

15-12s-32w

IND

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

15 12 32 Logan KS

Younkin #1

Start Date: 2009.04.28 @ 22:30:00

End Date: 2009.04.29 @ 04:12:45

Job Ticket #: 31066

DST #: 1

15-109-20835-0000

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

K&B Norton Oil Investments LLC

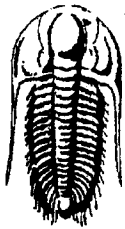
Younkin #1

15 12 32 Logan KS

DST # 1

LKC "C"

2009.04.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31066

DST#: 1

ATTN: Steve Murphy

Test Start: 2009.04.28 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:59:15

Time Test Ended: 04:12:45

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **4020.00 ft (KB) To 4045.00 ft (KB) (TVD)**

Total Depth: 4045.00 ft (KB) (TVD)

Reference Elevations: 2969.00 ft (KB)

2961.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6751

Inside

Press@RunDepth: 104.26 psig @ 4021.00 ft (KB)

Start Date: 2009.04.28

End Date:

2009.04.29

Capacity: 7000.00 psig

Last Calib.: 2009.04.29

Start Time: 22:30:01

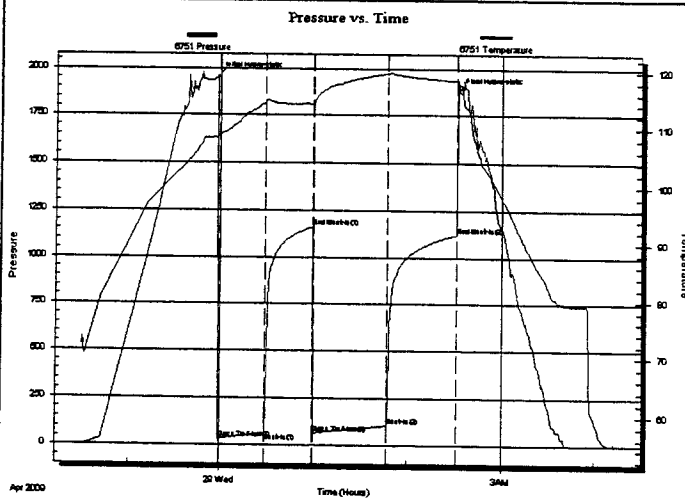
End Time:

04:12:45

Time On Btm: 2009.04.28 @ 23:58:30

Time Off Btm: 2009.04.29 @ 02:32:15

TEST COMMENT: IF- Weak building blow 7" into bucket.
IS- No blow back.
FF- Weak building blow 4.5" into bucket.
FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.36	108.44	Initial Hydro-static
1	33.60	108.63	Open To Flow (1)
31	62.57	114.57	Shut-In (1)
62	1161.02	114.28	End Shut-In (1)
63	64.64	114.21	Open To Flow (2)
109	104.26	119.61	Shut-In (2)
153	1119.44	118.34	End Shut-In (2)
154	1880.36	118.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	5% water 95% mud	1.74
62.00	5% mud 95% water	0.87

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31066

DST#: 1

ATTN: Steve Murphy

Test Start: 2009.04.28 @ 22:30:00

Tool Information

Drill Pipe:	Length: 4002.00 ft	Diameter: 3.80 inches	Volume: 56.14 bbl	Tool Weight: 1800.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	56.14 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	4020.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00			4002.00	
Jars	5.00			4007.00	
Safety Joint	3.00			4010.00	
Packer	5.00			4015.00	28.00 Bottom Of Top Packer
Packer	5.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	6751	Inside	4021.00	
Recorder	0.00	8355	Inside	4021.00	
Perforations	20.00			4041.00	
Bullnose	4.00			4045.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31066

DST#: 1

ATTN: Steve Murphy

Test Start: 2009.04.28 @ 22:30:00

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:

2500 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	5% water 95% mud	1.739
62.00	5% mud 95% water	0.870

