

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

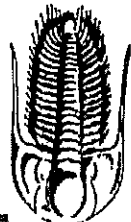
McDaniel D 1-24

Start Date: 2010.10.23 @ 09:54:52

End Date: 2010.10.23 @ 18:18:46

Job Ticket #: 040265 DST #: 1

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



TRIBOLITE
TESTING, INC.

Russell Oil
PO Box 8050
Edmond, OK 73083
ATTN: Steve Angle

Mcdaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 040265
DST#: 1
Test Start: 2010.10.23 @ 09:54:52

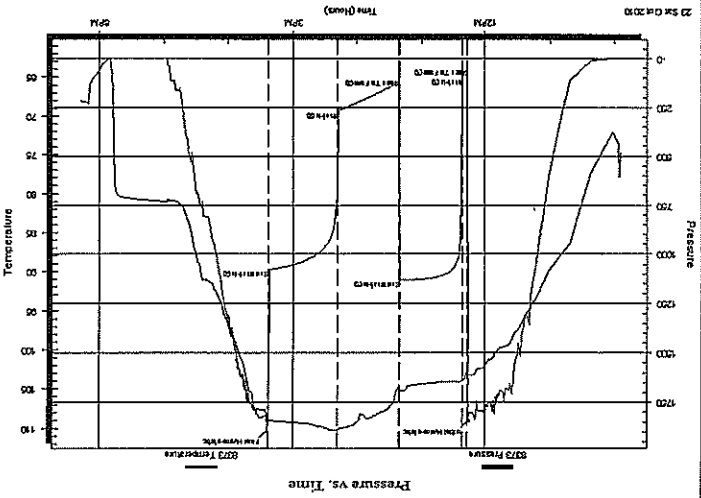
DRILL STEM TEST REPORT

GENERAL INFORMATION:

Formation: Topoka
Deviated: No Whipstock
Interval: 3794.00 ft (KB) To 3850.00 ft (KB) (TVD)
Total Depth: 3850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good
Reference Elevations: 2990.00 ft (KB)
2980.00 ft (CF)
10.00 ft
Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35

Serial #: 8373
Inside
Press@RunDepth: 269.57 psig @ 3795.00 ft (KB)
Start Date: 2010.10.23
End Date: 2010.10.23
Start Time: 09:54:52
End Time: 18:18:46
Capacity: 8000.00 psig
Last Calib.: 2010.10.23
Time On Btm: 2010.10.23 @ 12:16:02
Time Off Btm: 2010.10.23 @ 15:23:46

TEST COMMENT: IF: 1 blow built to 6 in 5 min.
IS: No return.
FF: Surface blow BOB in 18 min.
FS: No return.



Length (ft)	Description	Volume (bbl)
248.00	mcw 80%w 20%m	1.26
186.00	mcw 70%w 30%m	2.61
129.00	w cm 10%w 90%m	1.81

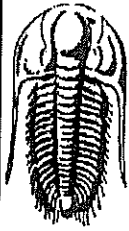
Recovery

Gas Rates

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

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.82	103.25	Initial Hydro-static
1	97.98	103.71	Open To Flow (1)
6	1132.38	105.25	End Shut-In (1)
65	103.43	104.81	Open To Flow (2)
122	269.57	110.06	Shut-In (2)
187	1077.51	109.09	End Shut-In (2)
188	1892.48	108.58	Final Hydro-static

PRESSURE SUMMARY



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil
PO Box 8050
Edmond, OK 73083
ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 040265 DST#: 1
Test Start: 2010.10.23 @ 09:54:52

Tool Information

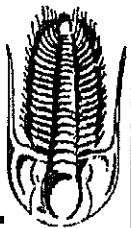
Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.03 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3794.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3767.00	
Shut In Tool	5.00			3772.00	
Hydraulic tool	5.00			3777.00	
Jars	5.00			3782.00	
Safety Joint	3.00			3785.00	
Packer	5.00			3790.00	28.00 Bottom Of Top Packer
Packer	4.00			3794.00	
Stubb	1.00			3795.00	
Recorder	0.00	8373	Inside	3795.00	
Recorder	0.00	8289	Outside	3795.00	
Perforations	17.00			3812.00	
Change Over Sub	1.00			3813.00	
Drill Pipe	31.00			3844.00	
Change Over Sub	1.00			3845.00	
Bullnose	5.00			3850.00	56.00 Bottom Packers & Anchor

Total Tool Length: 84.00



TRIBOLITE
TESTING, INC.

Russell Oil

PO Box 8050
Edmond, OK 73083

24-15-34 Logan, KS

McDaniel D 1-24

Job Ticket: 040265 DST#: 1

ATTN: Steve Angle
Test Start: 2010.10.23 @ 09:54:52

DRILL STEM TEST REPORT

FLUID SUMMARY

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 59.00 sec/qt
Water Loss: 7.56 in²
Resistivity: 0.00 ohm.m
Salinity: 5500.00 ppm
Filter Cake: 1.00 inches

Cushion Type: Oil API
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type: psig
Gas Cushion Pressure: psig
Water Salinity: 4400 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mcw 80%w 20%w	1.256
186.00	mcw 70%w 30%w	2.609
129.00	w cm 10%w 90%w	1.810

Total Length: 563.00 ft Total Volume: 5.675 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial#: _____

