

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street North
Suite "B"
Wichita, KS 67205

ATTN: Steve Miller

32-8-29 Sheridan,KS

Koster Revocable Trust #32-1

Start Date: 2011.04.16 @ 08:41:00

End Date: 2011.04.16 @ 15:54:00

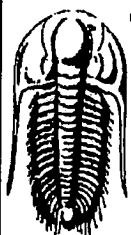
Job Ticket #: 041989 DST #: 1

RECEIVED
JUN 03 2011
KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IA Operating, Inc.

9915 W 21st Street North
Suite "B"
Wichita, KS 67205
ATTN: Steve Miller

Koster Revocable Trust #32-1

32-8-29 Sheridan, KS

Job Ticket: 041989

DST#: 1

Test Start: 2011.04.16 @ 08:41:00

GENERAL INFORMATION:

Formation: **LKC "J"**

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

Time Tool Opened: 10:57:00

Time Test Ended: 15:54:00

Interval: **4067.00 ft (KB) To 4088.00 ft (KB) (TVD)**

Total Depth: **4200.00 ft (KB) (TVD)**

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

Test Type: **Conventional Straddle**

Tester: **James Winder**

Unit No: **46**

Reference Elevations: **2844.00 ft (KB)**

2834.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8366

Inside

Press@RunDepth: **50.62 psig @ 4068.00 ft (KB)**

Start Date: **2011.04.16**

End Date: **2011.04.16**

Start Time: **08:41:05**

End Time: **15:53:59**

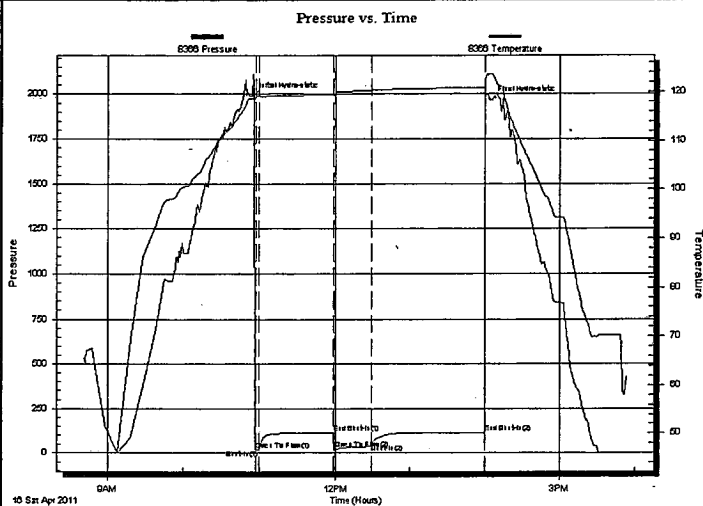
Capacity: **8000.00 psig**

Last Calib.: **2011.04.16**

Time On Btm: **2011.04.16 @ 10:54:00**

Time Off Btm: **2011.04.16 @ 14:04:30**

TEST COMMENT: IF: BOB (11") in 2 min.
IS: Surface blow back for a few min., then dead
FF: BOB in 1 1/2 min.
FSI: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.68	118.64	Initial Hydro-static
3	19.06	119.09	Open To Flow (1)
6	18.98	119.20	Shut-In(1)
65	113.60	119.40	End Shut-In(1)
66	24.05	119.72	Open To Flow (2)
96	50.62	120.33	Shut-In(2)
186	114.12	120.90	End Shut-In(2)
191	1965.41	123.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GMO 39%o, 34%g, 27%m	0.63
19.00	OCM 85%m, 13%o, 2%g	0.27
0.00	GIP = 870'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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LA Operating, Inc.