Total Length: 186.00 ft

Total Volume: 2.609 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

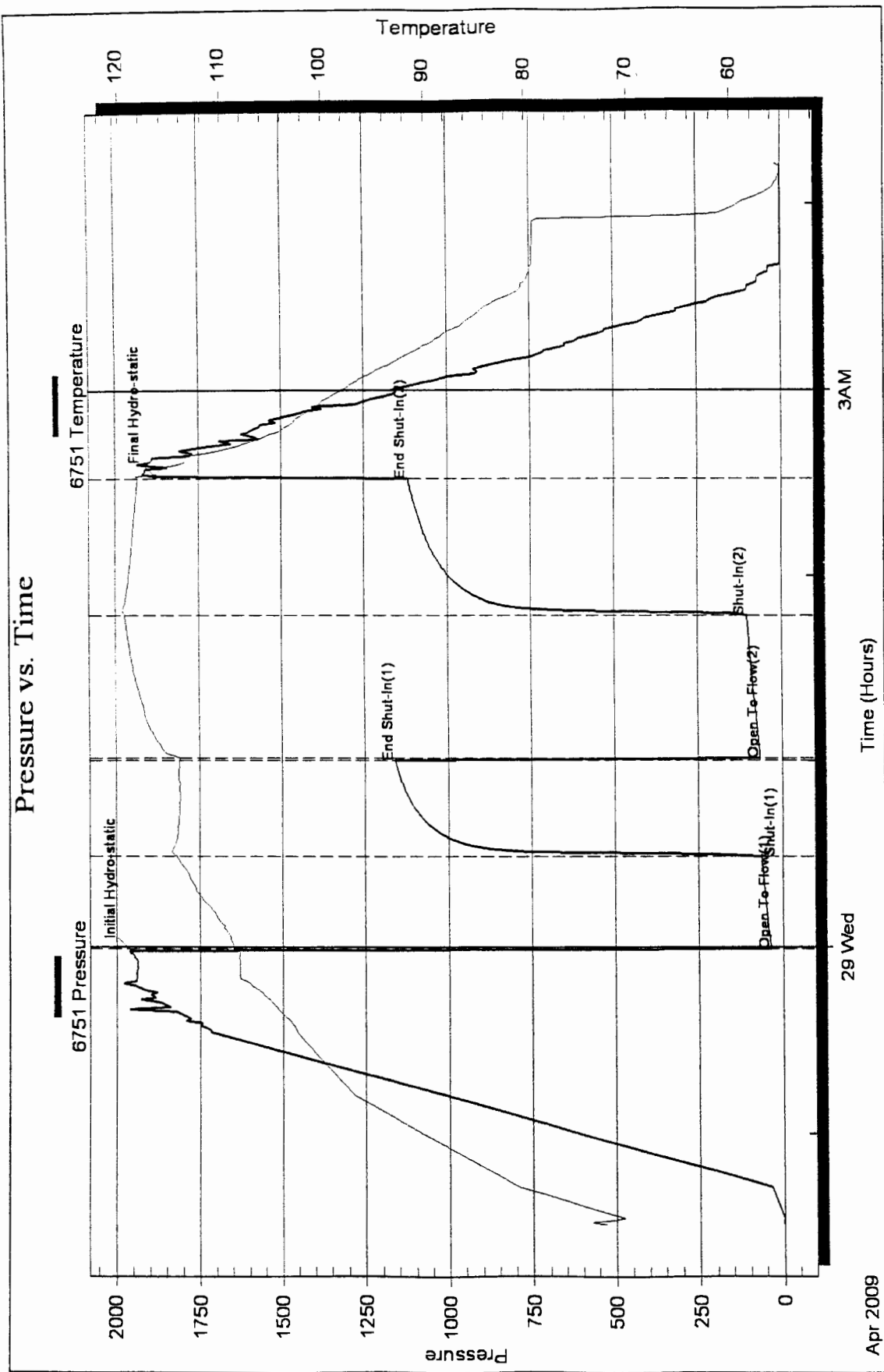
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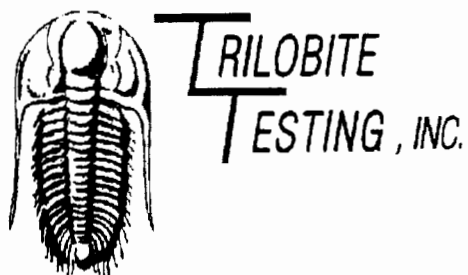
Laboratory Name:

Laboratory Location:

Recovery Comments: RW 2.4 @ 70F = 2500 ppm chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

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

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

15 12 32 Logan KS

Younkin #1

Start Date: 2009.04.29 @ 11:30:00

End Date: 2009.04.29 @ 17:14:15

Job Ticket #: 31067 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

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31067

DST#: 2

ATTN: Steve Murphy

Test Start: 2009.04.29 @ 11:30:00

GENERAL INFORMATION:

Formation: LKC "E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:52:30

Time Test Ended: 17:14:15

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: 4066.00 ft (KB) To 4080.00 ft (KB) (TVD)

Total Depth: 4080.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2969.00 ft (KB)

2961.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6751 Inside

Press@RunDepth: 118.01 psig @ 4067.00 ft (KB)

Start Date: 2009.04.29

End Date:

2009.04.29

Capacity: 7000.00 psig

Last Calib.: 2009.04.29

Start Time: 11:30:01

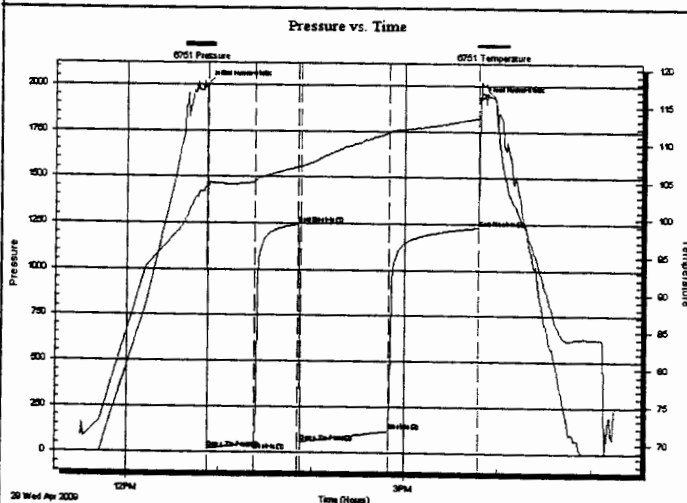
End Time:

17:14:15

Time On Btm: 2009.04.29 @ 12:51:45

Time Off Btm: 2009.04.29 @ 15:48:45

TEST COMMENT: IF- Weak building blow, 6" in bucket.
IS- No blow back.
FF- Weak building blow, 10" in bucket.
FS- No blow back.



PRESSURE SUMMARY

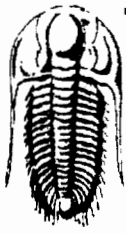
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.88	104.20	Initial Hydro-static
1	19.28	103.96	Open To Flow (1)
32	52.61	104.90	Shut-In (1)
60	1245.06	106.85	End Shut-In (1)
61	55.47	106.91	Open To Flow (2)
119	118.01	111.42	Shut-In (2)
177	1229.38	113.45	End Shut-In (2)
177	1924.30	113.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	100% water trace of oil & mud	3.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31067

DST#: 2

ATTN: Steve Murphy

Test Start: 2009.04.29 @ 11:30:00

Tool Information

Drill Pipe:	Length: 4068.00 ft	Diameter: 3.80 inches	Volume: 57.06 bbl	Tool Weight:	1800.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	57.06 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4066.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4043.00	
Hydraulic tool	5.00			4048.00	
Jars	5.00			4053.00	
Safety Joint	3.00			4056.00	
Packer	5.00			4061.00	28.00 Bottom Of Top Packer
Packer	5.00			4066.00	
Stubb	1.00			4067.00	
Recorder	0.00	6751	Inside	4067.00	
Recorder	0.00	8355	Inside	4067.00	
Perforations	9.00			4076.00	
Bullnose	4.00			4080.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31067

DST#: 2

ATTN: Steve Murphy

Test Start: 2009.04.29 @ 11:30:00

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:

2300 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.36 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
215.00	100% water trace of oil & mud	3.016

