

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield, IL 60544

ATTN: Steve Angle

29/15s/34w Logan KS

Tucker A #1-29

Start Date: 2010.04.30 @ 08:02:00

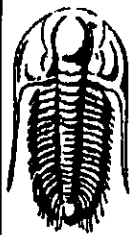
End Date: 2010.04.30 @ 14:54:30

Job Ticket #: 37327 DST #: 1

KCC
AUG 01 2010
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 37327

DST#: 1

ATTN: Steve Angle

Test Start: 2010.04.30 @ 08:02:00

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 10:31:30

Time Test Ended: 14:54:30

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Interval: **4520.00 ft (KB) To 4690.00 ft (KB) (TVD)**

Reference Elevations: **3057.00 ft (KB)**

Total Depth: **4690.00 ft (KB) (TVD)**

3049.00 ft (CF)

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

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

Serial #: **8366**

Inside

Press@RunDepth: **40.60 psig @ 4521.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.04.30**

End Date: **2010.04.30**

Last Calib.: **2010.04.30**

Start Time: **08:02:05**

End Time: **14:54:29**

Time On Btm: **2010.04.30 @ 10:30:00**

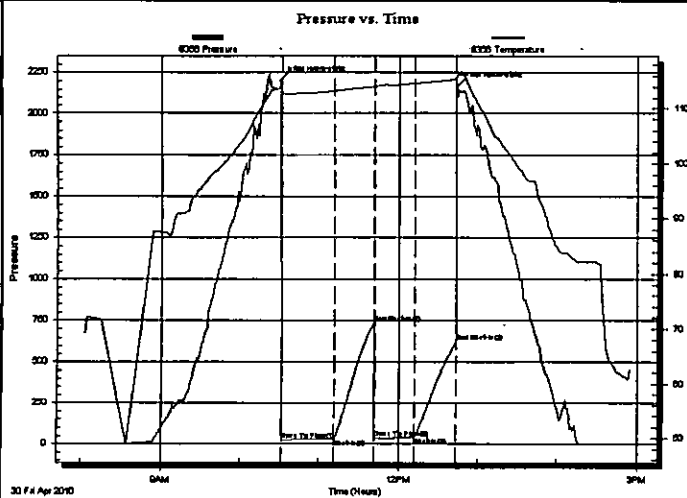
Time Off Btm: **2010.04.30 @ 12:44:00**

TEST COMMENT: IF: 1/2" blow @ open, built to 3/4" by 13 min., slowly died back, 1/4" blow @ close

IS: Bled off, No blow back

FF: No blow

FST: No blow back



PRESSURE SUMMARY

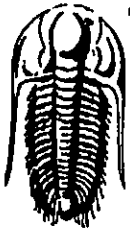
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.43	113.82	Initial Hydro-static
2	22.79	113.02	Open To Flow (1)
42	33.52	113.36	Shut-In(1)
71	733.84	114.13	End Shut-In(1)
72	36.36	114.06	Open To Flow (2)
102	40.60	114.72	Shut-In(2)
133	626.74	115.40	End Shut-In(2)
134	2171.81	116.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%	0.63

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 37327

DST#: 1

ATTN: Steve Angle

Test Start: 2010.04.30 @ 08:02:00

Tool Information

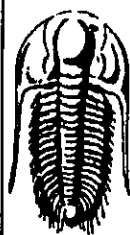
Drill Pipe:	Length: 3968.00 ft	Diameter: 2.25 inches	Volume: 19.51 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 551.00 ft	Diameter: 3.80 inches	Volume: 7.73 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 27.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4520.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	170.00 ft			
Tool Length:	197.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4498.00	
HYD S.I. Tool	5.00			4503.00	
Jars	5.00			4508.00	
Safety Joint	2.00			4510.00	
Packer	5.00			4515.00	27.00 Bottom Of Top Packer
Packer	5.00			4520.00	
Stubb	1.00			4521.00	
Recorder	0.00	8366	Inside	4521.00	
Recorder	0.00	8320	Inside	4521.00	
Perforations	20.00			4541.00	
Blank Spacing	129.00			4670.00	
Perforations	17.00			4687.00	
Bullnose	3.00			4690.00	170.00 Bottom Packers & Anchor

Total Tool Length: 197.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 37327

DST#: 1

ATTN: Steve Angle

Test Start: 2010.04.30 @ 08:02:00

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:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.03 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud 100%	0.631

