

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

510 W 6th St
Hays KS 67601-1508

ATTN: Ken Norton

16 14 15 Russell KS

Mermis # 1

Start Date: 2007.05.25 @ 00:00:00

End Date: 2007.05.25 @ 00:00:00

Job Ticket #: 28005 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC

DRILL STEM TEST REPORT

K & B Norton Oil & Investments LLC

510 W 6th St
Hays KS 67601-1508

ATTN: Ken Norton

Mermis # 1

16 14 15 Russell KS

Job Ticket: 28005

DST#: 1

Test Start: 2007.05.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **L.Kc.-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional

Tester: John Schmidt

Unit No: 31

Interval: **3028.00 ft (KB) To 3061.00 ft (KB) (TVD)**

Total Depth: 3591.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1869.00 ft (KB)

1864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: psig @ 3039.00 ft (KB)

Start Date: 2007.05.25

End Date:

2007.05.25

Start Time: 17:22:33

End Time:

23:21:27

Capacity: 7000.00 psig

Last Calib.: 2007.05.26

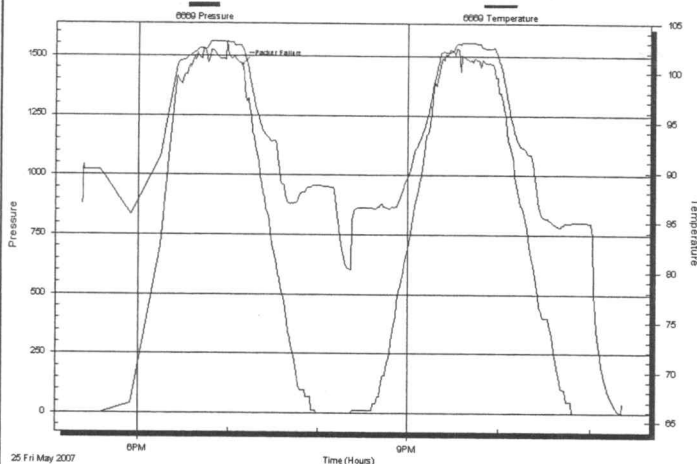
Time On Btm:

Time Off Btm:

TEST COMMENT: IF

Packer Failure

Pressure vs. Time



PRESSURE SUMMARY

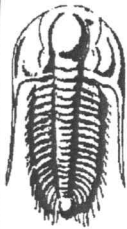
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1461.74	102.49	--Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil & Investments LLC

Mermis # 1

510 W 6th St
Hays KS 67601-1508

16 14 15 Russell KS

Job Ticket: 28005

DST#: 1

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Tool Information

Drill Pipe:	Length: 2917.00 ft	Diameter: 3.80 inches	Volume: 40.92 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	lb
		Total Volume:	41.50 bbl	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3028.00 ft			Final	lb
Depth to Bottom Packer:	3061.00 ft				
Interval between Packers:	33.00 ft				
Tool Length:	283.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3009.00	
Shut In Tool	5.00			3014.00	
Hydraulic tool	5.00			3019.00	
Packer	4.00			3023.00	20.00 Bottom Of Top Packer
Packer	5.00			3028.00	
Stubb	1.00			3029.00	
Perforations	10.00			3039.00	
Recorder	0.00	6669	Inside	3039.00	
Perforations	21.00			3060.00	
Recorder	0.00	13308	Outside	3060.00	
Blank Off Sub	1.00			3061.00	33.00 Tool Interval
Packer	0.00			3061.00	
Stubb	1.00			3062.00	
Perforations	6.00			3068.00	
Recorder	0.00	11084		3068.00	
Blank Spacing	218.00			3286.00	
Perforations	2.00			3288.00	
Bullnose	3.00			3291.00	230.00 Bottom Packers & Anchor

Total Tool Length: 283.00



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FLUID SUMMARY

K & B Norton Oil & Investments LLC

Mermis # 1

510 W 6th St
Hays KS 67601-1508

16 14 15 Russell KS

Job Ticket: 28005

DST#: 1

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 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

