

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

6/11/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3118
Contact Person: John Niemberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Ted Jochems
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____

<u>2/24/10</u>	<u>3/5/10</u>	<u>3/6/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 063-21827-00-00
Spot Description: 65' N & 110' W
NE SW NE Sec. 8 Twp. 14 S. R. 31 East West
1585 Feet from North / South Line of Section
1760 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Rebarchek 8A Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 2905 Kelly Bushing: 2915
Total Depth: 4655 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan DAMS 6-21-10
(Data must be collected from the Reserve Pit)
Chloride content: 15000 ppm Fluid volume: 1000 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: _____
Title: Production Manager Date: 6/11/10
Subscribed and sworn to before me this 11th day of June, 20 10.
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11


DEBRA K. PHILLIPS
Notary Public - State of Kansas
My Appt. Expires 5-4-11

KCC Office Use ONLY

Letter of Confidentiality Received 6-11-10
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 14 2010

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Ritchie Exploration, Inc. Lease Name: Rebarchek 8A Well #: 1
 Sec. 8 Twp. 14 S. R. 31 East West County: Gove

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED <div style="text-align: right;"> KCC JUN 11 2010 CONFIDENTIAL </div>
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	23	220	Common	175	3%cc, 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
		RECEIVED KANSAS CORPORATION COMMISSION JUN 14 2010 CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Entr. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours _____	Oil Bbbls. _____	Gas Mcf _____	Water Bbbls. _____ Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Rebarchek 8A

1585' FNL & 1760' FEL

65' N & 110' W of NE SW NE Section 8-14S-31W

Gove County, Kansas

API# 15-063-21827-0000

Elevation: GL: 2905', KB: 2915'

Sample Tops			Ref. Well
Anhydrite	2394'	+521	-7
B/Anhydrite	2418'	+497	-7
Heebner	3918'	-1003	-15
Lansing	3959'	-1044	-13
Lansing "C"	3994'	-1079	-16
Lansing "D"	4013'	-1098	-17
Lansing "E"	4045'	-1130	-16
Muncie Shale	4118'	-1203	-16
Lansing "H"	4130'	-1215	-14
Lansing "I"	4154'	-1239	-15
Lansing "J"	4183'	-1268	-26
Lansing "K"	4215'	-1300	-16
Hush.	4241'	-1326	-18
Lansing "L"	4252'	-1337	-17
BKC	4286'	-1371	-17
Marmaton	4304'	-1389	-13
Altamont	4326'	-1411	-18
Pawnee	4400'	-1485	-17
Myric	4438'	-1523	-15
Fort Scott	4456'	-1541	-16
Cherokee Shale	4484'	-1569	-18
Johnson	4525'	-1610	-17
Morrow Sand	4572'	-1657	-24
Mississippian	4590'	-1675	-10
RTD	4655'	-1740	

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KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
WICHITA, KS

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328

ALLIED CEMENTING CO., LLC. 043594

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
OKLEY

DATE <u>2-25-10</u>	SEC. <u>8</u>	TWP. <u>14S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>2:00 PM</u>	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:00 PM</u>
REBAR/LEASER <u>REBAR/LEASER</u>	WELL # <u>8A #1</u>	LOCATION <u>OKLEY 115-7E-7S-1/2W-5EW</u>			COUNTY <u>GOVE</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR MURFIN OIL & GAS #14

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 220'

CASING SIZE 8 7/8" DEPTH 220'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

DISPLACEMENT 13 BB/s

OWNER SAME

CEMENT AMOUNT ORDERED 175 SKS com 32cc 2892'

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

431 HELPER KELLY

BULK TRUCK

377 DRIVER JERRY

BULK TRUCK

_____ DRIVER _____

COMMON	<u>175 SKS</u>	@	<u>15.75</u>	<u>2703.75</u>
POZMIX		@		
GEL	<u>3 SKS</u>	@	<u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>184 SKS</u>	@	<u>2.40</u>	<u>441.60</u>
MILEAGE	<u>104 PER BK / MDE</u>			<u>368.00</u>
TOTAL				<u>3924.75</u>

REMARKS:

CEMENT OK CIRC.