9915 W 21st Street North
Suite "B"
Wichita, KS 67205
ATTN: Steve Miller

32-8-29 Sheridan,KS

Job Ticket: 041989 DST#: 1

Test Start: 2011.04.16 @ 08:41:00

Formation: LKC "J"

Deviated:	No	Whipstock:	ft (KB)
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Time Tool Opened: 10:57:00

Time Test Ended: 15:54:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: 4067.00 ft (KB) To 4088.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8671

Inside

Press@RunDepth: psig @ 4089.00 ft (KB)

Start Date: 2011.04.16

End Date:

2011.04.16

Start Time: 08:41:05

End Time:

16:37:29

Capacity: 8000.00 psig

Last Calib.: 2011.04.16

Time On Btm:

Time Off Btm:

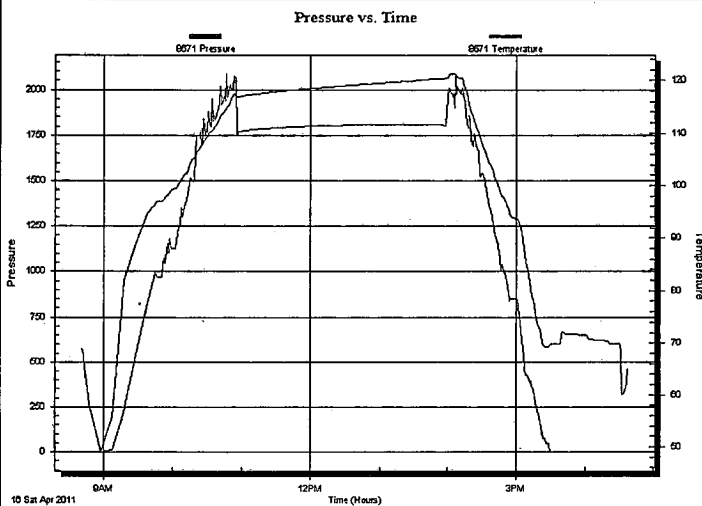
TEST COMMENT:

IF: BOB (11") in 2 min.

ISI: Surface blow back for a few min., then dead

FF: BOB in 1 1/2 min.

FSI: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GMO 39%o, 34%g, 27%m	0.63
19.00	OCM 85%m, 13%o, 2%g	0.27
0.00	GIP = 870'	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

IA Operating, Inc.

Koster Revocable Trust #32-1

9915 W 21st Street North

32-8-29 Sheridan, KS

Suite "B"

Job Ticket: 041989

DST#: 1

Wichita, KS 67205

Test Start: 2011.04.16 @ 08:41:00

ATTN: Steve Miller

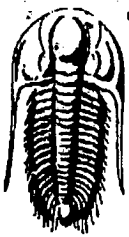
Tool Information

Drill Pipe:	Length: 4055.00 ft	Diameter: 3.80 inches	Volume: 56.88 bbl	Tool Weight:	4000.00 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:	78000.00 lb
		Total Volume:	56.88 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4067.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	4088.00 ft				
Interval between Packers:	21.00 ft				
Tool Length:	153.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4052.00	
Hydraulic tool	5.00			4057.00	
Packer	5.00			4062.00	20.00 Bottom Of Top Packer
Packer	5.00			4067.00	
Stubb	1.00			4068.00	
Recorder	0.00	8366	Inside	4068.00	
Recorder	0.00	8320	Outside	4068.00	
Perforations	15.00			4083.00	
Blank Off Sub	1.00			4084.00	
Blank Spacing	4.00			4088.00	21.00 Tool Interval
Packer	0.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8671	Inside	4089.00	
Perforations	10.00			4099.00	
Blank Spacing	95.00			4194.00	
Perforations	4.00			4198.00	
Bullnose	2.00			4200.00	112.00 Bottom Packers & Anchor
Total Tool Length:	153.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating, Inc.

Koster Revocable Trust #32-1

9915 W 21st Street North

32-8-29 Sheridan, KS

Suite "B"

Job Ticket: 041989

DST#: 1

Wichita, KS 67205

Test Start: 2011.04.16 @ 08:41:00

ATTN: Steve Miller

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	GMO 39%o, 34%g, 27%m	0.631
19.00	OCM 85%m, 13%o, 2%g	0.267
0.00	GIP = 870'	0.000

