

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

KCC
SEP 22 2008
CONFIDENTIAL

*ku
mu
11/04/08*

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.01 @ 07:00:05

End Date: 2008.07.01 @ 15:25:00

Job Ticket #: 31378 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

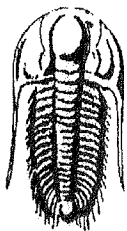
SEP 29 2008

CONSERVATION DIVISION
WICHITA, KS

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

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31378

DST#: 1

Test Start: 2008.07.01 @ 07:00:05

GENERAL INFORMATION:

Formation: L KC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:23:30

Time Test Ended: 15:25:00

Interval: 3971.00 ft (KB) To 4005.00 ft (KB) (TVD)

Total Depth: 4005.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 3041.00 ft (KB)

3028.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6667 Inside

Press@RunDepth: 434.04 psig @ 3972.00 ft (KB)

Start Date: 2008.07.01

End Date:

2008.07.01

Start Time: 07:00:05

End Time:

15:04:44

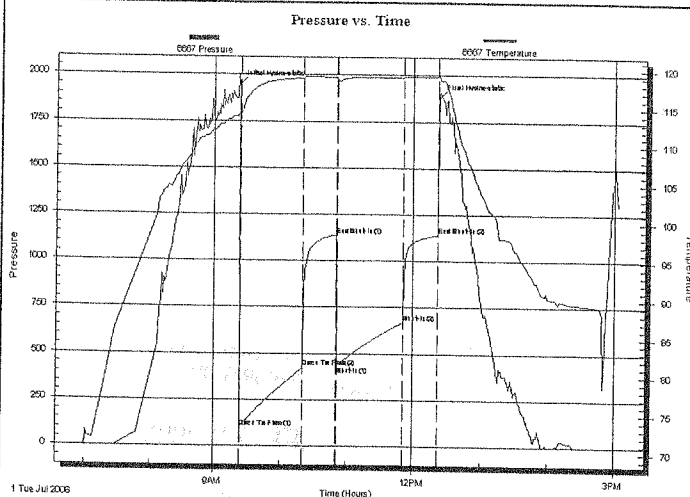
Capacity: 7000.00 psig

Last Calib.: 2008.07.01

Time On Btm: 2008.07.01 @ 09:22:45

Time Off Btm: 2008.07.01 @ 12:22:45

TEST COMMENT: BOB in 4 1/2 min mud dropped 20 " @ open
No return
BOB in 9 1/2 min
No return



PRESSURE SUMMARY

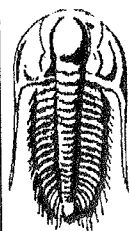
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.01	114.08	Initial Hydro-static
1	101.73	114.28	Open To Flow (1)
59	424.97	118.84	Open To Flow (2)
88	1138.52	118.92	End Shut-In (1)
89	434.04	118.69	Shut-In (1)
149	670.41	119.02	Shut-In (2)
179	1139.20	119.10	End Shut-In (2)
180	1875.00	119.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1116.00	100%W	14.53
186.00	SMCW 10%M 90%W	2.61
186.00	MCW 25%M 75%W	2.61
93.00	WCM 45%W 55%M	1.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31378

DST#: 1

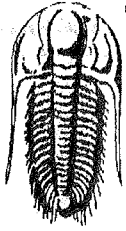
ATTN: Steve Angle

Test Start: 2008.07.01 @ 07:00:05

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	100000.0 lb
			Total Volume: 54.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3971.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	61.00 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			3945.00	
Shut In Tool	5.00			3950.00	
Hydraulic tool	5.00			3955.00	
Jars	5.00			3960.00	
Safety Joint	2.00			3962.00	
Packer	5.00			3967.00	27.00 Bottom Of Top Packer
Packer	4.00			3971.00	
Stubb	1.00			3972.00	
Recorder	0.00	6667	Inside	3972.00	
Recorder	0.00	6771	Outside	3972.00	
Perforations	28.00			4000.00	
Bullnose	5.00			4005.00	34.00 Bottom Packers & Anchor
Total Tool Length: 61.00					



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31378

DST#: 1

ATTN: Steve Angle

Test Start: 2008.07.01 @ 07:00:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 9.72 in³

Resistivity: 0.00 ohm.m

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1116.00	100%W	14.534
186.00	SMCW 10%M 90%W	2.609
186.00	MCW 25%M 75%W	2.609
93.00	WCM 45%W 55%M	1.305