SERVICE

DEPTH OF JOB	<u>220'</u>			
PUMP TRUCK CHARGE				<u>1018.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>20 MZ</u>	@	<u>7.29</u>	<u>145.80</u>
MANIFOLD		@		
		@		
		@		
TOTAL				<u>1158.80</u>

CHARGE TO: RECHIE EXPLORATION

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
TOTAL _____			

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side:

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Greg Umuk

SIGNATURE Greg Umuk

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JUN 11 2010
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KANSAS CORPORATION COMMISSION
JUN 14 2010
CONSERVATION DIVISION
WICHITA, KS

[Handwritten initials]

ALLIED CEMENTING CO., LLC. 039137

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Oakley, KS

Redmond

DATE <u>3/6/10</u>	SEC. <u>8</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>9:00 AM</u>	JOB START <u>8:30 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE	WELL # <u>8A #1</u>	LOCATION <u>Oakley 11 S 5 E 7 S 1/2 W</u>			COUNTY <u>Greene</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>Studs</u>			

CONTRACTOR Myers 14

TYPE OF JOB PTA

HOLE SIZE 2 1/8" T.D.

CASING SIZE 8 7/8" DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2" DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 220 SK, 60/40

4070 gal 74 lb Flo Seal

COMMON	<u>132</u>	@	<u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88</u>	@	<u>8.00</u>	<u>704.00</u>
GEL	<u>8</u>	@	<u>20.00</u>	<u>160.00</u>
CHLORIDE		@		
ASC		@		
<u>Flo Seal</u>	<u>55 lb</u>	@	<u>2.50</u>	<u>137.50</u>
HANDLING	<u>231 SK</u>	@	<u>2.42</u>	<u>559.40</u>
MILEAGE	<u>109 SK/mile</u>			<u>462.70</u>
TOTAL				<u>4063.00</u>

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EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

377 DRIVER Jeremy

BULK TRUCK

DRIVER

REMARKS:

25 SK @ 2410

100 SK @ 1430

40 SK @ 270

10 SK @ 40'

30 SK @ Rat Hole

15 SK @ Mouse Hole

20'

*Thank You
Alan, Wayne, Jeremy*

SERVICE

DEPTH OF JOB 2410'

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE @

MILEAGE 20 @ 2.00 740.00

MANIFOLD @

TOTAL 1325.00

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

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KANSAS CORPORATION COMMISSION
JUN 14 2010
CONSERVATION DIVISION
WICHITA, KS

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike McKampson

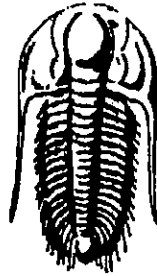
SIGNATURE Mike McKampson

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

TR



**TRILOBITE
TESTING, INC.**

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 1 1 2010
CONFIDENTIAL**

**RECEIVED
KANSAS CORPORATION COMMISSION**

JUN 14 2010

**CONSERVATION DIVISION
WICHITA, KS**

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

Ritchie Exploration Inc

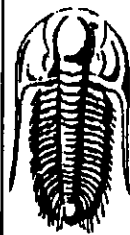
Rebarchek 8A #1

8 14s 31w Gove, KS

DST # 1

E

2010.03.01



**TRIBOLITE
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

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

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

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

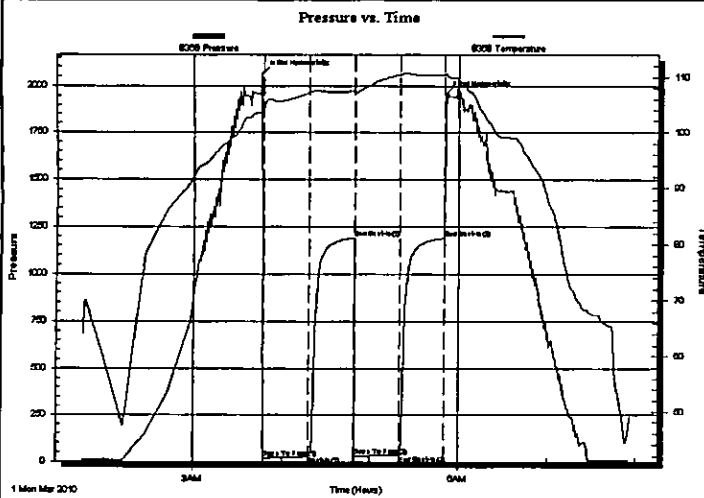
Serial #: 8368

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 SUMMARY

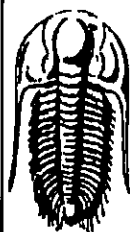
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.56	103.62	Initial Hydro-static
1	20.91	103.76	Open To Flow (1)
32	27.99	107.21	Shut-In(1)
63	1190.68	107.57	End Shut-In(1)
63	29.61	106.88	Open To Flow (2)
94	36.85	110.36	End Shut-In(2)
124	1187.39	110.34	End Shut-In(3)
125	1956.31	110.49	Final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

