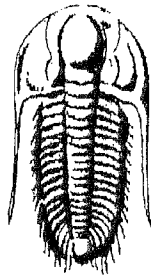


21-15s-14w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

510 W 36th St
Hays KS 67601

ATTN: Ken Norton

21 15 14 Russell KS

Bender # 2

Start Date: 2007.10.15 @ 17:04:53

End Date: 2007.10.15 @ 22:36:08

Job Ticket #: 30606 DST #: 1

15-167-23461

NE NE SE

2310 FSL 330 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

K & B Norton Oil

Bender # 2

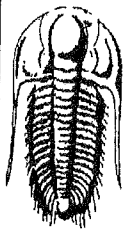
21 15 14 Russell KS

DST # 1

J-K

LK

2007.10.15



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil

510 W 38th St
Hays KS 67601

ATTN: Ken Norton

Bender # 2

21 15 14 Russell KS

Job Ticket: 30606

DST#: 1

Test Start: 2007.10.15 @ 17:04:53

GENERAL INFORMATION:

Formation: **J-K LK**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:06:13
Time Test Ended: 22:36:08

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3250.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 6741

Inside

Press@RunDepth: 40.90 psig @ 3255.00 ft (KB)

Start Date: 2007.10.15

End Date:

2007.10.15

Capacity: 7000.00 psig

Last Calib.: 2007.10.15

Start Time: 17:04:55

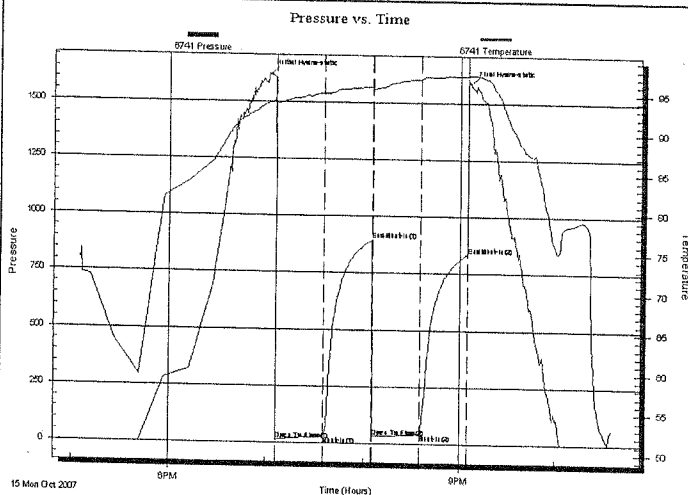
End Time:

22:36:08

Time On Btm: 2007.10.15 @ 19:02:53

Time Off Btm: 2007.10.15 @ 21:06:23

TEST COMMENT: IF Weak died in 5 min
FF No blow



PRESSURE SUMMARY

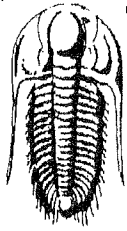
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.69	93.87	Initial Hydro-static
4	13.14	93.69	Open To Flow(1)
33	29.50	94.93	Shut-In(1)
62	894.61	95.82	End Shut-In(1)
63	30.92	95.61	Open To Flow(2)
92	40.90	96.80	Shut-In(2)
122	832.38	97.26	End Shut-In(2)
124	1585.51	97.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	DM	0.84

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

Bender # 2

510 W 36th St
Hays KS 67601

21 15 14 Russell KS

Job Ticket: 30606

DST#: 1

ATTN: Ken Norton

Test Start: 2007.10.15 @ 17:04:53

Tool Information

Drill Pipe: Length: 3239.00 ft Diameter: 3.80 inches Volume: 45.43 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 45.43 bbl

Tool Weight: 2000.00 lb

Weight set on Packer: 20000.00 lb

Weight to Pull Loose: 45000.00 lb

Tool Chased 0.00 ft

String Weight: Initial 39000.00 lb

Final 39000.00 lb

Drill Pipe Above KB: 10.00 ft

Depth to Top Packer: 3250.00 ft

Depth to Bottom Packer: ft

Interval between Packers: 60.00 ft

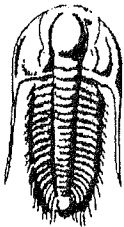
Tool Length: 81.00 ft

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			3230.00	
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Packer	5.00			3245.00	21.00 Bottom Of Top Packer
Packer	5.00			3250.00	
Stubb	1.00			3251.00	
Perforations	3.00			3254.00	
Change Over Sub	1.00			3255.00	
Recorder	0.00	6741	Inside	3255.00	
Drill Pipe	31.00			3286.00	
Change Over Sub	1.00			3287.00	
Recorder	0.00	13254	Outside	3287.00	
Perforations	20.00			3307.00	
Bullnose	3.00			3310.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

