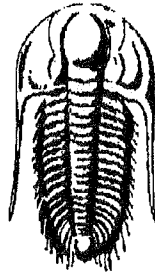


15-167-23561

12-13s-13w

Ind



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Brad Hutchison

12 13s13w Russell KS

Dauber "B" /

Start Date: 2009.02.09 @ 09:42:38

End Date: 2009.02.09 @ 16:07:53

Job Ticket #: 34949

DST #: 1

Handwritten signature

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer

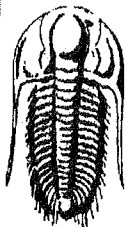
Dauber B

12 13s13w Russell KS

DST # 1

LKC "B-C"

2009.02.09



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Brad Hutchison

Dauber B

12 13s13w Russell KS

Job Ticket: 34949

DST#: 1

Test Start: 2009.02.09 @ 09:42:38

GENERAL INFORMATION:

Formation: **LKC "B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:35:38

Time Test Ended: 16:07:53

Interval: **2804.00 ft (KB) To 2850.00 ft (KB) (TVD)**

Total Depth: 2850.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Reference Elevations: 1609.00 ft (KB)

1601.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6669

Inside

Press@RunDepth: 169.80 psig @ 2811.00 ft (KB)

Start Date: 2009.02.09

End Date:

2009.02.09

Capacity: 7000.00 psig

Start Time: 09:42:39

End Time:

16:07:53

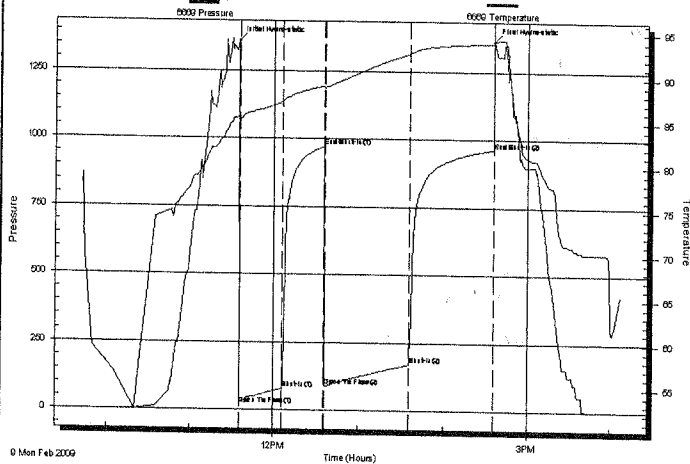
Last Calib.: 2009.02.09

Time On Btm: 2009.02.09 @ 11:35:08

Time Off Btm: 2009.02.09 @ 14:35:53

TEST COMMENT: IFF-BOB in 12 min
ISI-Weak surface blow back throughout
FFP-BOB in 19 min
FSI-Weak surface blow back died in 25 min

Pressure vs. Time



PRESSURE SUMMARY

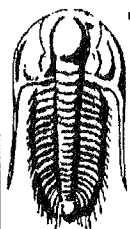
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1358.94	85.47	Initial Hydro-static
1	19.59	84.92	Open To Flow (1)
31	79.64	87.26	Shut-In (1)
61	971.44	89.02	End Shut-In (1)
61	90.60	88.79	Open To Flow (2)
121	169.80	92.73	Shut-In (2)
181	963.56	93.89	End Shut-In (2)
181	1361.77	94.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W,10%M	1.42
120.00	MW 70%W,30%M	1.70
50.00	GOCVM 10%G,20%O,20%W,50%M	0.71
30.00	GCO 10%G,90%O	0.43
0.00	160/ 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

Dauber B

PO Box 352
Russell, KS 67665

12 13s13w Russell KS

Job Ticket: 34949

DST#: 1

ATTN: Brad Hutchison

Test Start: 2009.02.09 @ 09:42:38

Tool Information

Drill Pipe:	Length: 2784.00 ft	Diameter: 3.82 inches	Volume: 39.46 bbl	Tool Weight: 2500.00 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: 55000.00 lb
		Total Volume: 39.61 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2804.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 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			2784.00	
Shut In Tool	5.00			2789.00	
Hydraulic tool	5.00			2794.00	
Packer	5.00			2799.00	21.00 Bottom Of Top Packer
Packer	5.00			2804.00	
Stubb	1.00			2805.00	
Perforations	5.00			2810.00	
Change Over Sub	1.00			2811.00	
Recorder	0.00	6672	Inside	2811.00	
Recorder	0.00	6669	Inside	2811.00	
Blank Spacing	30.00			2841.00	
Change Over Sub	1.00			2842.00	
Perforations	5.00			2847.00	
Bullnose	3.00			2850.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Dauber B

PO Box 352
Russell, KS 67665

12 13s13w Russell KS

Job Ticket: 34949

DST#: 1

ATTN: Brad Hutchison

Test Start: 2009.02.09 @ 09:42:38

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 90%W,10%M	1.423
120.00	MW 70%W,30%M	1.701
50.00	GOCWM 10%G,20%O,20%W,50%M	0.709
30.00	GCO 10%G,90%O	0.425
0.00	160/ GIP	0.000