Total Length: 1581.00 ft

Total Volume: 21.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

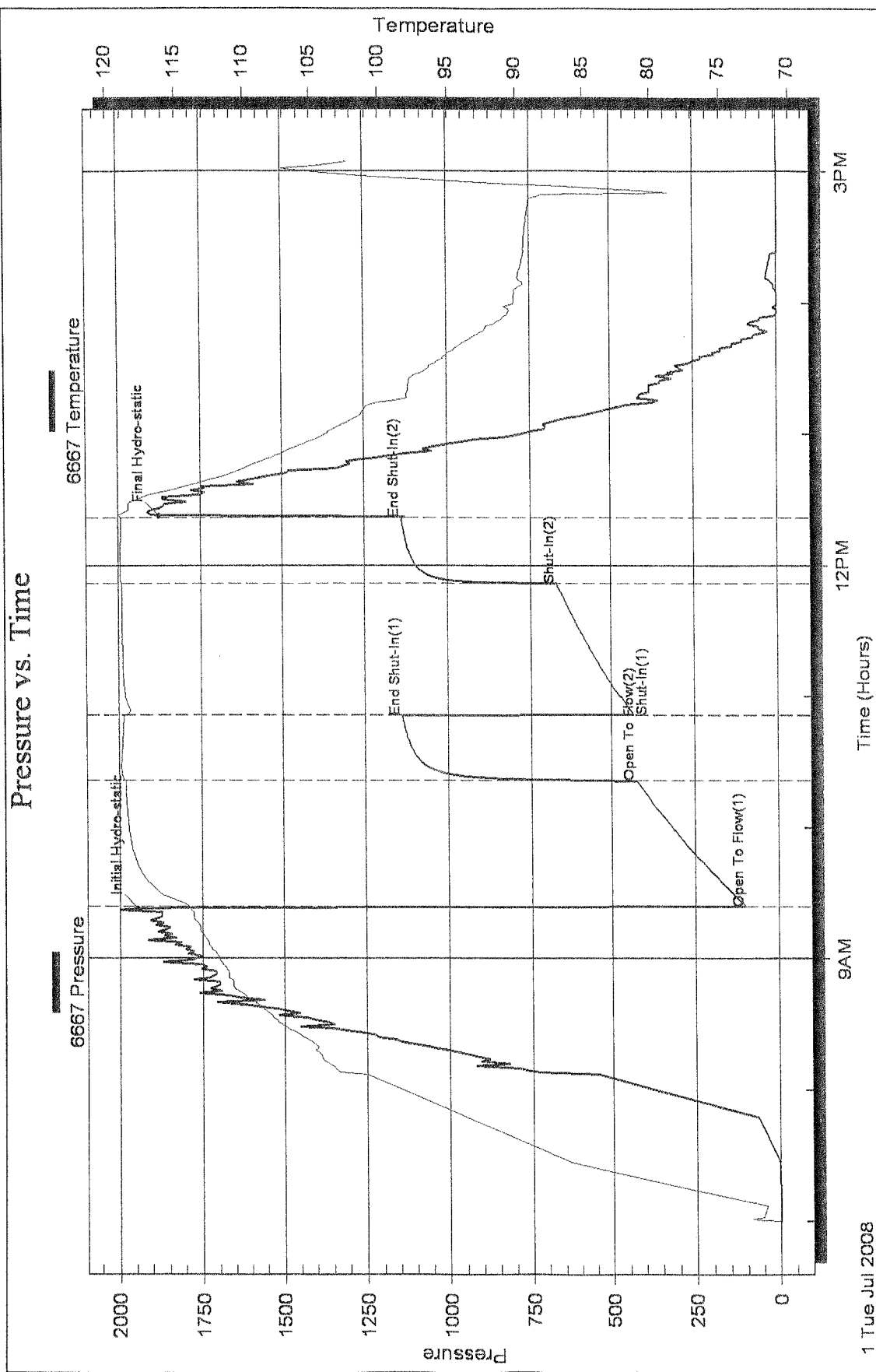
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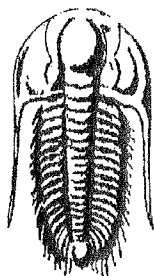
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .122 @ 94*f = 44,500

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.02 @ 08:55:05

End Date: 2008.07.02 @ 17:30:00

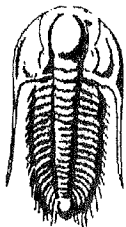
Job Ticket #: 31379 DST #: 2

RECEIVED
KANSAS CORPORATION COMMISSION

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WICHITA, KS

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DRILL STEM TEST REPORT

Russell Oil Inc

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31379

DST#: 2

Test Start: 2008.07.02 @ 08:55:05

GENERAL INFORMATION:

Formation: **L KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:18:00

Time Test Ended: 17:30:00

Interval: **4054.00 ft (KB) To 4170.00 ft (KB) (TVD)**

Total Depth: 4170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 3041.00 ft (KB)

3028.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6667

Inside

Press@RunDepth: 1034.79 psig @ 4055.00 ft (KB)

Start Date: 2008.07.02

End Date:

2008.07.02

Capacity: 7000.00 psig

Last Calib.: 2008.07.02

Start Time: 08:55:05

End Time:

16:52:14

Time On Btm: 2008.07.02 @ 11:17:45

Time Off Btm: 2008.07.02 @ 14:19:30

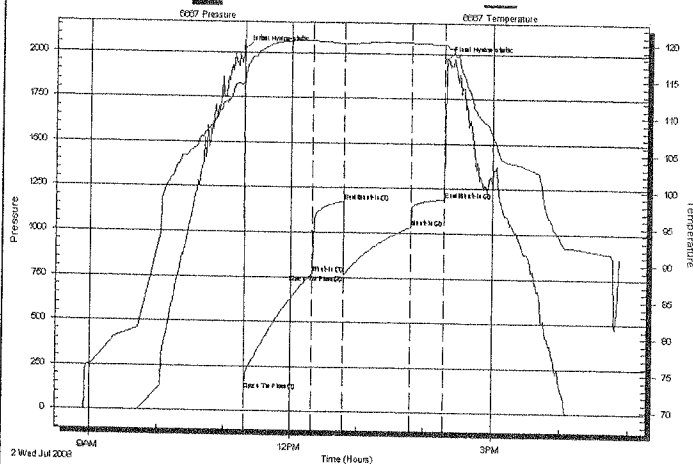
TEST COMMENT: BOB in 3 1/2 min.

No return

BOB in 5 1/2 min

No return

Pressure vs. Time



PRESSURE SUMMARY

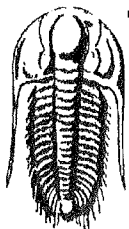
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.18	114.83	Initial Hydro-static
1	114.33	114.30	Open To Flow (1)
63	768.94	120.28	Shut-In (1)
90	1174.00	119.93	End Shut-In (1)
90	764.44	119.80	Open To Flow (2)
151	1034.79	120.15	Shut-In (2)
181	1190.32	119.82	End Shut-In (2)
182	1967.71	119.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1798.00	100%W reversed out	24.10
62.00	100%W	0.87
124.00	SMCW 10%M 90%W	1.74
124.00	MCW 30%M 70%W	1.74
186.00	WCM 40%W 60%M	2.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31379