Laboratory Name: _____

Recovery Comments: .16@74=4400

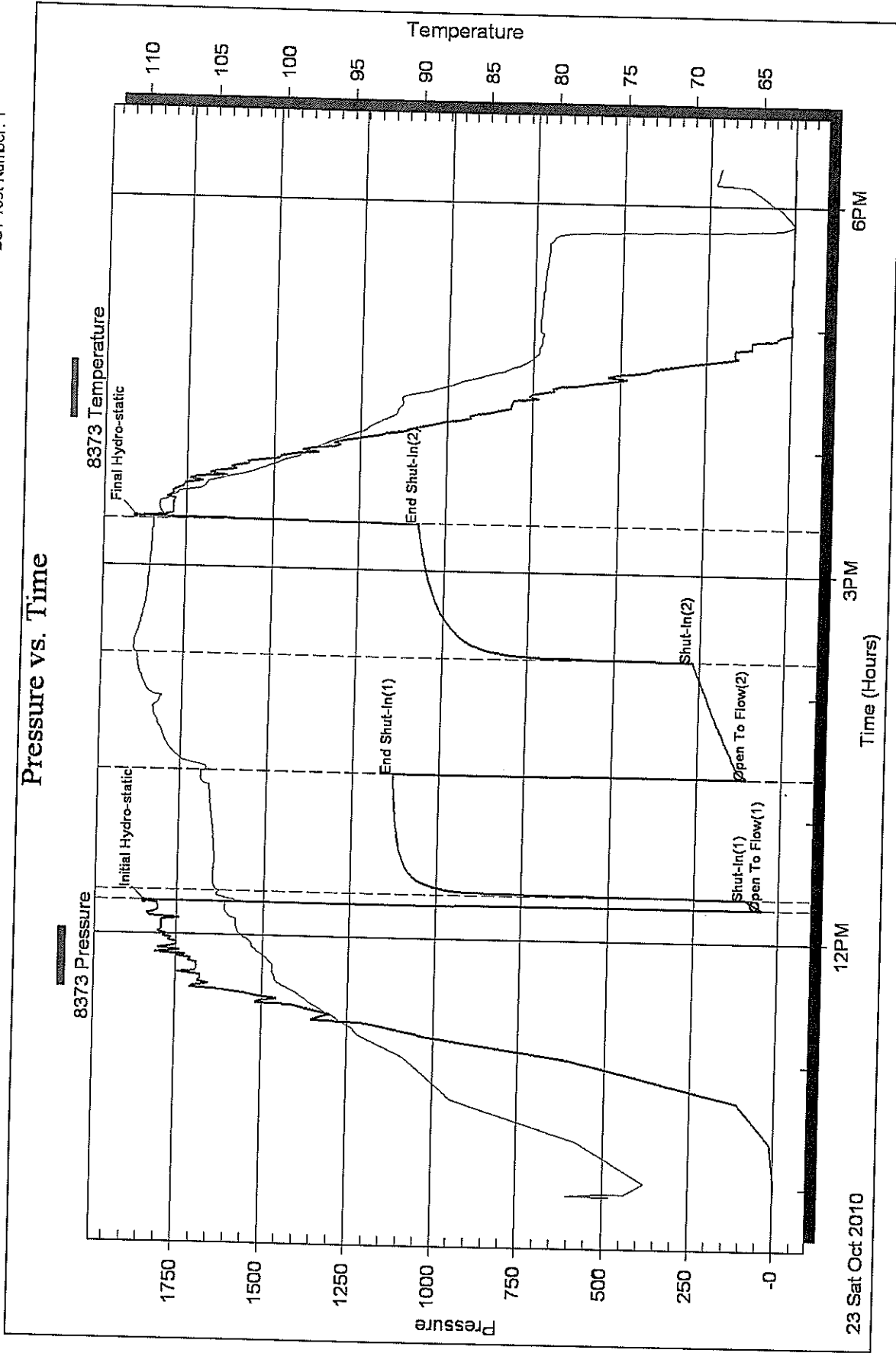
Serial #: 8373

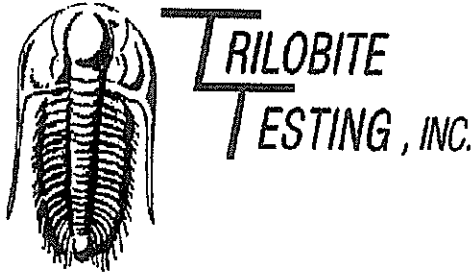
Inside

Russell Oil

24-15-34 Logan, KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Russell Oil**
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

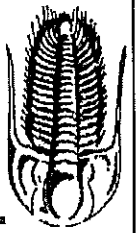
McDaniel D 1-24

Start Date: 2010.10.25 @ 07:11:55

End Date: 2010.10.25 @ 15:36:34

Job Ticket #: 040266 DST #: 2

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



TRIBOLITE TESTING, INC.

Russell Oil
 PO Box 8050
 Edmond, OK 73083
 ATTN: Steve Angle

McDaniel D 1-24
 24-15-34 Logan, KS
 Job Ticket: 040266
 DST#: 2
 Test Start: 2010.10.25 @ 07:11:55

DRILL STEM TEST REPORT

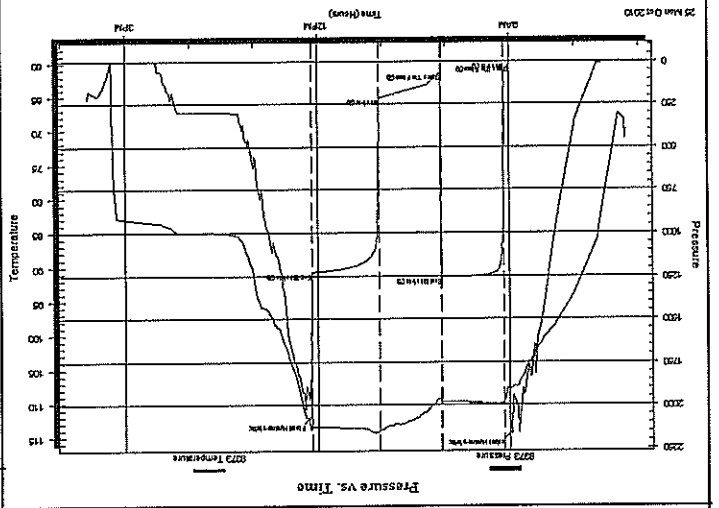
GENERAL INFORMATION:

Formation: LKC-1
 Deviated: No
 Whipstock: ft (KB)
 Time Tool Opened: 08:59:50
 Time Test Ended: 15:36:34
 Interval: 4098.00 ft (KB) To 4154.00 ft (KB) (TVD)
 Total Depth: 4154.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches/Hole Condition: Good
 Reference Elevations: 2990.00 ft (KB)
 2980.00 ft (CF)
 10.00 ft
 Test Type: Conventional Bottom Hole
 Tester: Brandon Turley
 Unit No: 35

Serial #: 8373
 Inside
 Press@RunDepth: 212.82 psig @ 4099.00 ft (KB)
 Start Date: 2010.10.25
 End Date: 2010.10.25
 Start Time: 07:11:55
 End Time: 15:36:34

Capacity: 8000.00 psig
 Last Call: 2010.10.25
 Time On Btm: 2010.10.25 @ 08:58:05
 Time Off Btm: 2010.10.25 @ 12:05:49

TEST COMMENT: IF: 1/4 blow built to 3 in 5 min.
 IS: No return.
 FF: Surface blow BOB in 25 min.
 FS: No return.



Length (ft)	Description	Volume (bbl)
244.00	mcw 80%w 20%w	1.20
186.00	w cm 40%w 60%w	2.61

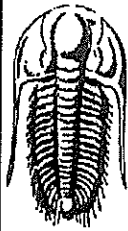
Recovery

Gas Rates

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

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.10	107.77	Initial Hydro-static
2	23.20	107.42	Open To Flow (1)
7	57.85	109.14	Shut-in(1)
66	1260.41	109.73	End Shut-in(1)
67	67.23	109.27	Open To Flow (2)
125	212.82	113.87	Shut-in(2)
187	1228.42	113.37	End Shut-in(2)
188	2066.81	113.90	Final Hydro-static

PRESSURE SUMMARY



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 040266 DST#: 2
Test Start: 2010.10.25 @ 07:11:55

Tool Information

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 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:	30000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	100000.0 lb
			Total Volume: 54.95 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4098.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	84.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4071.00	
Shut In Tool	5.00			4076.00	
Hydraulic tool	5.00			4081.00	
Jars	5.00			4086.00	
Safety Joint	3.00			4089.00	
Packer	5.00			4094.00	28.00 Bottom Of Top Packer
Packer	4.00			4098.00	
Stubb	1.00			4099.00	
Recorder	0.00	8373	Inside	4099.00	
Recorder	0.00	8289	Outside	4099.00	
Perforations	17.00			4116.00	
Change Over Sub	1.00			4117.00	
Drill Pipe	31.00			4148.00	
Change Over Sub	1.00			4149.00	
Bullnose	5.00			4154.00	56.00 Bottom Packers & Anchor

Total Tool Length: 84.00

Recovery Information

Length ft	Description	Volume bbl
244.00	mcw 80%w 20%w	1,200
186.00	w cm 40%w 60%w	2,609
Total Length: 430.00 ft		Total Volume: 3,809 bbl