Total Length: 320.00 ft

Total Volume:

4.258 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

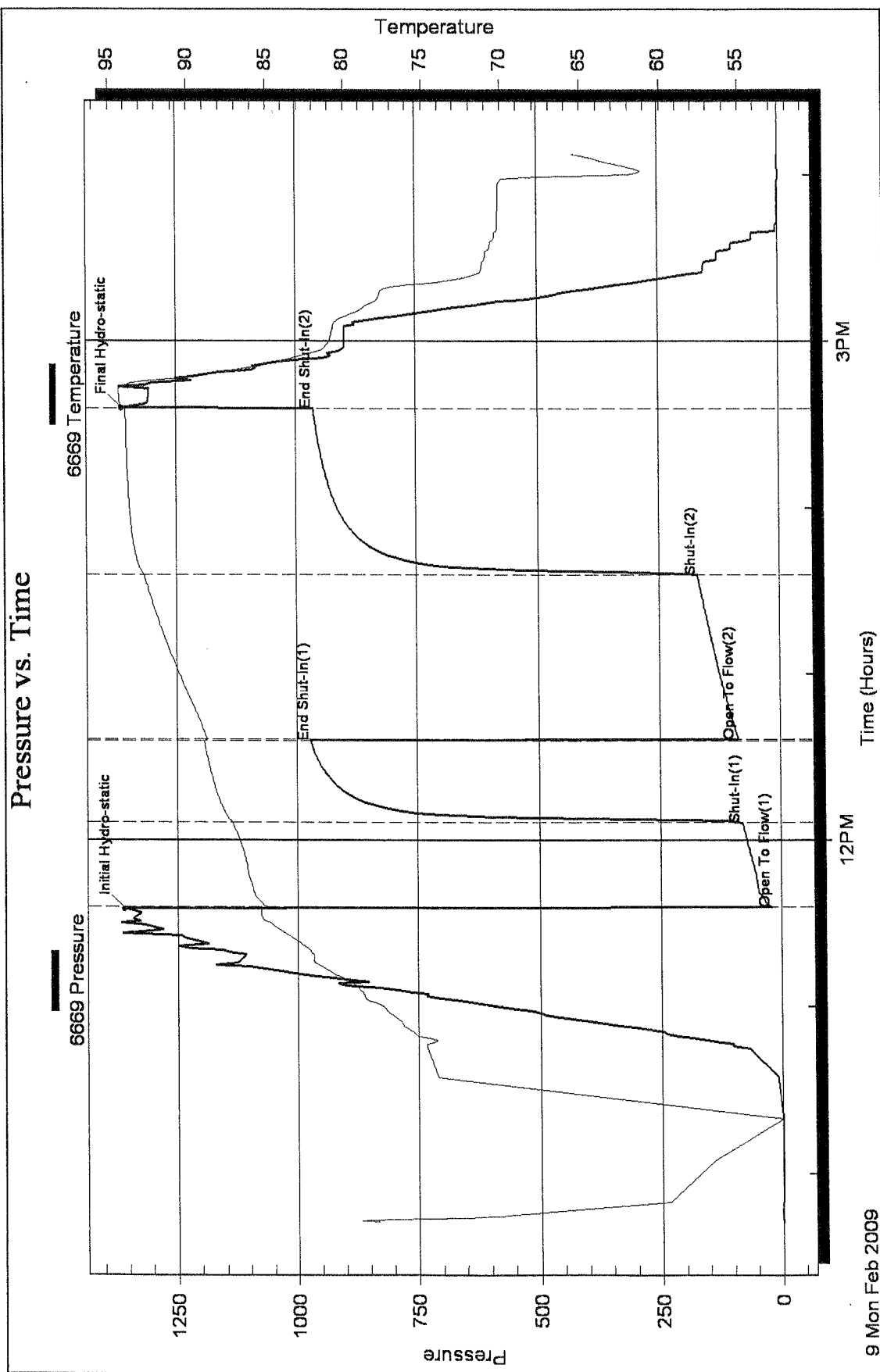
Serial #:

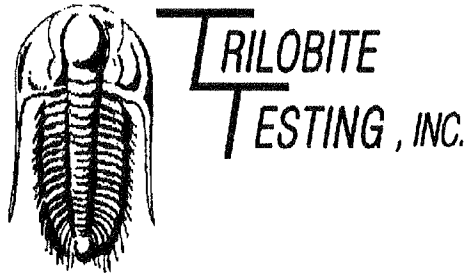
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .14@65F

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS 67665

ATTN: Brad Hutchison

12 13s13w Russell KS

Dauber B

Start Date: 2009.02.10 @ 00:00:39

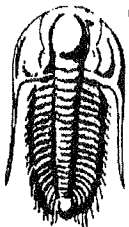
End Date: 2009.02.10 @ 07:09:54

Job Ticket #: 34950 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell, KS 67665