Recovery

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

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)



**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 Jochens

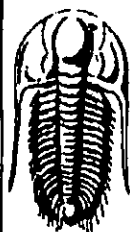
Test Start: 2010.03.01 @ 01:46:03

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
			<u>Total Volume: 51.59 bbl</u>	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 Jochers

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:

bbbl

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

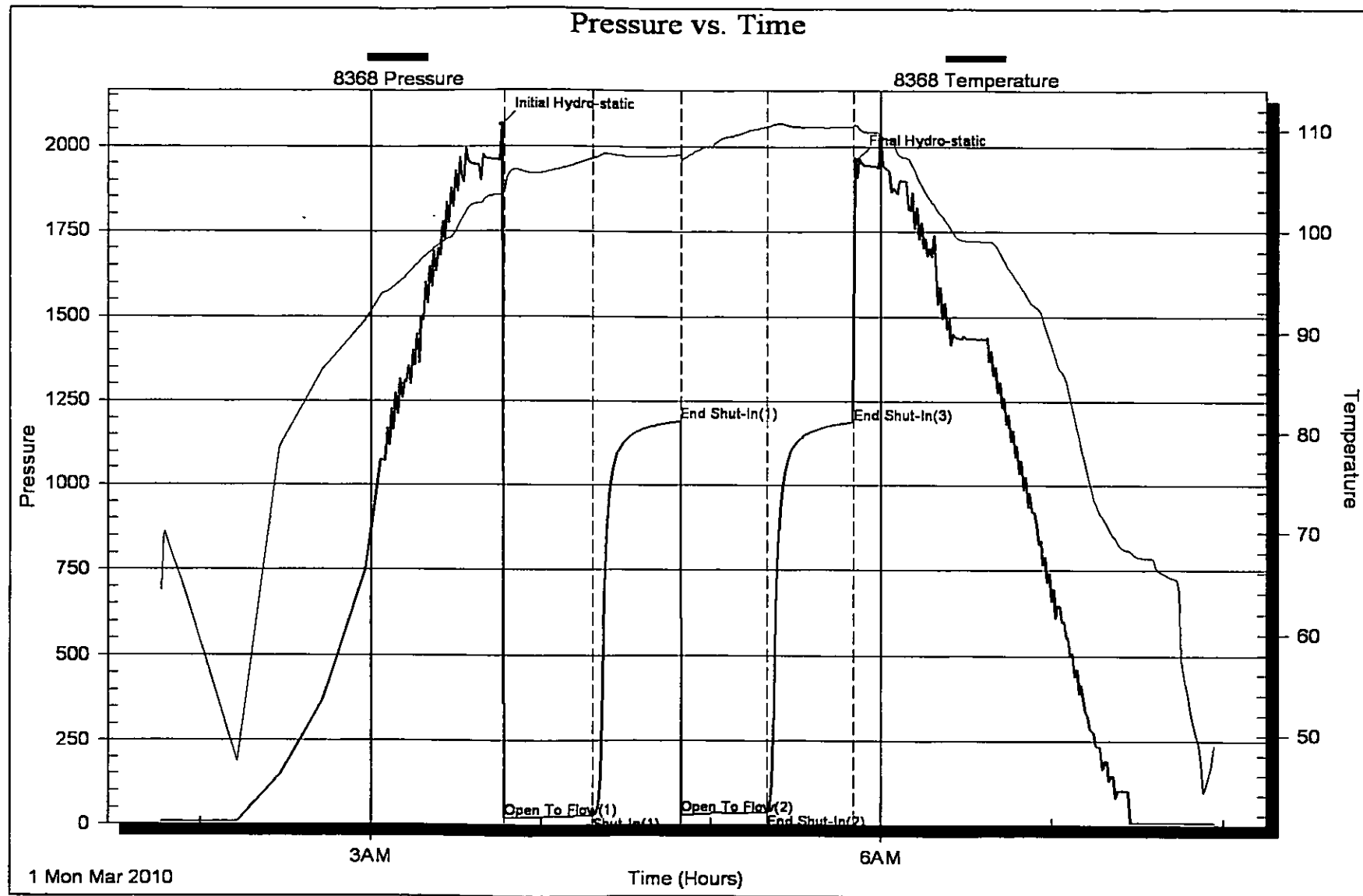
Num Gas Bombs: 0

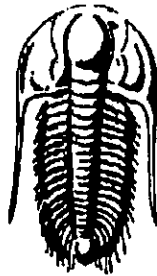
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