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6669

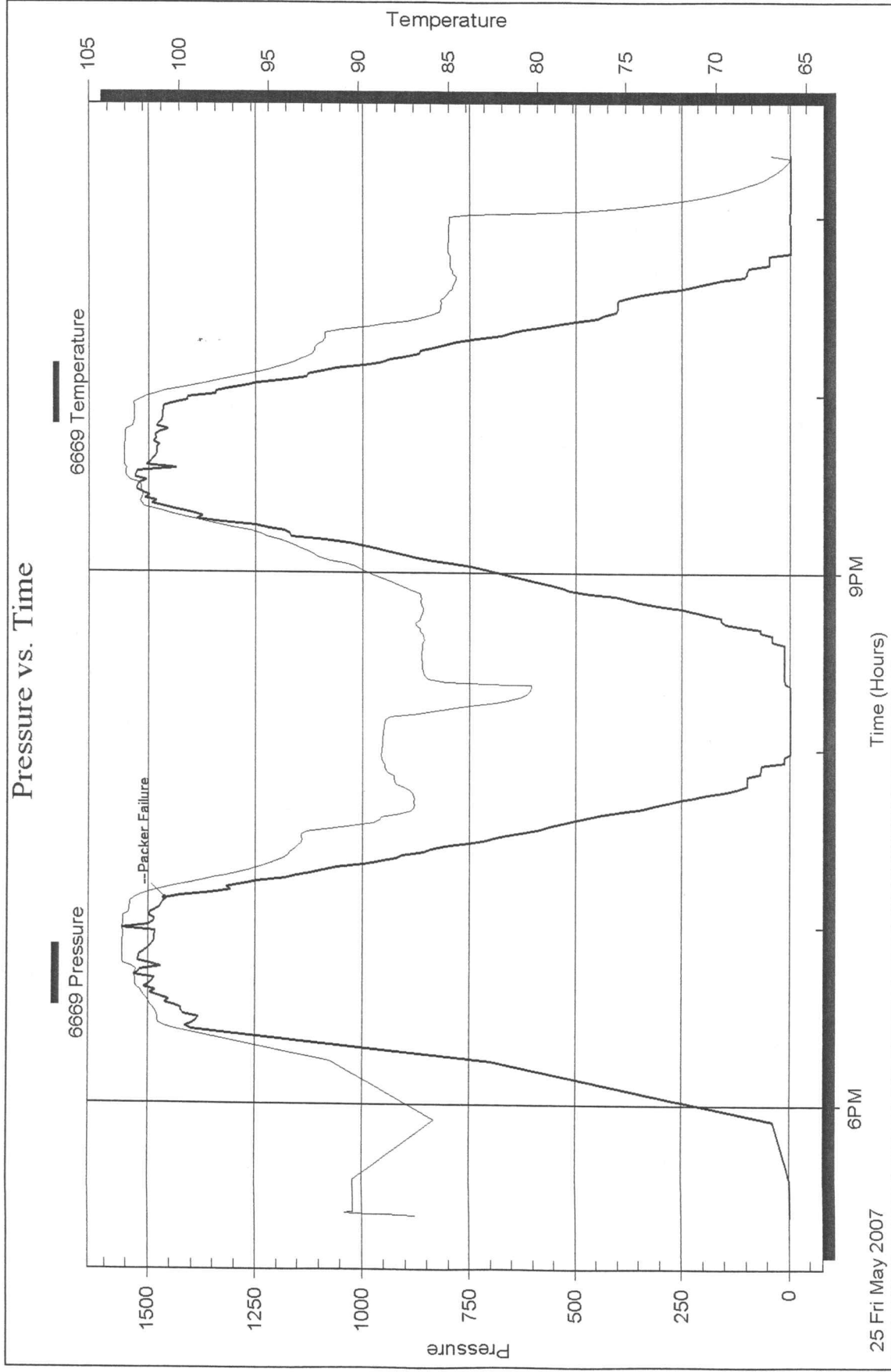
Inside

K & B Norton Oil & Investments LLC

16 14 15 Russell KS

DST Test Number: 1

Pressure vs. Time



Ref. No: 28005

Trilobite Testing, Inc



DRILL STEM TEST REPORT

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

510 W 6th St
Hays KS 67601-1508

ATTN: Ken Norton

16 14 15 Russell KS

Mermis # 1

Start Date: 2007.05.25 @ 00:00:00

End Date: 2007.05.25 @ 00:00:00

Job Ticket #: 28006 DST #: 2

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DRILL STEM TEST REPORT

K & B Norton Oil & Investments LLC

510 W 6th St
Hays KS 67601-1508

ATTN: Ken Norton

Mermis # 1

16 14 15 Russell KS

Job Ticket: 28006

DST#: 2

Test Start: 2007.05.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **L.Kc.-B**

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

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: **Conventional**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3035.00 ft (KB) To 3061.00 ft (KB) (TVD)**

Total Depth: **3591.00 ft (KB) (TVD)**

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

Reference Elevations: **1869.00 ft (KB)**

1864.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6669

Inside

Press@RunDepth: **psig @ 3046.00 ft (KB)**

Start Date: **2007.05.25**

End Date:

2007.05.25

Capacity: **7000.00 psig**

Last Calib.: **2007.05.25**

Start Time: **17:22:33**

End Time:

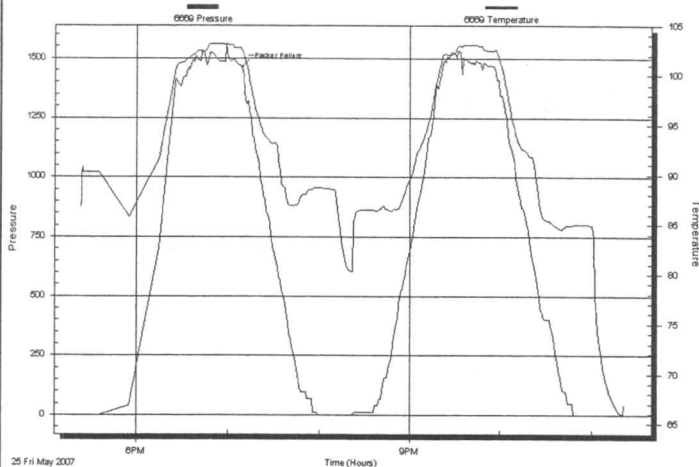
23:21:27

Time On Btm:

Time Off Btm:

TEST COMMENT: **IF Packer Failure**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1461.74	102.49	--Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil & Investments LLC

Mermis # 1

510 W 6th St
Hays KS 67601-1508

16 14 15 Russell KS

Job Ticket: 28006

DST#: 2

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Tool Information

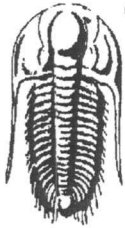
Drill Pipe:	Length: 2917.00 ft	Diameter: 3.80 inches	Volume: 40.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: lb
		Total Volume: 41.50 bbl		Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial lb
Depth to Top Packer:	3035.00 ft			Final lb
Depth to Bottom Packer:	3061.00 ft			
Interval between Packers:	26.00 ft			
Tool Length:	276.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3016.00	
Shut In Tool	5.00			3021.00	
Hydraulic tool	5.00			3026.00	
Packer	4.00			3030.00	20.00 Bottom Of Top Packer
Packer	5.00			3035.00	
Stubb	1.00			3036.00	
Perforations	10.00			3046.00	
Recorder	0.00	6669	Inside	3046.00	
Perforations	14.00			3060.00	
Recorder	0.00	13308	Outside	3060.00	
Blank Off Sub	1.00			3061.00	26.00 Tool Interval
Packer	0.00			3061.00	
Stubb	1.00			3062.00	
Perforations	6.00			3068.00	
Recorder	0.00	11084		3068.00	
Blank Spacing	218.00			3286.00	
Perforations	2.00			3288.00	
Bullnose	3.00			3291.00	230.00 Bottom Packers & Anchor

Total Tool Length: 276.00



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FLUID SUMMARY

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510 W 6th St
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16 14 15 Russell KS