Num Fluid Samples: 0
 Num Gas Bombs: 0
 Laboratory Name:
 Laboratory Location:
 Recovery Comments: .22@66=33000
 Serial #:

Recovery Table

Mud and Cushion Information

Mud Type: Gal Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 55.00 sec/qt
 Water Loss: 7.76 in²
 Resistivity: 0.00 ohm.m
 Salinity: 5700.00 ppm
 Filter Cake: 1.00 inches
 Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Pressure: psig
 Oil API: 0 deg API
 Water Salinity: 33000 ppm

DRILL STEM TEST REPORT

FLUID SUMMARY



Russell Oil
 Edmond, OK 73083
 PO Box 8050
 ATTN: Steve Angle
 Test Start: 2010.10.25 @ 07:11:55
 Job Ticket: 040266
 DST#: 2
 24-15-34 Logan, KS
 McDaniel D 1-24

Serial #: 8373

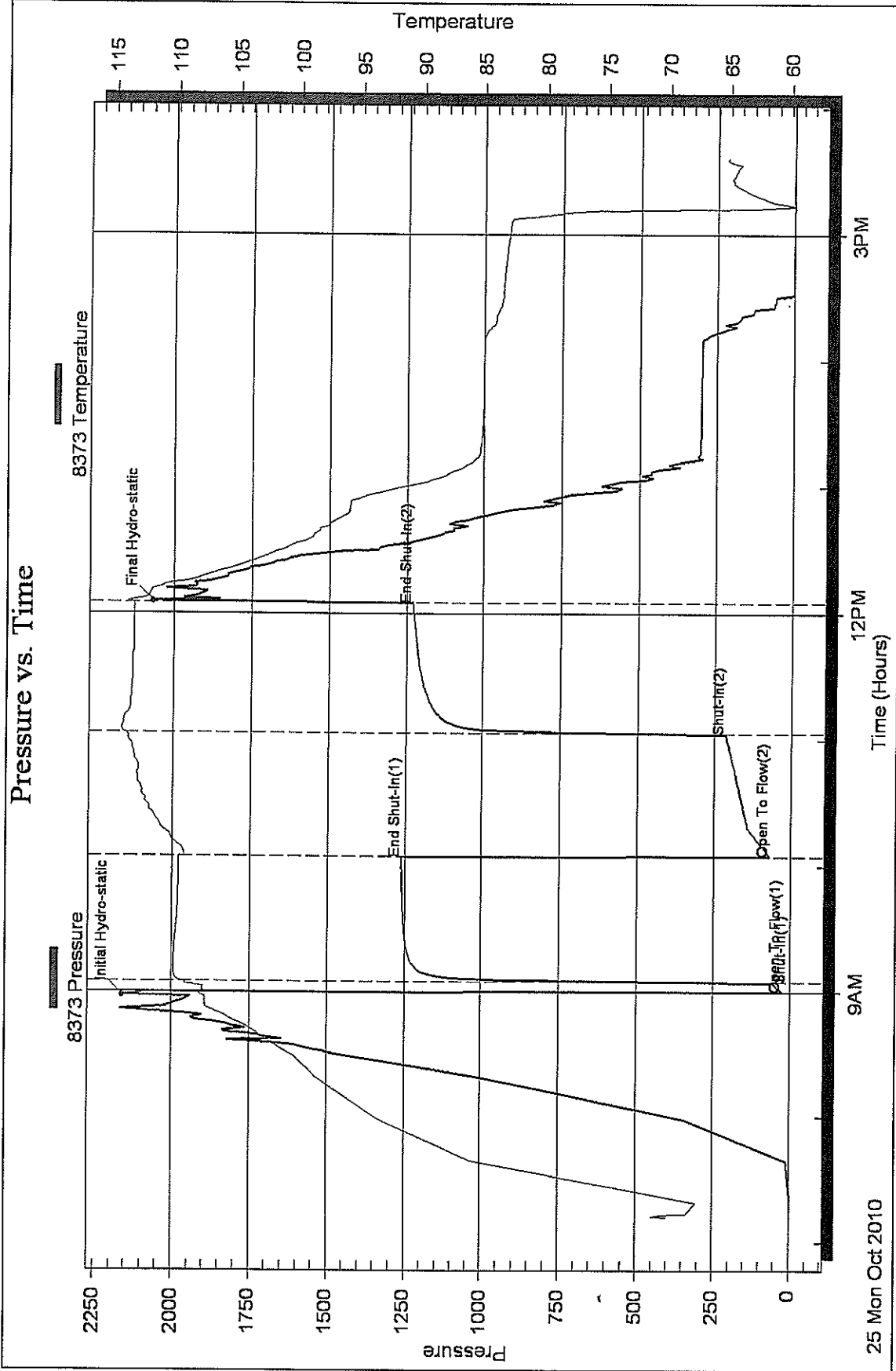
Inside

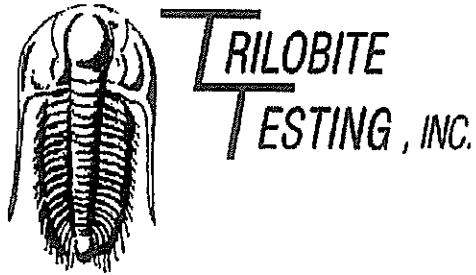
Russell Oil

24-15-34 Logan, KS

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

McDaniel D 1-24

Start Date: 2010.10.26 @ 00:36:07

End Date: 2010.10.26 @ 09:20:52

Job Ticket #: 039684 DST #: 3

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

DRILL STEM TEST REPORT



Russell Oil
 PO Box 8050
 Edmond, OK 73083
 ATTN: Steve Angle

McDaniel D 1-24
 24-15-34 Logan, KS
 Job Ticket: 039684
 DST#: 3
 Test Start: 2010.10.26 @ 00:36:07

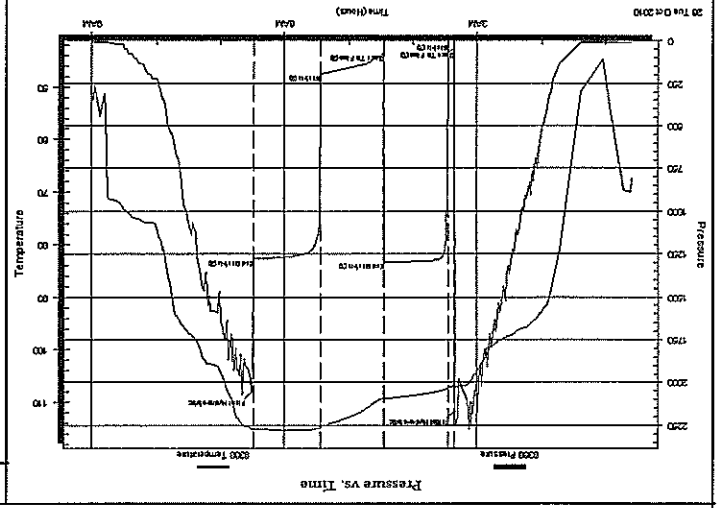
GENERAL INFORMATION:

Formation: J
 Deviated: No
 Whipstock: ft (KB)
 Time Tool Opened: 03:21:52
 Time Test Ended: 09:20:52
 Interval: 4145.00 ft (KB) To 4175.00 ft (KB) (TVD)
 Total Depth: 4175.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 KB to GR/CF: 10.00 ft

