

DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

8 14s 31w Gove, KS

Rebarchek 8A #1

Start Date: 2010.03.01 @ 01:46:03

End Date: 2010.03.01 @ 08:10:48

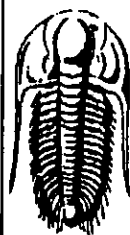
Job Ticket #: 37016 DST #: 1

KCC
JUN 11 2010
CONFIDENTIAL

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

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 14 2010
CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

Rebarchek 8A #1

8 14s 31w Gove, KS

Job Ticket: 37016

DST#: 1

Test Start: 2010.03.01 @ 01:46:03

GENERAL INFORMATION:

Formation: E

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:46:48

Time Test Ended: 08:10:48

Interval: 4033.00 ft (KB) To 4052.00 ft (KB) (TVD)

Total Depth: 4052.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 2915.00 ft (KB)

2905.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press@RunDepth: 27.99 psig @ 4034.00 ft (KB)

Start Date: 2010.03.01

End Date:

2010.03.01

Start Time: 01:46:03

End Time:

07:56:48

Capacity: 8000.00 psig

Last Calib.: 2010.03.01

Time On Btm: 2010.03.01 @ 03:46:03

Time Off Btm: 2010.03.01 @ 05:50:48

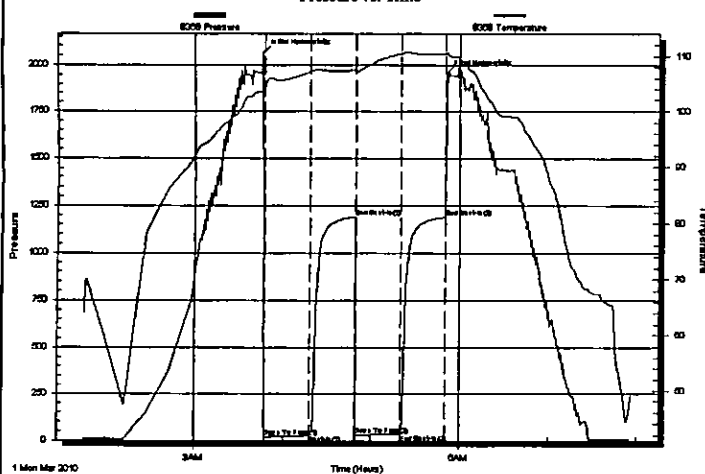
TEST COMMENT: Weak blow died in 11 min.

No return

No blow flush tool, Good surge, No blow

No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.56	103.62	Initial Hydro-static
1	20.91	103.76	Open To Flow (1)
32	27.99	107.21	Shut-In(1)
63	1190.68	107.57	End Shut-In(1)
63	29.61	106.88	Open To Flow (2)
94	36.85	110.36	End Shut-In(2)
124	1187.39	110.34	End Shut-In(3)
125	1956.31	110.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37016

DST#: 1

ATTN: Ted Jochems

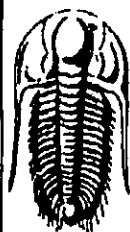
Test Start: 2010.03.01 @ 01:46:03

Tool Information

Drill Pipe:	Length: 3489.00 ft	Diameter: 3.80 inches	Volume: 48.94 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: 539.00 ft	Diameter: 2.25 inches	Volume: 2.65 bbl	Weight to Pull Loose:	85000.00 lb
			Total Volume: 51.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4033.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	19.00 ft				
Tool Length:	39.00 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			4014.00	
Shut In Tool	5.00			4019.00	
Hydraulic tool	5.00			4024.00	
Packer	5.00			4029.00	20.00 Bottom Of Top Packer
Packer	4.00			4033.00	
Stubb	1.00			4034.00	
Recorder	0.00	8368	Inside	4034.00	
Recorder	0.00	6771	Outside	4034.00	
Perforations	13.00			4047.00	
Bullnose	5.00			4052.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37016