Total Length: 215.00 ft

Total Volume: 3.016 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

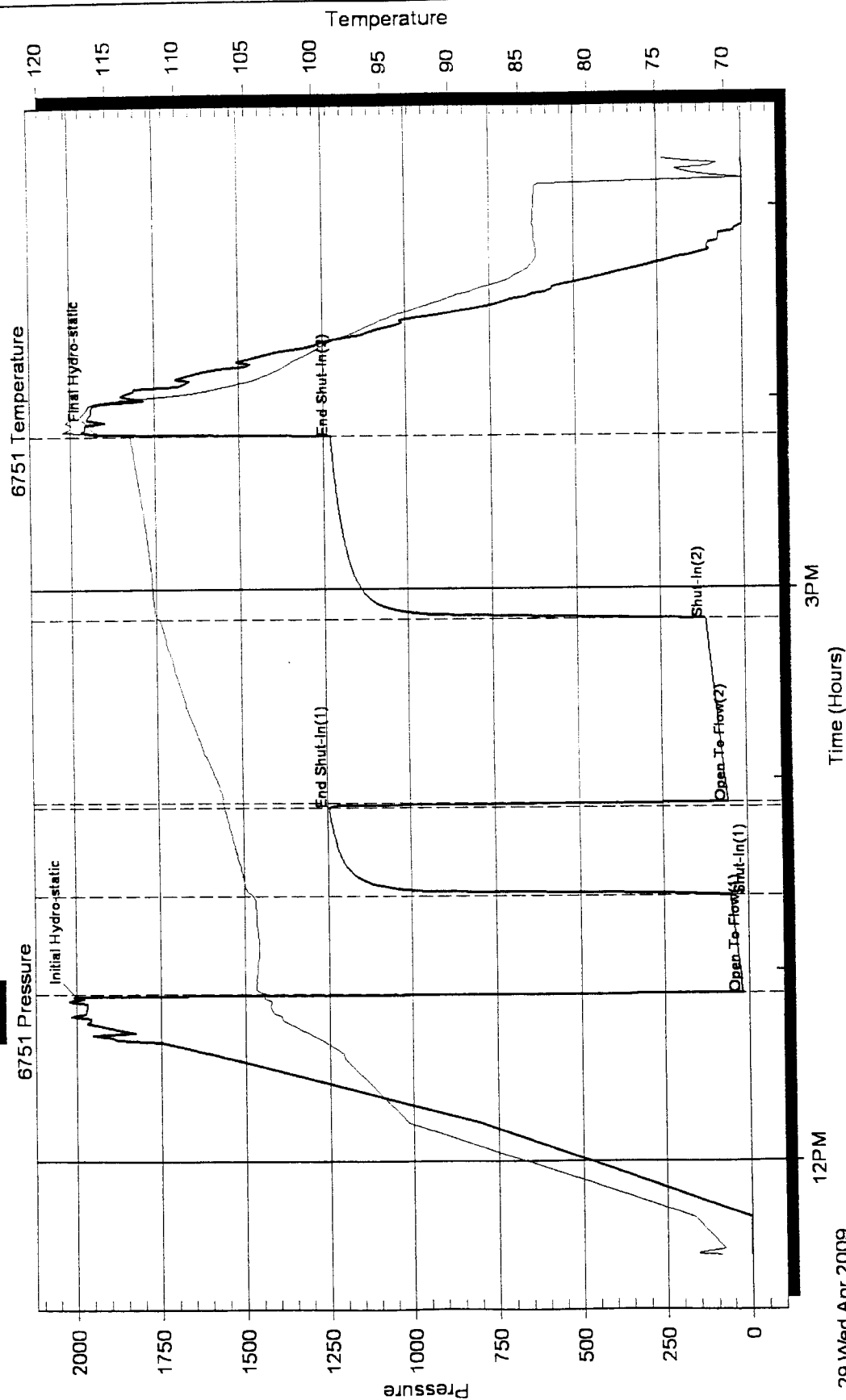
Serial #:

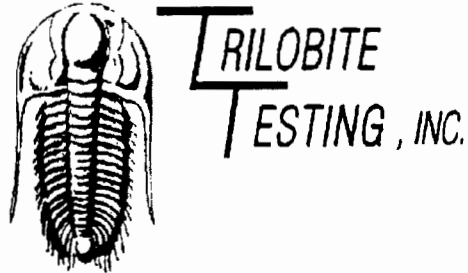
Laboratory Name:

Laboratory Location:

Recovery Comments: RW 2.6 @ 70F = 2300ppm chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

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

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

15 12 32 Logan KS

Younkin #1

Start Date: 2009.04.30 @ 08:15:00

End Date: 2009.04.30 @ 14:14:00

Job Ticket #: 31068 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

ATTN: Steve Murphy

Job Ticket: 31068

DST#: 3

Test Start: 2009.04.30 @ 08:15:00

GENERAL INFORMATION:

Formation: **LKC. H&I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:03:00

Time Test Ended: 14:14:00

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **4150.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2969.00 ft (KB)

2961.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 6751

Inside

Press@RunDepth: 148.72 psig @ 4151.00 ft (KB)

Start Date: 2009.04.30

End Date:

2009.04.30

Start Time: 08:15:01

End Time:

14:14:00

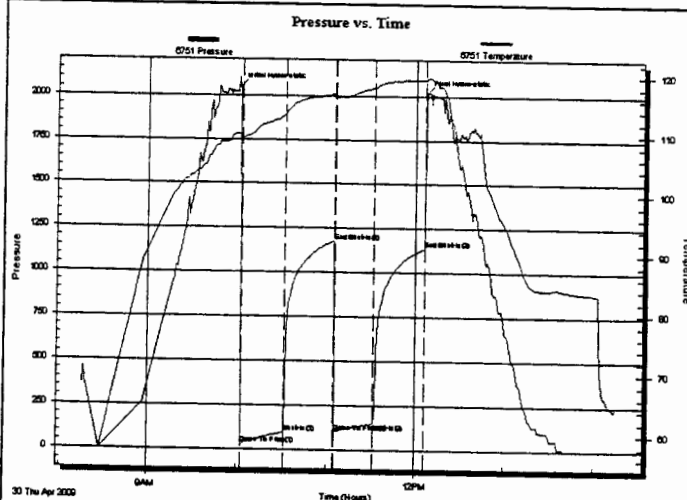
Capacity: 7000.00 psig

Last Calib.: 2009.04.30

Time On Btm: 2009.04.30 @ 10:01:30

Time Off Btm: 2009.04.30 @ 12:06:45

TEST COMMENT: IF- Good building blow, BOB 17min.
ISI- No blow back.
FF- Weak building blow, 5" in the bucket.
FS- No blow back.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.49	110.21	Initial Hydro-static
2	26.92	109.43	Open To Flow (1)
30	97.23	113.46	Shut-In (1)
63	1177.26	116.93	End Shut-In (1)
64	101.70	116.59	Open To Flow (2)
90	148.72	118.08	Shut-In (2)
125	1135.57	119.39	End Shut-In (2)
126	2014.54	119.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	10%oil 5%water 85%mud	2.24
120.00	10%oil 20%mud 70%water	1.68

