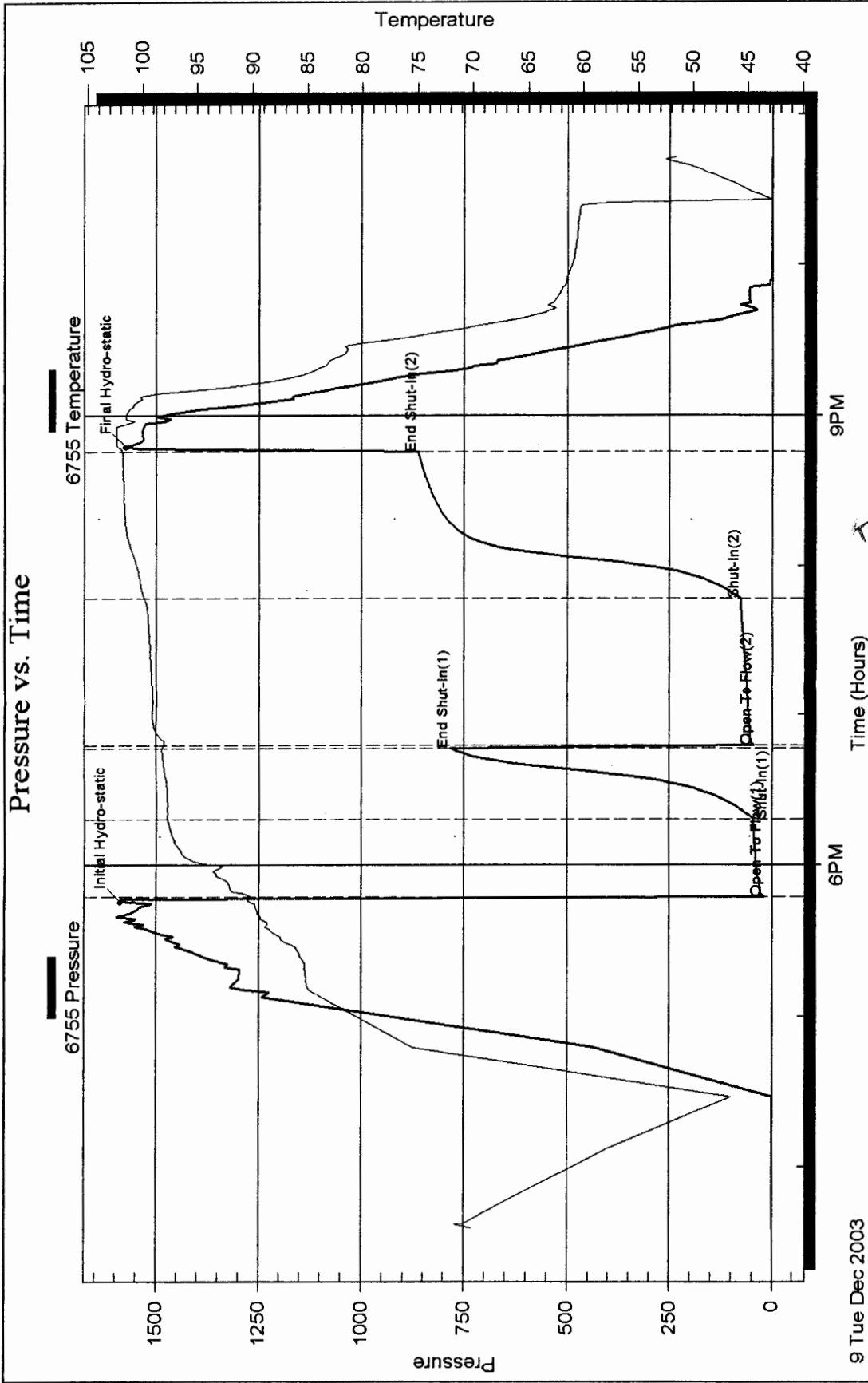
Serial #: 6755

Inside

John O Farmer Inc

13-15-13-Russell-Ks

DST Test Number: 1



9 Tue Dec 2003

6PM

9PM

Time (Hours)

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Trilobite Testing, Inc

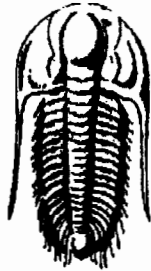
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