DST#: 1

ATTN: Ted Jocherns

Test Start: 2010.03.01 @ 01:46:03

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

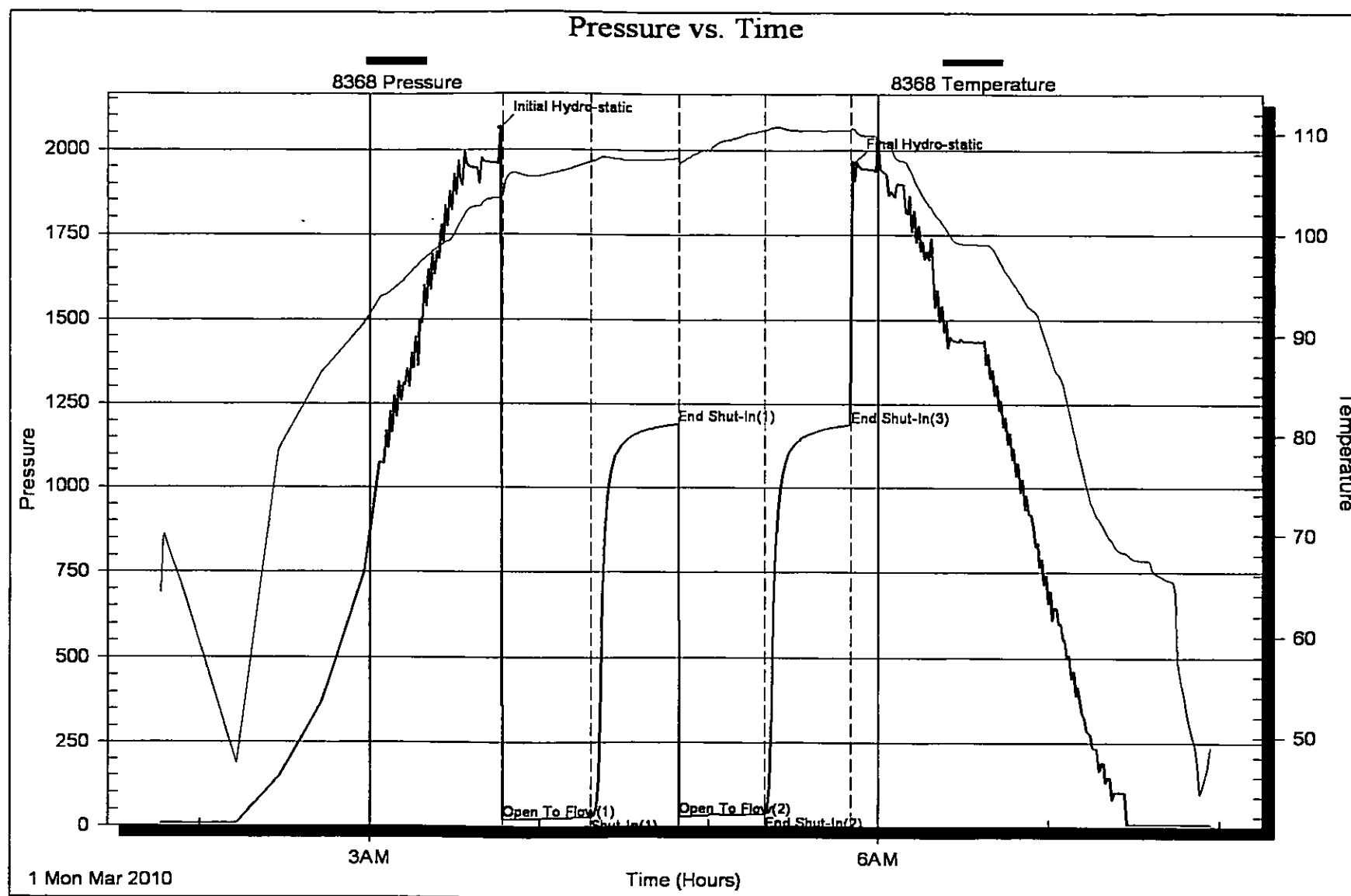
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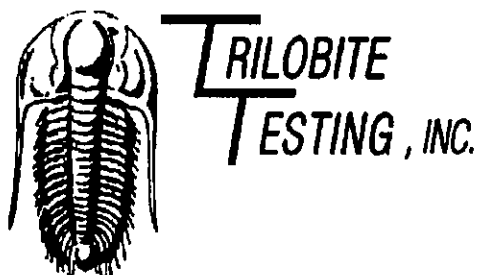
Inside

Ritchie Exploration Inc

8 14s 31w Gove, KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

8 14s 31w Gove, KS

Rebarchek 8A #1

Start Date: 2010.03.01 @ 21:21:13

End Date: 2010.03.02 @ 03:10:58

Job Ticket #: 37017 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

Ritchie Exploration Inc

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

Rebarchek 8A #1

8 14s 31w Gove, KS

Job Ticket: 37017

DST#: 2

Test Start: 2010.03.01 @ 21:21:13

GENERAL INFORMATION:

Formation: H
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:16:43
Time Test Ended: 03:10:58

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 4124.00 ft (KB) To 4145.00 ft (KB) (TVD)
Total Depth: 4145.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2915.00 ft (KB)
2905.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press@RunDepth: 24.68 psig @ 4125.00 ft (KB)

Start Date: 2010.03.01

End Date:

2010.03.02

Start Time: 21:21:13

End Time:

02:57:58

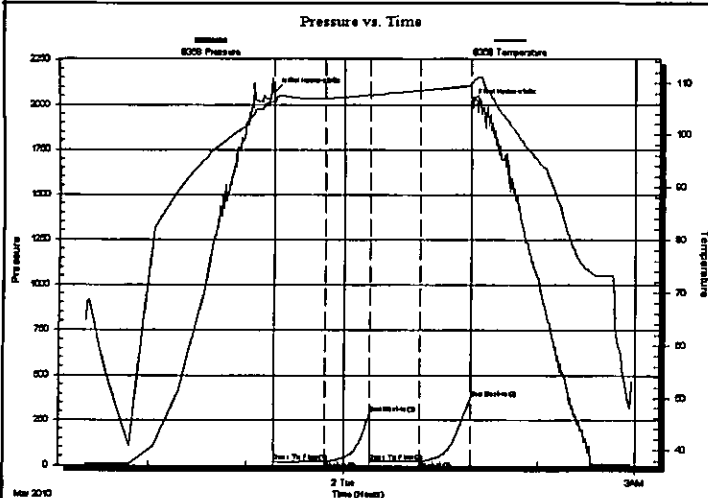
Capacity: 8000.00 psig

Last Calib.: 2010.03.02

Time On Btm: 2010.03.01 @ 23:16:28

Time Off Btm: 2010.03.02 @ 01:18:43

TEST COMMENT: Weak blow died in 8 min.
No return
No blow, flush tool, good surge, no blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.93	106.78	Initial Hydro-static
1	21.83	105.91	Open To Flow (1)
32	22.87	107.02	Shut-In (1)
60	283.70	107.72	End Shut-In (1)
60	22.10	107.55	Open To Flow (2)
91	24.68	108.51	Shut-In (2)
122	370.73	109.55	End Shut-In (2)
123	2015.83	110.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	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

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37017

DST#: 2

ATTN: Ted Jochems

Test Start: 2010.03.01 @ 21:21:13

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 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: 539.00 ft	Diameter: 2.25 inches	Volume: 2.65 bbl	Weight to Pull Loose:	85000.00 lb
			Total Volume: 52.91 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4124.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	41.00 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			4105.00	
Shut In Tool	5.00			4110.00	
Hydraulic tool	5.00			4115.00	
Packer	5.00			4120.00	20.00 Bottom Of Top Packer
Packer	4.00			4124.00	
Stubb	1.00			4125.00	
Recorder	0.00	8368	Inside	4125.00	
Recorder	0.00	6771	Outside	4125.00	
Perforations	15.00			4140.00	
Bullnose	5.00			4145.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37017

DST#: 2

ATTN: Ted Jochems

Test Start: 2010.03.01 @ 21:21:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in*

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%r	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