Total Length: 64.00 ft

Total Volume: 0.898 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

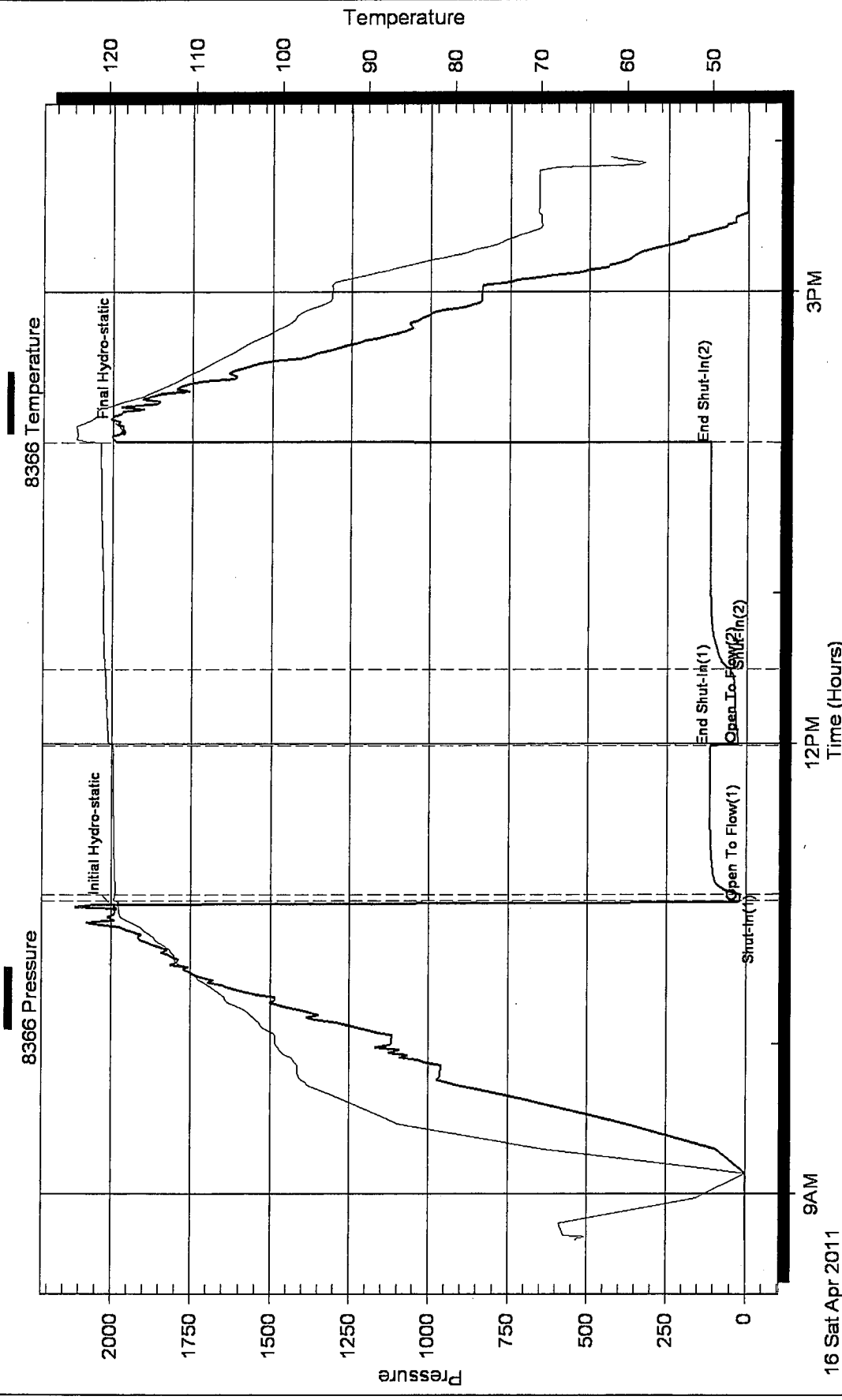
Inside

IA Operating, Inc.