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

Ritchie Exploration Inc

Rebarchek 8A #1

8 14s 31w Gove, KS

DST # 2

H

2010.03.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

PO Box 783188
Wichita, KS 67278

ATTN: Ted Jocherns

Rebarchek 8A #1

8 14s 31w Gove, KS

Job Ticket: 37017

DST#: 2

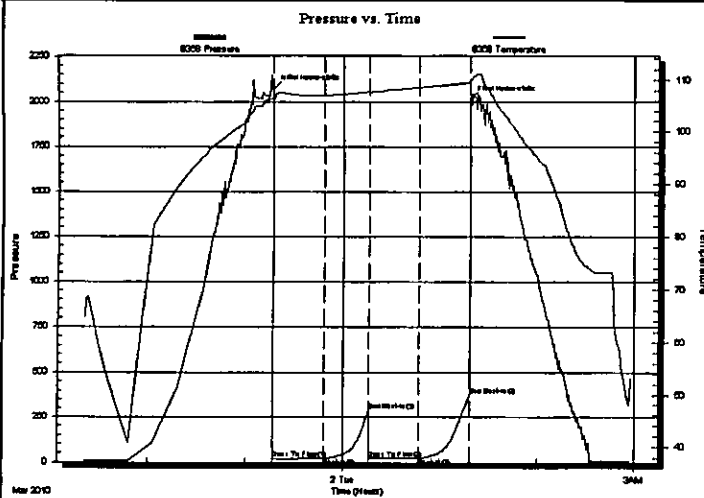
Test Start: 2010.03.01 @ 21:21:13

GENERAL INFORMATION:

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

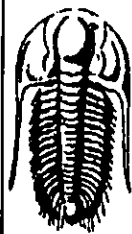
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.93	106.78	Initial Hydro-static
1	21.83	105.91	Open To Flow (1)
32	22.87	107.02	Shut-In(1)
60	283.70	107.72	End Shut-In(1)
60	22.10	107.55	Open To Flow (2)
91	24.68	108.51	Shut-In(2)
122	370.73	109.55	End Shut-In(2)
123	2015.83	110.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**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
			<u>Total Volume: 52.91 bbl</u>	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
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: 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 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: 7.14 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
1.00	mud 100% _m	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