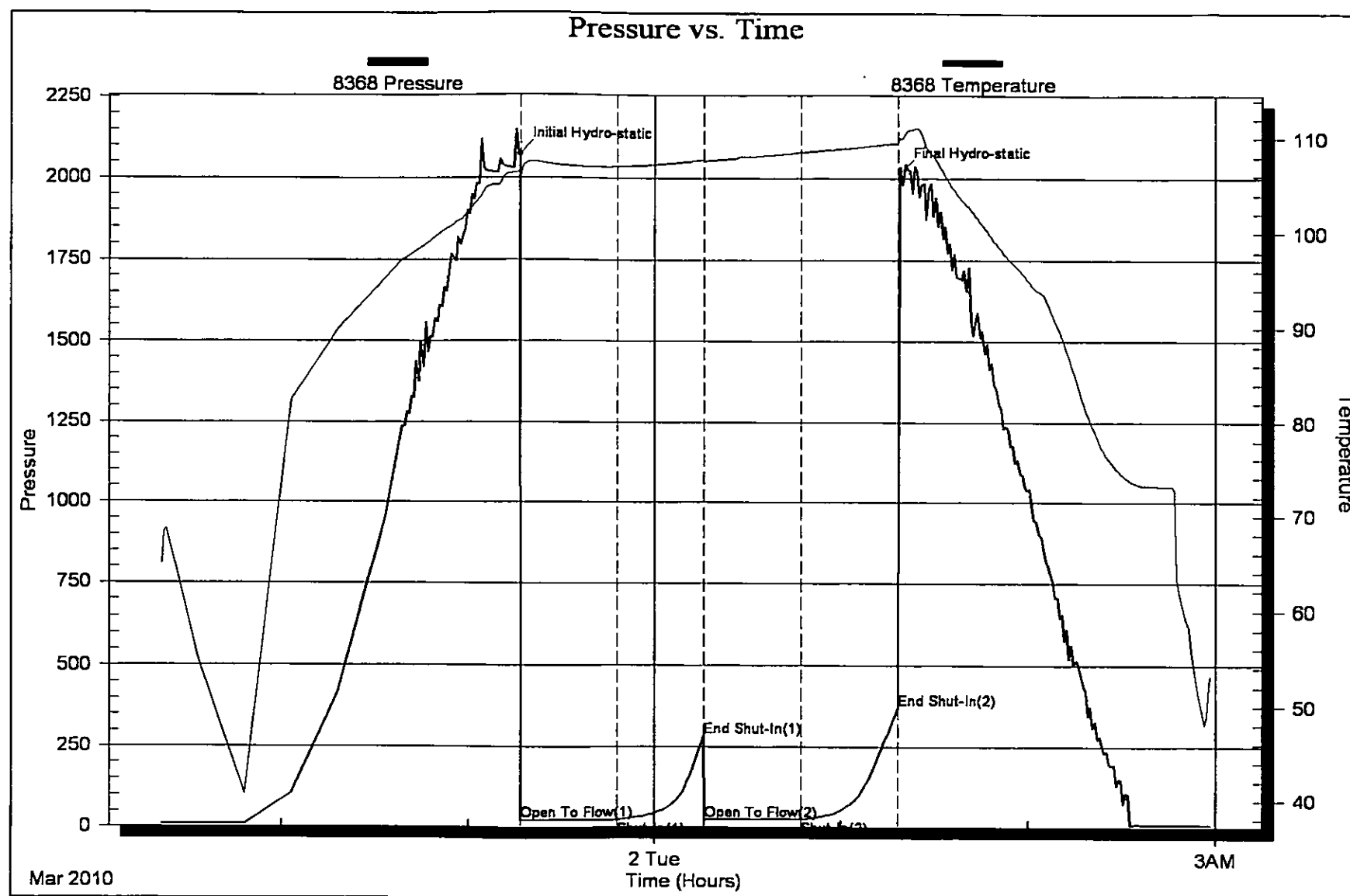
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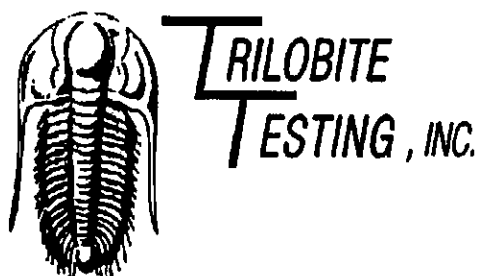
Inside

Ritchie Exploration Inc

8 14s 31w Gove, KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

8 14s 31w Gove, KS

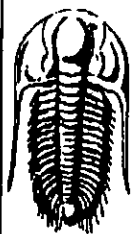
Rebarchek 8A #1

Start Date: 2010.03.03 @ 15:50:21

End Date: 2010.03.03 @ 21:45:36

Job Ticket #: 37018 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

Ritchie Exploration Inc

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochens

Rebarchek 8A #1

8 14s 31w Gove, KS

Job Ticket: 37018

DST#: 3

Test Start: 2010.03.03 @ 15:50:21

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:37:06

Time Test Ended: 21:45:36

Interval: 4512.00 ft (KB) To 4533.00 ft (KB) (TVD)

Total Depth: 4533.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Reference Elevations: 2915.00 ft (KB)

2905.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press@RunDepth: 47.57 psig @ 4513.00 ft (KB)