DST#: 2

ATTN: Steve Angle

Test Start: 2008.07.02 @ 08:55:05

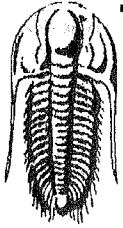
Tool Information

Drill Pipe:	Length: 3929.00 ft	Diameter: 3.80 inches	Volume: 55.11 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	90000.00 lb
			Total Volume: 55.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4054.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	116.00 ft				
Tool Length:	143.00 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			4028.00	
Shut In Tool	5.00			4033.00	
Hydraulic tool	5.00			4038.00	
Jars	5.00			4043.00	
Safety Joint	2.00			4045.00	
Packer	5.00			4050.00	27.00 Bottom Of Top Packer
Packer	4.00			4054.00	
Stubb	1.00			4055.00	
Recorder	0.00	6667	Inside	4055.00	
Recorder	0.00	6771	Outside	4055.00	
Perforations	15.00			4070.00	
Change Over Sub	1.00			4071.00	
Drill Pipe	93.00			4164.00	
Change Over Sub	1.00			4165.00	
Bullnose	5.00			4170.00	116.00 Bottom Packers & Anchor

Total Tool Length: 143.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31379

DST#: 2

ATTN: Steve Angle

Test Start: 2008.07.02 @ 08:55:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 7.16 in³

Resistivity: 0.00 ohm.m

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft
bbl

Oil API:

0 deg API

Water Salinity:

31000 ppm

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1798.00	100%W reversed out	24.101
62.00	100%W	0.870
124.00	SMCW 10%M 90%W	1.739
124.00	MCW 30%M 70%W	1.739
186.00	WCM 40%W 60%M	2.609

Total Length: 2294.00 ft Total Volume: 31.058 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

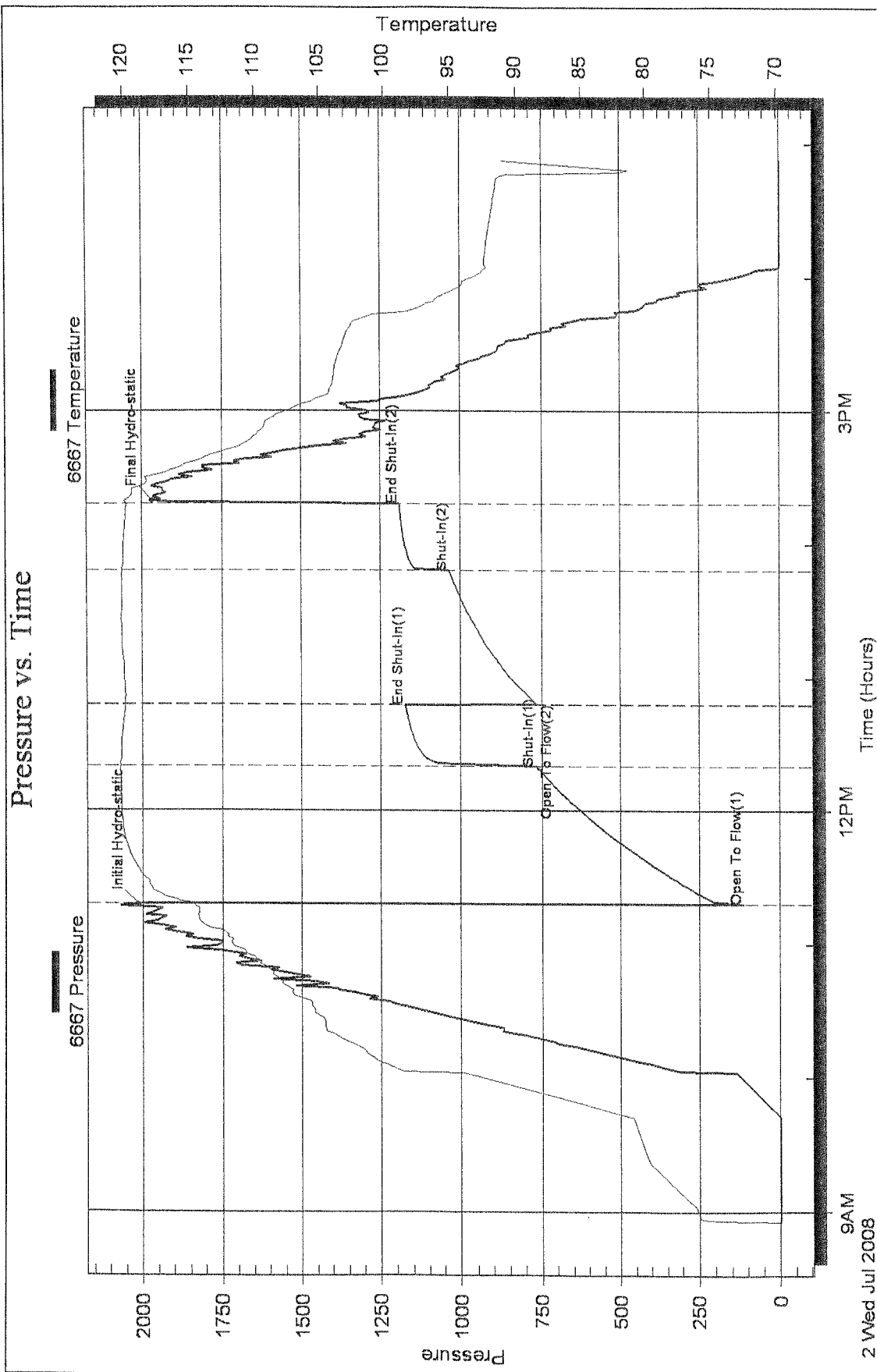
Serial #:

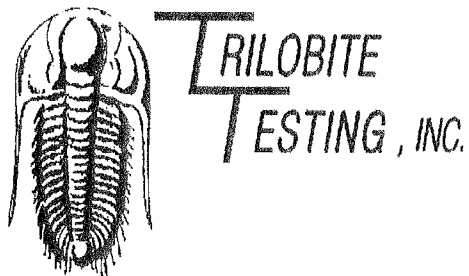
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .201 @ 78°F = 31,000

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.03 @ 04:20:05

End Date: 2008.07.03 @ 13:35:45

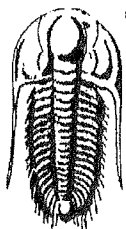
Job Ticket #: 31380 DST #: 3

RECEIVED
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SEP 29 2008

CONSERVATION DIVISION
WICHITA, KS

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

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31380

DST#: 3

Test Start: 2008.07.03 @ 04:20:05

GENERAL INFORMATION:

Formation: L KC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:11:30

Time Test Ended: 13:35:45

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4174.00 ft (KB) To 4220.00 ft (KB) (TVD)

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3041.00 ft (KB)

3028.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6667

Inside

Press@RunDepth: 372.94 psig @ 4175.00 ft (KB)

Start Date: 2008.07.03

End Date:

2008.07.03

Capacity: 7000.00 psig

Last Calib.: 2008.07.03

Start Time: 04:20:05

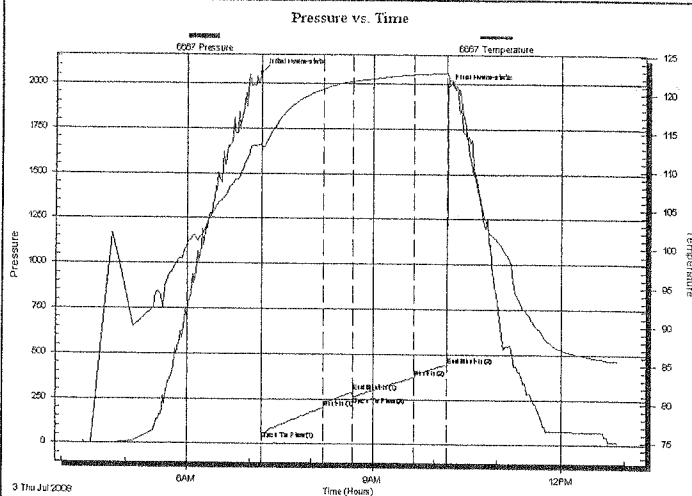
End Time:

12:54:45

Time On Btm: 2008.07.03 @ 07:11:15

Time Off Btm: 2008.07.03 @ 10:13:00

TEST COMMENT: BOB in 28 min
5 " return blow
5 " @ open BOB in 14 min.
6 " return blow



PRESSURE SUMMARY

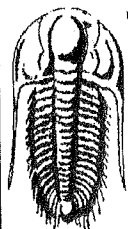
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.63	113.48	Initial Hydro-static
1	24.30	113.00	Open To Flow (1)
60	201.55	120.60	Shut-In(1)
90	288.50	121.63	End Shut-In(1)
90	262.98	121.61	Open To Flow (2)
150	372.94	122.55	Shut-In(2)
181	441.86	122.71	End Shut-In(2)
182	1978.10	122.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
682.00	100%W	8.45
124.00	SMCW 10%M 90%W	1.74
124.00	MCW 40%M 60%W	1.74

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31380

DST#: 3

ATTN: Steve Angle

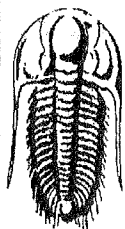
Test Start: 2008.07.03 @ 04:20:05

Tool Information

Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume:	57.45 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4174.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	73.00 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			4148.00	
Shut In Tool	5.00			4153.00	
Hydraulic tool	5.00			4158.00	
Jars	5.00			4163.00	
Safety Joint	2.00			4165.00	
Packer	5.00			4170.00	27.00 Bottom Of Top Packer
Packer	4.00			4174.00	
Stubb	1.00			4175.00	
Recorder	0.00	6667	Inside	4175.00	
Recorder	0.00	6771	Outside	4175.00	
Perforations	7.00			4182.00	
Change Over Sub	1.00			4183.00	
Drill Pipe	31.00			4214.00	
Change Over Sub	1.00			4215.00	
Bullnose	5.00			4220.00	46.00 Bottom Packers & Anchor

Total Tool Length: 73.00



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FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31380

DST#: 3

ATTN: Steve Angle

Test Start: 2008.07.03 @ 04:20:05

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:

50500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
682.00	100%W	8.446
124.00	SMCW 10%M 90%W	1.739
124.00	MCW 40%M 60%W	1.739

Total Length: 930.00 ft

Total Volume: 11.924 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

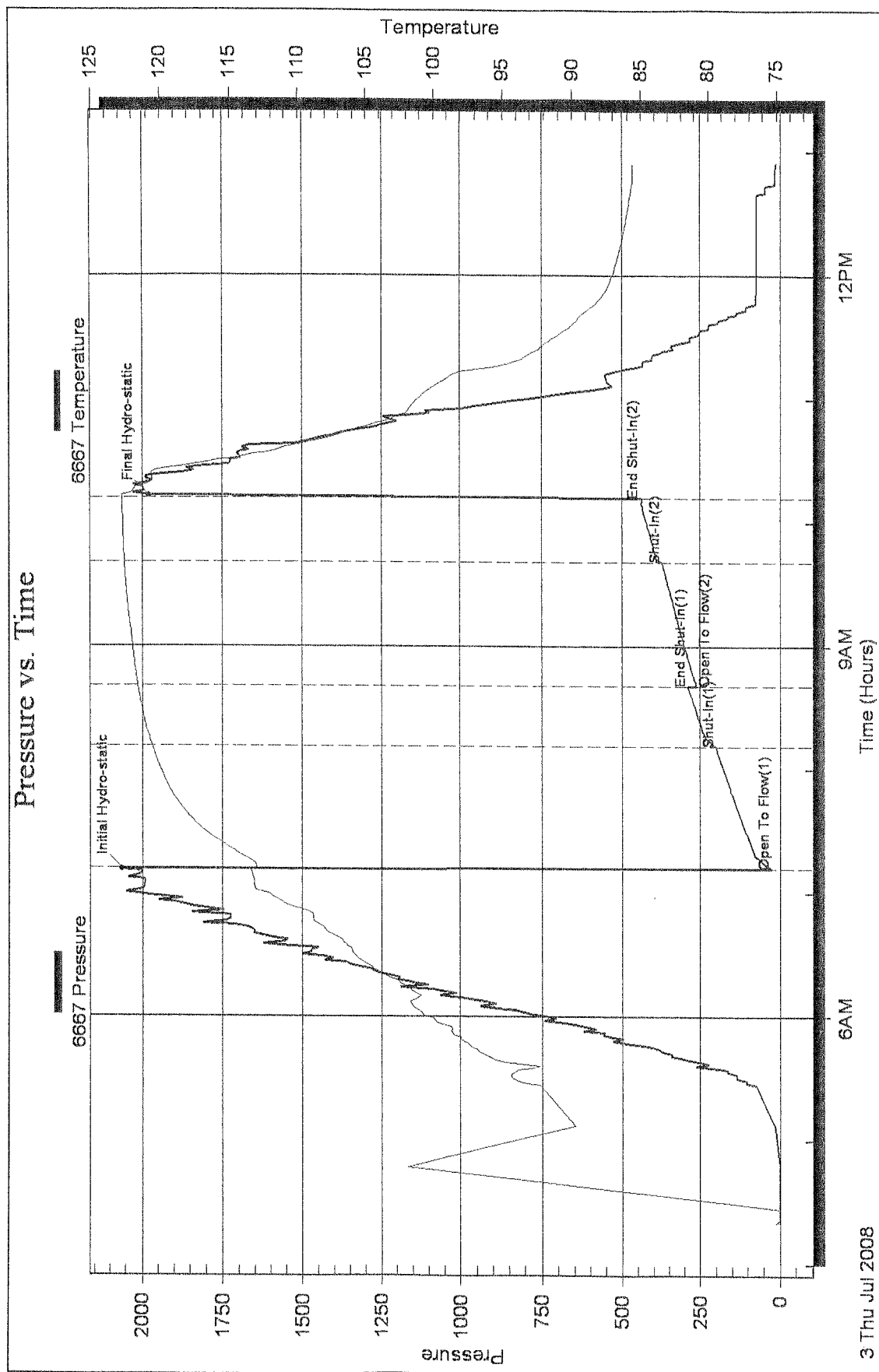
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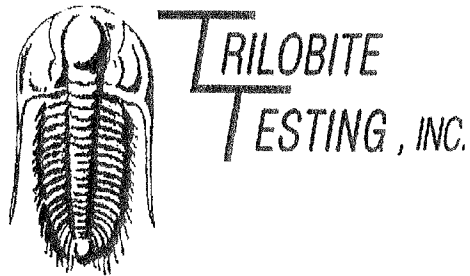
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .104 @ 90*f = 50,500