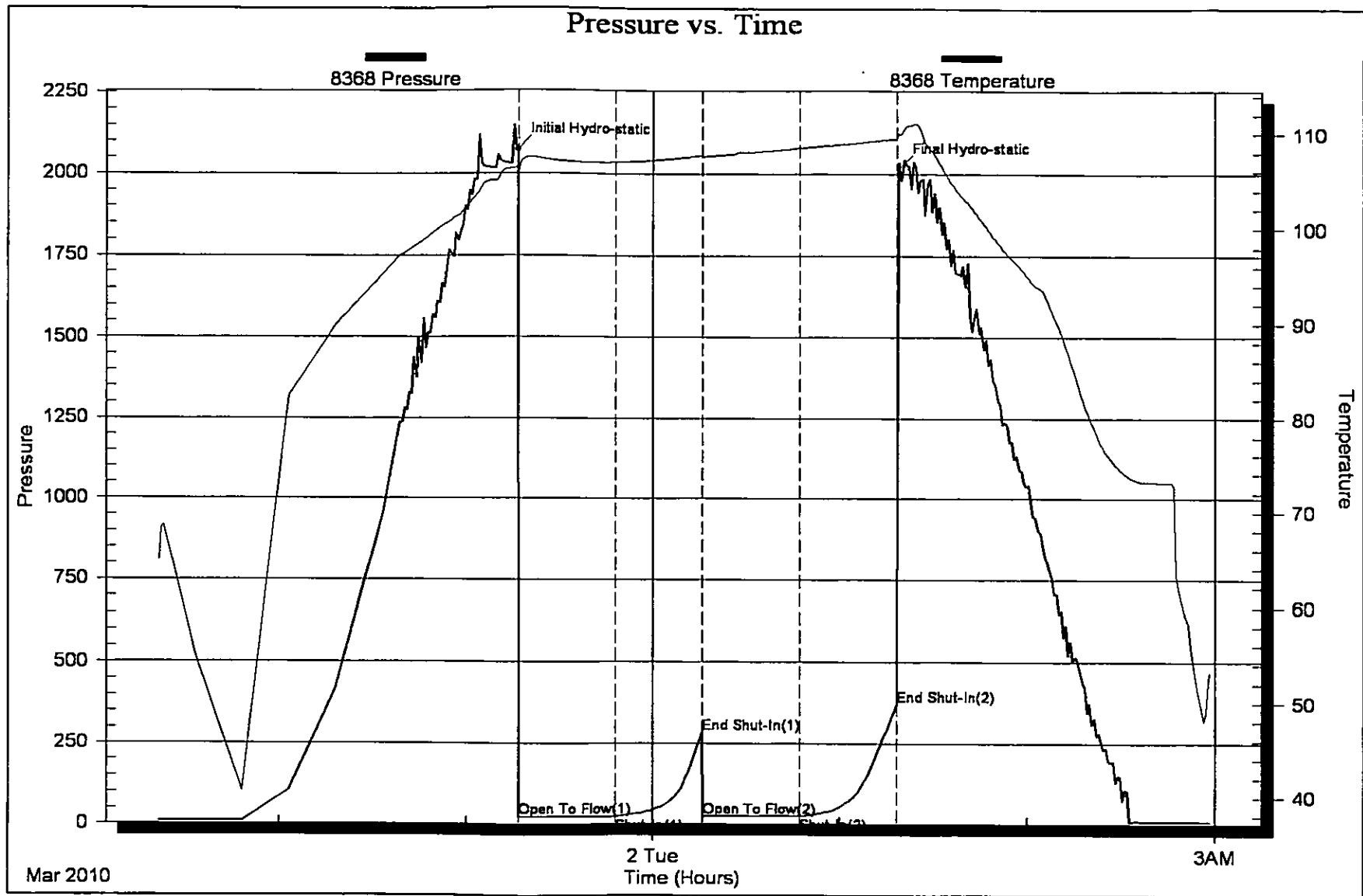
Num Gas Bombs: 0

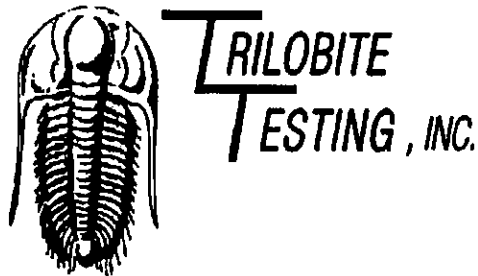
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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

Printed: 2010.03.17 @ 14:31:53 Page 1

Ritchie Exploration Inc

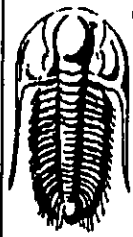
Rebarchek 8A #1

8 14s 31w Gove, KS

DST # 3

Johnson

2010.03.03



**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

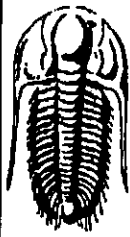
Tool Information

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
			<u>Total Volume: 58.24 bbl</u>	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