Start Date: 2010.03.03

End Date:

2010.03.03

Start Time: 15:50:21

End Time:

21:30:36

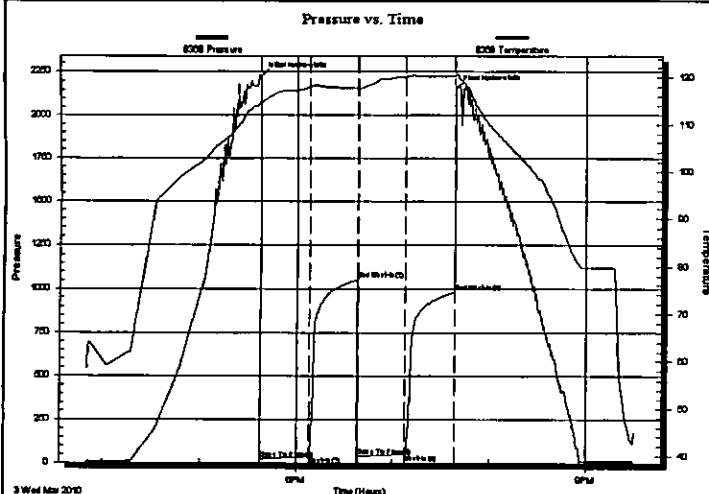
Capacity: 8000.00 psig

Last Calib.: 2010.03.03

Time On Btm: 2010.03.03 @ 17:36:51

Time Off Btm: 2010.03.03 @ 19:39:06

TEST COMMENT: Weak blow died in 16 min.
No return
No blow, flush tool, good surge, no blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.58	115.02	Initial Hydro-static
1	21.29	114.30	Open To Flow (1)
31	35.23	118.03	Shut-In(1)
61	1052.92	117.93	End Shut-In(1)
62	36.55	117.42	Open To Flow (2)
91	47.57	120.16	Shut-In(2)
122	980.43	120.33	End Shut-In(2)
123	2153.63	120.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% oil spots in tool	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37018

DST#: 3

ATTN: Ted Jochems

Test Start: 2010.03.03 @ 15:50:21

Tool Information

Drill Pipe:	Length: 3963.00 ft	Diameter: 3.80 inches	Volume: 55.59 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: 539.00 ft	Diameter: 2.25 inches	Volume: 2.65 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 58.24 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4512.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 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			4493.00	
Shut In Tool	5.00			4498.00	
Hydraulic tool	5.00			4503.00	
Packer	5.00			4508.00	20.00 Bottom Of Top Packer
Packer	4.00			4512.00	
Stubb	1.00			4513.00	
Recorder	0.00	8368	Inside	4513.00	
Recorder	0.00	6771	Outside	4513.00	
Perforations	15.00			4528.00	
Bullnose	5.00			4533.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37018

DST#: 3

ATTN: Ted Jochems

Test Start: 2010.03.03 @ 15:50:21

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% oil spots in tool	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