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.04 @ 10:45:05

End Date: 2008.07.04 @ 19:25:00

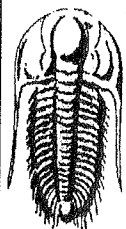
Job Ticket #: 31381 DST #: 4

RECEIVED
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31381

DST#: 4

Test Start: 2008.07.04 @ 10:45:05

GENERAL INFORMATION:

Formation: **Marm**

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

Time Tool Opened: 13:13:45

Time Test Ended: 19:25:00

Interval: **4288.00 ft (KB) To 4451.00 ft (KB) (TVD)**

Total Depth: **4451.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Reference Elevations: **3041.00 ft (KB)**

3028.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6667

Inside

Press@RunDepth: **706.93 psig @ 4289.00 ft (KB)**

Start Date: **2008.07.04**

End Date:

2008.07.04

Capacity: **7000.00 psig**

Start Time: **10:45:05**

End Time:

19:10:59

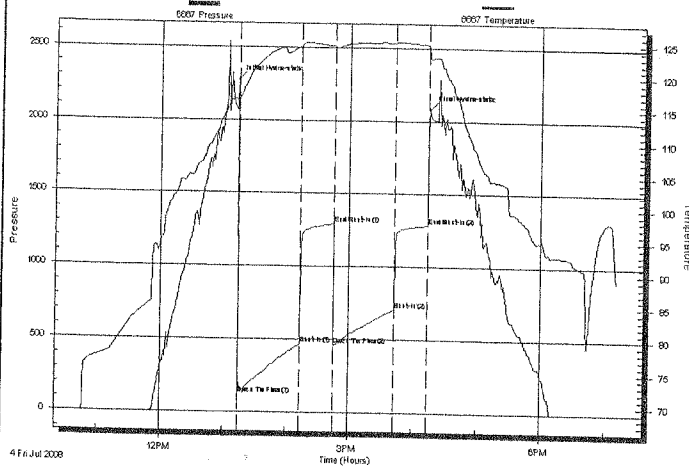
Last Calib.: **2008.07.04**

Time On Btm: **2008.07.04 @ 13:13:30**

Time Off Btm: **2008.07.04 @ 16:16:15**

TEST COMMENT: BOB in 7 1/2 min
No return
BOB in 11 1/2 min
No return

Pressure vs. Time



PRESSURE SUMMARY

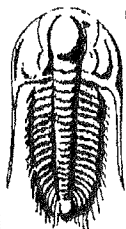
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.40	116.72	Initial Hydro-static
1	118.12	116.38	Open To Flow (1)
60	470.63	124.55	Shut-In (1)
92	1290.77	124.62	End Shut-In (1)
92	460.66	124.29	Open To Flow (2)
150	706.93	125.21	Shut-In (2)
181	1284.97	124.91	End Shut-In (2)
183	2081.87	122.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
992.00	100%Ww/scum O	12.79
248.00	VSMCWscum O 5%M 95%W	3.48
124.00	SMCW 15%M 85%W	1.74
124.00	MCW 40%M 60%W	1.74

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31381

DST#: 4

ATTN: Steve Angle

Test Start: 2008.07.04 @ 10:45:05

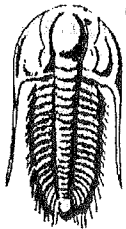
Tool Information

Drill Pipe:	Length: 4149.00 ft	Diameter: 3.80 inches	Volume: 58.20 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	58.80 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4288.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	163.00 ft				
Tool Length:	190.00 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			4262.00	
Shut In Tool	5.00			4267.00	
Hydraulic tool	5.00			4272.00	
Jars	5.00			4277.00	
Safety Joint	2.00			4279.00	
Packer	5.00			4284.00	27.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	6667	Inside	4289.00	
Recorder	0.00	6771	Outside	4289.00	
Perforations	31.00			4320.00	
Change Over Sub	1.00			4321.00	
Drill Pipe	124.00			4445.00	
Change Over Sub	1.00			4446.00	
Bullnose	5.00			4451.00	163.00 Bottom Packers & Anchor