TEST COMMENT:

2" in blow
 No return
 B.O.B. in 60 min
 No return

Serial #: 8368
 Inside
 Press@RunDepth: 197.28 psig @ 4146.00 ft (KB)
 Start Date: 2010.10.26
 End Date: 2010.10.26
 Start Time: 00:36:07
 End Time: 09:00:52
 Capacity: 8000.00 psig
 Last Callb.: 2010.10.26
 Time On Btm: 2010.10.26 @ 03:21:22
 Time Off Btm: 2010.10.26 @ 06:30:37



PRESSURE SUMMARY

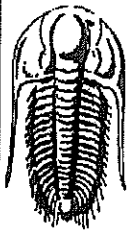
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.07	106.84	Initial Hydro-static
1	59.38	106.34	Open To Flow (1)
6	67.88	107.12	Shut-In(1)
66	1292.53	109.41	End Shut-In(1)
67	76.87	108.94	Open To Flow (2)
126	197.28	114.58	Shut-In(2)
188	1278.31	115.06	End Shut-In(2)
190	2053.01	115.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
244.00	water 100%w	1.20
62.00	m c w 25% m 75% w	0.87
72.00	w c m 45% w 55% m	1.01

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
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 039684 DST#: 3
Test Start: 2010.10.26 @ 00:36:07

Tool Information

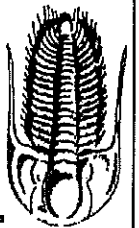
Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4145.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			4118.00	
Shut In Tool	5.00			4123.00	
Hydraulic tool	5.00			4128.00	
Jars	5.00			4133.00	
Safety Joint	3.00			4136.00	
Packer	5.00			4141.00	28.00 Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	6771	Outside	4146.00	
Recorder	0.00	8368	Inside	4146.00	
Perforations	24.00			4170.00	
Bullnose	5.00			4175.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



TRIBOLITE
TESTING, INC.

Russell Oil
Edmond, OK 73083
ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 039684
DST#: 3
Test Start: 2010.10.26 @ 00:36:07

DRILL STEM TEST REPORT

FLUID SUMMARY

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.56 in³
Resistivity: 0.00 ohm.m
Salinity: 5700.00 ppm
Filter Cake: 1.00 inches

Cushion Type: Oil API
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type: Gas Cushion Pressure: psig
Water Salinity: 28000 ppm

Recovery Information

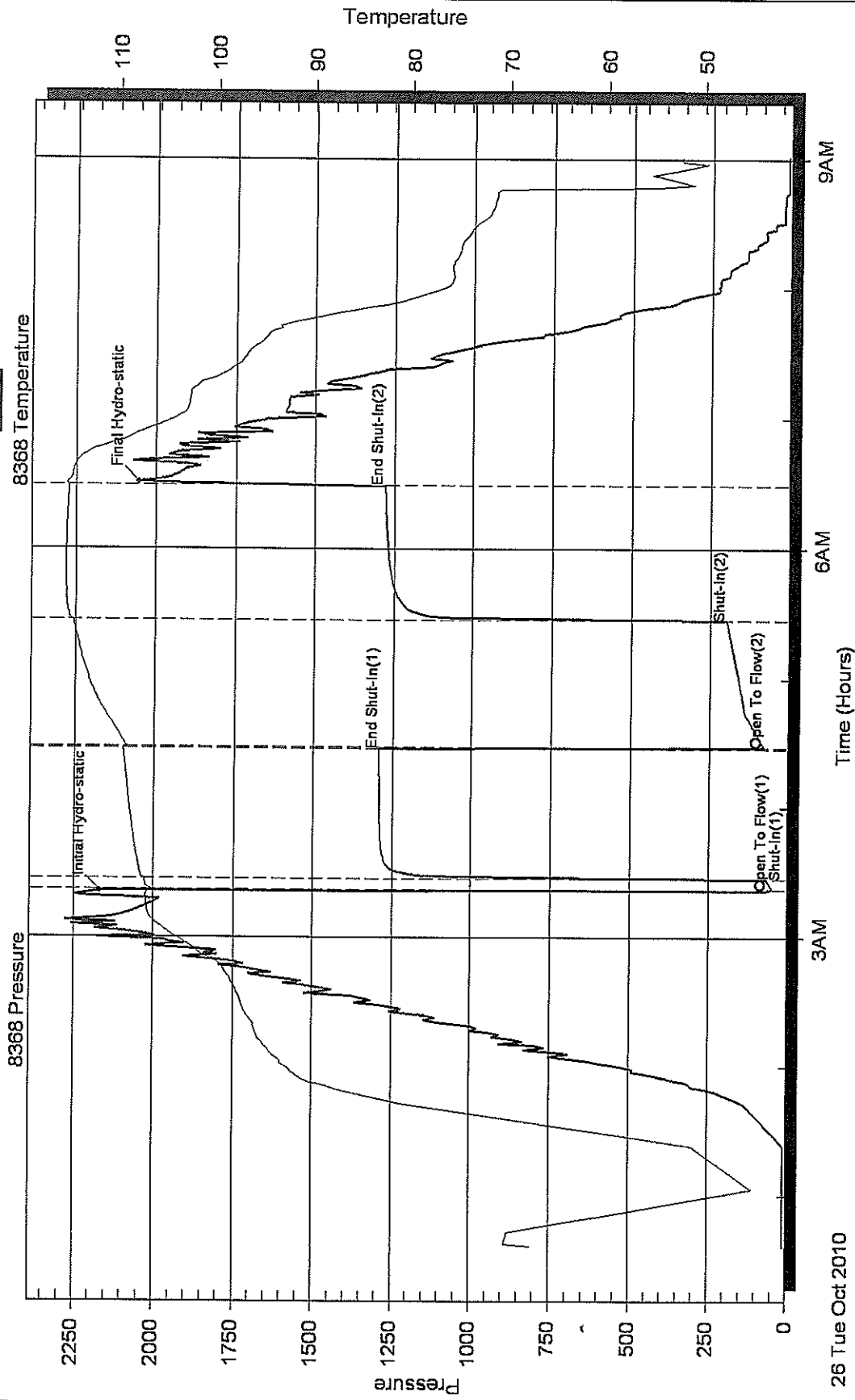
Recovery Table

Length ft	Description	Volume bbl
244.00	water 100%w	1.200
62.00	m c w 25%w 75%w	0.870
72.00	w c m 45%w 55%w	1.010

Total Length: 378.00 ft
Total Volume: 3.080 bbl

Num Fluid Samples: 0
Num Gas Bombs: 0
Serial #: _____
Laboratory Name: _____
Laboratory Location: _____
Recovery Comments: rw .397 @ 50°F = 28,000 chlor