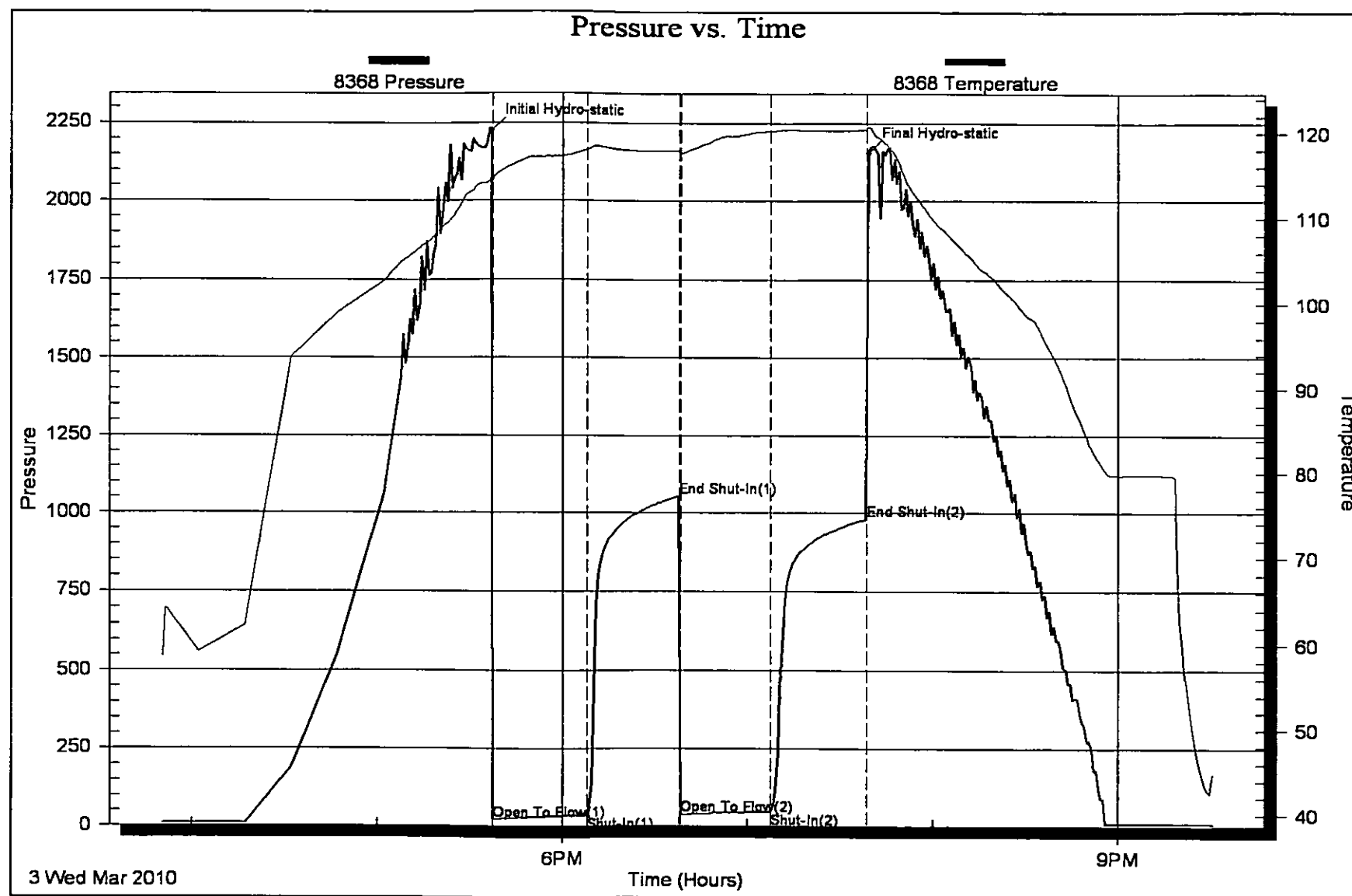
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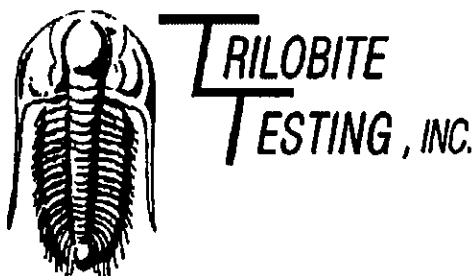
Inside

Ritchie Exploration Inc

8 14s 31w Gove, KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

8 14s 31w Gove, KS

Rebarchek 8A #1

Start Date: 2010.03.04 @ 05:15:53

End Date: 2010.03.04 @ 11:35:02

Job Ticket #: 37019 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

TOOL DIAGRAM

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37019

DST#: 4

ATTN: Ted Jochems

Test Start: 2010.03.04 @ 05:15:53

Tool Information

Drill Pipe:	Length: 3997.00 ft	Diameter: 3.80 inches	Volume: 56.07 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: 539.00 ft	Diameter: 2.25 inches	Volume: 2.65 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	58.72 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4531.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	37.00 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			4512.00	
Shut In Tool	5.00			4517.00	
Hydraulic tool	5.00			4522.00	
Packer	5.00			4527.00	20.00 Bottom Of Top Packer
Packer	4.00			4531.00	
Stubb	1.00			4532.00	
Recorder	0.00	8368	Inside	4532.00	
Recorder	0.00	6771	Outside	4532.00	
Perforations	11.00			4543.00	
Bullnose	5.00			4548.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37019

DST#: 4

ATTN: Ted Jochems

Test Start: 2010.03.04 @ 05:15:53

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud 100% oil spots in tool	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