Total Length: 45.00 ft

Total Volume: 0.631 bbl

Num Fluid Samples: 0

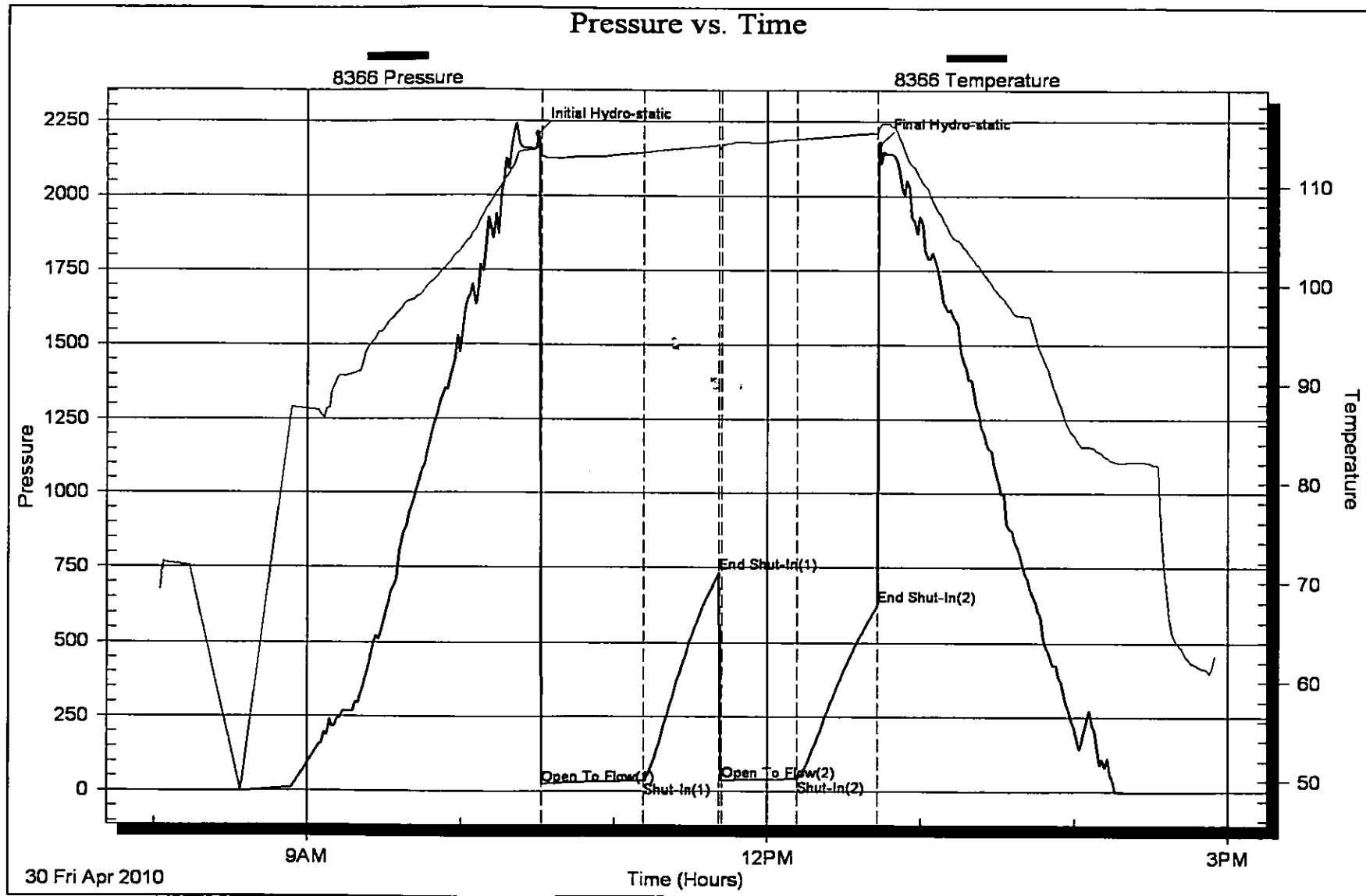
Num Gas Bombs: 0

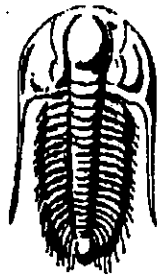
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield, IL 60544

ATTN: Steve Angle

29/15s/34w Logan KS

Tucker A #1-29

Start Date: 2010.05.01 @ 15:30:05

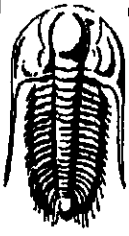
End Date: 2010.05.01 @ 23:38:59

Job Ticket #: 38868 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

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 38868

DST#: 2

ATTN: Steve Angle

Test Start: 2010.05.01 @ 15:30:05

GENERAL INFORMATION:

Formation: **Cherokee**

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

Time Tool Opened: 18:12:00

Time Test Ended: 23:38:59

Test Type: **Conventional Bottom Hole**

Tester: **Mike Roberts**

Unit No: **46**

Interval: **4608.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Reference Elevations: **3057.00 ft (KB)**

Total Depth: **4800.00 ft (KB) (TVD)**

3049.00 ft (CF)

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

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

Serial #: 6751 **Inside**

Press@RunDepth: **psig @ 4610.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.05.01**

End Date: **2010.05.01**

Last Calib.: **2010.05.01**

Start Time: **15:30:05**

End Time: **23:38:59**

Time On Btm: **2010.05.01 @ 18:29:10**

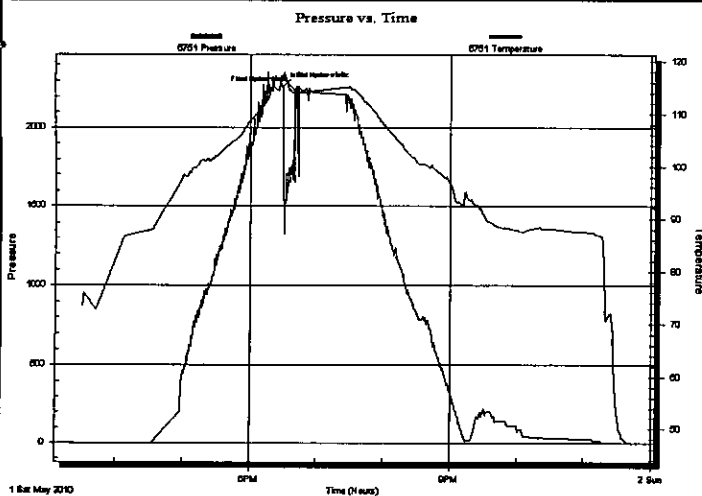
Time Off Btm: **2010.05.01 @ 18:40:00**

TEST COMMENT: **IF:Packer Failure**

IS:

FF:

FS:



PRESSURE SUMMARY

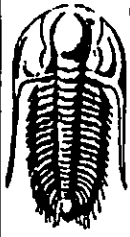
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.07	116.92	Initial Hydro-static
11	2237.51	114.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2170.00	M 100% m	15.69

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 38868 DST#: 2

ATTN: Steve Angle

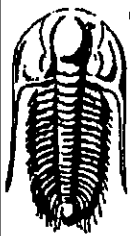
Test Start: 2010.05.01 @ 15:30:05

Tool Information

Drill Pipe:	Length: 4062.00 ft	Diameter: 2.25 inches	Volume: 19.98 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 551.00 ft	Diameter: 3.80 inches	Volume: 7.73 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 27.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4608.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	192.00 ft			
Tool Length:	218.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4587.00	
HYD S.I. Tool	5.00			4592.00	
Jars	5.00			4597.00	
Safety Joint	2.00			4599.00	
Packer	5.00			4604.00	26.00 Bottom Of Top Packer
Packer	4.00			4608.00	
Stubb	1.00			4609.00	
Change Over Sub	1.00			4610.00	
Recorder	0.00	8357	Inside	4610.00	
Recorder	0.00	6751	Inside	4610.00	
Blank Spacing	159.00			4769.00	
Change Over Sub	1.00			4770.00	
Perforations	27.00			4797.00	
Bullnose	3.00			4800.00	192.00 Bottom Packers & Anchor
Total Tool Length:	218.00				



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 38868

DST#: 2

ATTN: Steve Angle

Test Start: 2010.05.01 @ 15:30:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2170.00	M 100%m	15.691