Job Ticket: 28006

DST#: 2

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.39 in³

Resistivity: ohm.m

Salinity: 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

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

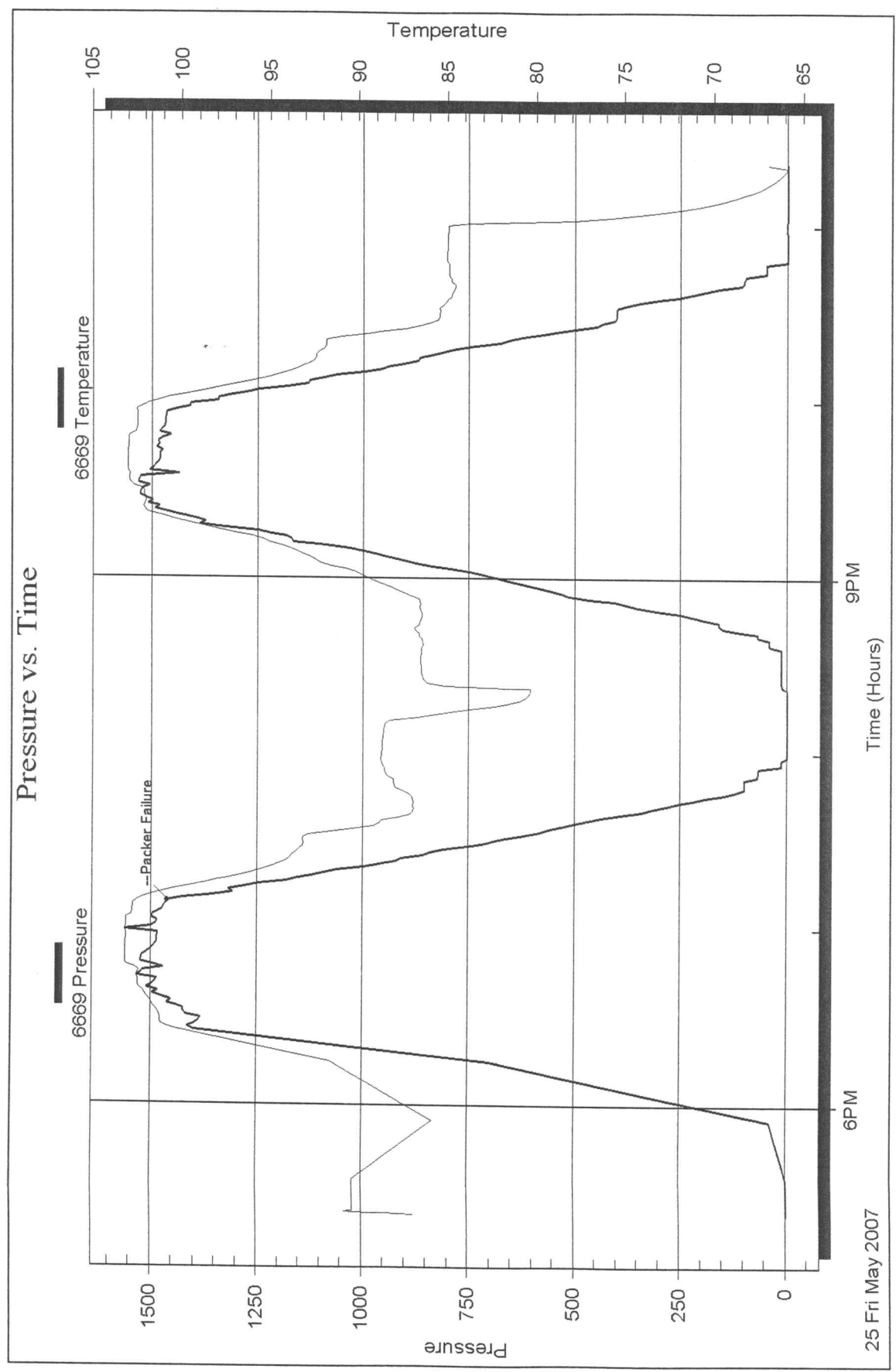
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