Pressure vs. Time



26 Tue Oct 2010



DRILL STEM TEST REPORT

Prepared For: **Russell Oil**

PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

McDaniel D 1-24

Start Date: 2010.10.26 @ 18:01:01

End Date: 2010.10.27 @ 03:10:16

Job Ticket #: 039685 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil

McDaniel D 1-24

24-15-34 Logan, KS

DST # 4

K

2010.10.26

DRILL STEM TEST REPORT



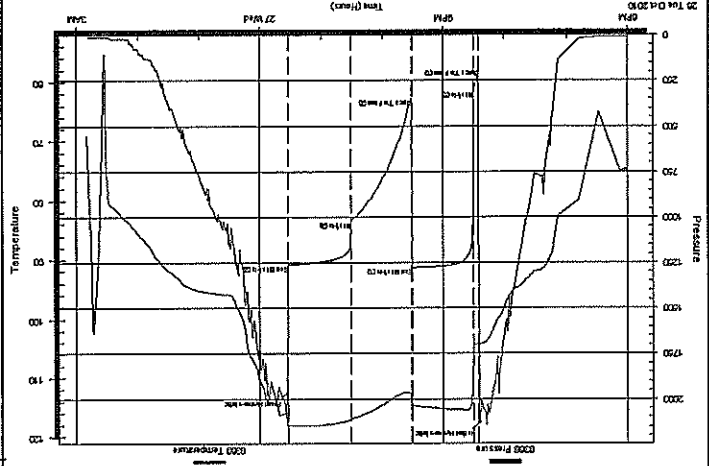
Russell Oil
 Edmond, OK 73083
 ATTN: Steve Angle
 Test Start: 2010.10.26 @ 18:01:01
 DST#:4
 Job Ticket: 039685
 24-16-34 Logan, KS
 McDaniel D 1-24

GENERAL INFORMATION:

Formation: K
 Devaliated: No
 Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2990.00 ft (KB)
 Interval: 4175.00 ft (KB) To 4216.00 ft (KB) (TVD)
 Total Depth: 4216.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 Serial #: 8368
 Inside
 Press@RunDepth: 1020.76 psig @ 4176.00 ft (KB)
 End Date: 2010.10.26
 End Time: 18:01:01
 Start Date: 2010.10.26
 Start Time: 02:50:16
 Capacity: 8000.00 psig
 Last Calib.: 2010.10.27
 Time On Btm: 2010.10.26 @ 20:24:46
 Time Off Btm: 2010.10.26 @ 23:33:16
 TEST COMMENT: B.O.B. in 1 1/2 min.
 No return
 B.O.B. in 3 min.
 No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2129.33	104.48	Initial Hydro-static
1	182.39	103.96	Open To Flow (1)
6	306.88	104.28	Shut-in(1)
66	1278.91	114.71	End Shut-in(1)
66	350.59	114.04	Open To Flow (2)
126	1020.76	116.92	Shut-in(2)
188	1260.50	117.93	End Shut-in(2)
189	1964.52	118.01	Final Hydro-static

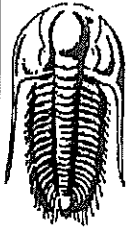


RECOVERY

Length (ft)	Description	Volume (bbl)
2046.00	Water 100%W	26.48
154.00	m c w 30%w 70%w	2.16

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil

McDaniel D 1-24

PO Box 8050
Edmond, OK 73083

24-15-34 Logan, KS

Job Ticket: 039685

DST#: 4

ATTN: Steve Angle

Test Start: 2010.10.26 @ 18:01:01

Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 56.29 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4175.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 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			4148.00	
Shut In Tool	5.00			4153.00	
Hydraulic tool	5.00			4158.00	
Jars	5.00			4163.00	
Safety Joint	3.00			4166.00	
Packer	5.00			4171.00	28.00 Bottom Of Top Packer
Packer	4.00			4175.00	
Stubb	1.00			4176.00	
Recorder	0.00	6771	Outside	4176.00	
Recorder	0.00	8368	Inside	4176.00	
Perforations	35.00			4211.00	
Bullnose	5.00			4216.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00

Recovery Information

Length ft	Description	Volume bbl
2046.00	w ater 100%w	26.477
154.00	m c w 30%w 70%w	2.160
Total Length: 2200.00 ft		
Total Volume: 28.637 bbl		

Num Fluid Samples: 0
 Num Gas Bombs: 0
 Laboratory Name:
 Laboratory Location:
 Recovery Comments: rw .238 @ 63*f=32,000 chlor

Recovery Table

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 53.00 sec/qt
 Water Loss: 8.73 in³
 Resistivity: 0.00 ohm.m
 Salinity: 5500.00 ppm
 Filter Cake: 1.00 inches

Cushion Type: Oil API
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type: psig
 Gas Cushion Pressure: 32000 ppm



TRIOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil
 PO Box 8050
 Edmond, OK 73083
 ATTN: Steve Angle
 Test Start: 2010.10.26 @ 18:01:01

McDaniel D 1-24
 24-15-34 Logan, KS
 Job Ticket: 039685
 DST#: 4

Serial #: 8368

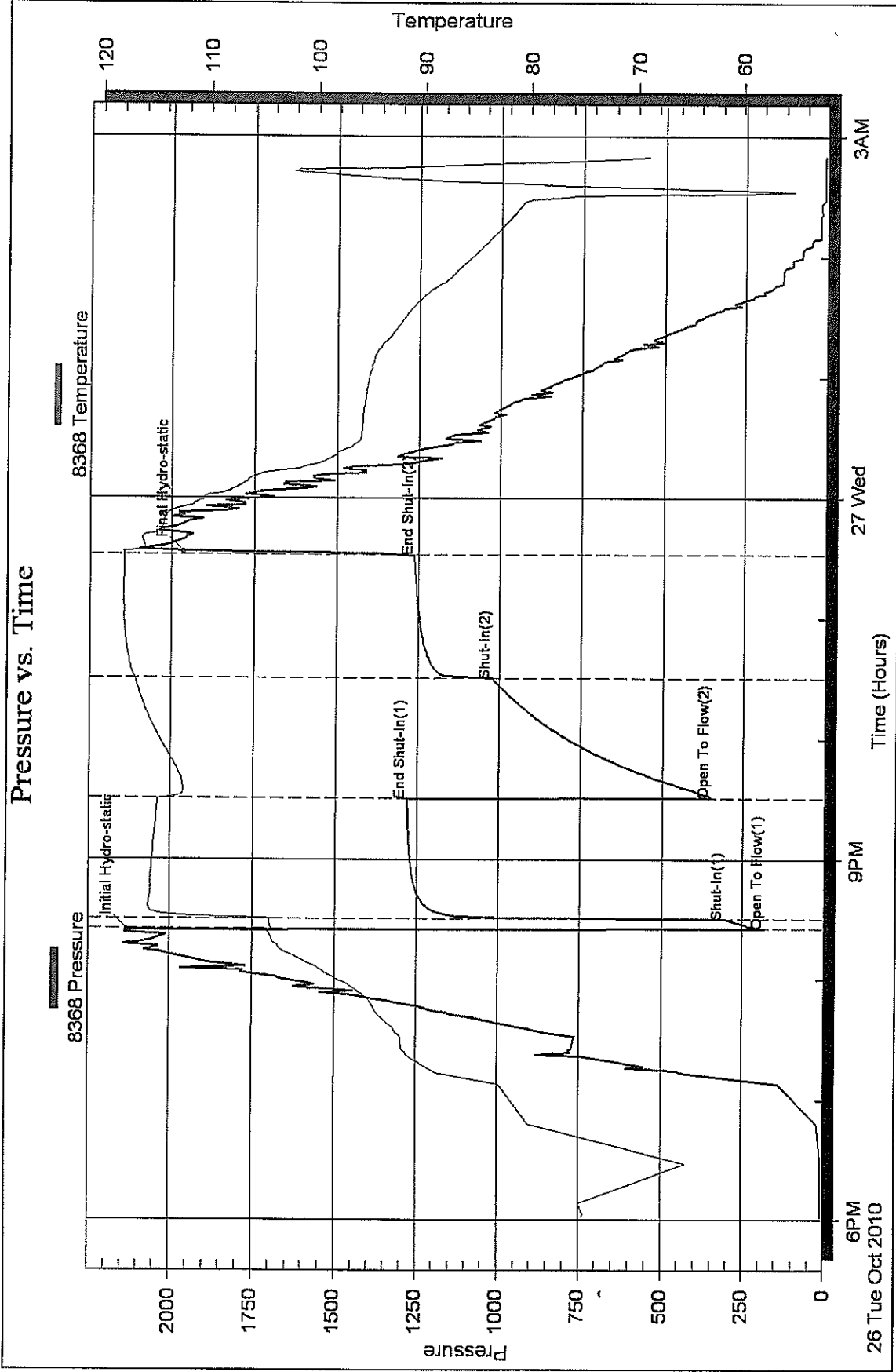
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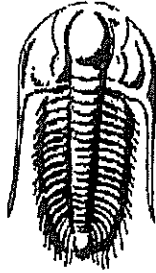
Russell Oil