P O Box 352
Russelk Ks 67665

ATTN: John Farmer

13-15-13-Russell-Ks

Berrick A #1

Start Date: 2003.12.10 @ 20:05:03

End Date: 2003.12.11 @ 01:42:33

Job Ticket #: 18419. DST #: 2

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

P O Box 352
Russek Ks 67665

ATTN: John Farmer

Berrick A #1

13-15-13-Russell-Ks

Job Ticket: 18419

DST#: 2

Test Start: 2003.12.10 @ 20:05:03

GENERAL INFORMATION:

Formation: **A LKC**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 21:50:33
Time Test Ended: 01:42:33

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Test Type: Conventional Straddle

Tester: Dan Bangle

Unit No: 21

Interval: **2998.00 ft (KB) To 3042.00 ft (KB) (TVD)**

Total Depth: **3350.00 ft (KB) (TVD)**

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

Reference Elevations: **1824.00 ft (KB)**

1816.00 ft (CF)

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

Serial #: 6755

Inside

Press@RunDepth: **29.68 psig @ 3000.00 ft (KB)**

Start Date: **2003.12.10**

End Date:

2003.12.11

Start Time: **20:05:04**

End Time:

01:42:33

Capacity: **7000.00 psig**

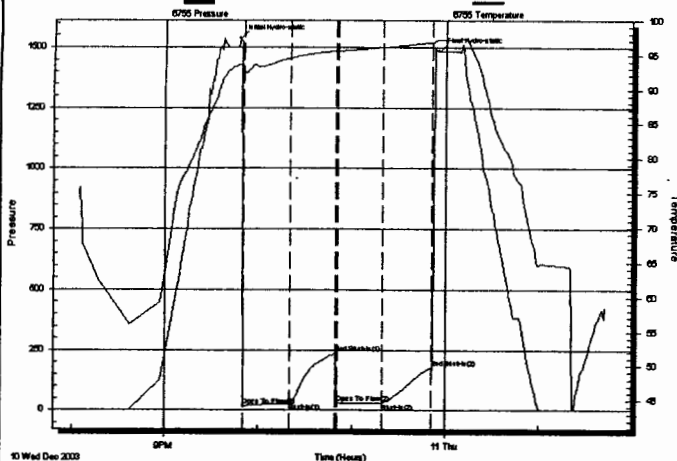
Last Calib.: **2003.12.11**

Time On Btrr: **2003.12.10 @ 21:48:03**

Time Off Btrr: **2003.12.10 @ 23:55:33**

TEST COMMENT: IF-Weak steady 1/4" blow
FF-Weak steady surface blow
Times-30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1536.38	93.57	Initial Hydro-static
3	17.73	92.80	Open To Flow (1)
32	27.63	94.51	Shut-In (1)
62	235.08	95.57	End Shut-In (1)
63	28.62	95.49	Open To Flow (2)
91	29.68	96.06	Shut-In (2)
123	176.98	96.81	End Shut-In (2)
128	1485.22	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	DM	0.15

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

Berrick A #1

P O Box 352
Russekk Ks 67665

13-15-13-Russell-Ks

Job Ticket: 18419

DST#: 2

ATTN: John Farmer

Test Start: 2003.12.10 @ 20:05:03

Tool Information

Drill Pipe:	Length: 2978.00 ft	Diameter: 3.80 inches	Volume: 41.77 bbl	Tool Weight: 4000.00 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: 50000.00 lb
		Total Volume: 41.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2998.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3042.00 ft			
Interval between Packers:	44.00 ft			
Tool Length:	373.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2978.00	
Shut In Tool	5.00			2983.00	
Hydraulic tool	5.00			2988.00	
Packer	5.00			2993.00	21.00 Bottom Of Top Packer
Packer	5.00			2998.00	
Stubb	1.00			2999.00	
Perforations	1.00			3000.00	
Recorder	0.00	6755	Inside	3000.00	
Blank Spacing	31.00			3031.00	
Change Over Sub	1.00			3032.00	
Recorder	0.00	13254		3032.00	
Perforations	9.00			3041.00	
Blank Off Sub	1.00			3042.00	44.00 Tool Interval
Packer	5.00			3047.00	
Stubb	1.00			3048.00	
Change Over Sub	1.00			3049.00	
Drill Pipe	297.00			3346.00	
Change Over Sub	1.00			3347.00	
Recorder	0.00	13248	Outside	3347.00	
Bullnose	3.00			3350.00	308.00 Bottom Packers & Anchor

Total Tool Length: 373.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

Berrick A #1

P O Box 352
Russekk Ks 67665

13-15-13-Russell-Ks

Job Ticket: 18419

DST#: 2

ATTN: John Farmer

Test Start: 2003.12.10 @ 20:05:03

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	DM	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Pressure vs. Time