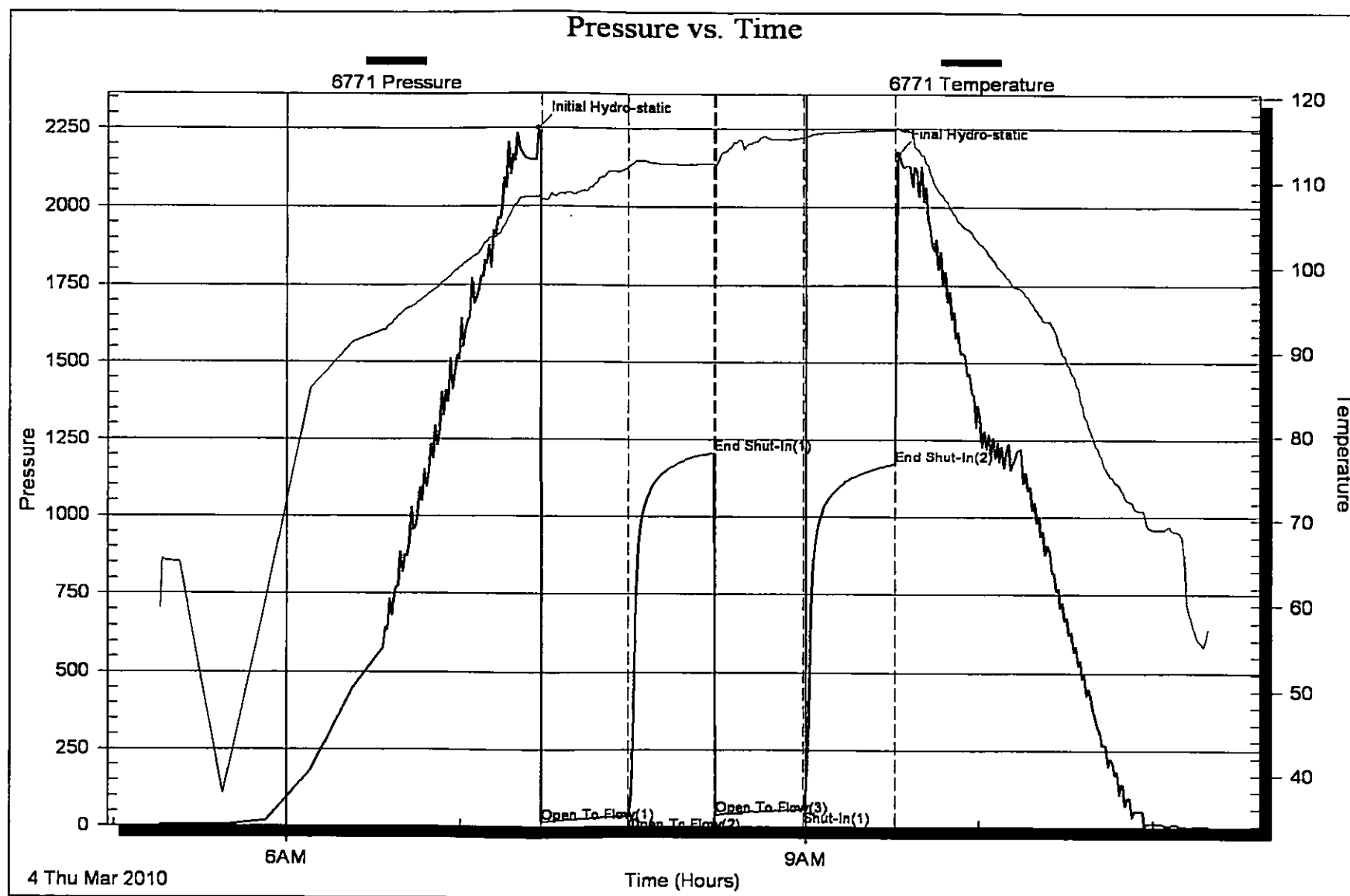
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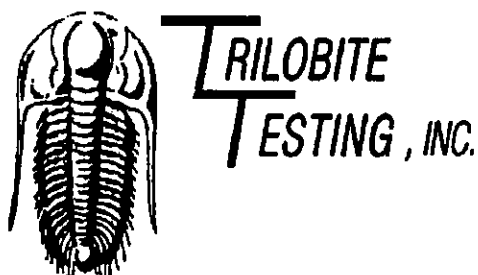
Serial #: 6771