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

510 W 6th St
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ATTN: Ken Norton

16 14 15 Russell KS

Mermis # 1

Start Date: 2007.05.25 @ 00:00:00

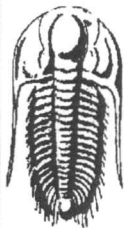
End Date: 2007.05.26 @ 00:00:00

Job Ticket #: 28007 DST #: 3

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DRILL STEM TEST REPORT

K & B Norton Oil & Investments LLC

510 W 6th St
Hays KS 67601-1508

ATTN: Ken Norton

Mermis # 1

16 14 15 Russell KS

Job Ticket: 28007

DST#: 3

Test Start: 2007.05.25 @ 00:00:00

GENERAL INFORMATION:

Formation: **L.Kc.-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional

Tester: John Schmidt

Unit No: 31

Interval: **2998.00 ft (KB) To 3061.00 ft (KB) (TVD)**

Total Depth: 3591.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1869.00 ft (KB)

1864.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669 Inside

Press@RunDepth: psig @ 3009.00 ft (KB)

Start Date: 2007.05.25

End Date:

2007.05.26

Start Time: 23:37:59

End Time:

03:31:24

Capacity: 7000.00 psig

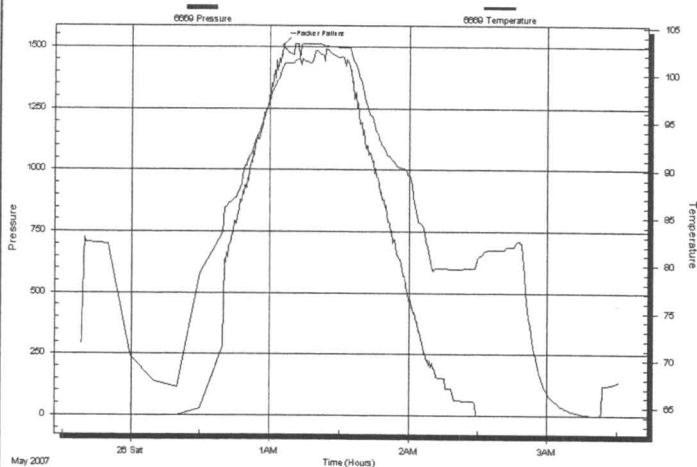
Last Calib.: 2007.05.26

Time On Btm:

Time Off Btm:

TEST COMMENT: IF Packer Failure

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1507.32	100.85	--Packer Failure

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

K & B Norton Oil & Investments LLC

Mermis # 1

510 W 6th St
Hays KS 67601-1508

16 14 15 Russell KS

Job Ticket: 28007

DST#: 3

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Tool Information

Drill Pipe:	Length: 2887.00 ft	Diameter: 3.80 inches	Volume: 40.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: lb
			Total Volume: 41.08 bbl	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial lb
Depth to Top Packer:	2998.00 ft			Final lb
Depth to Bottom Packer:	3061.00 ft			
Interval between Packers:	63.00 ft			
Tool Length:	313.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2979.00	
Shut In Tool	5.00			2984.00	
Hydraulic tool	5.00			2989.00	
Packer	4.00			2993.00	20.00 Bottom Of Top Packer
Packer	5.00			2998.00	
Stubb	1.00			2999.00	
Perforations	10.00			3009.00	
Recorder	0.00	6669	Inside	3009.00	
Blank Spacing	31.00			3040.00	
Perforations	20.00			3060.00	
Recorder	0.00	13308	Outside	3060.00	
Blank Off Sub	1.00			3061.00	63.00 Tool Interval
Packer	0.00			3061.00	
Stubb	1.00			3062.00	
Perforations	6.00			3068.00	
Recorder	0.00	11084		3068.00	
Blank Spacing	218.00			3286.00	
Perforations	2.00			3288.00	
Bullnose	3.00			3291.00	230.00 Bottom Packers & Anchor

Total Tool Length: 313.00



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16 14 15 Russell KS

Job Ticket: 28007

DST#: 3

ATTN: Ken Norton

Test Start: 2007.05.25 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.38 in³

Resistivity: ohm.m

Salinity: 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

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