Total Tool Length: 190.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31381

DST#: 4

ATTN: Steve Angle

Test Start: 2008.07.04 @ 10:45:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.35 in³

Resistivity: 0.00 ohm.m

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

42000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
992.00	100%Vw /scum O	12.795
248.00	VSMCWscum O 5%M 95%W	3.479
124.00	SMCW 15%M 85%W	1.739
124.00	MCW 40%M 60%W	1.739

Total Length: 1488.00 ft

Total Volume: 19.752 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

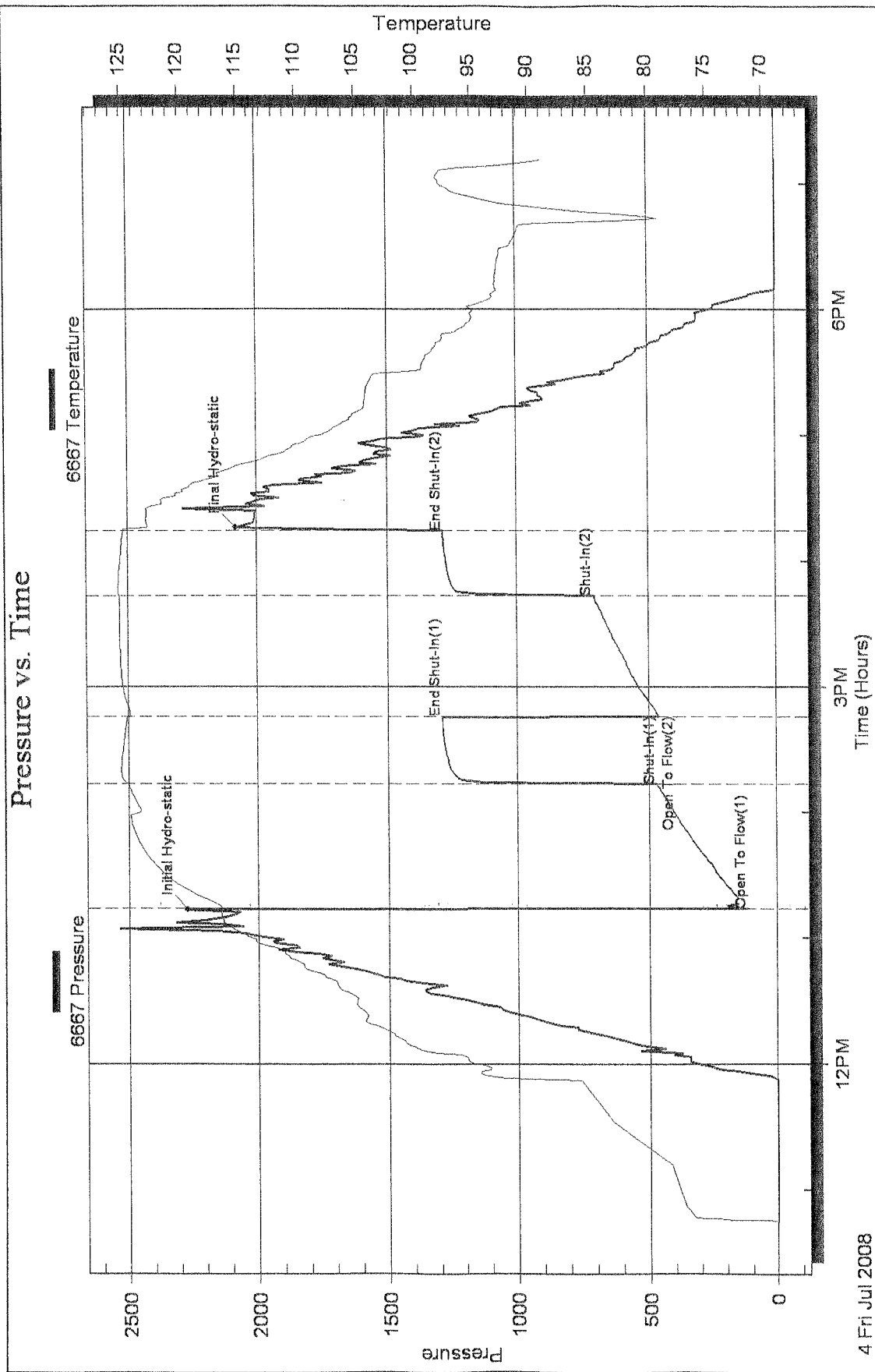
Serial #:

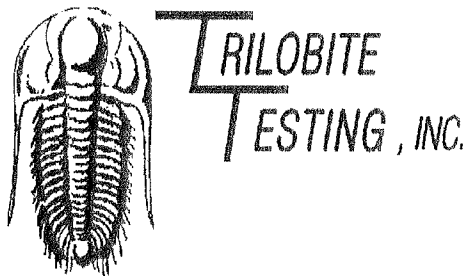
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .131 @ 92°F =42,000

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.05 @ 10:55:05

End Date: 2008.07.05 @ 19:00:00

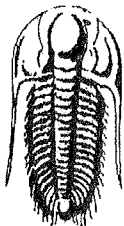
Job Ticket #: 31382 DST #: 5

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 29 2008

CONSERVATION DIVISION
WICHITA, KS

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

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31382

DST#: 5

Test Start: 2008.07.05 @ 10:55:05

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:13:00

Time Test Ended: 19:00:00

Interval: **4451.00 ft (KB) To 4512.00 ft (KB) (TVD)**

Total Depth: 4512.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 3041.00 ft (KB)

3028.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6667

Inside

Press@RunDepth: 67.06 psig @ 4452.00 ft (KB)

Start Date: 2008.07.05

End Date:

2008.07.05

Start Time: 10:55:05

End Time:

18:47:59

Capacity: 7000.00 psig

Last Calib.: 2008.07.05

Time On Btm: 2008.07.05 @ 13:12:15

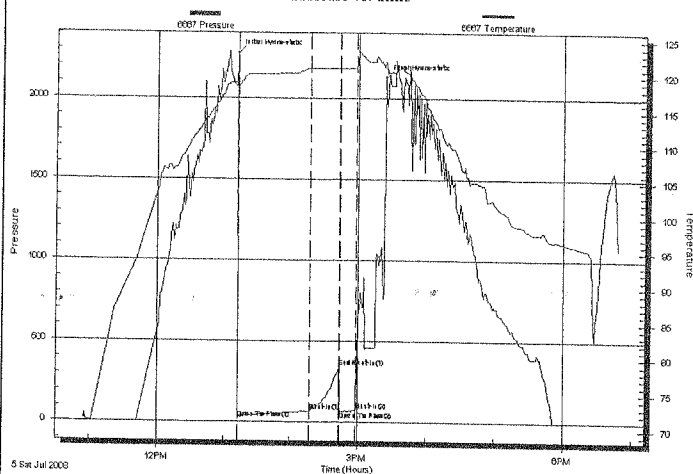
Time Off Btm: 2008.07.05 @ 15:24:15

TEST COMMENT: 5 " blow

No return

2 1/2 " blow in 35 min. lost packer seat pull tool

Pressure vs. Time



PRESSURE SUMMARY

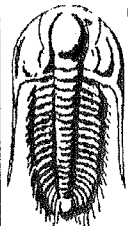
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2274.44	119.17	Initial Hydro-static
1	21.93	118.59	Open To Flow (1)
65	67.06	121.03	Shut-In (1)
91	342.54	121.13	End Shut-In (1)
92	68.16	121.05	Open To Flow (2)
106	72.38	121.07	Shut-In (2)
132	2125.86	121.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1039.00	Mw/O spots 100%M	13.45
449.00	SGOCM 5%G 5%O 90%M	6.30

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31382

DST#: 5

ATTN: Steve Angle

Test Start: 2008.07.05 @ 10:55:05

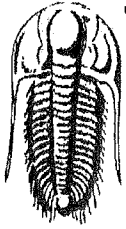
Tool Information

Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	130000.0 lb
		Total Volume:	61.38 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4451.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	88.00 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			4425.00	
Shut In Tool	5.00			4430.00	
Hydraulic tool	5.00			4435.00	
Jars	5.00			4440.00	
Safety Joint	2.00			4442.00	
Packer	5.00			4447.00	27.00 Bottom Of Top Packer
Packer	4.00			4451.00	
Stubb	1.00			4452.00	
Recorder	0.00	6667	Inside	4452.00	
Recorder	0.00	6771	Outside	4452.00	
Perforations	22.00			4474.00	
Change Over Sub	1.00			4475.00	
Drill Pipe	31.00			4506.00	
Change Over Sub	1.00			4507.00	
Bullnose	5.00			4512.00	61.00 Bottom Packers & Anchor

Total Tool Length: 88.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31382

DST#: 5

ATTN: Steve Angle

Test Start: 2008.07.05 @ 10:55:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 9.16 in³

Resistivity: 0.00 ohm.m

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1039.00	Mw/O spots 100%M	13.454
449.00	SGOCM 5%G 5%O 90%M	6.298

Total Length: 1488.00 ft

Total Volume: 19.752 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

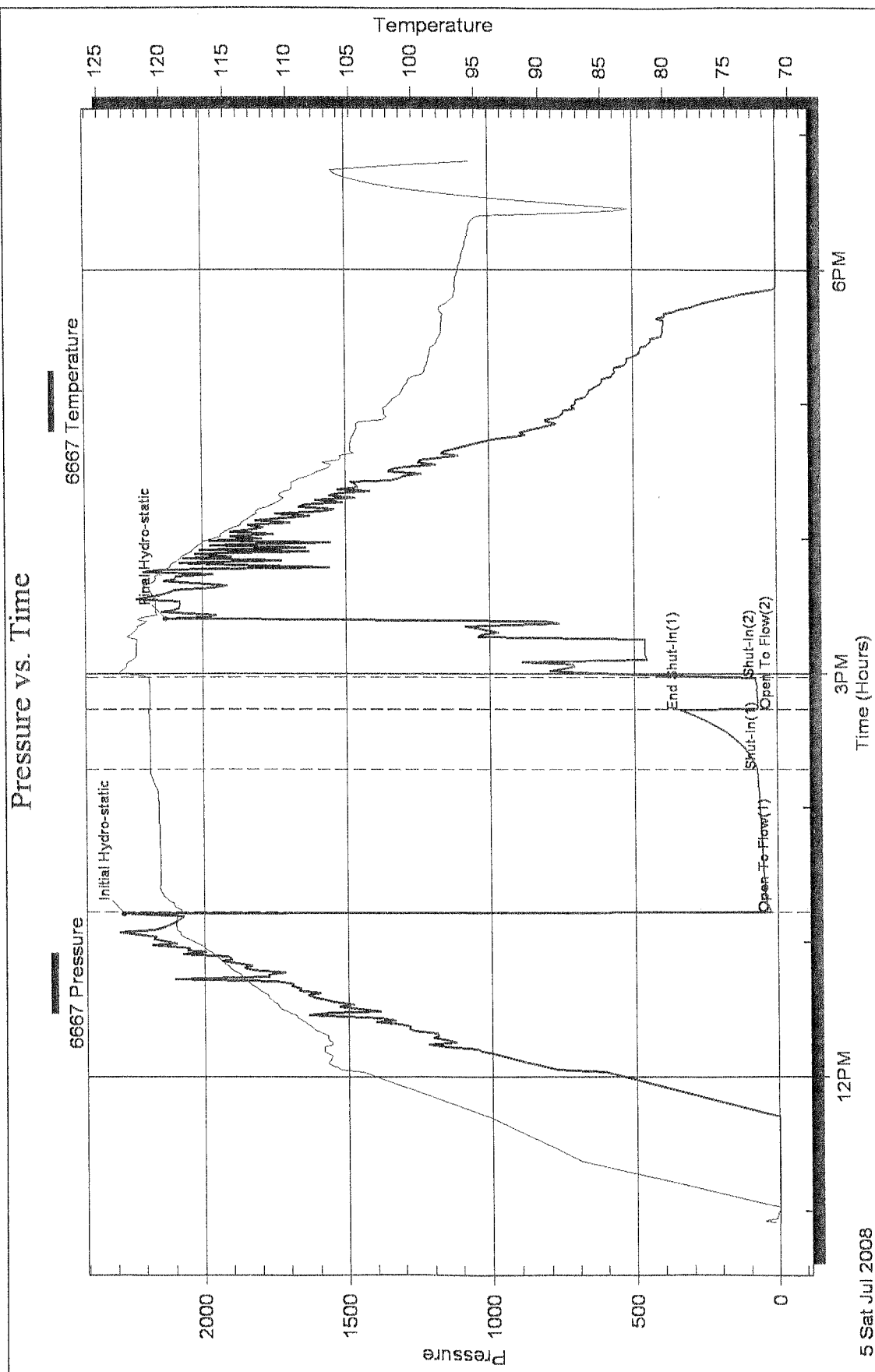
Serial #:

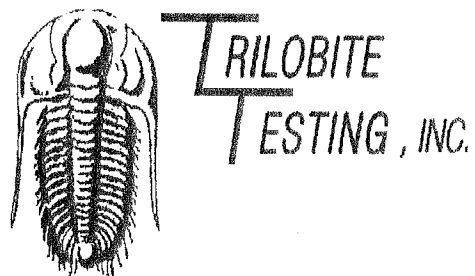
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc**

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

28 15 34 Logan KS

McDaniels M # 1-28

Start Date: 2008.07.06 @ 10:45:14

End Date: 2008.07.06 @ 18:05:23

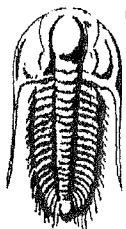
Job Ticket #: 31382 DST #: 6

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 29 2008

CONSERVATION DIVISION
WICHITA, KS

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

PO Box 1469
Plainfield IL 60544

ATTN: Steve Angle

McDaniels M # 1-28

28 15 34 Logan KS

Job Ticket: 31382

DST#: 6

Test Start: 2008.07.06 @ 10:45:14

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:05:09

Time Test Ended: 18:05:23

Interval: **4460.00 ft (KB) To 4576.00 ft (KB) (TVD)**

Total Depth: 4576.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 3041.00 ft (KB)

3028.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6667

Inside

Press@RunDepth: 80.39 psig @ 4461.00 ft (KB)

Start Date: 2008.07.06

End Date:

2008.07.06

Start Time: 10:45:14

End Time:

17:52:23

Capacity: 7000.00 psig

Last Calib.: 2008.07.06

Time On Btm: 2008.07.06 @ 13:03:54

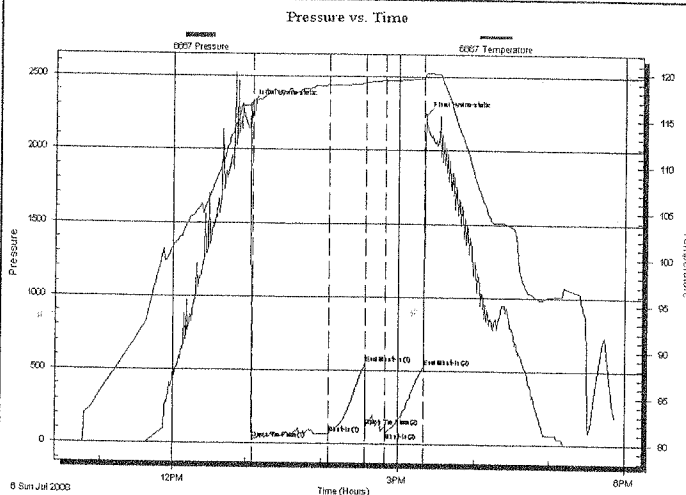
Time Off Btm: 2008.07.06 @ 15:21:54

TEST COMMENT: 1/4 " @ open built to 3/4 " died in 53 min.

No return

No blow

No return



PRESSURE SUMMARY

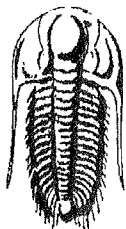
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.96	116.67	Initial Hydro-static
2	27.33	115.66	Open To Flow (1)
62	70.94	118.85	Shut-In(1)
91	544.18	118.98	End Shut-In(1)
91	118.23	118.91	Open To Flow(2)
107	80.39	119.31	Shut-In(2)
137	528.94	119.56	End Shut-In(2)
138	2240.36	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOWCM 5%O 12%W 83%M	0.30
62.00	VSOCM 3%O 97%M	0.31

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31382

DST#: 6

ATTN: Steve Angle

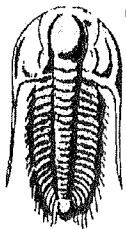
Test Start: 2008.07.06 @ 10:45:14

Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 bbl	Tool Weight:	1500.00 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: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	88000.00 lb
		Total Volume:	61.41 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4460.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	116.00 ft				
Tool Length:	143.00 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			4434.00	
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
Jars	5.00			4449.00	
Safety Joint	2.00			4451.00	
Packer	5.00			4456.00	27.00 Bottom Of Top Packer
Packer	4.00			4460.00	
Stubb	1.00			4461.00	
Recorder	0.00	6667	Inside	4461.00	
Recorder	0.00	6771	Outside	4461.00	
Perforations	15.00			4476.00	
Change Over Sub	1.00			4477.00	
Drill Pipe	93.00			4570.00	
Change Over Sub	1.00			4571.00	
Bullnose	5.00			4576.00	116.00 Bottom Packers & Anchor
Total Tool Length:		143.00			



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc

McDaniels M # 1-28

PO Box 1469
Plainfield IL 60544

28 15 34 Logan KS

Job Ticket: 31382

DST#: 6

ATTN: Steve Angle

Test Start: 2008.07.06 @ 10:45:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.78 in³

Resistivity: 0.00 ohm.m

Salinity: 4600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	SOWCM 5%O 12%W 83%M	0.305
62.00	VSOCM 3%O 97%M	0.314

Total Length: 124.00 ft

Total Volume: 0.619 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