Bender # 2

510 W 36th St
Hays KS 67601

21 15 14 Russell KS

Job Ticket: 30606

DST#: 1

ATTN: Ken Norton

Test Start: 2007.10.15 @ 17:04:53

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	DM	0.842

Total Length: 60.00 ft

Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

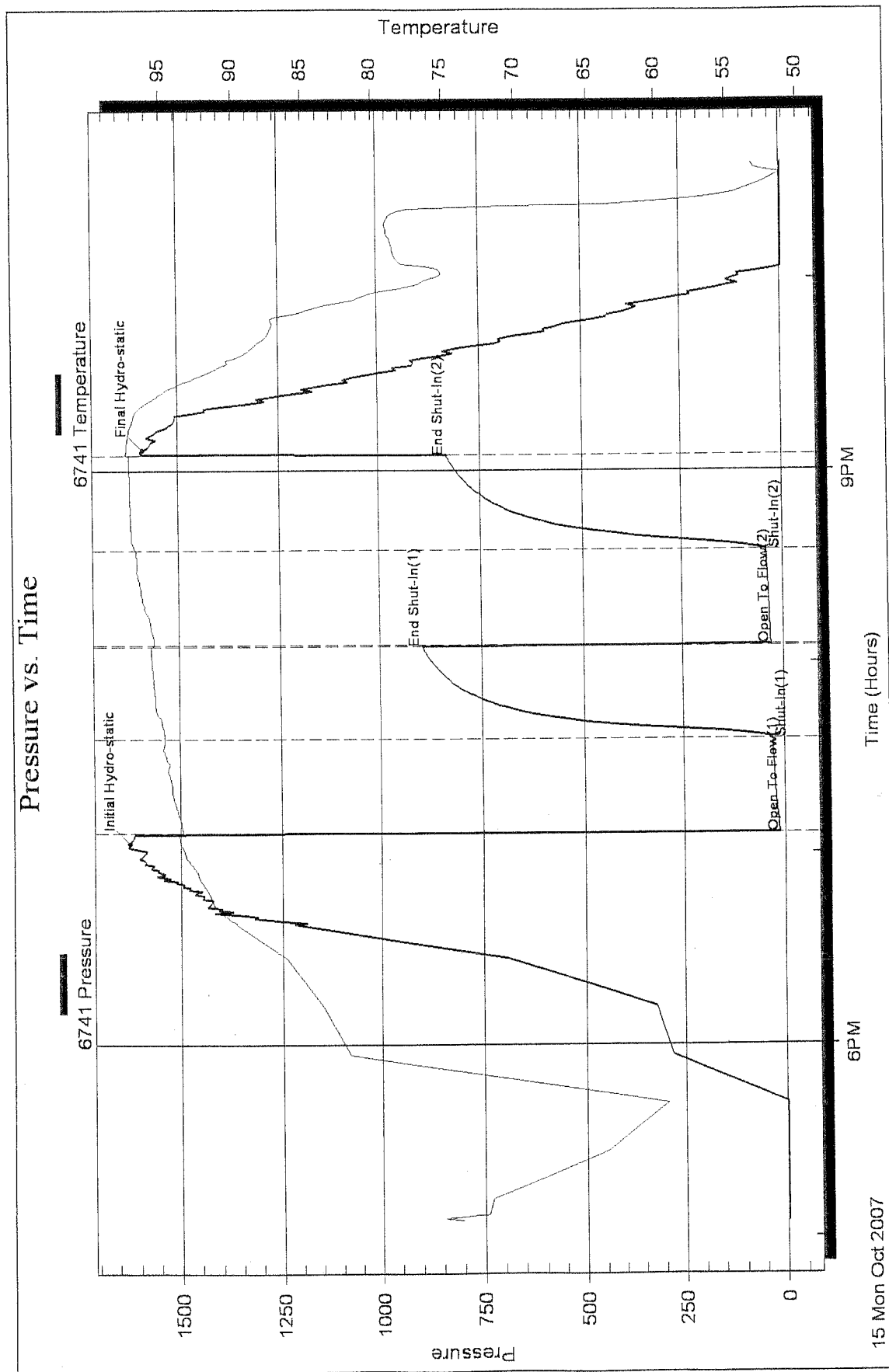
Serial #:

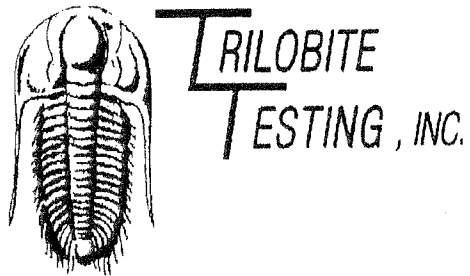
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **K & B Norton Oil**