32-8-29 Sheridan, KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 041989

Printed: 2011.04.27 @ 10:15:54 Page 6

Serial #: 8671

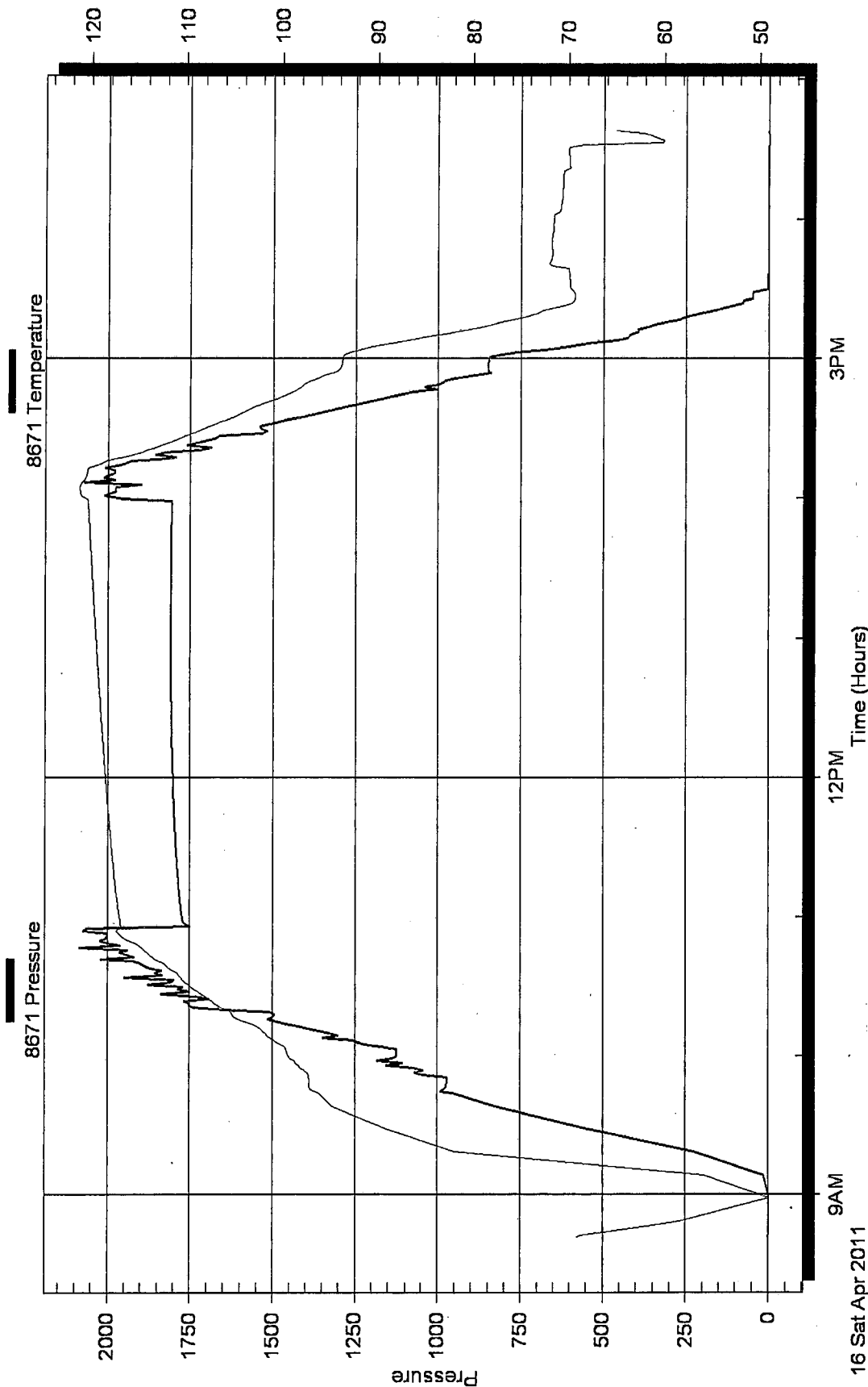
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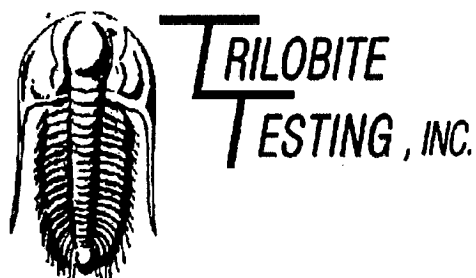
IA Operating, Inc.