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 Jocherns

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

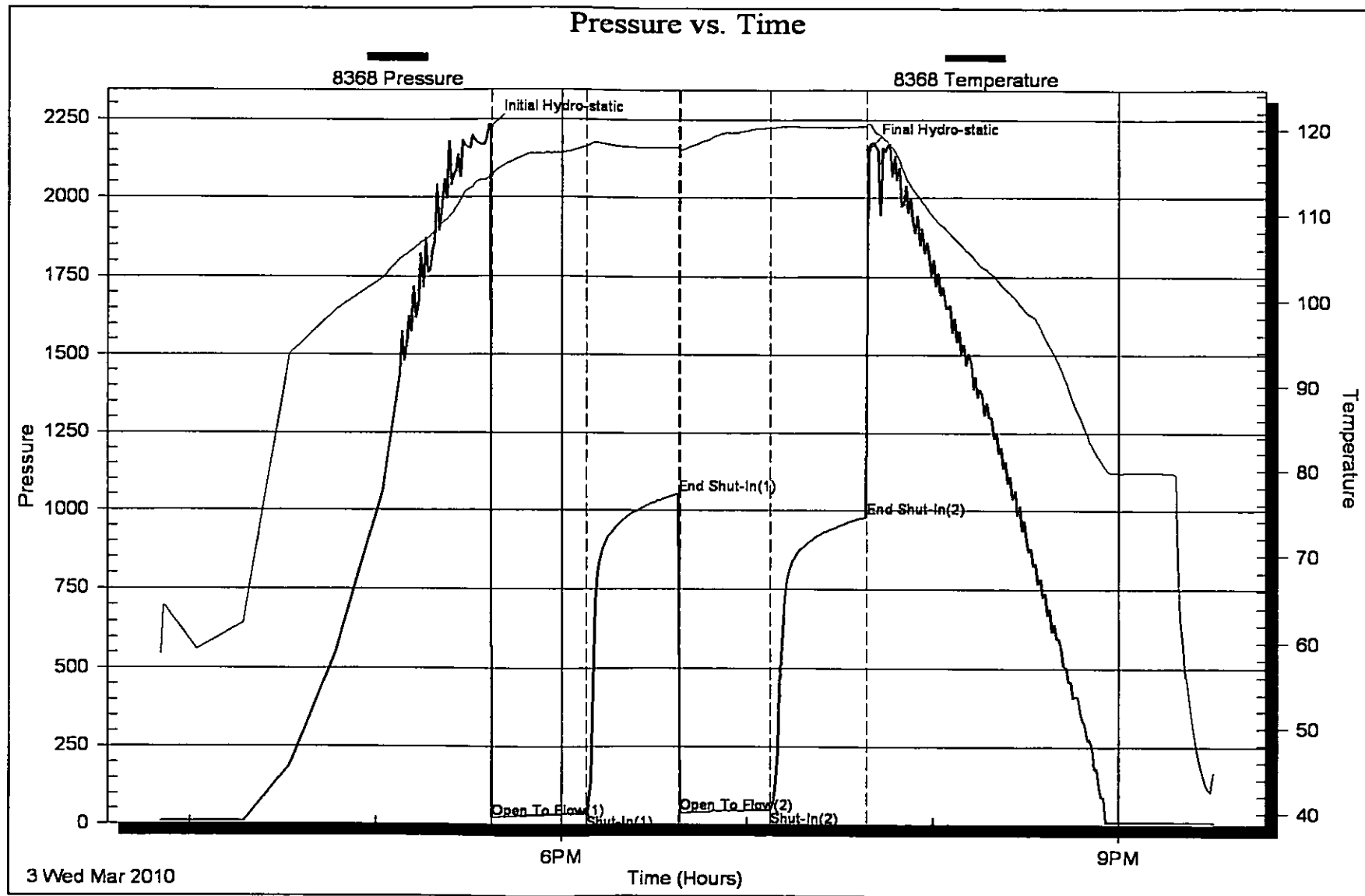
Num Gas Bombs: 0

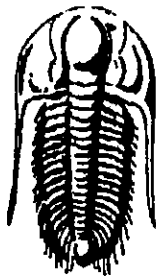
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

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

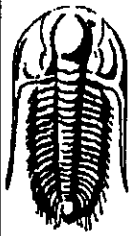
End Date: 2010.03.04 @ 11:35:02

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

Ritchie Exploration Inc
PO Box 783188
Wichita, KS 67278
ATTN: Ted Jochens

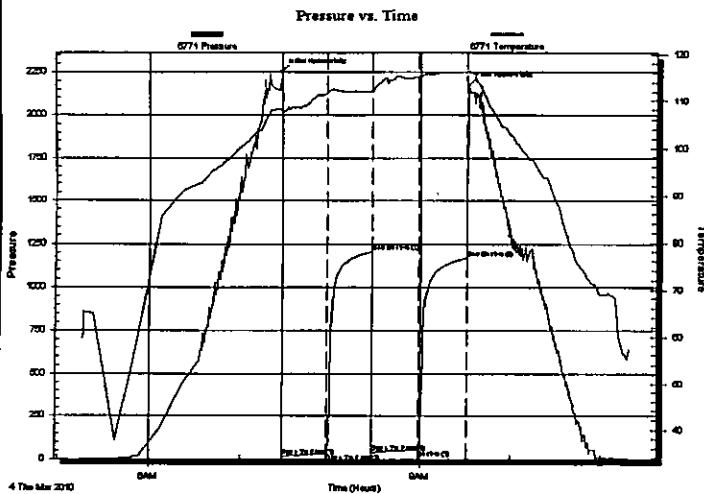
Rebarchek 8A #1
8 14s 31w Gove, KS
Job Ticket: 37019 DST#: 4
Test Start: 2010.03.04 @ 05:15:53