24-15-34 Logan, KS

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Russell Oil**
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

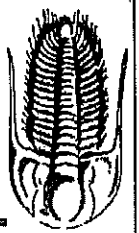
McDaniel D 1-24

Start Date: 2010.10.27 @ 13:35:41

End Date: 2010.10.27 @ 22:35:56

Job Ticket #: 039686 DST #: 5

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



TRILOBITE TESTING, INC.

Russell Oil
 PO Box 8050
 Edmond, OK 73083
 ATTN: Steve Angle

McDaniel D 1-24
 24-15-34 Logan, KS
 Job Ticket: 039686
 DST#: 5
 Test Start: 2010.10.27 @ 13:35:41

DRILL STEM TEST REPORT

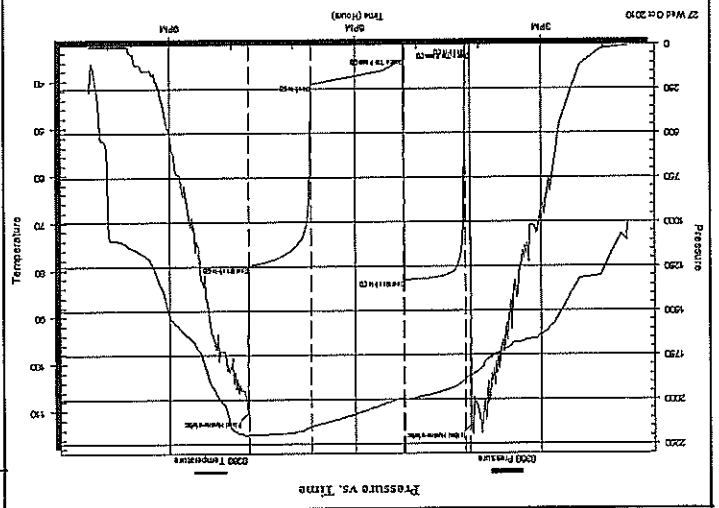
GENERAL INFORMATION:

Formation: L
 Deviated: No
 Whipstock: ft (KB)
 Time Tool Opened: 16:07:41
 Time Test Ended: 22:35:56
 Interval: 4216.00 ft (KB) To 4271.00 ft (KB) (TVD)
 Total Depth: 4271.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair
 Reference Elevations: 2990.00 ft (KB)
 2980.00 ft (CF)
 10.00 ft
 KB to GR/CF:

TEST COMMENT:

2" in blow
 No return
 10 1/2" in blow
 No return

Serial #: 8368
 Inside
 Press@RunDepth: 222.46 psig @ 4217.00 ft (KB)
 Start Date: 2010.10.27
 End Date: 2010.10.27
 Start Time: 13:35:41
 End Time: 22:19:56
 Capacity: 8000.00 psig
 Last Call: 2010.10.27
 Time On Btm: 2010.10.27 @ 16:07:26
 Time Off Btm: 2010.10.27 @ 19:44:26



Length (ft)	Description	Volume (bbl)
244.00	Water 100%w	1.20
62.00	M C W 25%w 75%w	0.87
107.00	W C M 50%w 50%w	1.50

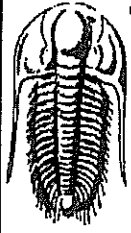
Recovery

Gas Rates

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

Annotation	Temp (deg F)	Pressure (psig)	Time (Min.)
Initial Hydro-static	102.57	2142.27	0
Open To Flow (1)	101.87	42.01	1
Shut-In (1)	103.09	67.53	6
Open To Flow (2)	107.62	1323.57	65
Shut-In (2)	107.21	75.09	65
End Shut-In (2)	113.22	222.46	156
End Shut-In (1)	114.92	1243.46	216
Final Hydro-static	115.12	2073.10	217

PRESSURE SUMMARY



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 039686 DST#: 5
Test Start: 2010.10.27 @ 13:35:41

Tool Information

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4216.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
Jars	5.00			4204.00	
Safety Joint	3.00			4207.00	
Packer	5.00			4212.00	28.00 Bottom Of Top Packer
Packer	4.00			4216.00	
Stubb	1.00			4217.00	
Recorder	0.00	6771	Outside	4217.00	
Recorder	0.00	8368	Inside	4217.00	
Perforations	16.00			4233.00	
Change Over Sub	1.00			4234.00	
Drill Pipe	31.00			4265.00	
Change Over Sub	1.00			4266.00	
Bullnose	5.00			4271.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00

Recovery Information

Length ft	Description	Volume bbl
244.00	water 100%w	1,200
62.00	m c w 25%w 75%w	0.870
107.00	w c m 50%w 50%w	1,501
Total Length: 413.00 ft		Total Volume: 3,571 bbl
Num Fluid Samples: 0		Num Gas Bombs: 0
Laboratory Name:		Laboratory Location:
Recovery Comments: rw .364 @ 55"= 23,000 chlor		Serial #:

Recovery Table

Mud and Cushion Information

Mud Type:	Gal Chem
Mud Weight:	9.00 lb/gal
Viscosity:	52.00 sec/qt
Water Loss:	9.12 in ³
Resistivity:	0.00 ohm.m
Salinity:	5900.00 ppm
Filter Cake:	1.00 inches
Cushion Type:	Oil API
Cushion Length:	ft
Cushion Volume:	bbl
Gas Cushion Type:	psig
Gas Cushion Pressure:	
Oil API:	0 deg API
Water Salinity:	23000 ppm

DRILL STEM TEST REPORT

FLUID SUMMARY



Russell Oil
 PO Box 8050
 Edmond, OK 73083
 Job Ticket: 039686
 DST#:5
 Mcdaniel D 1-24
 24-15-34 Logan, KS
 ATTN: Steve Angle
 Test Start: 2010.10.27 @ 13:35:41