ATTN: Brad Hutchison

Dauber B

12 13s13w Russell KS

Job Ticket: 34950

DST#: 2

Test Start: 2009.02.10 @ 00:00:39

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:41:54

Time Test Ended: 07:09:54

Interval: **2862.00 ft (KB) To 2915.00 ft (KB) (TVD)**

Total Depth: 2915.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Reference Elevations: 1609.00 ft (KB)

1601.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6669

Inside

Press@RunDepth: 340.47 psig @ 2869.00 ft (KB)

Start Date: 2009.02.10

End Date:

2009.02.10

Start Time: 00:00:40

End Time:

07:09:54

Capacity: 7000.00 psig

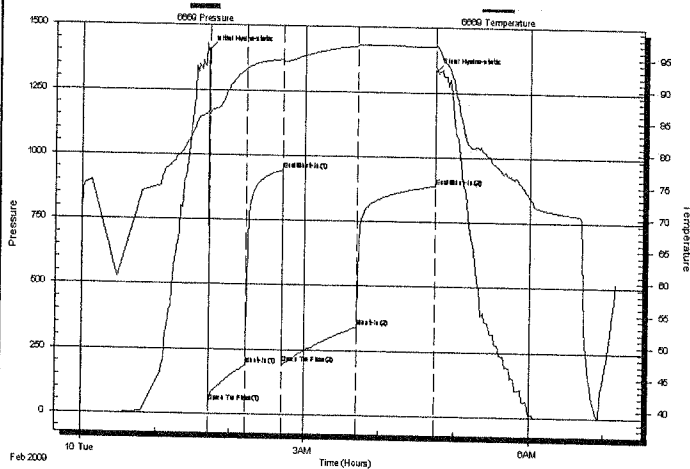
Last Calib.: 2009.02.10

Time On Btm: 2009.02.10 @ 01:41:39

Time Off Btm: 2009.02.10 @ 04:45:09

TEST COMMENT: IFP-BOB in 2.5 min
ISI-Weak surface blow throughout
FFP-BOB in 5.5 min
FSI-Weak 1" blow back throughout

Pressure vs. Time



PRESSURE SUMMARY

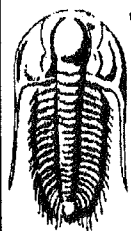
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1403.91	86.12	Initial Hydro-static
1	44.01	85.73	Open To Flow (1)
31	188.51	92.89	Shut-In (1)
61	942.73	94.46	End Shut-In (1)
61	195.23	94.21	Open To Flow (2)
121	340.47	96.71	Shut-In (2)
183	889.23	96.75	End Shut-In (2)
184	1331.16	96.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water w/scum of oil	1.42
180.00	OCMV 30%O,60%W,10%M	2.55
300.00	MVO 80%O,10%W,10%O	4.25
120.00	GCO 20%G,80%O	1.70
45.00	GCO 70%G,30%O	0.64
0.00	495' 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

Dauber B

PO Box 352
Russell, KS 67665

12 13s13w Russell KS

Job Ticket: 34950

DST#: 2

ATTN: Brad Hutchison

Test Start: 2009.02.10 @ 00:00:39

Tool Information

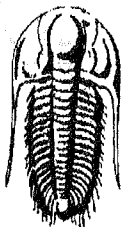
Drill Pipe:	Length: 2815.00 ft	Diameter: 3.82 inches	Volume: 39.90 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	40.05 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	2862.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2842.00	
Shut In Tool	5.00			2847.00	
Hydraulic tool	5.00			2852.00	
Packer	5.00			2857.00	21.00 Bottom Of Top Packer
Packer	5.00			2862.00	
Stubb	1.00			2863.00	
Perforations	5.00			2868.00	
Change Over Sub	1.00			2869.00	
Recorder	0.00	6672	Inside	2869.00	
Recorder	0.00	6669	Inside	2869.00	
Blank Spacing	31.00			2900.00	
Change Over Sub	1.00			2901.00	
Perforations	11.00			2912.00	
Bullnose	3.00			2915.00	53.00 Bottom Packers & Anchor

Total Tool Length: 74.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Dauber B

PO Box 352
Russell, KS 67665

12 13s13w Russell KS

Job Ticket: 34950

DST#: 2

ATTN: Brad Hutchison

Test Start: 2009.02.10 @ 00:00:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 10.37 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

37 deg API

Water Salinity: 72000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Water w/scum of oil	1.423
180.00	OCMW 30%O,60%W,10%M	2.552
300.00	MWO 80%O,10%W,10%O	4.253
120.00	GCO 20%G,80%O	1.701
45.00	GCO 70%G,30%O	0.638
0.00	495' GIP	0.000

Total Length: 765.00 ft

Total Volume: 10.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 42F

Pressure vs. Time