32-8-29 Sheridan, KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **IA Operating, Inc.**

9915 W 21st Street North
Suite "B"
Wichita, KS 67205

ATTN: Steve Miller

32-8-29 Sheridan,KS

Koster Revocable Trust #32-1

Start Date: 2011.04.16 @ 17:21:00

End Date: 2011.04.17 @ 01:08:00

Job Ticket #: 041990 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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DRILL STEM TEST REPORT

IA Operating, Inc.

9915 W 21st Street North
Suite "B"
Wichita, KS 67205
ATTN: Steve Miller

Koster Revocable Trust #32-1

32-8-29 Sheridan, KS

Job Ticket: 041990

DST#: 2

Test Start: 2011.04.16 @ 17:21:00

GENERAL INFORMATION:

Formation: **LKC "A - B"**

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

Time Tool Opened: 19:03:00

Time Test Ended: 01:08:00

Test Type: **Conventional Straddle**

Tester: **James Winder**

Unit No: **46**

Interval: **3895.00 ft (KB) To 3949.00 ft (KB) (TVD)**

Total Depth: **4200.00 ft (KB) (TVD)**

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

Reference Elevations: **2844.00 ft (KB)**

2834.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8366

Inside

Press@RunDepth: **102.59 psig @ 3929.00 ft (KB)**

Start Date: **2011.04.16**

End Date:

2011.04.17

Capacity: **8000.00 psig**

Last Calib.: **2011.04.17**

Start Time: **17:21:05**

End Time:

01:07:59

Time On Btm: **2011.04.16 @ 19:00:30**

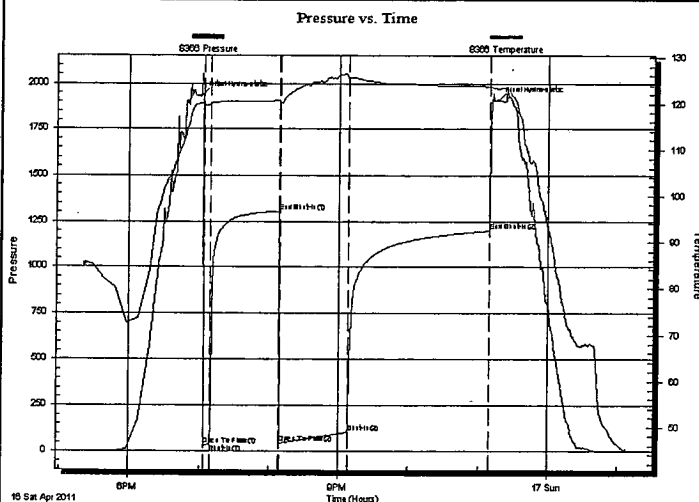
Time Off Btm: **2011.04.16 @ 23:16:00**

TEST COMMENT: IF: Blow built to 2"

IS: Bled off, No blow back

FF: BOB (11") in 58 min.

FS: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.34	120.01	Initial Hydro-static
3	32.99	119.48	Open To Flow (1)
9	41.64	119.91	Shut-In(1)
68	1302.62	120.68	End Shut-In(1)
69	44.30	120.30	Open To Flow (2)
128	102.59	125.64	Shut-In(2)
249	1198.21	123.81	End Shut-In(2)
256	1908.00	123.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	SWCM w /trace oil 93%w, 7%w	0.49
124.00	WCM w /trace oil 67%w, 33%w	1.74

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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ATTN: Steve Miller

Koster Revocable Trust #32-1

32-8-29 Sheridan,KS

Job Ticket: 041990

DST#: 2

Test Start: 2011.04.16 @ 17:21:00

Formation: LKC "A - B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:00

Time Test Ended: 01:08:00

Test Type: Conventional Straddle

Tester: James Winder

Unit No: 46

Interval: 3895.00' ft (KB) To 3949.00' ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2844.00 ft (KB)

2834.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8671 **Inside**

Press@RunDepth: psig @ 3950.00 ft (KB)