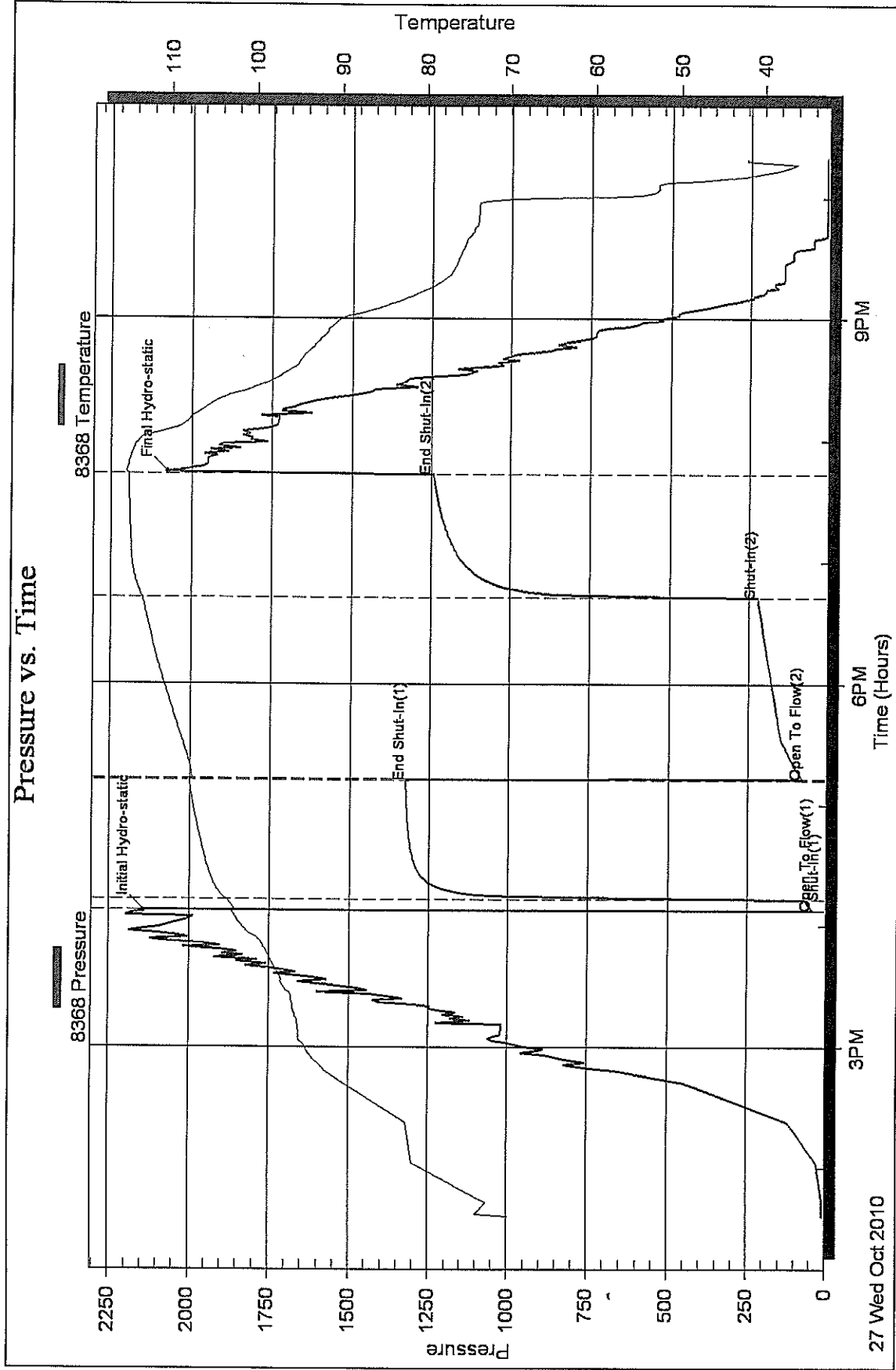
Serial #: 8368

Inside Russell Oil

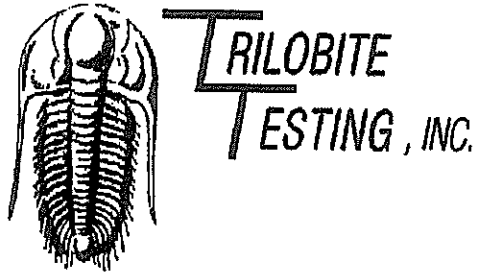
24-15-34 Logan, KS

DST Test Number: 5

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Russell Oil**
PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

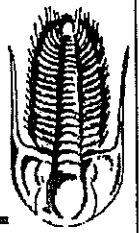
McDaniel D 1-24

Start Date: 2010.10.28 @ 12:31:08

End Date: 2010.10.28 @ 21:37:08

Job Ticket #: 039687 DST #: 6

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



TRIBBLE TESTING, INC.

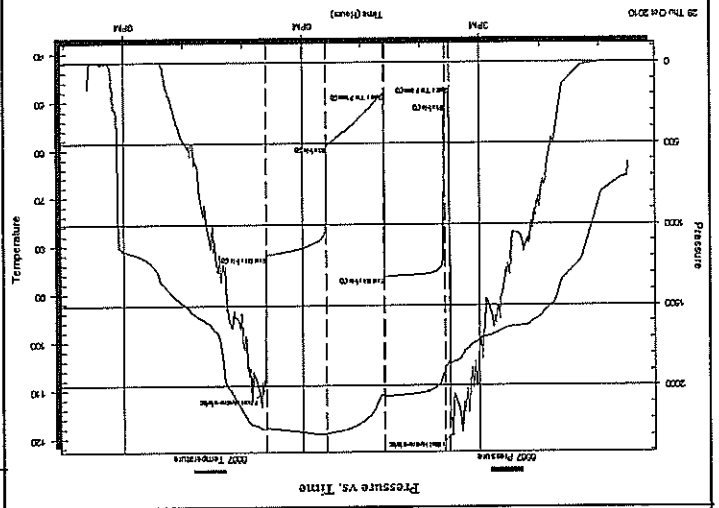
DRILL STEM TEST REPORT

Russell Oil
 Edmond, OK 73083
 24-15-34 Logan, KS
 Job Ticket: 039687 DST#:6
 ATTN: Steve Angle
 Test Start: 2010.10.28 @ 12:31:08

GENERAL INFORMATION:
 Formation: Marmaton
 Deviated: No Whipstock:
 Time Tool Opened: 15:30:23
 Time Test Ended: 21:37:08
 Interval: 4264.00 ft (KB) To 4379.00 ft (KB) (TVD)
 Total Depth: 4379.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2990.00 ft (KB) to 10.00 ft
 Capacity: 8000.00 psig
 Last Call: 2010.10.28 @ 15:27:23
 Time On Btm: 2010.10.28 @ 18:39:23

Serial #: 6667
 Inside
 Press@RunDepth: 514.63 psig @ 4265.00 ft (KB)
 Start Date: 2010.10.28
 End Date: 2010.10.28
 End Time: 21:37:08
 Start Time: 12:31:08
 TEST COMMENT: 11" in. blow
 No return
 B.O.B. in 8 1/2 min.
 No return



PRESSURE SUMMARY

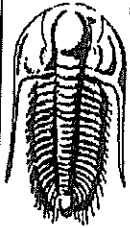
Annotation	Time (Min.)	Pressure (psig)	Temp (deg F)
Initial Hydro-static	0	2296.94	104.22
Open To Flow (1)	3	148.79	103.99
Shut-In (1)	8	256.37	106.02
Open To Flow (2)	69	1323.55	111.20
Shut-In (2)	70	193.23	110.95
End Shut-In (2)	128	514.63	118.79
Final Hydro-static	190	1191.57	117.90