Outside Ritchie Exploration Inc

8 14s 31w Gove, KS

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

8 14s 31w Gove, KS

Rebarchek 8A #1

Start Date: 2010.03.04 @ 22:35:33

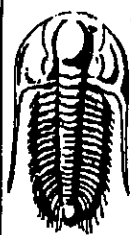
End Date: 2010.03.05 @ 05:50:12

Job Ticket #: 37020 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

Ritchie Exploration Inc

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jochems

Rebarchek 8A #1

8 14s 31w Gove, KS

Job Ticket: 37020

DST#: 5

Test Start: 2010.03.04 @ 22:35:33

GENERAL INFORMATION:

Formation: **Morrow sand**

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

Time Tool Opened: 00:42:28

Time Test Ended: 05:50:12

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **40**

Interval: **4547.00 ft (KB) To 4592.00 ft (KB) (TVD)**

Total Depth: **4592.00 ft (KB) (TVD)**

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

Reference Elevations: **2915.00 ft (KB)**

2905.00 ft (CF)

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

Serial #: **6771**

Outside

Press@RunDepth: **37.79 psig @ 4548.00 ft (KB)**

Start Date: **2010.03.04**

End Date:

2010.03.05

Start Time: **22:35:33**

End Time:

05:37:12

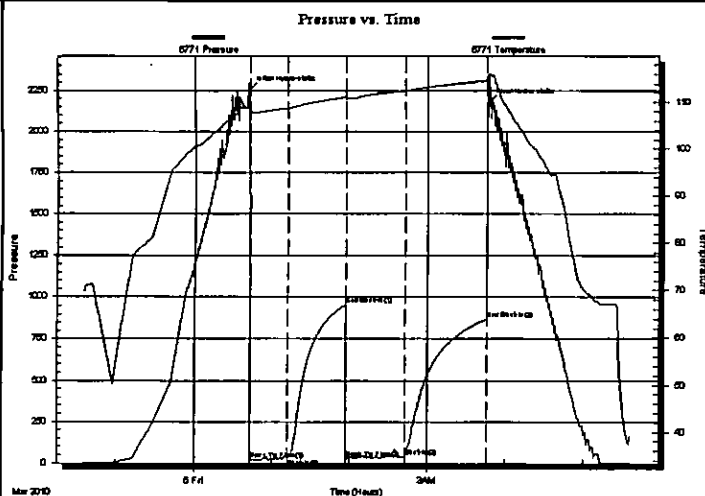
Capacity: **8000.00 psig**

Last Calib.: **2010.03.05**

Time On Btm: **2010.03.05 @ 00:42:13**

Time Off Btm: **2010.03.05 @ 03:46:58**

TEST COMMENT: 1" in. blow
No return
Weak surface blow in 6 min.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.16	108.65	Initial Hydro-static
1	19.79	107.94	Open To Flow (1)
30	27.55	108.77	Shut-In(1)
75	955.21	111.09	End Shut-In(1)
76	30.61	110.80	Open To Flow (2)
121	37.79	112.46	Shut-In(2)
184	867.75	114.67	End Shut-In(2)
185	2177.30	115.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100% m	0.15

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37020

DST#: 5

ATTN: Ted Jochems

Test Start: 2010.03.04 @ 22:35:33

Tool Information

Drill Pipe:	Length: 3995.00 ft	Diameter: 3.80 inches	Volume: 56.04 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: 539.00 ft	Diameter: 2.25 inches	Volume: 2.65 bbl	Weight to Pull Loose: 95000.00 lb
			Total Volume: 58.69 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4547.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 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			4528.00	
Shut In Tool	5.00			4533.00	
Hydraulic tool	5.00			4538.00	
Packer	5.00			4543.00	20.00 Bottom Of Top Packer
Packer	4.00			4547.00	
Stubb	1.00			4548.00	
Recorder	0.00	8368	Inside	4548.00	
Recorder	0.00	6771	Outside	4548.00	
Perforations	5.00			4553.00	
Change Over Sub	1.00			4554.00	
Drill Pipe	32.00			4586.00	
Change Over Sub	1.00			4587.00	
Bullnose	5.00			4592.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Rebarchek 8A #1

PO Box 783188
Wichita, KS 67278

8 14s 31w Gove, KS

Job Ticket: 37020

DST#: 5

ATTN: Ted Jochems

Test Start: 2010.03.04 @ 22:35:33

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.74 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%r	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