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31068

DST#: 3

ATTN: Steve Murphy

Test Start: 2009.04.30 @ 08:15:00

Tool Information

Drill Pipe:	Length: 4129.00 ft	Diameter: 3.80 inches	Volume: 57.92 bbl	Tool Weight:	1800.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	57.92 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4150.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4127.00	
Hydraulic tool	5.00			4132.00	
Jars	5.00			4137.00	
Safety Joint	3.00			4140.00	
Packer	5.00			4145.00	28.00 Bottom Of Top Packer
Packer	5.00			4150.00	
Stubb	1.00			4151.00	
Recorder	0.00	6751	Inside	4151.00	
Recorder	0.00	8355	Inside	4151.00	
Change Over Sub	1.00			4152.00	
Drill Pipe	31.00			4183.00	
Change Over Sub	1.00			4184.00	
Perforations	12.00			4196.00	
Bullnose	4.00			4200.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 31068

DST#: 3

ATTN: Steve Murphy

Test Start: 2009.04.30 @ 08:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.59 in³

Resistivity: ohm.m

Salinity: 1600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	10%oil 5%water 85%mud	2.244
120.00	10%oil 20%mud 70%water	1.683

Total Length: 280.00 ft

Total Volume: 3.927 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

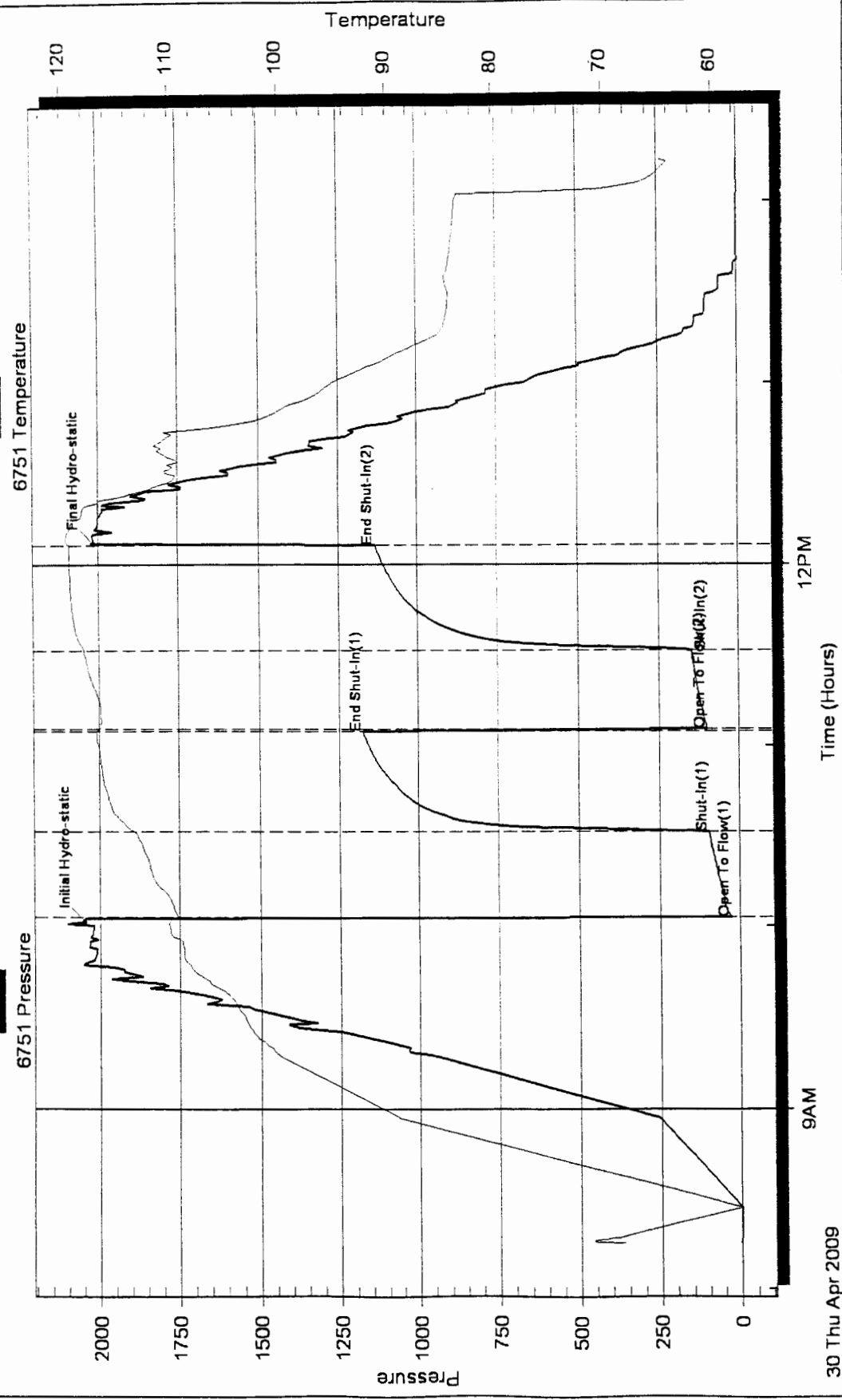
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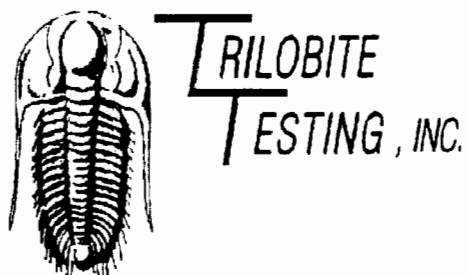
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