Start Date: 2011.04.16

End Date:

2011.04.17

Start Time: 17:21:05

End Time:

01:03:59

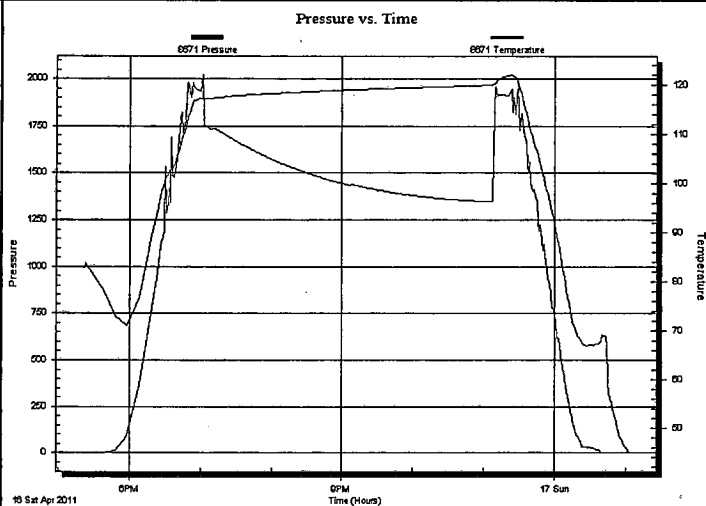
Capacity: 8000.00 psig

011.04.17

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Blow built to 2"
IS: Bled off, No blow back
FF: BOB (11") in 58 min.
FS: Bled off, No blow back



PRESSURE SUMMARY

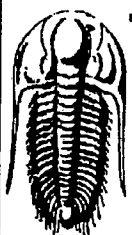
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
35.00	SWCM w /trace oil 93%m, 7%w	0.49
124.00	WCM w /trace oil 67%m, 33%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

IA Operating, Inc.

Koster Revocable Trust #32-1

9915 W 21st Street North
Suite "B"
Wichita, KS 67205
ATTN: Steve Miller

32-8-29 Sheridan, KS

Job Ticket: 041990

DST#: 2

Test Start: 2011.04.16 @ 17:21:00

Tool Information

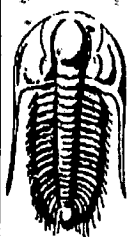
Drill Pipe:	Length: 3898.00 ft	Diameter: 3.80 inches	Volume: 54.68 bbl	Tool Weight: 5000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 88000.00 lb
		Total Volume: 54.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3895.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	3949.00 ft			
Interval between Packers:	54.00 ft			
Tool Length:	325.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3880.00	
Hydraulic tool	5.00			3885.00	
Packer	5.00			3890.00	20.00 Bottom Of Top Packer
Packer	5.00			3895.00	
Stubb	1.00			3896.00	
Blank Spacing	33.00			3929.00	
Recorder	0.00	8366	Inside	3929.00	
Recorder	0.00	8320	Outside	3929.00	
Perforations	15.00			3944.00	
Blank Off Sub	1.00			3945.00	
Blank Spacing	4.00			3949.00	54.00 Tool Interval
Packer	0.00			3949.00	
Stubb	1.00			3950.00	
Recorder	0.00	8671	Inside	3950.00	
Perforations	23.00			3973.00	
Blank Spacing	221.00			4194.00	
Perforations	4.00			4198.00	
Bullnose	2.00			4200.00	251.00 Bottom Packers & Anchor

Total Tool Length: 325.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

IA Operating, Inc.