Recovery

Length (ft)	Description	Volume (bbt)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil

McDaniel D 1-24

PO Box 8050
Edmond, OK 73083

24-15-34 Logan, KS

Job Ticket: 039687

DST#: 6

ATTN: Steve Angle

Test Start: 2010.10.28 @ 12:31:08

Tool Information

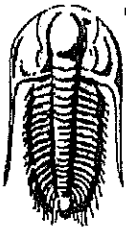
Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4264.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	143.00 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			4237.00	
Shut In Tool	5.00			4242.00	
Hydraulic tool	5.00			4247.00	
Jars	5.00			4252.00	
Safety Joint	3.00			4255.00	
Packer	5.00			4260.00	28.00 Bottom Of Top Packer
Packer	4.00			4264.00	
Stubb	1.00			4265.00	
Recorder	0.00	6771	Outside	4265.00	
Recorder	0.00	6667	Inside	4265.00	
Perforations	13.00			4278.00	
Change Over Sub	1.00			4279.00	
Drill Pipe	94.00			4373.00	
Change Over Sub	1.00			4374.00	
Bullnose	5.00			4379.00	115.00 Bottom Packers & Anchor

Total Tool Length: 143.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil
PO Box 8050
Edmond, OK 73083
ATTN: Steve Angle

McDaniel D 1-24
24-15-34 Logan, KS
Job Ticket: 039687 DST#: 6
Test Start: 2010.10.28 @ 12:31:08

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: 9.55 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

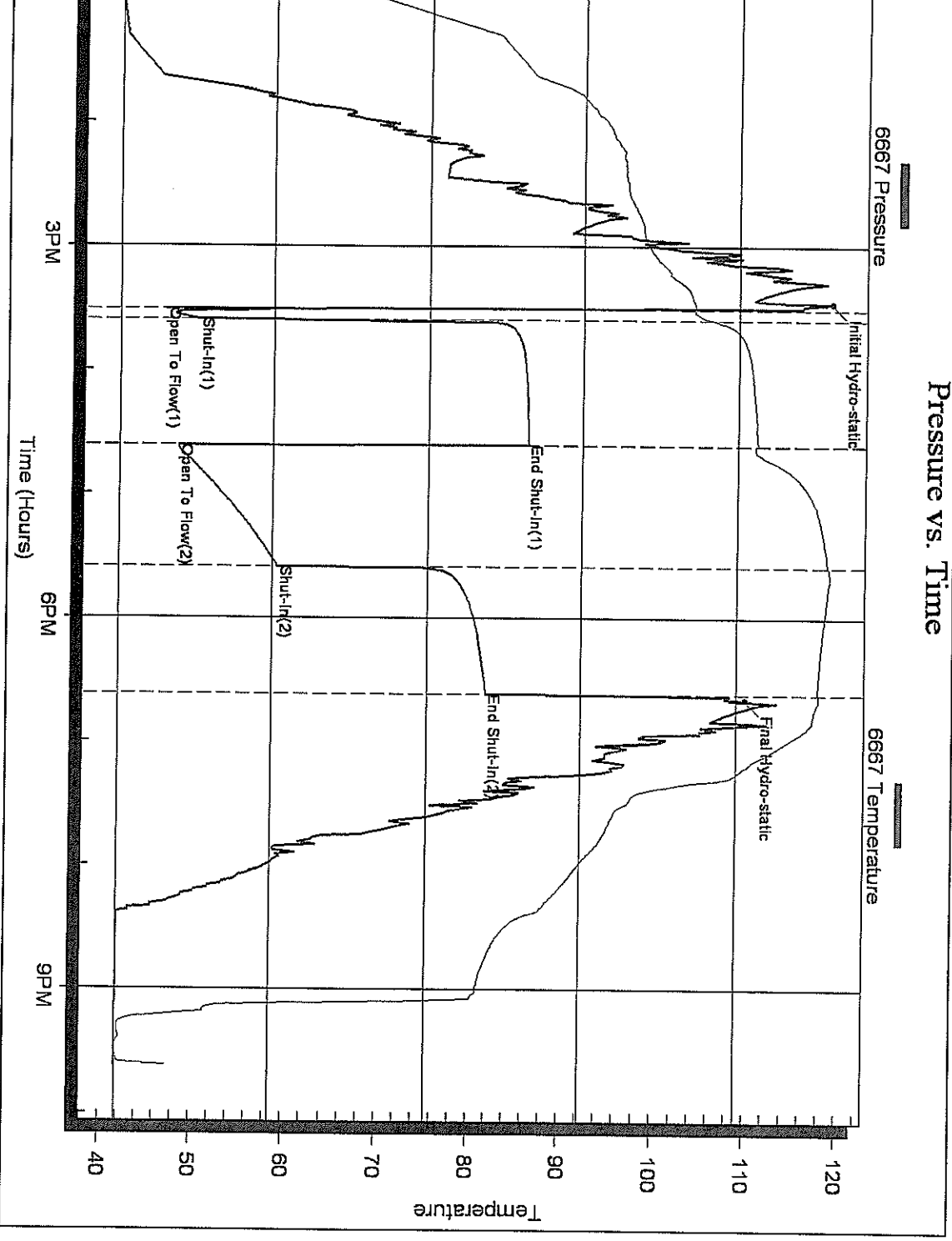
Recovery Information

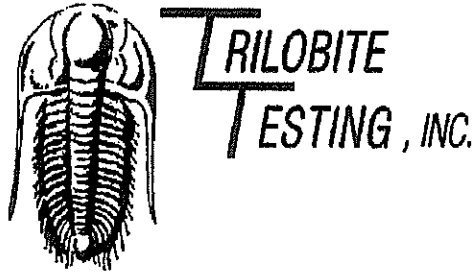
Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: 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**

PO Box 8050
Edmond, OK 73083

ATTN: Steve Angle

24-15-34 Logan, KS

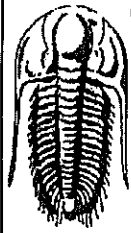
McDaniel D 1-24

Start Date: 2010.10.29 @ 18:56:03

End Date: 2010.10.30 @ 02:55:03

Job Ticket #: 039688 DST #: 7

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil

McDaniel D 1-24

PO Box 8050
Edmond, OK 73083

24-15-34 Logan, KS

Job Ticket: 039688

DST#: 7

ATTN: Steve Angle

Test Start: 2010.10.29 @ 18:56:03

Tool Information

Drill Pipe:	Length: 4206.00 ft	Diameter: 3.80 inches	Volume: 59.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4458.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			4431.00	
Shut In Tool	5.00			4436.00	
Hydraulic tool	5.00			4441.00	
Jars	5.00			4446.00	
Safety Joint	3.00			4449.00	
Packer	5.00			4454.00	28.00 Bottom Of Top Packer
Packer	4.00			4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6771	Outside	4459.00	
Recorder	0.00	6667	Inside	4459.00	
Perforations	21.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Collar	63.00			4544.00	
Change Over Sub	1.00			4545.00	
Bullnose	5.00			4550.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00

Serial #: 6667

Inside

Russell Oil

24-15-34 Logan, KS

DST Test Number: 7

Pressure vs. Time