GENERAL INFORMATION:

Formation: **lower johnson**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 07:28:03
Time Test Ended: 11:35:02
Interval: **4531.00 ft (KB) To 4548.00 ft (KB) (TVD)**
Total Depth: **4548.00 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 #: 6771 Outside
Press@RunDepth: **55.69 psig @ 4532.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.03.04** End Date: **2010.03.04** Last Calib.: **2010.03.04**
Start Time: **05:15:53** End Time: **11:19:02** Time On Btm: **2010.03.04 @ 07:27:03**
Time Off Btm: **2010.03.04 @ 09:31:48**

TEST COMMENT: Weak blow died in 20 min
No return
No blow, flush tool, good surge, surface blow died in 12 min.
No return



PRESSURE SUMMARY

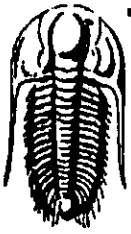
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.27	108.18	Initial Hydro-static
1	15.11	107.87	Open To Flow (1)
31	34.14	111.70	Open To Flow (2)
61	1206.19	112.20	End Shut-in(1)
62	37.63	111.94	Open To Flow (3)
92	55.69	115.26	Shut-in(1)
124	1168.72	116.17	End Shut-in(2)
125	2168.85	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud 100% oil spots in tool	0.44

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**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
			<u>Total Volume: 58.72 bbl</u>	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	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