Koster Revocable Trust #32-1

9915 W 21st Street North

32-8-29 Sheridan, KS

Suite "B"

Job Ticket: 041990

DST#: 2

Wichita, KS 67205

Test Start: 2011.04.16 @ 17:21:00

ATTN: Steve Miller

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:

18000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	SWCM w /trace oil 93% m, 7% w	0.491
124.00	WCM w /trace oil 67% m, 33% w	1.739

Total Length: 159.00 ft

Total Volume: 2.230 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .586 ohms @ 44.7 deg F

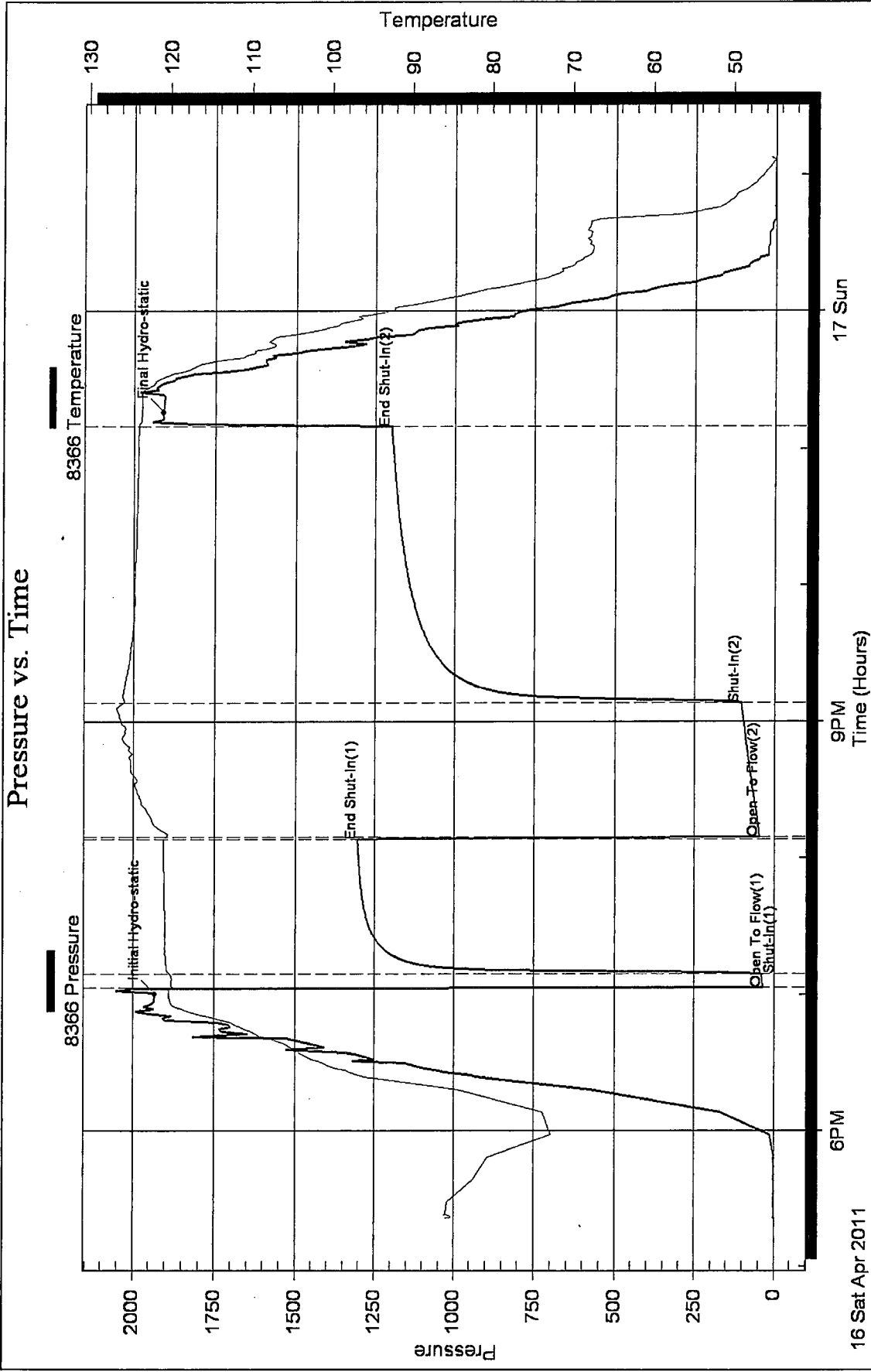
Serial #: 8366

Inside

IA Operating, Inc.