15 12 32 Logan KS

Younkin #1

Start Date: 2009.05.02 @ 02:28:48

End Date: 2009.05.02 @ 08:55:12

Job Ticket #: 34604 DST #: 4

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K&B Norton Oil Investments LLC

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

Younkin #1

15 12 32 Logan KS

Job Ticket: 34604

DST#: 4

Test Start: 2009.05.02 @ 02:28:48

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:55:28

Time Test Ended: 08:55:12

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4524.00 ft (KB) To 4562.00 ft (KB) (TVD)**

Total Depth: 4562.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2969.00 ft (KB)

2961.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6772

Inside

Press@RunDepth: 126.92 psig @ 4525.00 ft (KB)

Start Date: 2009.05.02

End Date: 2009.05.02

Start Time: 02:28:48

End Time: 08:55:12

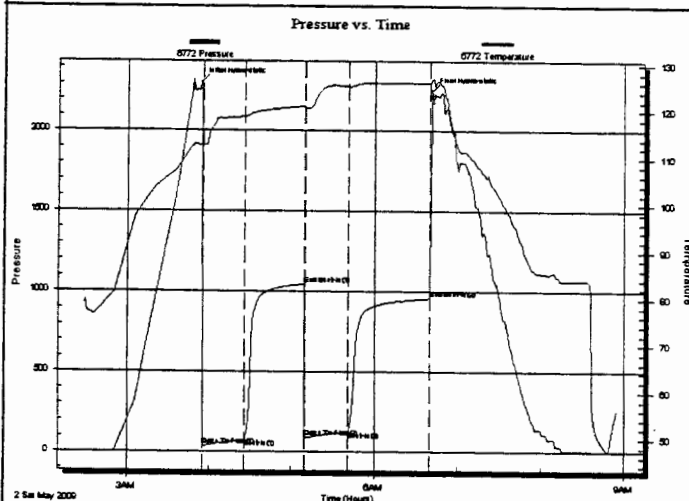
Capacity: 7000.00 psig

Last Calib.: 2009.05.02

Time On Btm: 2009.05.02 @ 03:54:13

Time Off Btm: 2009.05.02 @ 06:41:43

TEST COMMENT: IF: 1/4 blow BOB in 12 min.
IS: Surface blow built to 1 1/2 in 45 min.
FF: 1/4 blow BOB in 13 min.
FS: Surface blow built to 2 in 60 min.



PRESSURE SUMMARY

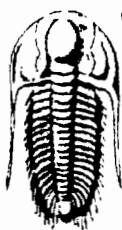
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.14	112.81	Initial Hydro-static
2	36.66	112.56	Open To Flow (1)
32	77.46	118.86	Shut-In(1)
76	1044.50	121.13	End Shut-In(1)
77	91.18	120.77	Open To Flow (2)
107	126.92	125.37	Shut-In(2)
167	957.82	126.15	End Shut-In(2)
168	2250.81	126.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mcgo 50%g 40%o 10%m	0.87
124.00	mcgo 40%g 50%o 10%m	1.74
82.00	mco 70%o 30%m	1.15
0.00	GIP 310	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