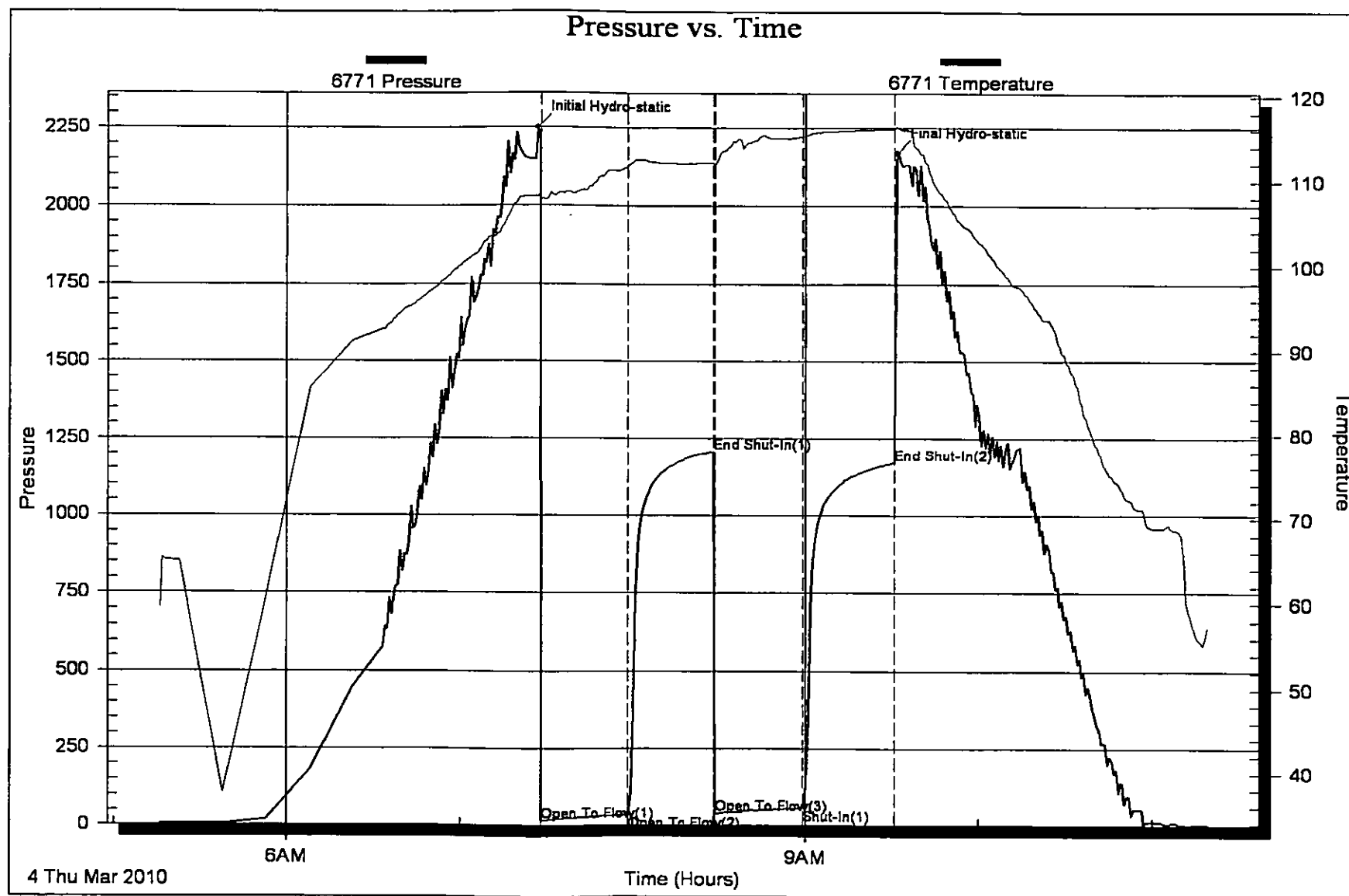
Num Gas Bombs: 0

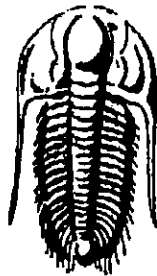
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

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

Ritchie Exploration Inc

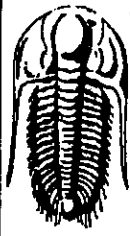
Rebarchek 8A #1

8 14s 31w Gove, KS

DST # 5

Morrow sand

2010.03.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc
PO Box 783188
Wichita, KS 67278
ATTN: Ted Jochems

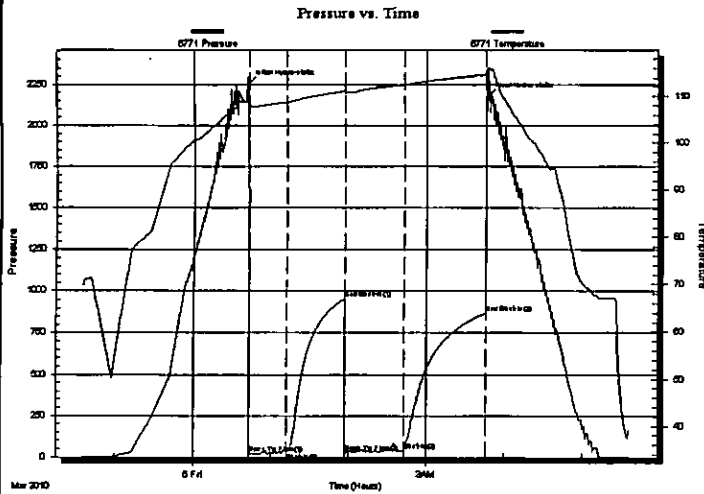
Rebarchek 8A #1
8 14s 31w Gove, KS
Job Ticket: 37020 DST#: 5
Test Start: 2010.03.04 @ 22:35:33

GENERAL INFORMATION:

Formation: **Morrow sand**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 00:42:28
Time Test Ended: 05:50:12
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**
Test Type: **Conventional Bottom Hole**
Tester: **Shane McBride**
Unit No: **40**

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

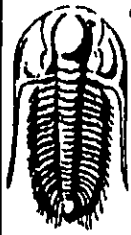
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.16	108.65	Initial Hydro-static
1	19.79	107.94	Open To Flow (1)
30	27.55	108.77	Shut-In(1)
75	955.21	111.09	End Shut-In(1)
76	30.61	110.80	Open To Flow (2)
121	37.79	112.46	Shut-In(2)
184	867.75	114.67	End Shut-In(2)
185	2177.30	115.87	Final Hydro-static

Recovery

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

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**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
			<u>Total Volume: 58.69 bbl</u>	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 Jocherns

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%m	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:

