

DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil And Leasing, Inc**

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

15-12s-13w-Russell

Small #1

Start Date: 2005.10.18 @ 05:17:23

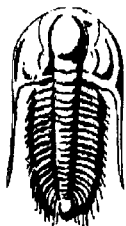
End Date: 2005.10.18 @ 11:00:08

Job Ticket #: 23811 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil And Leasing, Inc

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

Small #1

15-12s-13w-Russell

Job Ticket: 23811

DST#: 1

Test Start: 2005.10.18 @ 05:17:23

GENERAL INFORMATION:

Formation: **LKC-"B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:38

Time Test Ended: 11:00:08

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **2849.00 ft (KB) To 2870.00 ft (KB) (TVD)**

Total Depth: 2870.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1643.00 ft (KB)

1638.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: 46.93 psig @ 2852.00 ft (KB)

Start Date: 2005.10.18

End Date:

2005.10.18

Start Time: 05:17:25

End Time:

11:00:08

Capacity: 7000.00 psig

Last Calib.: 2005.10.18

Time On Btm: 2005.10.18 @ 06:41:23

Time Off Btm: 2005.10.18 @ 09:42:08

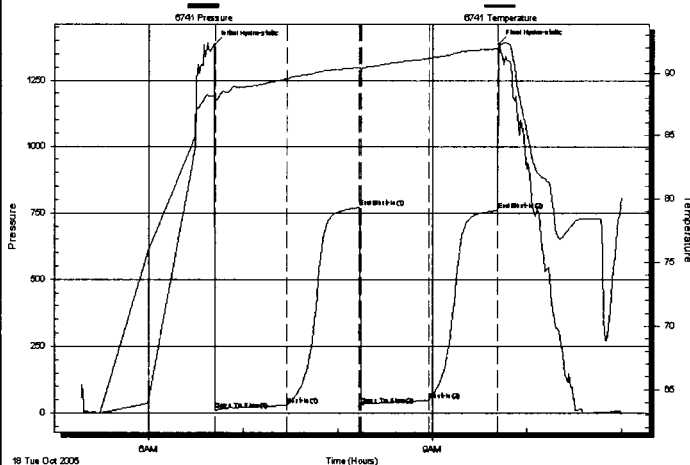
TEST COMMENT: IFP-Fair Blow, BOB in 39 Min.

ISI-Dead

FFP-Fair BOB in 23 Min.

FSI-Weak Surface Blow back For 4 Min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1385.50	88.18	Initial Hydro-static
1	9.30	87.83	Open To Flow (1)
46	28.88	89.53	Shut-In(1)
92	770.04	90.43	End Shut-In(1)
93	29.82	90.32	Open To Flow (2)
136	46.93	91.17	Shut-In(2)
180	760.22	91.94	End Shut-In(2)
181	1388.99	92.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Gassy HOCM-20%G-40%O-5%W-35%M	0.49

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil And Leasing, Inc

Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23811

DST#: 1

ATTN: Drad Hutchison

Test Start: 2005.10.18 @ 05:17:23

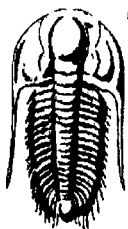
Tool Information

Drill Pipe:	Length: 2482.00 ft	Diameter: 3.80 inches	Volume: 34.82 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 377.00 ft	Diameter: 2.25 inches	Volume: 1.85 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 35000.00 lb
		Total Volume:	36.67 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	2849.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 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			2829.00	
Shut In Tool	5.00			2834.00	
Hydraulic tool	5.00			2839.00	
Packer	5.00			2844.00	21.00 Bottom Of Top Packer
Packer	5.00			2849.00	
Stubb	1.00			2850.00	
Perforations	2.00			2852.00	
Recorder	0.00	6741	Inside	2852.00	
Perforations	15.00			2867.00	
Recorder	0.00	13252	Outside	2867.00	
Bullnose	3.00			2870.00	21.00 Bottom Packers & Anchor

Total Tool Length: 42.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil And Leasing, Inc

Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23811

DST#: 1

ATTN: Drad Hutchison

Test Start: 2005.10.18 @ 05:17:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 2.00 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
100.00	Gassy HOCM-20%G-40%O-5%W-35%M	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 350 GIP

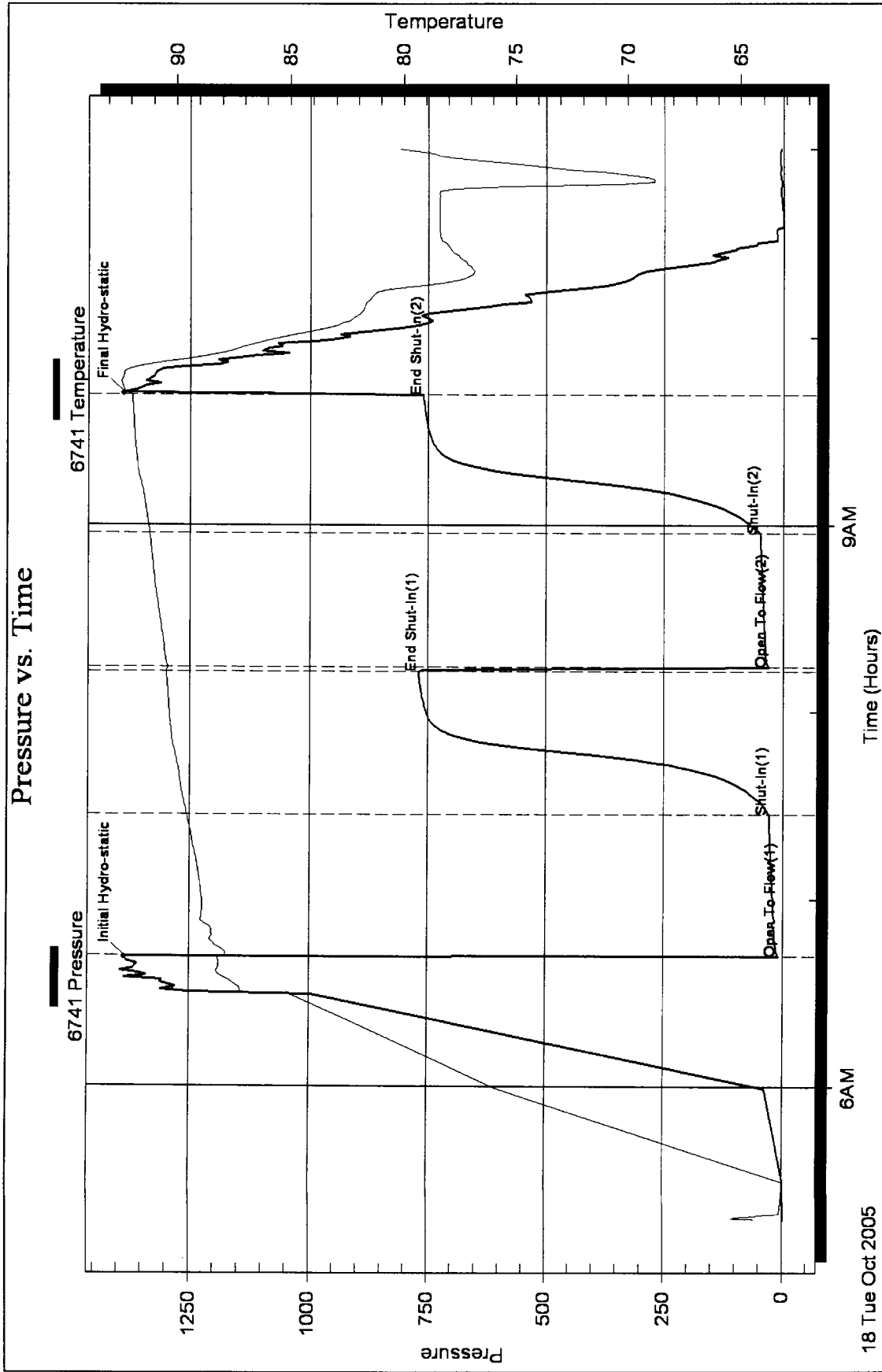
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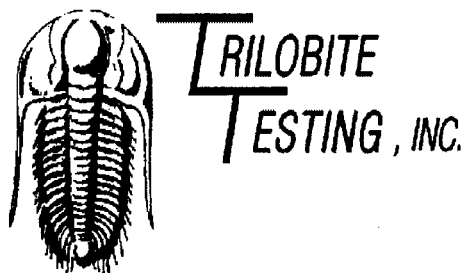
Inside

Brungardt Oil And Leasing, Inc

15-12s-13w-Russell

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil And Leasing, Inc**

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

15-12s-13w-Russell

Small #1

Start Date: 2005.10.18 @ 18:55:58

End Date: 2005.10.19 @ 00:40:28

Job Ticket #: 23812 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

Brungardt Oil And Leasing, Inc

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

Small #1

15-12s-13w-Russell

Job Ticket: 23812

DST#: 2

Test Start: 2005.10.18 @ 18:55:58

GENERAL INFORMATION:

Formation: LKC-"B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:58

Time Test Ended: 00:40:28

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: 2873.00 ft (KB) To 2890.00 ft (KB) (TVD)

Total Depth: 2890.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1643.00 ft (KB)

1638.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741 Inside

Press@RunDepth: 72.25 psig @ 2876.00 ft (KB)

Start Date: 2005.10.18

End Date:

2005.10.19

Start Time: 18:56:21

End Time:

00:40:28

Capacity: 7000.00 psig

Last Calib.: 2005.10.19

Time On Btm:

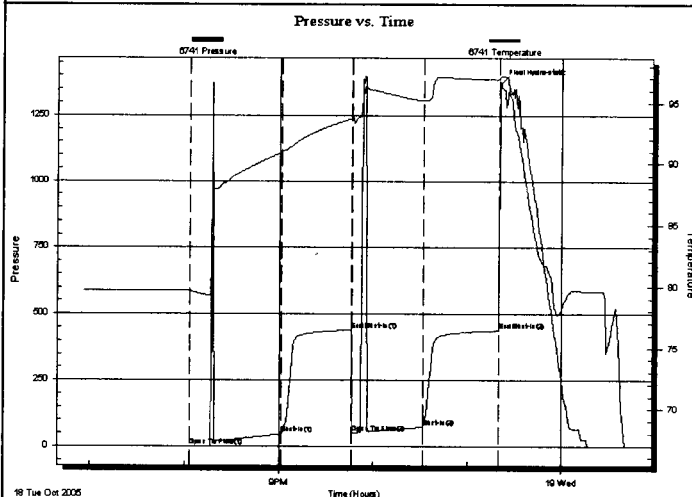
Time Off Btm: 2005.10.18 @ 23:20:58

TEST COMMENT: FFP-Weak Building Blow,Built to 5-1/4"

ISI-Dead

FFP-No Blow,Flush After 5 Min. Weak Surface Blow After 4 Min. Building to 1"

FSI-Dead



PRESSURE SUMMARY

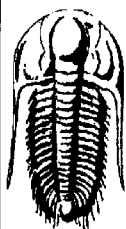
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	-2.39	79.67	Open To Flow (1)
59	45.09	90.98	Shut-In(1)
104	439.56	93.69	End Shut-In(1)
104	51.70	93.56	Open To Flow (2)
149	72.25	95.18	Shut-In(2)
198	437.59	96.91	End Shut-In(2)
198	1372.52	97.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Free Oil	0.01
120.00	Muddy Water-90%W-10%M	0.59

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil And Leasing, Inc

Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23812

DST#: 2

ATTN: Drad Hutchison

Test Start: 2005.10.18 @ 18:55:58

Tool Information

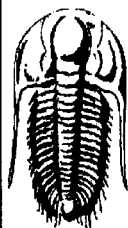
Drill Pipe:	Length: 2507.00 ft	Diameter: 3.80 inches	Volume: 35.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 377.00 ft	Diameter: 2.25 inches	Volume: 1.85 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 36000.00 lb
			Total Volume: 37.02 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2873.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			2853.00	
Shut In Tool	5.00			2858.00	
Hydraulic tool	5.00			2863.00	
Packer	5.00			2868.00	21.00 Bottom Of Top Packer
Packer	5.00			2873.00	
Stubb	1.00			2874.00	
Perforations	2.00			2876.00	
Recorder	0.00	6741	Inside	2876.00	
Perforations	11.00			2887.00	
Recorder	0.00	13252	Outside	2887.00	
Bullnose	3.00			2890.00	17.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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FLUID SUMMARY

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Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23812

DST#: 2

ATTN: Drad Hutchison

Test Start: 2005.10.18 @ 18:55:58

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: 58000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Free Oil	0.015
120.00	Muddy Water-90%W-10%M	0.590

Total Length: 123.00 ft

Total Volume: 0.605 bbl

Num Fluid Samples: 0

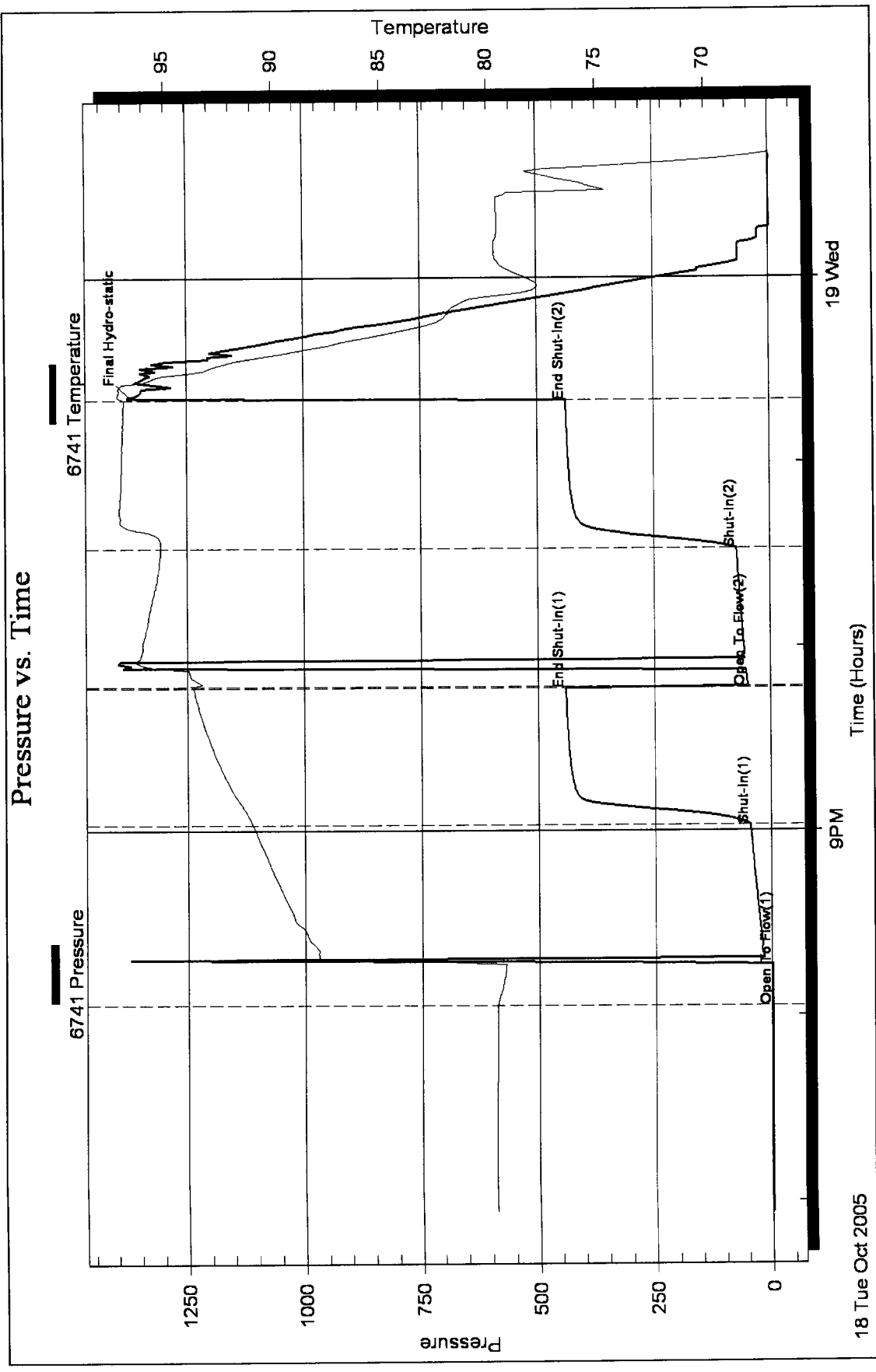
Num Gas Bombs: 0

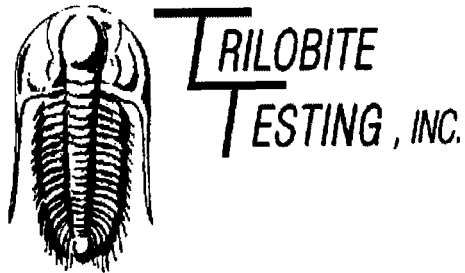
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil And Leasing, Inc**

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

15-12s-13w-Russell

Small #1

Start Date: 2005.10.19 @ 10:01:07

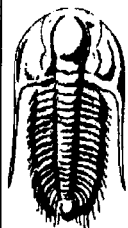
End Date: 2005.10.19 @ 16:31:52

Job Ticket #: 23813 DST #: 3

Trilobite Testing, Inc

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DRILL STEM TEST REPORT

Brungardt Oil And Leasing, Inc

PO Box 871
Russell KS 67665

ATTN: Drad Hutchison

Small #1

15-12s-13w-Russell

Job Ticket: 23813

DST#: 3

Test Start: 2005.10.19 @ 10:01:07

GENERAL INFORMATION:

Formation: **LKC-"G"**

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

Time Tool Opened: 11:38:07

Time Test Ended: 16:31:52

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **2907.00 ft (KB) To 2950.00 ft (KB) (TVD)**

Total Depth: **2950.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Good**

Reference Elevations: **1643.00 ft (KB)**

1638.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741

Inside

Press@RunDepth: **292.41 psig @ 2909.00 ft (KB)**

Start Date: **2005.10.19**

End Date: **2005.10.19**

Start Time: **10:01:09**

End Time: **16:31:52**

Capacity: **7000.00 psig**

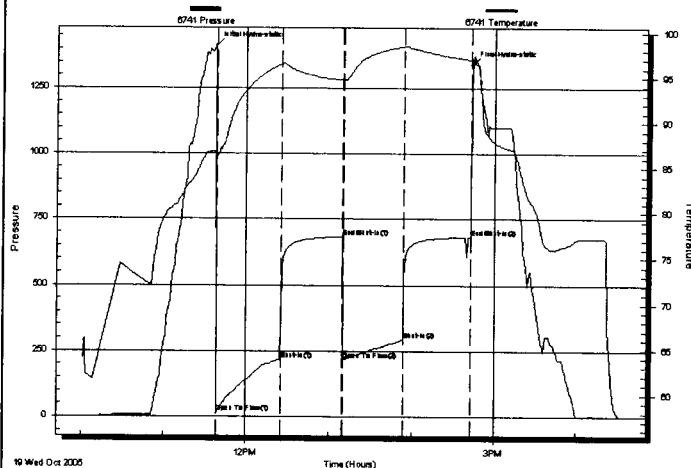
Last Calib.: **2005.10.19**

Time On Btm: **2005.10.19 @ 11:37:52**

Time Off Btm: **2005.10.19 @ 14:43:07**

TEST COMMENT: IFF-Good Blow, BOB in 113 Min.
ISI-Weak Surface Blow back After 15 Min., Lasted 3 Min.
FFP-Good Blow, BOB in 17 Min.
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1412.01	86.85	Initial Hydro-static
1	13.57	86.38	Open To Flow (1)
48	217.88	96.52	Shut-In(1)
92	681.00	94.75	End Shut-In(1)
92	216.84	94.65	Open To Flow (2)
136	292.41	98.46	Shut-In(2)
185	681.89	96.98	End Shut-In(2)
186	1340.77	97.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Muddy Water	5.26

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil And Leasing, Inc

Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23813

DST#: 3

ATTN: Drad Hutchison

Test Start: 2005.10.19 @ 10:01:07

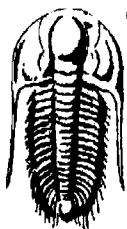
Tool Information

Drill Pipe:	Length: 2541.00 ft	Diameter: 3.80 inches	Volume: 35.64 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 377.00 ft	Diameter: 2.25 inches	Volume: 1.85 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
		Total Volume:	37.49 bbl	Tool Chased 35000.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2907.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	64.00 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			2887.00	
Shut In Tool	5.00			2892.00	
Hydraulic tool	5.00			2897.00	
Packer	5.00			2902.00	21.00 Bottom Of Top Packer
Packer	5.00			2907.00	
Stubb	1.00			2908.00	
Perforations	1.00			2909.00	
Recorder	0.00	6741	Inside	2909.00	
Blank Spacing	31.00			2940.00	
Perforations	7.00			2947.00	
Recorder	0.00	13221	Outside	2947.00	
Bullnose	3.00			2950.00	43.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil And Leasing, Inc

Small #1

PO Box 871
Russell KS 67665

15-12s-13w-Russell

Job Ticket: 23813

DST#: 3

ATTN: Drad Hutchison

Test Start: 2005.10.19 @ 10:01:07

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: 75000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	Muddy Water	5.263

Total Length: 620.00 ft

Total Volume: 5.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

Inside

Brungardt Oil And Leasing, Inc

15-12s-13w-Russell

DST Test Number: 3