510 W 36th St
Hays KS 67601

ATTN: Ken Norton

21 15 14 Russell KS

Bender # 2

Start Date: 2007.10.16 @ 08:14:45

End Date: 2007.10.16 @ 14:13:45

Job Ticket #: 30607 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

K & B Norton Oil

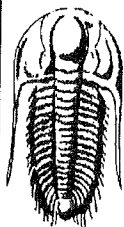
Bender # 2

21 15 14 Russell KS

DST # 2

Arbuckle

2007.10.16



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K & B Norton Oil

510 W 36th St
Hays KS 67601

ATTN: Ken Norton

Bender # 2

21 15 14 Russell KS

Job Ticket: 30607

DST#: 2

Test Start: 2007.10.16 @ 08:14:45

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:42:55

Time Test Ended: 14:13:45

Interval: **3320.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Total Depth: 3355.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 6741

Inside

Press@RunDepth: 705.82 psig @ 3321.00 ft (KB)

Start Date: 2007.10.16

End Date:

2007.10.16

Capacity: 7000.00 psig

Last Calib.: 2007.10.16

Start Time: 08:14:47

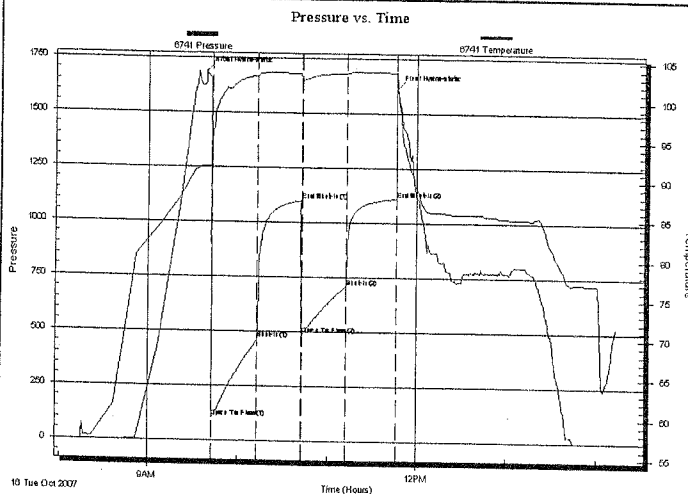
End Time:

14:13:45

Time On Btm: 2007.10.16 @ 09:39:05

Time Off Btm: 2007.10.16 @ 11:47:00

TEST COMMENT: IF Strong B-B in 1 min
ISI Weak building to 1 " died 20 min into SI
FF Strong B-B in 1 min
FSI Weak building to 1/2 " died in 25 min



PRESSURE SUMMARY

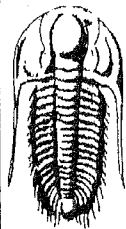
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.06	91.70	Initial Hydro-static
4	104.04	94.79	Open To Flow (1)
34	462.90	103.17	Shut-In (1)
63	1098.88	103.42	End Shut-In (1)
64	487.34	102.63	Open To Flow (2)
93	705.82	103.49	Shut-In (2)
127	1108.71	103.60	End Shut-In (2)
128	1614.66	102.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW	1.74
1491.00	CGO 20%G 80%O	20.91

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil

Bender # 2

510 W 36th St
Hays KS 67601

21 15 14 Russell KS

Job Ticket: 30607

DST#: 2

ATTN: Ken Norton

Test Start: 2007.10.16 @ 08:14:45

Tool Information

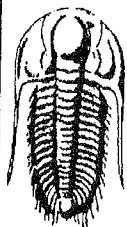
Drill Pipe: Length: 3304.00 ft Diameter: 3.80 inches Volume: 46.35 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 46.35 bbl

Tool Weight: 2000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 60000.00 lb
Tool Chased 0.00 ft
String Weight: Initial 39000.00 lb
Final 45000.00 lb

Drill Pipe Above KB: 5.00 ft
Depth to Top Packer: 3320.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 35.00 ft
Tool Length: 56.00 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			3300.00	
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Packer	5.00			3315.00	21.00 Bottom Of Top Packer
Packer	5.00			3320.00	
Stubb	1.00			3321.00	
Recorder	0.00	6741	Inside	3321.00	
Perforations	31.00			3352.00	
Recorder	0.00	13254	Outside	3352.00	
Bullnose	3.00			3355.00	35.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K & B Norton Oil

Bender # 2

510 W 36th St
Hays KS 67601

21 15 14 Russell KS

Job Ticket: 30607

DST#: 2

ATTN: Ken Norton

Test Start: 2007.10.16 @ 08:14:45

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.00 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

40 deg API

78 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MW	1.739
1491.00	CGO 20%G 80%O	20.915

Total Length: 1615.00 ft

Total Volume: 22.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .15 @ 80 = 78000ppm

Pressure vs. Time