32-8-29 Sheridan, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 041990

Printed: 2011.04.27 @ 10:16:41 Page 6

Serial #: 8671

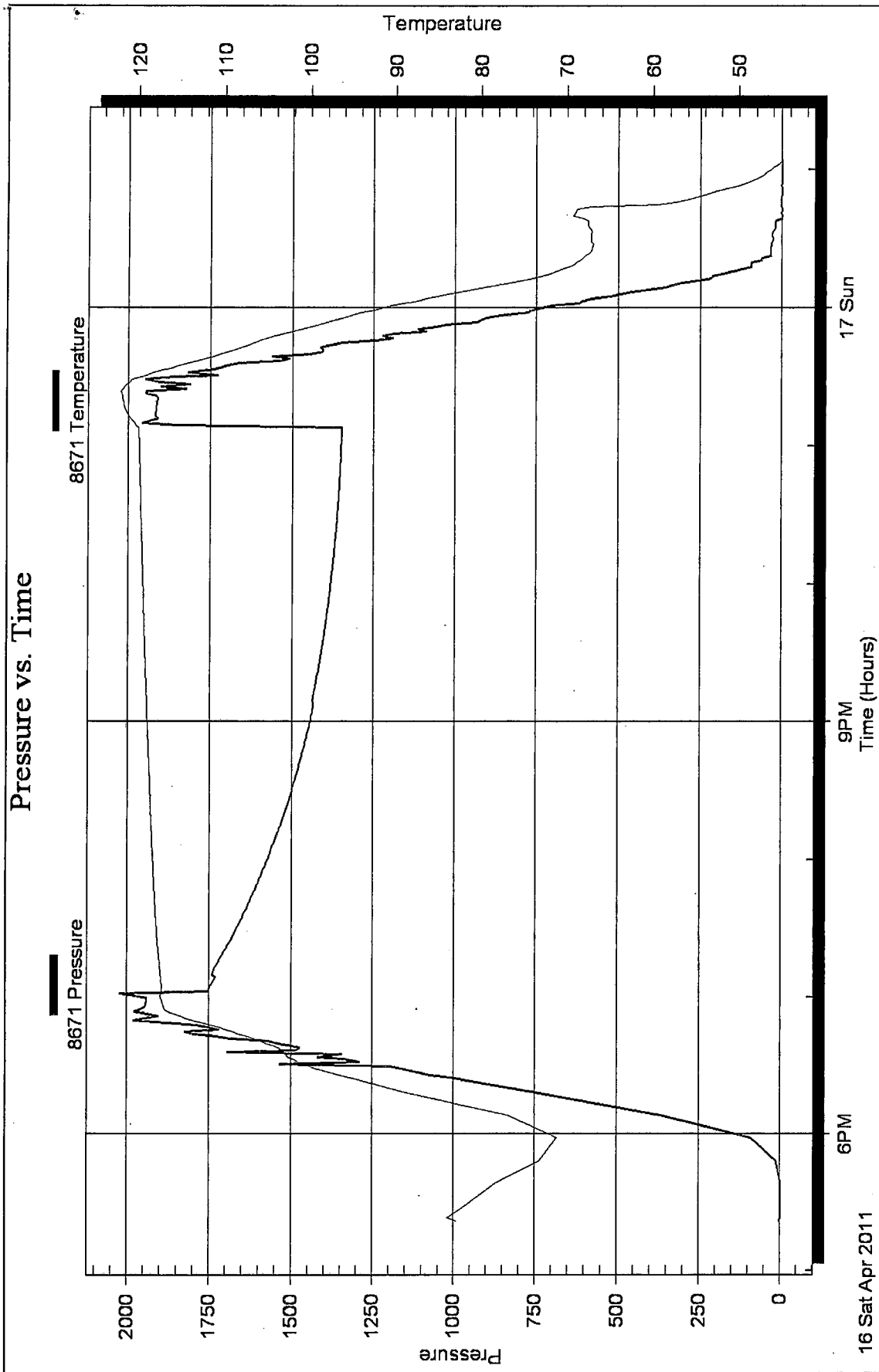
Inside

IA Operating, Inc.

32-8-29 Sheridan, KS

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 041990

Printed: 2011.04.27 @ 10:16:41 Page 7