Total Length: 2170.00 ft Total Volume: 15.691 bbl

Num Fluid Samples: 0

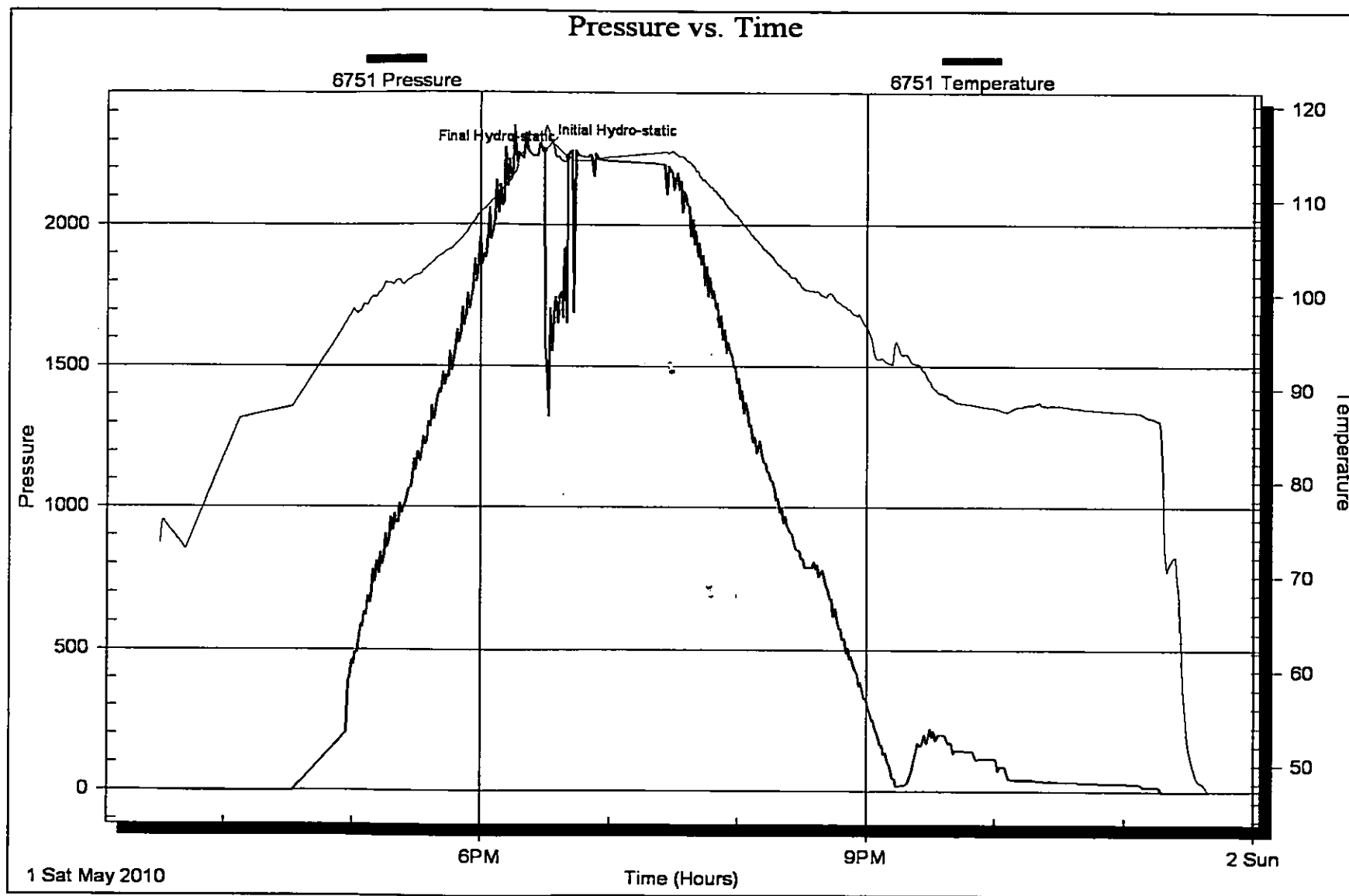
Num Gas Bombs: 0

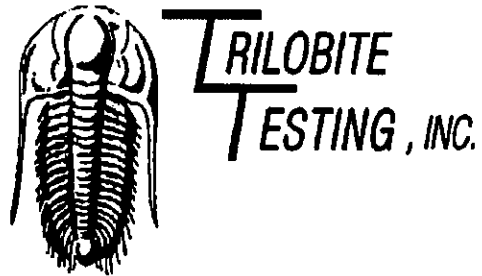
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer Failure, Pulled tool, dropped bar at fluid





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield, IL 60544

ATTN: Steve Angle

29/15s/34w Logan KS

Tucker A #1-29

Start Date: 2010.05.02 @ 00:18:05

End Date: 2010.05.02 @ 10:34:50

Job Ticket #: 38869 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil Inc

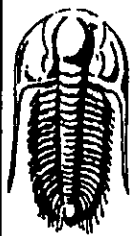
Tucker A #1-29

29/15s/34w Logan KS

DST # 3

Cherokee

2010.05.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 38869

DST#: 3

ATTN: Steve Angle

Test Start: 2010.05.02 @ 00:18:05

GENERAL INFORMATION:

Formation: **Cherokee**

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

Time Tool Opened: 03:02:40

Time Test Ended: 10:34:50

Test Type: **Conventional Bottom Hole**

Tester: **Mike Roberts**

Unit No: **37**

Interval: **4519.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Total Depth: **4800.00 ft (KB) (TVD)**

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

Reference Elevations: **3057.00 ft (KB)**

3049.00 ft (CF)

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

Serial #: **6751**

Inside

Press@RunDepth: **1160.51 psig @ 4521.00 ft (KB)**

Start Date: **2010.05.02**

End Date:

2010.05.02

Start Time: **00:18:05**

End Time:

10:34:50

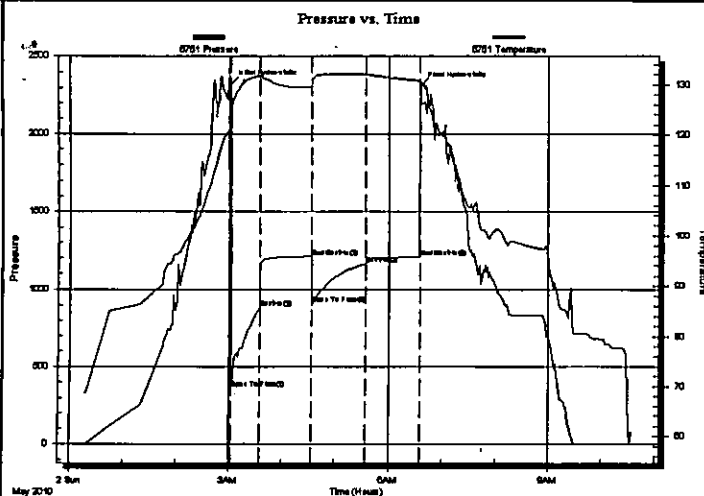
Capacity: **8000.00 psig**

Last Calib.: **2010.05.02**

Time On Btm: **2010.05.02 @ 03:02:10**

Time Off Btm: **2010.05.02 @ 06:35:59**

TEST COMMENT: IF:BOB in 1 Mn.
IS:No blow back
FF:BOB in 3 Mn.
FS:No blow back



PRESSURE SUMMARY

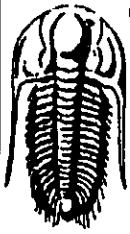
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.90	121.52	Initial Hydro-static
1	362.30	122.50	Open To Flow (1)
33	878.46	131.81	Shut-In(1)
91	1210.35	129.64	End Shut-In(1)
91	905.70	129.49	Open To Flow (2)
153	1160.51	132.05	Shut-In(2)
213	1207.46	130.81	End Shut-In(2)
214	2313.90	130.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	M 100%	5.22
2108.00	SW 100%	12.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, IL 60544

29/15s/34w Logan KS

Job Ticket: 38869

DST#: 3

ATTN: Steve Angle

Test Start: 2010.05.02 @ 00:18:05

Tool Information

Drill Pipe:	Length: 3968.00 ft	Diameter: 2.25 inches	Volume: 19.51 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 551.00 ft	Diameter: 3.80 inches	Volume: 7.73 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 27.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4519.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	281.00 ft			
Tool Length:	308.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4497.00	
HYD S.I. Tool	5.00			4502.00	
Jars	5.00			4507.00	
Safety Joint	2.00			4509.00	
Packer	5.00			4514.00	27.00 Bottom Of Top Packer
Packer	5.00			4519.00	
Stubb	1.00			4520.00	
Change Over Sub	1.00			4521.00	
Recorder	0.00	8357	inside	4521.00	
Recorder	0.00	6751	inside	4521.00	
Blank Spacing	252.00			4773.00	
Change Over Sub	1.00			4774.00	
Perforations	23.00			4797.00	
Bullnose	3.00			4800.00	281.00 Bottom Packers & Anchor

Total Tool Length: 308.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

Tucker A #1-29

PO Box 1469
Plainfield, L. 60544

29/15s/34w Logan KS

Job Ticket: 38869

DST#: 3

ATTN: Steve Angle

Test Start: 2010.05.02 @ 00:18:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	M 100%	5.218
2108.00	SW 100%	11.997

Total Length: 2480.00 ft

Total Volume: 17.215 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=59.5 degrees @ .322= 25,000 ppm