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 34604

DST#: 4

ATTN: Steve Murphy

Test Start: 2009.05.02 @ 02:28:48

Tool Information

Drill Pipe:	Length:	4504.00 ft	Diameter:	3.80 inches	Volume:	63.18 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	85000.00 lb
					Total Volume:	63.18 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft						String Weight: Initial	46000.00 lb
Depth to Top Packer:	4524.00 ft						Final	48000.00 lb
Depth to Bottom Packer:	ft							
Interval between Packers:	38.00 ft							
Tool Length:	66.00 ft							
Number of Packers:	2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4497.00	
Shut In Tool	5.00			4502.00	
Hydraulic tool	5.00			4507.00	
Jars	5.00			4512.00	
Safety Joint	2.00			4514.00	
Stubb	1.00			4515.00	
Packer - Shale	5.00			4520.00	
Packer	4.00			4524.00	28.00 Bottom Of Top Packer
Stubb	1.00			4525.00	
Recorder	0.00	6772	Inside	4525.00	
Recorder	0.00	8373	Inside	4525.00	
Perforations	3.00			4528.00	
Change Over Sub	1.00			4529.00	
Drill Pipe	30.00			4559.00	
Change Over Sub	1.00			4560.00	
Bullnose	2.00			4562.00	38.00 Anchor Tool
Total Tool Length:		66.00			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 34604

DST#: 4

ATTN: Steve Murphy

Test Start: 2009.05.02 @ 02:28:48

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.36 in³

Resistivity: 0.00 ohm.m

Salinity: 2100.00 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	mcgo 50%g 40%o 10%m	0.870
124.00	mcgo 40%g 50%o 10%m	1.739
82.00	mco 70%o 30%m	1.150
0.00	GIP 310	0.000

Total Length: 268.00 ft

Total Volume: 3.759 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

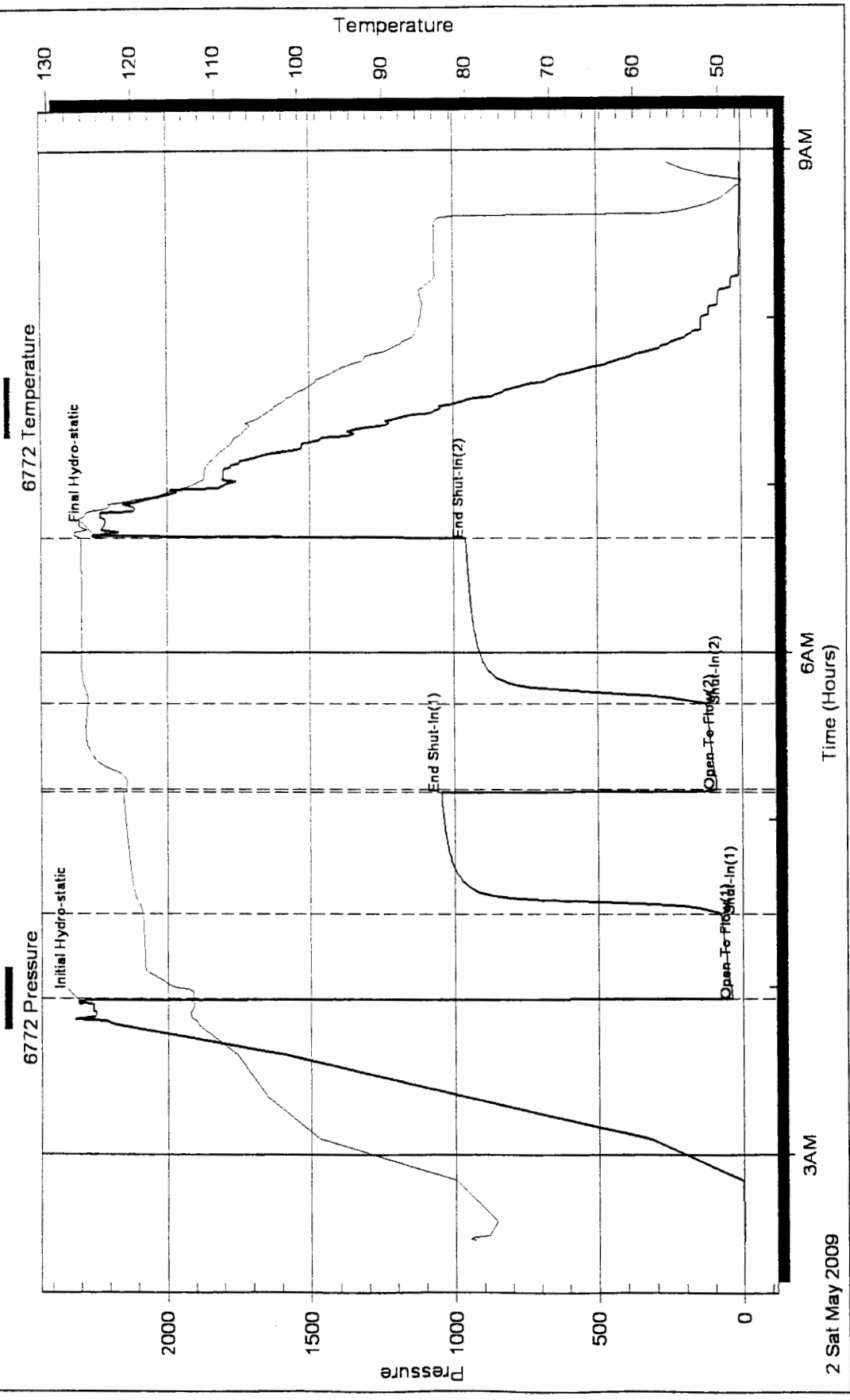
Serial #:

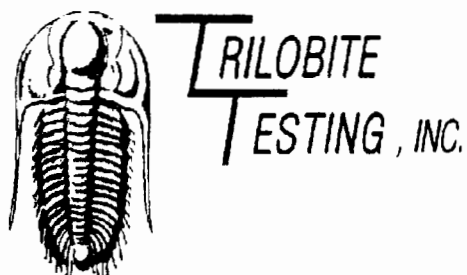
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

510 W. 36th St.
Hays, KS 67601

ATTN: Steve Murphy

15 12 32 Logan KS

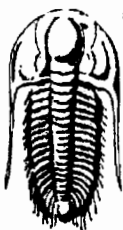
Younkin #1

Start Date: 2009.05.02 @ 17:12:24

End Date: 2009.05.02 @ 21:18:49

Job Ticket #: 34605 DST #: 5

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

ATTN: Steve Murphy

Job Ticket: 34605

DST#: 5

Test Start: 2009.05.02 @ 17:12:24

GENERAL INFORMATION:

Formation: **Marrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:06:49

Time Test Ended: 21:18:49

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4571.00 ft (KB) To 4598.00 ft (KB) (TVD)**

Reference Elevations: 2969.00 ft (KB)

Total Depth: 4571.00 ft (KB) (TVD)

2961.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6772

Inside

Press@RunDepth: psig @ 4572.00 ft (KB)

Start Date: 2009.05.02

End Date:

2009.05.02

Capacity: 7000.00 psig

Last Calib.: 2009.05.02

Start Time: 17:12:24

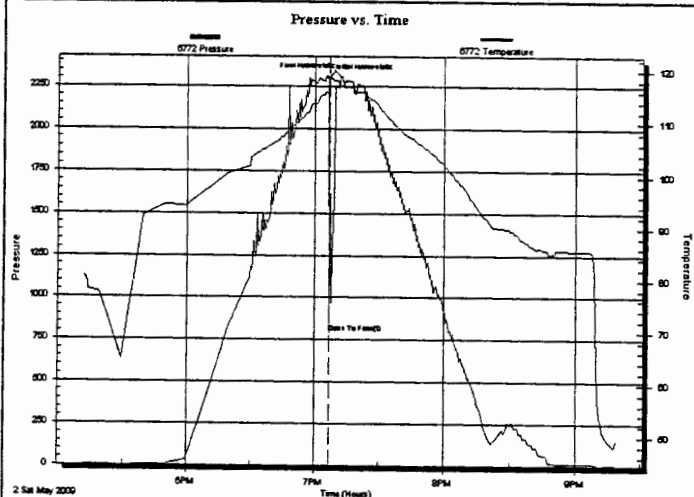
End Time:

21:18:49

Time On Btm: 2009.05.02 @ 19:06:19

Time Off Btm: 2009.05.02 @ 19:12:04

TEST COMMENT: Packer failed at open.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.38	115.72	Initial Hydro-static
1	788.44	117.78	Open To Flow (1)
6	2306.46	117.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	mud 100% m	8.70

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 34605

DST#: 5

ATTN: Steve Murphy

Test Start: 2009.05.02 @ 17:12:24

Tool Information

Drill Pipe:	Length: 4569.00 ft	Diameter: 3.80 inches	Volume: 64.09 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	64.09 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4571.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4545.00	
Shut In Tool	5.00			4550.00	
Hydraulic tool	5.00			4555.00	
Jars	5.00			4560.00	
Safety Joint	2.00			4562.00	
Packer	5.00			4567.00	27.00 Bottom Of Top Packer
Packer	4.00			4571.00	
Stubb	1.00			4572.00	
Recorder	0.00	6772	Inside	4572.00	
Recorder	0.00	8373	Inside	4572.00	
Perforations	21.00			4593.00	
Bullnose	5.00			4598.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

K&B Norton Oil Investments LLC

Younkin #1

510 W. 36th St.
Hays, KS 67601

15 12 32 Logan KS

Job Ticket: 34605

DST#: 5

ATTN: Steve Murphy

Test Start: 2009.05.02 @ 17:12:24

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	mud 100% _m	8.697

Total Length: 620.00 ft

Total Volume: 8.697 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

