



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090577
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., 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 Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1090577

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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 <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Simons 14CD 1
Doc ID	1090577

Tops

Name	Top	Datum
Anhydrite	2469	+708
B/Anhydrite	2488	+689
Heebner	4024	-847
Lansing	4075	-898
BKC	4452	-1275
Altamont	4506	-1329
Johnson	4784	-1607
Morrow	4812	-1635
Mississippian	4901	-1724
RTD	5000	-1823

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 14, 2012

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-203-20177-00-00
Simons 14CD 1
SE/4 Sec.14-17S-35W
Wichita County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
John Niernberger



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 34523
LOCATION Oakley, KS
FOREMAN Kelly Gabe

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-8-12	7173	Simons 14CD #1	14	17	35	Wichita	
CUSTOMER		MAILING ADDRESS		TRUCK #	DRIVER	TRUCK #	DRIVER
Ritchie Expl.		5000		456	Miles S		
CITY		STATE	ZIP CODE	466	Cody R		

JOB TYPE Prod HOLE SIZE 2 7/8 HOLE DEPTH 5000 CASING SIZE & WEIGHT 4 1/2 10.5#
 CASING DEPTH 4997 DRILL PIPE _____ TUBING PC top of #61 OTHER PC @ 2439
 SLURRY WEIGHT 13# SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 21.44
 DISPLACEMENT 79 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 bbl/min

REMARKS: safety Meeting, Rigged up on Muffin drilling Rig #14,
hooked up to circulate for 1hr, pumped 5 bbl water, mud flush,
5 bbl water, Mixed 30 sks 60/40 Poz 40 gel 1/4" Flo-seal in RN 20 sks MH
Mixed 250 sks OWC 5# Kol-seal, 2500 CDI 26, Washed out pumps & lines
released plug, displaced with 20 bbl water @ 700# with 20# lift
pressure, plug landed @ 1500#, Released Pressure, float held,
washed out pumps & lines rigged down
PC top of #61

Center JT #1, 9, 14, 16, 19, 60, 62 Baskets 61, 81, 102

*Thank You
Kelly & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020.00	3020.00
5406	40	MILEAGE	5.00	200.00
1126	250 sks	OWC	22.55	5637.50
110A	1250 #	Kol-seal	.56	700.00
1137	65 #	CDI-26	9.69	629.85
1131	50 sks	60/40 POZ	15.10	755.00
1118B	172 #	Bentonite	.25	43.00
1107	12 #	Flo-seal	2.82	33.84
5407	15.15	Ton Mileage delivery	16.7	1012.00
4201	1	4 1/2" Guideshoe (I)	138.00	138.00
4226	1	4 1/2 AFU insert (I)	193.00	193.00
4129	7	4 1/2 Turbo centralizer (I)	46.00	322.00
2103	3	4 1/2 Basket (2-I) (L-W)	261.00	783.00
3284	1	4 1/2 Port collar (I)	1890.00	1890.00
1144G	500 gal	mud flush	1.00	500.00
				15,857.19
				15,85.72
				14,271.47
			SALES TAX	868.41
			ESTIMATED TOTAL	15139.88

4:00 PM AUTHORIZATION [Signature] TITLE 249661 DATE 5-8-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

ALLIED CEMENTING CO., LLC. 035953

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
OAKLEY

DATE <u>4-23-12</u>	SEC. <u>14</u>	TWP. <u>17S</u>	RANGE <u>35W</u>	CALLED OUT	ON LOCATION <u>6:30 PM</u>	JOB START <u>9:00 AM</u>	JOB FINISH <u>9:30 AM</u>
SEMONS 1400 LEASE		WELL# <u>1</u>		LOCATION <u>Scott city 12W to CO. LINE</u>		COUNTY <u>Wichita</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)		6 N - 1/2 W - NORTH #370					

CONTRACTOR <u>MANIFOLD DRILL RIG # 14</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4"</u> T.D. <u>258'</u>	CEMENT
CASING SIZE <u>8 3/8"</u> DEPTH <u>258'</u>	AMOUNT ORDERED
TUBING SIZE DEPTH	<u>185 SKS COM 37% CC 280 GEL</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>185 SKS @ 16 25 3006 25</u>
MBAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GBL <u>4 SKS @ 21 25 85 25</u>
PERFS.	CHLORIDE <u>7 SKS @ 58 25 407 25</u>
DISPLACEMENT <u>15 1/2 BBLs</u>	ASC @

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>TEARY</u>
# <u>431</u>	HELPER	<u>DANE</u>
BULK TRUCK		
# <u>378 & 308</u>	DRIVER	<u>ETHAN</u>
BULK TRUCK		
#	DRIVER	

HANDLING <u>20015' CU FT @ 2 10 420 25</u>
MILEAGE <u>9.17 TONS X 62 X 2.35 1370 25</u>
TOTAL <u>5249 25</u>

REMARKS:

RUN SURFACE PIPE TO 258' Hook ON TO 8 3/8" CASING & CIRCULATE FOR 10 mins. MAX 185 SKS COM 37% CC 280 GEL, DISPLACE WITH 15 1/2 BBLs WATER.

CEMENT used CIRCULATE 3 BBLs TO PET.

THANK YOU

CHARGE TO: RITONE EXPLORATION
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>258'</u>	
PUMP TRUCK CHARGE <u>1125</u>	
EXTRA FOOTAGE @	
MILEAGE <u>62 mi @ N/C N/C</u>	
MANIFOLD & HEAD @ <u>200 25</u>	
LUM <u>62 @ N/C</u>	
<u>NO mileage charge 2nd well</u>	
TOTAL <u>1325 25</u>	

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.

PRINTED NAME Craig Smith
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

[Signature]



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.04.27 @ 10:51:04

End Date: 2012.04.27 @ 18:00:19

Job Ticket #: 45866 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 15:01:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 45866

DST#: 1

Test Start: 2012.04.27 @ 10:51:04

GENERAL INFORMATION:

Formation: **King Hill**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:52:04

Time Test Ended: 18:00:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 3891.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 3177.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 336.70 psig @ 3892.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.27

End Date:

2012.04.27

Last Calib.:

2012.04.27

Start Time: 10:51:04

End Time:

17:40:19

Time On Btm:

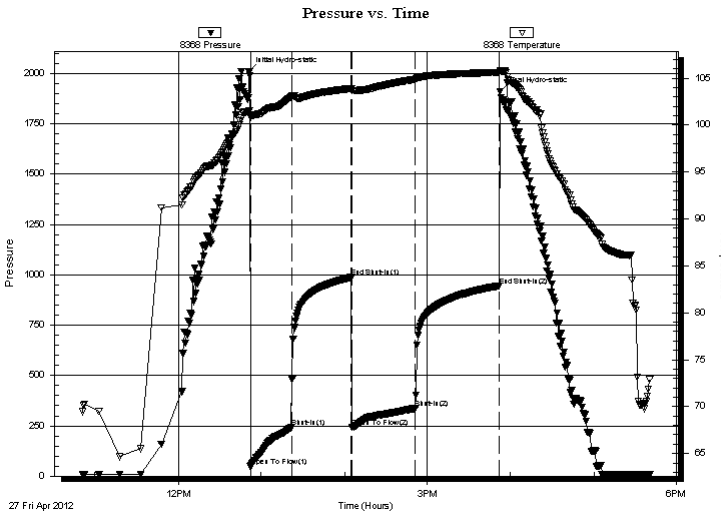
2012.04.27 @ 12:51:19

Time Off Btm:

2012.04.27 @ 15:52:19

TEST COMMENT: 10" blow
No return
7 1/2" blow
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.32	101.48	Initial Hydro-static
1	46.97	100.85	Open To Flow (1)
31	241.23	102.98	Shut-In(1)
74	987.05	103.89	End Shut-In(1)
75	241.48	103.65	Open To Flow (2)
120	336.70	104.87	Shut-In(2)
181	945.32	105.60	End Shut-In(2)
181	1910.05	105.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	s m c w 10% m 90% w	1.72
180.00	m c w 25% m 75% w	0.89
120.00	w c m 30% w 70% m	1.67

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45866

DST#: 1

ATTN: Max Lovely

Test Start: 2012.04.27 @ 10:51:04

Tool Information

Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 49.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	3891.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Jars	5.00			3880.00	
Safety Joint	2.00			3882.00	
Packer	5.00			3887.00	27.00 Bottom Of Top Packer
Packer	4.00			3891.00	
Stubb	1.00			3892.00	
Recorder	0.00	6771	Outside	3892.00	
Recorder	0.00	8368	Inside	3892.00	
Perforations	18.00			3910.00	
Change Over Sub	1.00			3911.00	
Drill Pipe	63.00			3974.00	
Change Over Sub	1.00			3975.00	
Bullnose	5.00			3980.00	89.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 45866
Test Start: 2012.04.27 @ 10:51:04

DST#: 1

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: 20500 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.37 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	s m c w 10%m 90%w	1.721
180.00	m c w 25%m 75%w	0.885
120.00	w c m 30%w 70%m	1.674

Total Length: 650.00 ft Total Volume: 4.280 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .301 @ 76*f= 20,500

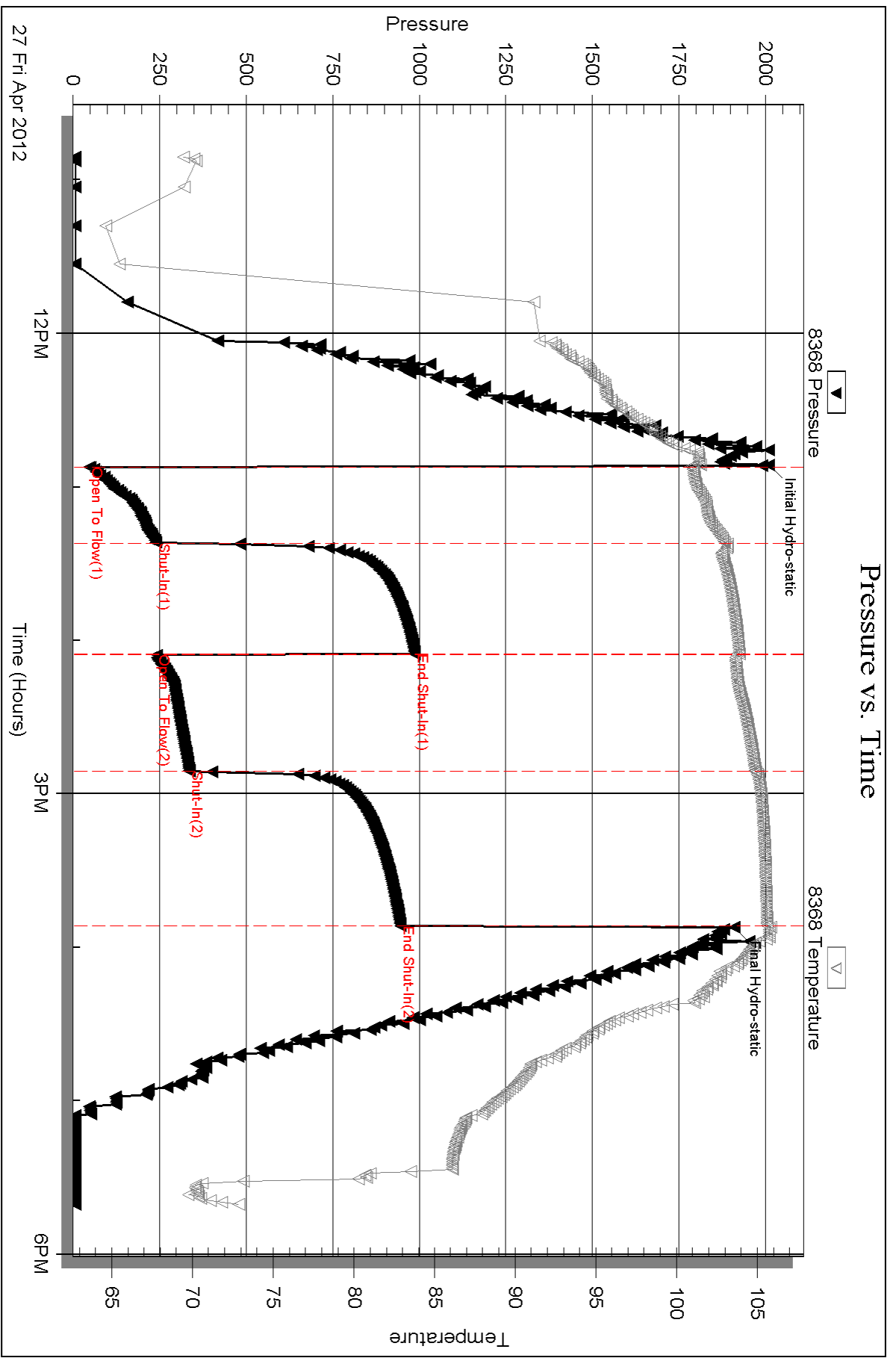
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 45866

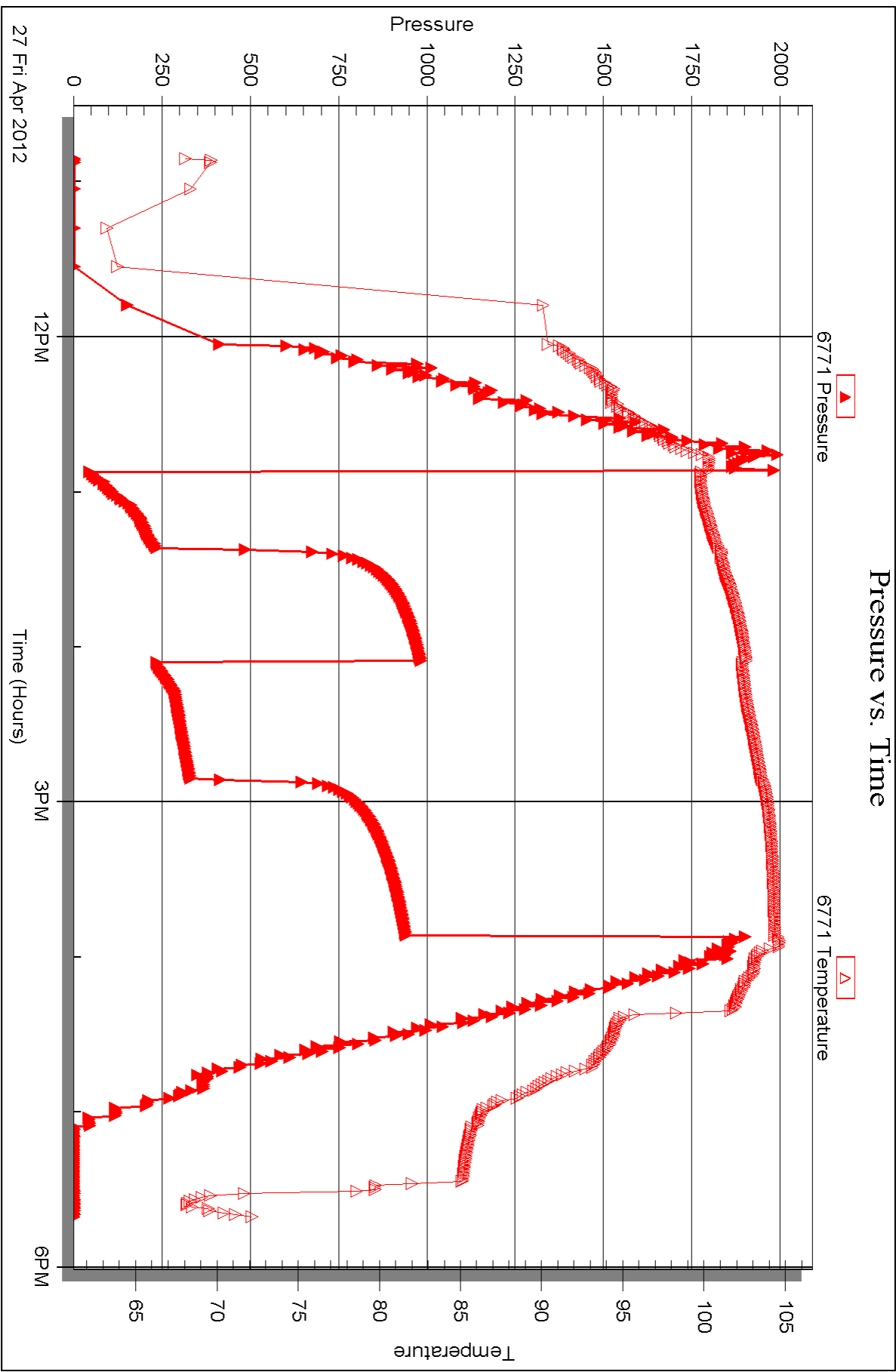
Printed: 2012.05.10 @ 15:01:36

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.04.28 @ 03:40:22

End Date: 2012.04.28 @ 09:35:37

Job Ticket #: 45867 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 15:00:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 45867

DST#: 2

Test Start: 2012.04.28 @ 03:40:22

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:34:37

Time Test Ended: 09:35:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4021.00 ft (KB) To 4060.00 ft (KB) (TVD)

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 76.82 psig @ 4022.00 ft (KB)

Start Date: 2012.04.28

End Date:

2012.04.28

Start Time: 03:40:22

End Time:

09:14:37

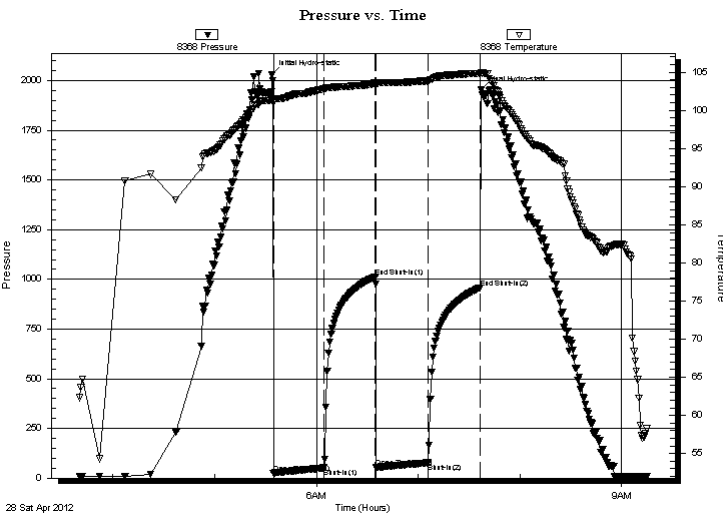
Capacity: 8000.00 psig

Last Calib.: 2012.04.28

Time On Btm: 2012.04.28 @ 05:33:37

Time Off Btm: 2012.04.28 @ 07:37:07

TEST COMMENT: Surface blow died in 12 min
No return
Very weak blow, intermittent surface blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2028.01	101.38	Initial Hydro-static
1	25.31	101.04	Open To Flow (1)
31	51.05	102.77	Shut-In(1)
61	1013.24	103.58	End Shut-In(1)
62	53.46	103.27	Open To Flow (2)
92	76.82	103.86	Shut-In(2)
123	958.13	104.85	End Shut-In(2)
124	1951.48	104.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w/oil spots 100%m	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45867

DST#: 2

ATTN: Max Lovely

Test Start: 2012.04.28 @ 03:40:22

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 51.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4021.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 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			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Jars	5.00			4010.00	
Safety Joint	2.00			4012.00	
Packer	5.00			4017.00	27.00 Bottom Of Top Packer
Packer	4.00			4021.00	
Stubb	1.00			4022.00	
Recorder	0.00	6771	Outside	4022.00	
Recorder	0.00	8368	Inside	4022.00	
Perforations	33.00			4055.00	
Bullnose	5.00			4060.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 45867 **DST#: 2**
Test Start: 2012.04.28 @ 03:40:22

Mud and Cushion Information

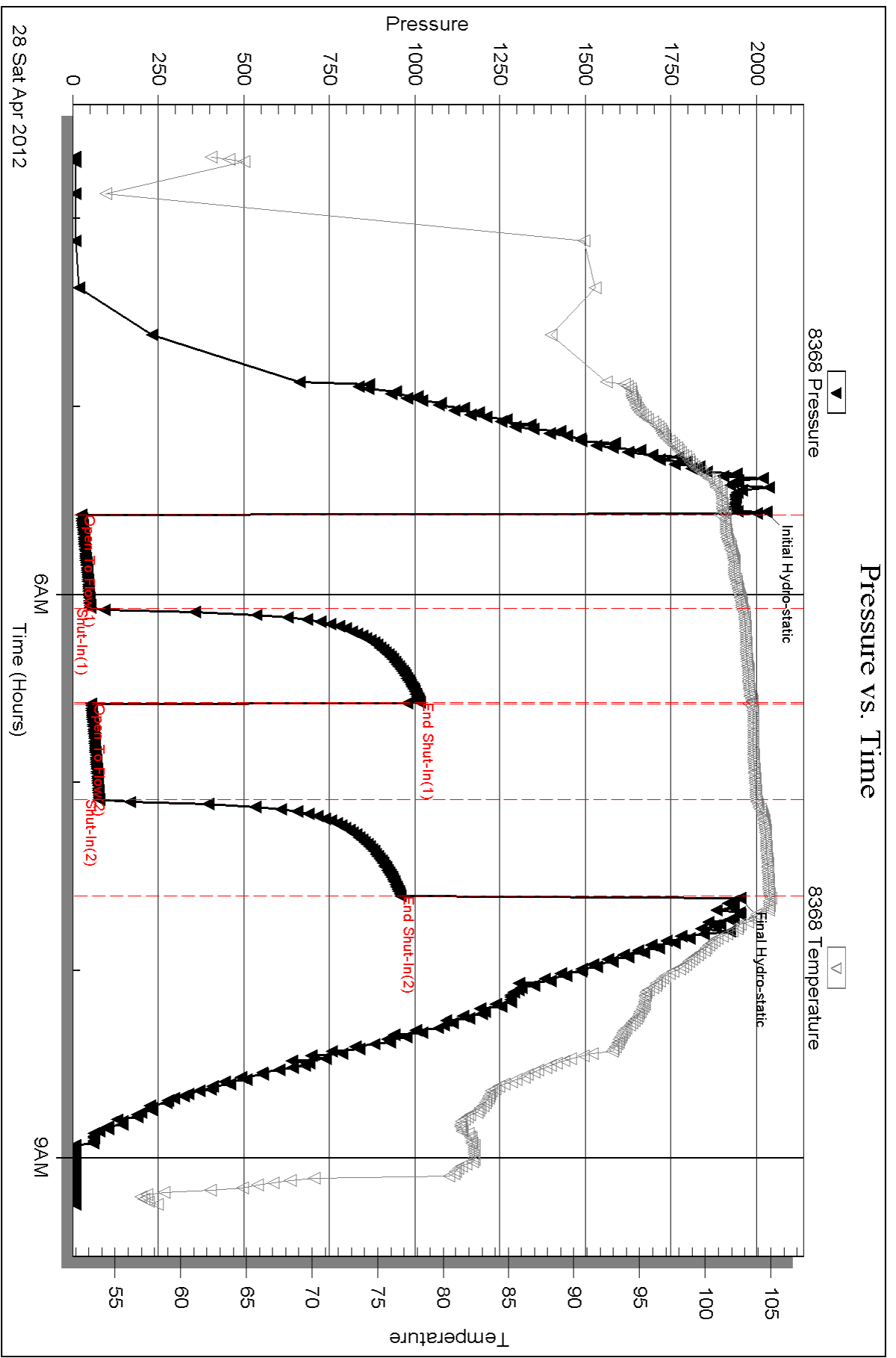
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.36 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud w /oil spots 100%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.04.29 @ 04:18:15

End Date: 2012.04.29 @ 11:53:15

Job Ticket #: 46471 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:59:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46471

DST#: 3

Test Start: 2012.04.29 @ 04:18:15

GENERAL INFORMATION:

Formation: **Lansing C-F**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:49:45

Time Test Ended: 11:53:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: 4101.00 ft (KB) To 4194.00 ft (KB) (TVD)

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4194.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6771

Outside

Press @ Run Depth: 355.23 psig @ 4102.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.29

End Date:

2012.04.29

Last Calib.:

2012.04.29

Start Time: 04:18:15

End Time:

11:53:15

Time On Btm:

2012.04.29 @ 06:49:00

Time Off Btm:

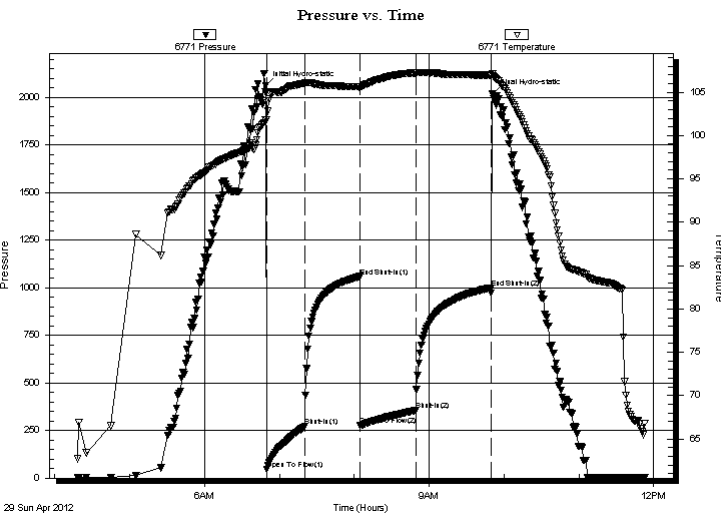
2012.04.29 @ 09:51:15

TEST COMMENT: B.O.B 15 min

No return

built to 8 inch blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.38	101.80	Initial Hydro-static
1	46.86	101.87	Open To Flow (1)
32	270.52	106.00	Shut-In(1)
76	1058.45	105.65	End Shut-In(1)
76	275.69	105.44	Open To Flow (2)
121	355.23	107.22	Shut-In(2)
181	1000.32	106.95	End Shut-In(2)
183	2017.91	106.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
290.00	SOWCMO T/R W10% M90 %	1.43
360.00	MCW M20% W80%	2.85

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46471

DST#: 3

ATTN: Max Lovely

Test Start: 2012.04.29 @ 04:18:15

Tool Information

Drill Pipe:	Length: 3555.00 ft	Diameter: 3.80 inches	Volume: 49.87 bbl	Tool Weight:	2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 52.48 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4101.00 ft			Final	86000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	93.00 ft				
Tool Length:	113.00 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			4082.00	
Shut In Tool	5.00			4087.00	
Hydraulic tool	5.00			4092.00	
Packer	5.00			4097.00	20.00 Bottom Of Top Packer
Packer	4.00			4101.00	
Stubb	1.00			4102.00	
Recorder	0.00	6771	Outside	4102.00	
Recorder	0.00	8368	Inside	4102.00	
Perforations	22.00			4124.00	
Change Over Sub	1.00			4125.00	
Drill Pipe	63.00			4188.00	
Change Over Sub	1.00			4189.00	
Bullnose	5.00			4194.00	93.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 46471
Test Start: 2012.04.29 @ 04:18:15

DST#: 3

Mud and Cushion Information

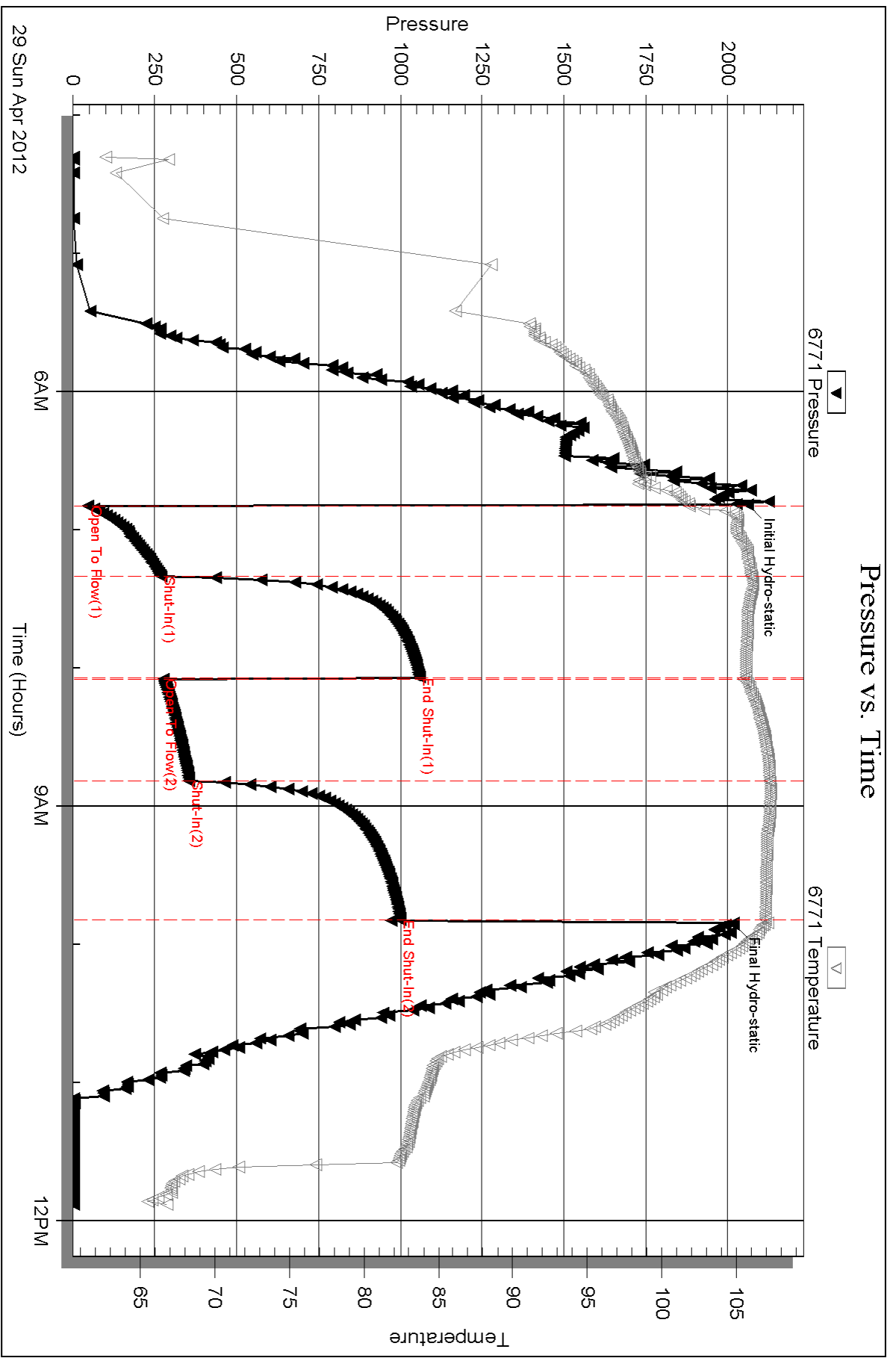
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	30000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.85 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
290.00	SOWCMO T/R W10% M 90 %	1.426
360.00	MCW M 20% W 80%	2.854

Total Length: 650.00 ft Total Volume: 4.280 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .227 @ 69°F=30,000



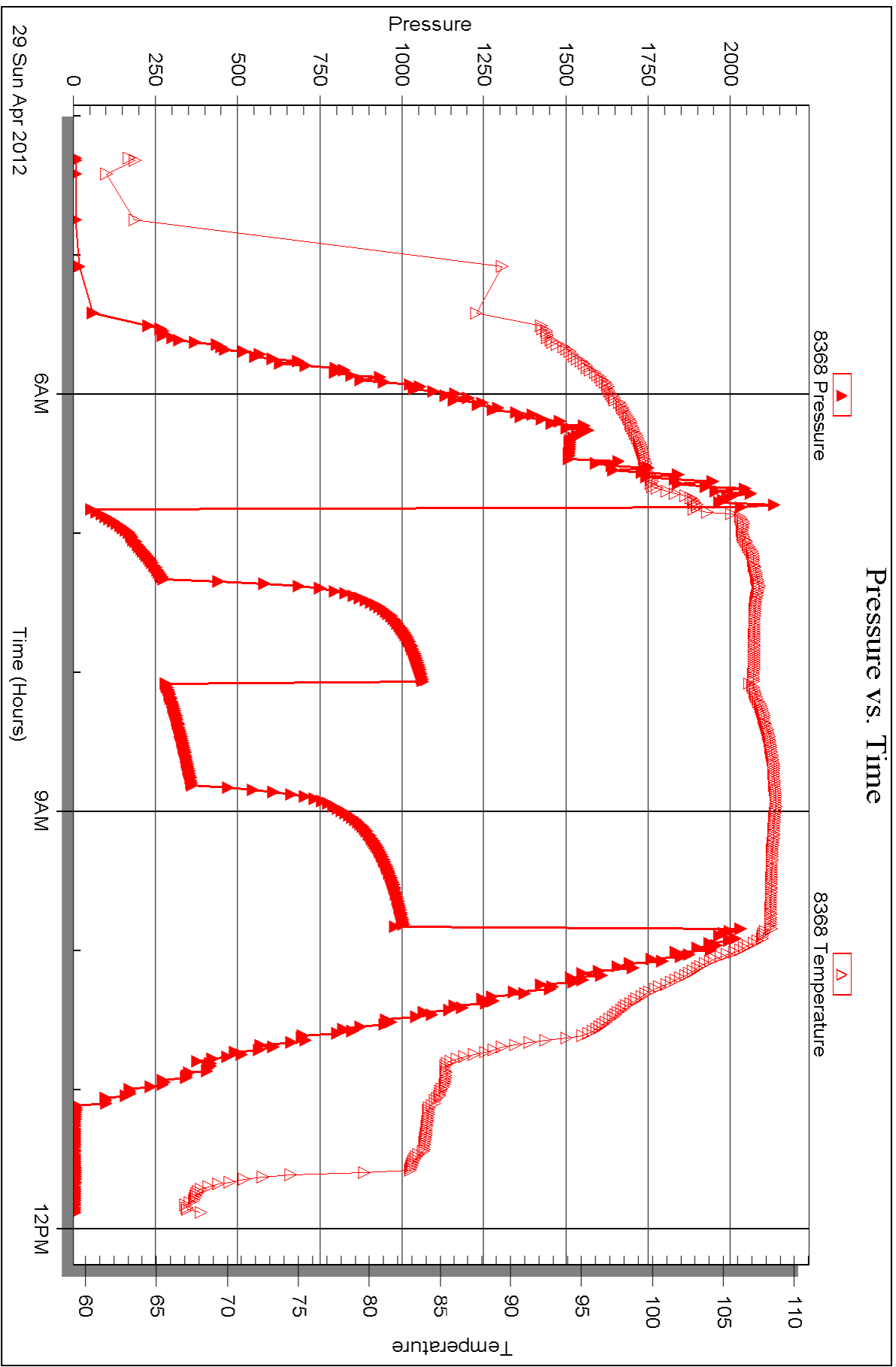
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.04.29 @ 20:05:15

End Date: 2012.04.30 @ 03:55:30

Job Ticket #: 46472 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:57:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46472

DST#: 4

Test Start: 2012.04.29 @ 20:05:15

GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 22:29:45

Time Test Ended: 03:55:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: **4206.00 ft (KB) To 4234.00 ft (KB) (TVD)**

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4234.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 610.26 psig @ 4207.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.29

End Date: 2012.04.30

Last Calib.: 2012.04.30

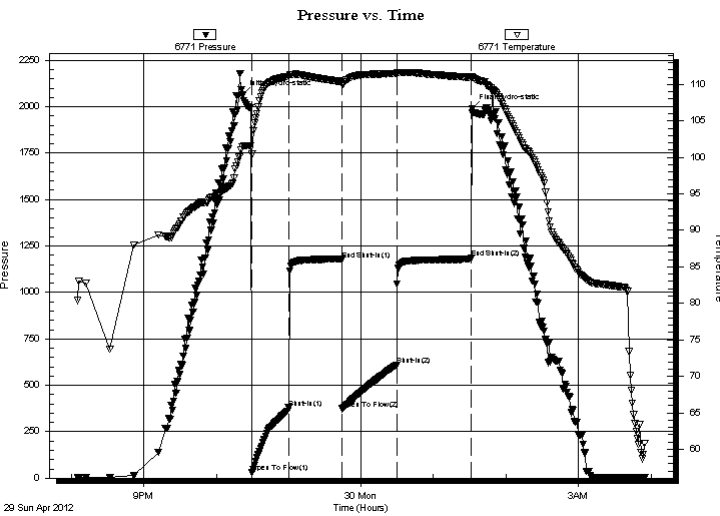
Start Time: 20:05:15

End Time: 03:55:30

Time On Btm: 2012.04.29 @ 22:21:45

Time Off Btm: 2012.04.30 @ 01:32:00

TEST COMMENT: B.O.B 7 min
 No return
 B.O.B 9 min
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.30	101.51	Initial Hydro-static
8	32.52	100.44	Open To Flow (1)
38	378.73	111.10	Shut-In(1)
83	1176.26	110.38	End Shut-In(1)
83	374.03	110.03	Open To Flow (2)
128	610.26	111.45	Shut-In(2)
190	1183.68	110.98	End Shut-In(2)
191	1987.79	111.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
900.00	W 100%	7.79
300.00	MCW M40% W60%	4.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46472

DST#: 4

ATTN: Max Lovely

Test Start: 2012.04.29 @ 20:05:15

Tool Information

Drill Pipe:	Length: 3681.00 ft	Diameter: 3.80 inches	Volume: 51.63 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 54.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4206.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4187.00	
Shut In Tool	5.00			4192.00	
Hydraulic tool	5.00			4197.00	
Packer	5.00			4202.00	20.00 Bottom Of Top Packer
Packer	4.00			4206.00	
Stubb	1.00			4207.00	
Recorder	0.00	6771	Outside	4207.00	
Recorder	0.00	8368	Inside	4207.00	
Perforations	22.00			4229.00	
Bullnose	5.00			4234.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 46472 **DST#: 4**
Test Start: 2012.04.29 @ 20:05:15

Mud and Cushion Information

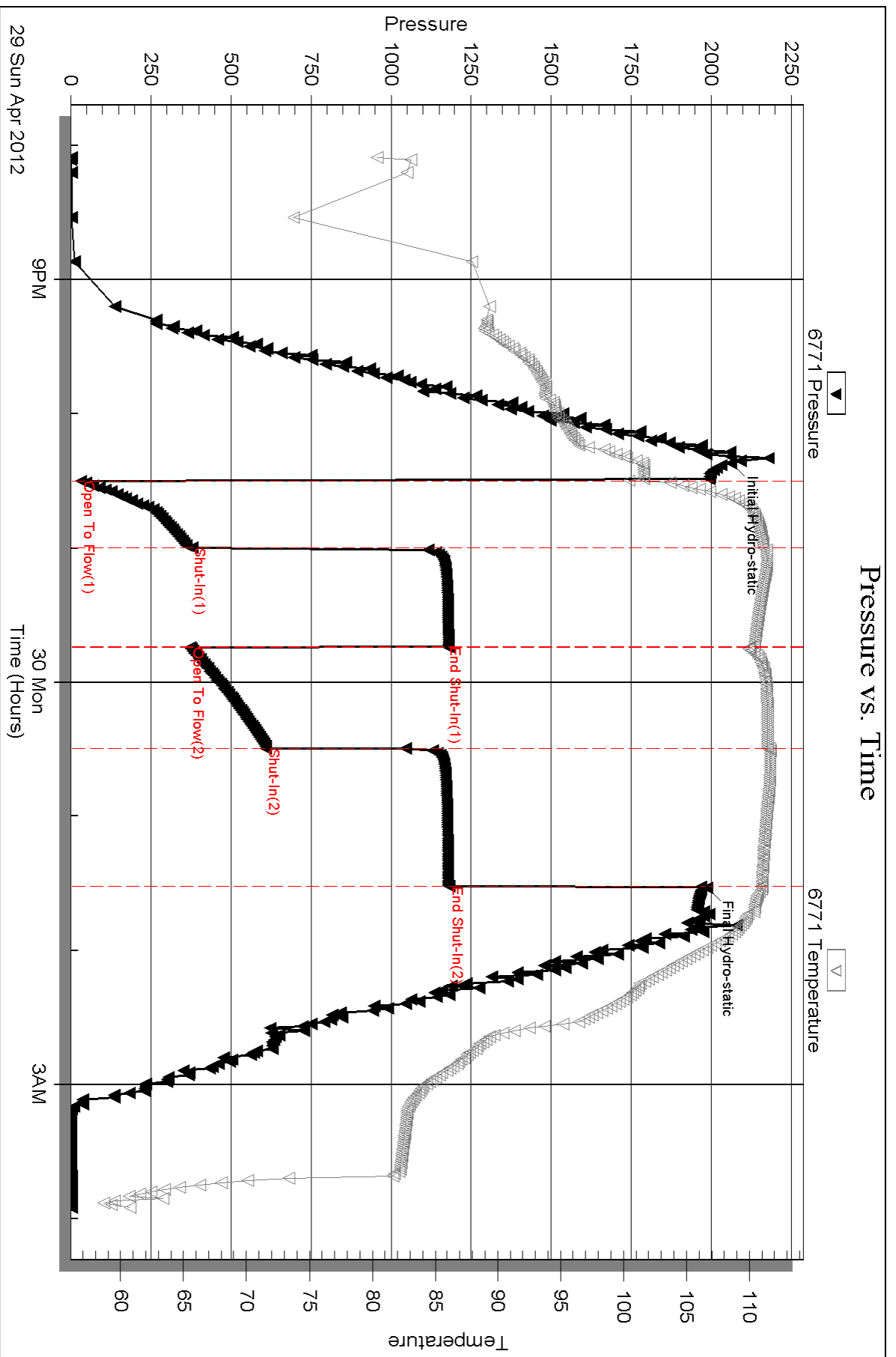
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	80000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.62 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
900.00	W 100%	7.787
300.00	MCW M40% W60%	4.208

Total Length: 1200.00 ft Total Volume: 11.995 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .271@54°F=80,000



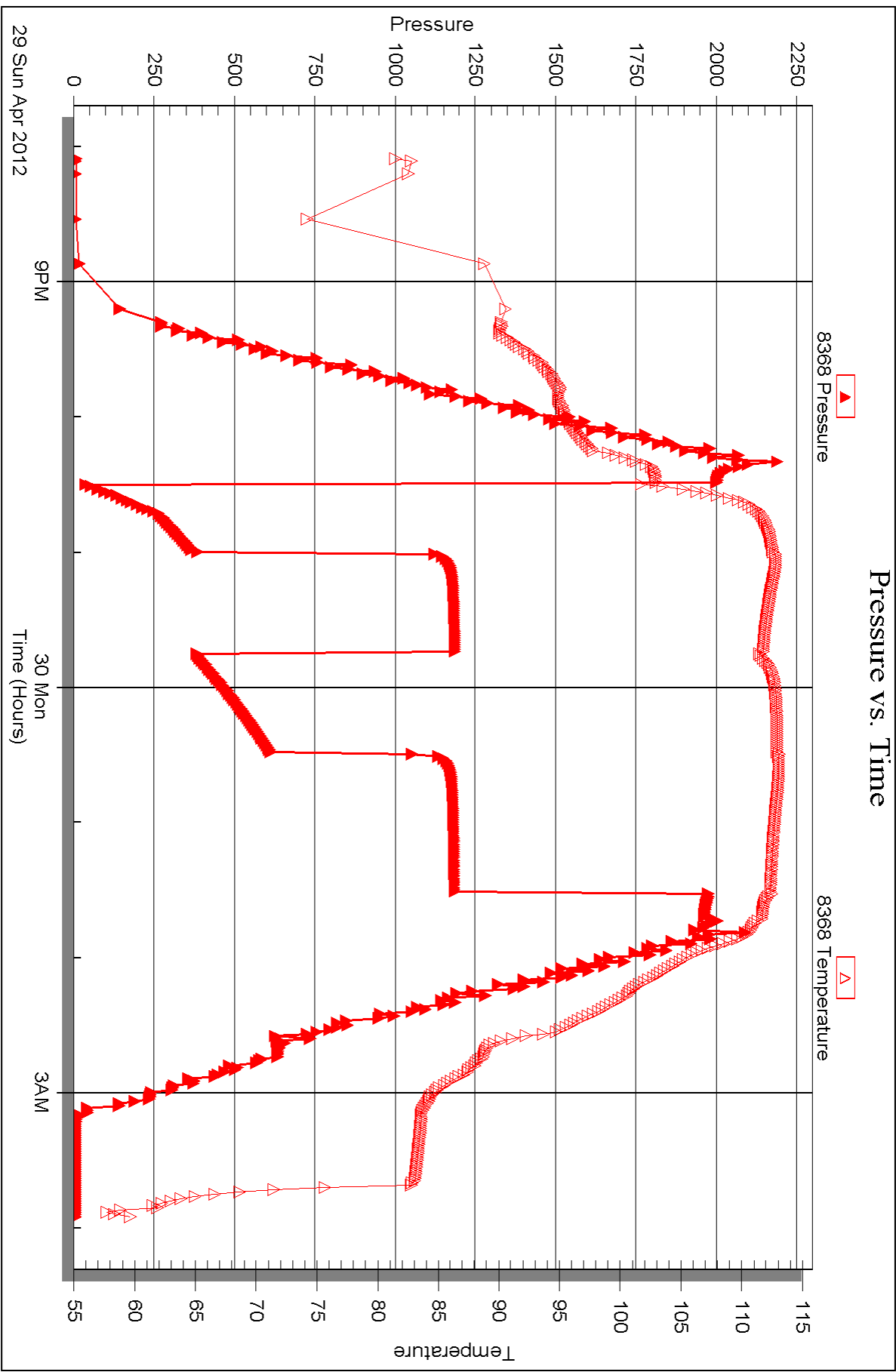
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.04.30 @ 17:38:15

End Date: 2012.04.30 @ 23:40:30

Job Ticket #: 46474 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:56:13

Ritchie Exploration
14-17s-35w Wichita,KS
Simons #1
DST # 5
Lansing H.J
2012.04.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46474

DST#: 5

Test Start: 2012.04.30 @ 17:38:15

GENERAL INFORMATION:

Formation: **Lansing H,I**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:48:30

Time Test Ended: 23:40:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: 4254.00 ft (KB) To 4323.00 ft (KB) (TVD)

Total Depth: 4323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 49.39 psig @ 4255.00 ft (KB)

Start Date: 2012.04.30

End Date: 2012.04.30

Start Time: 17:38:15

End Time: 23:40:30

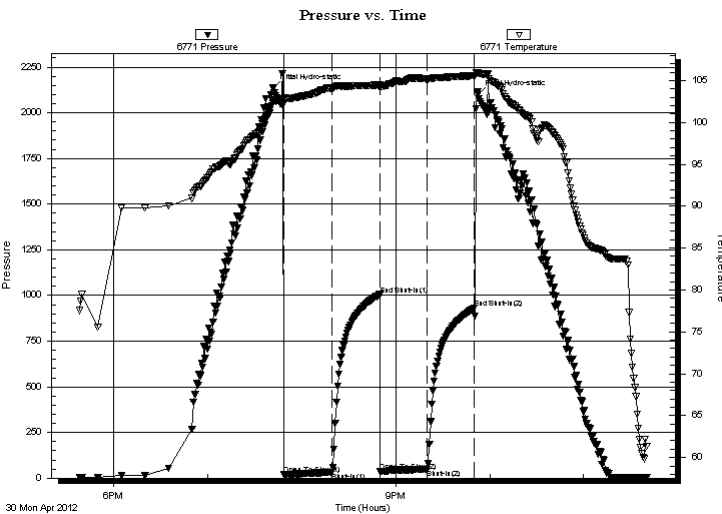
Capacity: 8000.00 psig

Last Calib.: 2012.04.30

Time On Btm: 2012.04.30 @ 19:41:45

Time Off Btm: 2012.04.30 @ 21:52:30

TEST COMMENT: Surface blow
No return
No blow, Flushed tool, w eak surface blow died after 10 minutes.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.73	102.37	Initial Hydro-static
7	20.03	102.31	Open To Flow (1)
38	31.48	104.09	Shut-In(1)
68	1004.97	104.47	End Shut-In(1)
69	35.24	104.12	Open To Flow (2)
99	49.39	105.17	Shut-In(2)
129	930.73	105.59	End Shut-In(2)
131	2100.01	105.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	M 100%	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46474

DST#: 5

ATTN: Max Lovely

Test Start: 2012.04.30 @ 17:38:15

Tool Information

Drill Pipe:	Length: 3714.00 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight:	2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 54.71 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	81000.00 lb
Depth to Top Packer:	4254.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Flushed tool on second open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4235.00	
Shut In Tool	5.00			4240.00	
Hydraulic tool	5.00			4245.00	
Packer	5.00			4250.00	20.00 Bottom Of Top Packer
Packer	4.00			4254.00	
Stubb	1.00			4255.00	
Recorder	0.00	6771	Outside	4255.00	
Recorder	0.00	8368	Inside	4255.00	
Perforations	30.00			4285.00	
Change Over Sub	1.00			4286.00	
Drill Pipe	31.00			4317.00	
Change Over Sub	1.00			4318.00	
Bullnose	5.00			4323.00	69.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46474

DST#: 5

ATTN: Max Lovely

Test Start: 2012.04.30 @ 17:38:15

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: 5.60 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.86 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	M 100%	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

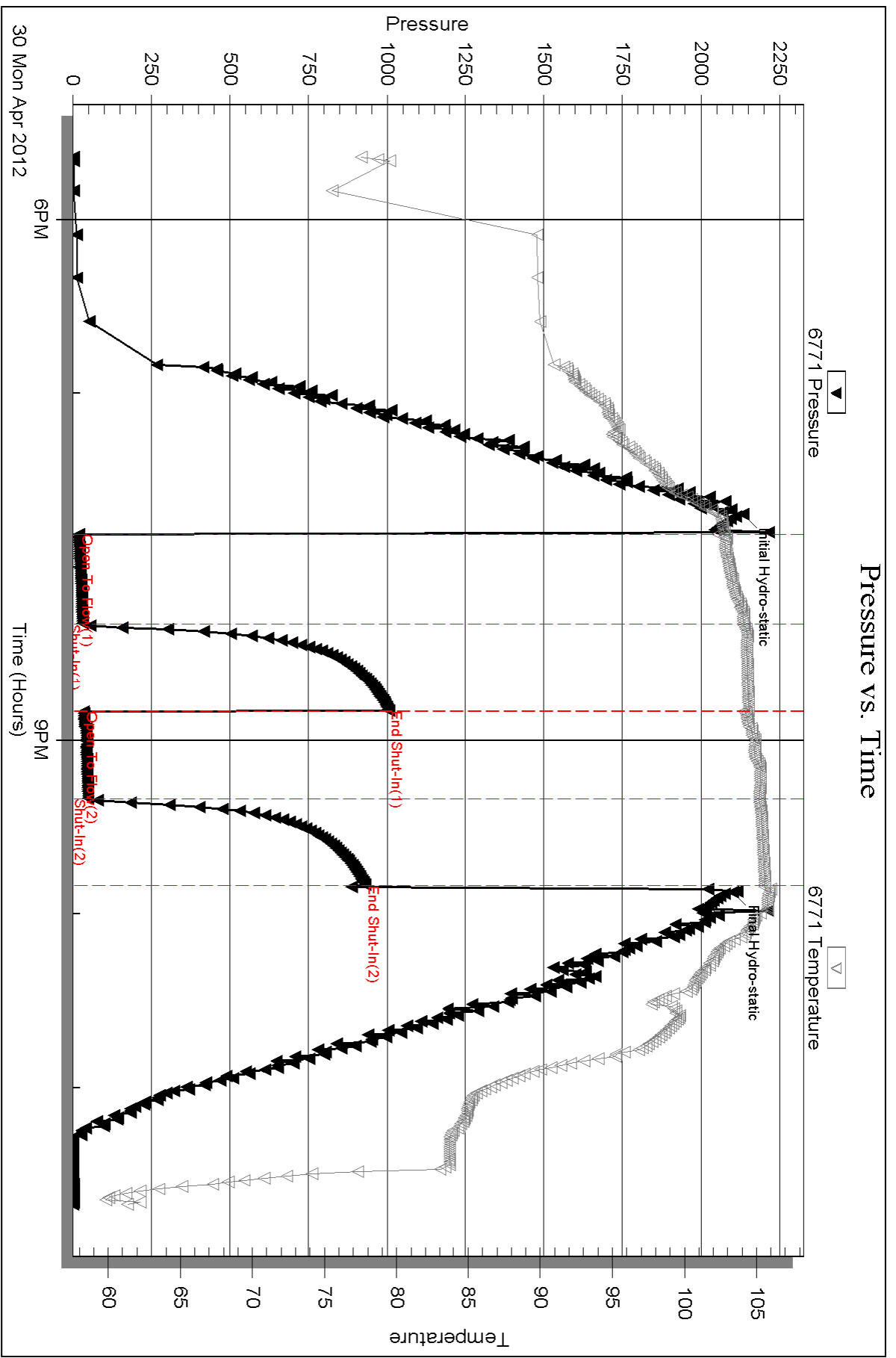
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



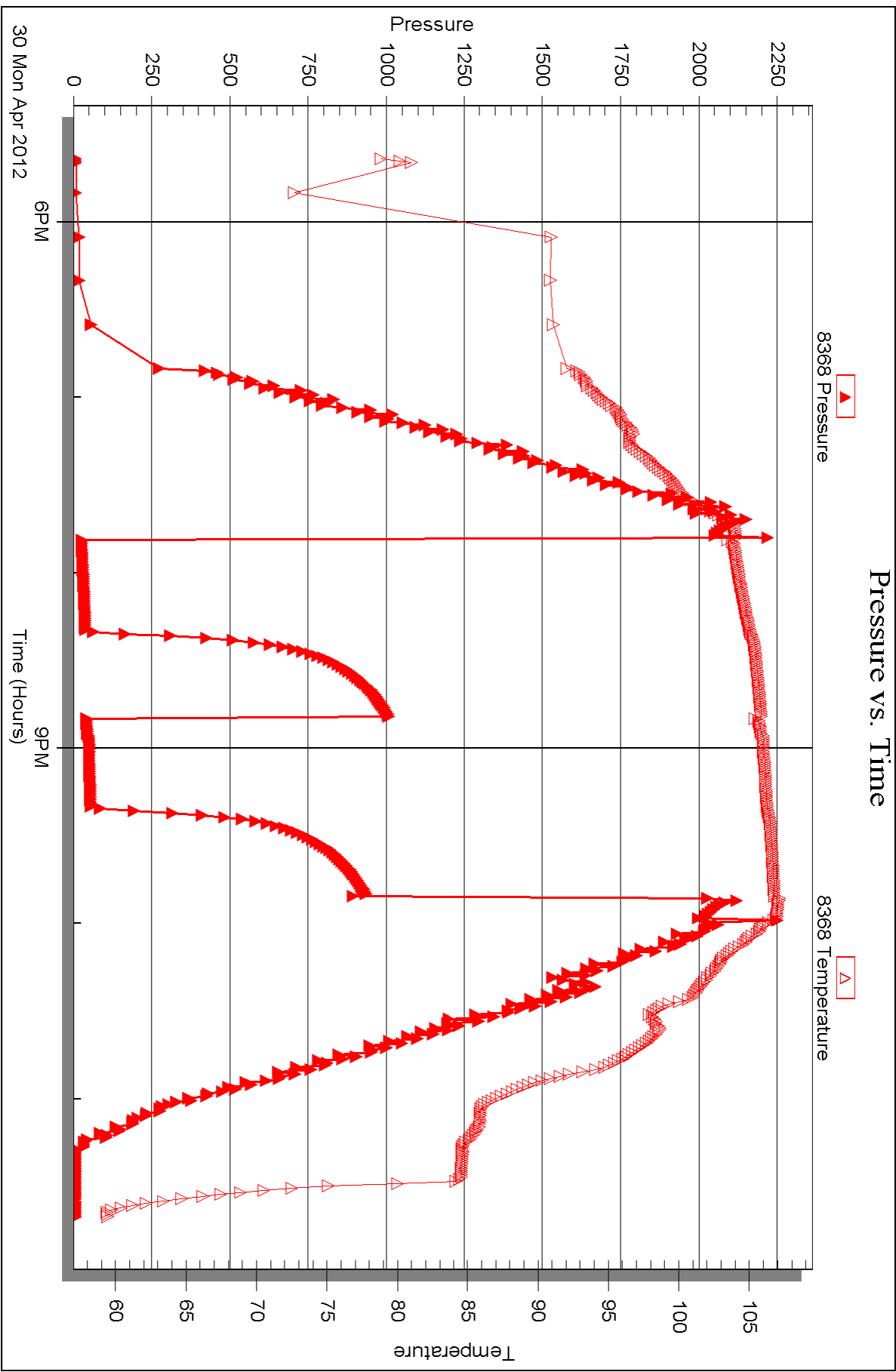
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.01 @ 07:54:15

End Date: 2012.05.01 @ 16:11:00

Job Ticket #: 46576 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:55:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46576

DST#: 6

Test Start: 2012.05.01 @ 07:54:15

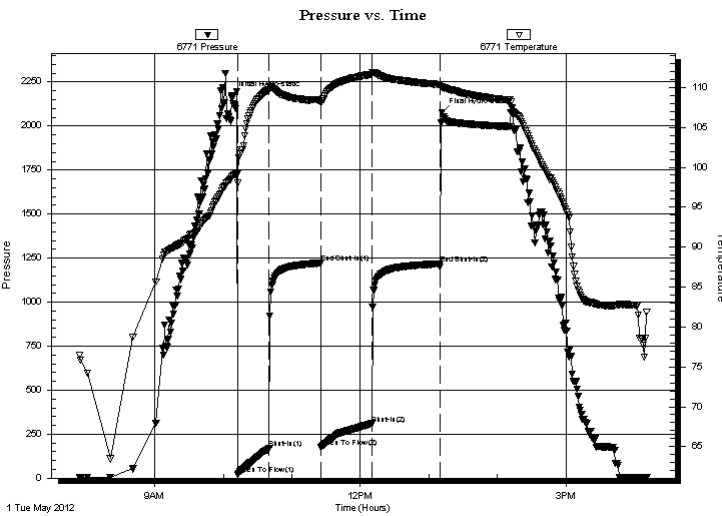
GENERAL INFORMATION:

Formation: **Lansing J**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 10:12:30
 Time Test Ended: 16:11:00
 Interval: **4327.00 ft (KB) To 4351.00 ft (KB) (TVD)**
 Total Depth: 4351.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cole Archibald
 Unit No: 55
 Reference Elevations: 3177.00 ft (KB)
 3167.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 308.73 psig @ 4328.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.01 End Date: 2012.05.01 Last Calib.: 2012.05.01
 Start Time: 07:54:15 End Time: 16:11:00 Time On Btm: 2012.05.01 @ 10:07:30
 Time Off Btm: 2012.05.01 @ 13:11:45

TEST COMMENT: Built to 8 inch
 No return
 Built to 5 inch
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.24	98.76	Initial Hydro-static
5	22.15	97.99	Open To Flow (1)
33	168.40	109.76	Shut-In(1)
78	1221.40	108.28	End Shut-In(1)
79	173.71	108.12	Open To Flow (2)
123	308.73	111.63	Shut-In(2)
182	1217.21	110.36	End Shut-In(2)
185	2075.13	110.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	W 100%	2.21
210.00	MCW 10% M 90% W	2.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46576

DST#: 6

ATTN: Max Lovely

Test Start: 2012.05.01 @ 07:54:15

Tool Information

Drill Pipe:	Length: 3777.00 ft	Diameter: 3.80 inches	Volume: 52.98 bbl	Tool Weight:	2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 55.59 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4327.00 ft			Final	84000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	44.00 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			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Packer	5.00			4323.00	20.00 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	6667	Outside	4328.00	
Recorder	0.00	8368	Inside	4328.00	
Perforations	18.00			4346.00	
Bullnose	5.00			4351.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46576

DST#: 6

ATTN: Max Lovely

Test Start: 2012.05.01 @ 07:54:15

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.89 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
450.00	W 100%	2.213
210.00	MCW 10% M 90% W	2.208

Total Length: 660.00 ft Total Volume: 4.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

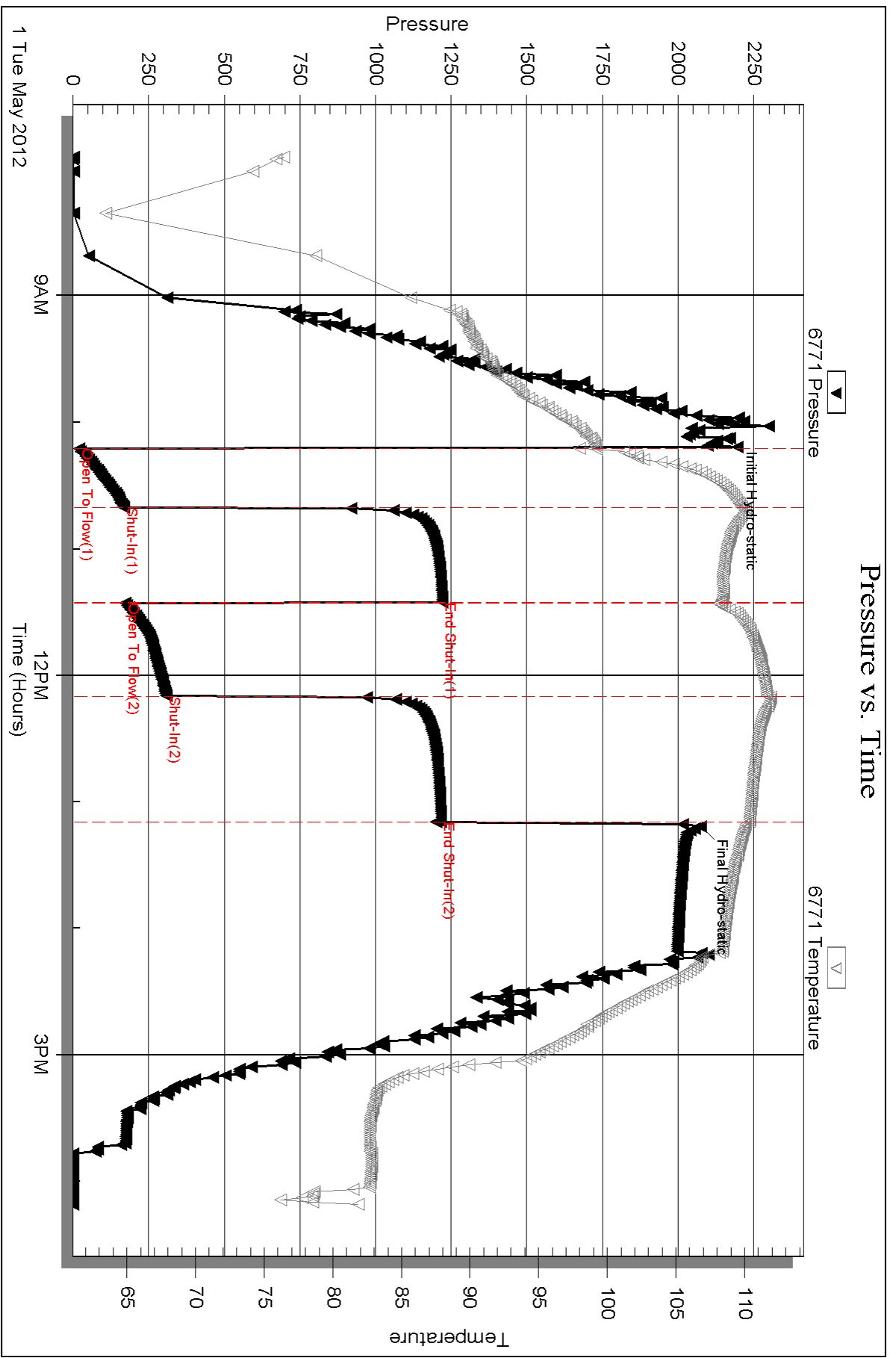
Recovery Comments: RW .271 @ 54°F=80,000chl

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 46576

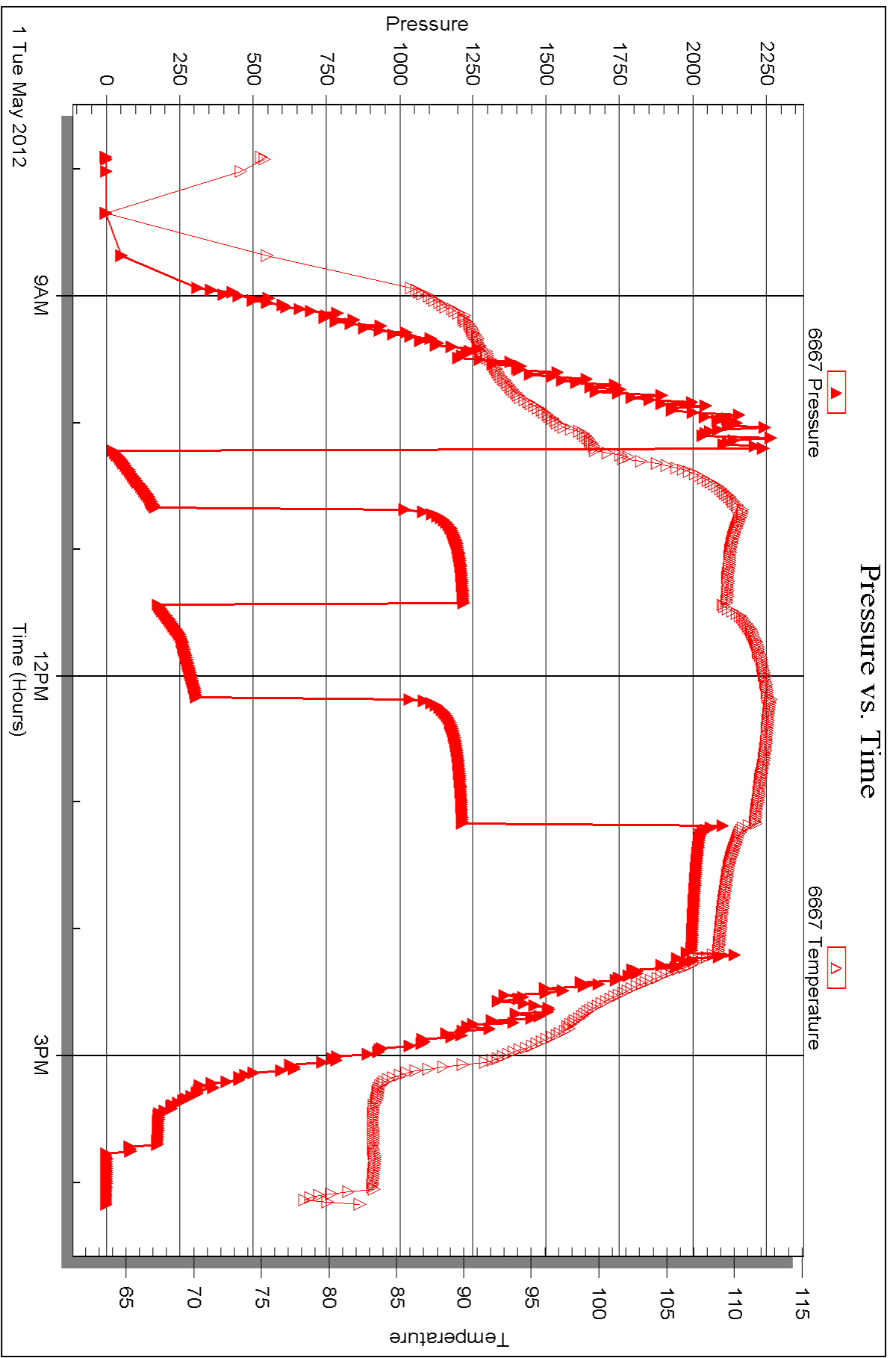
Printed: 2012.05.10 @ 14:55:33

Serial #: 6667

Outside Ritchie Exploration

Simons #1

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.01 @ 23:35:15

End Date: 2012.05.02 @ 09:42:00

Job Ticket #: 46578 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.10 @ 14:54:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46578

DST#: 7

Test Start: 2012.05.01 @ 23:35:15

GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:43:00

Time Test Ended: 09:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: 4350.00 ft (KB) To 4377.00 ft (KB) (TVD)

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4377.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6667 Outside

Press @ Run Depth: 133.80 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.01

End Date:

2012.05.02

Last Calib.: 2012.05.02

Start Time: 23:35:15

End Time:

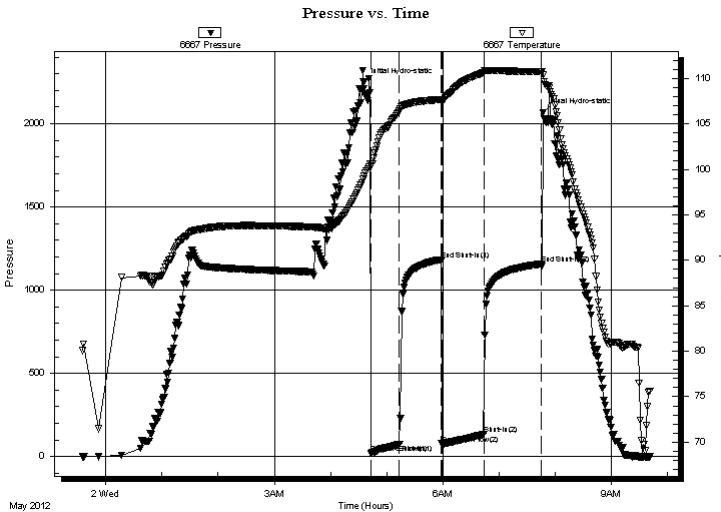
09:42:00

Time On Btm: 2012.05.02 @ 04:35:15

Time Off Btm: 2012.05.02 @ 07:47:15

TEST COMMENT: Built to 1 1/4 inch
 No return
 Built to 1 1/4 inch
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.80	98.97	Initial Hydro-static
8	20.60	100.33	Open To Flow (1)
39	72.34	106.39	Shut-In(1)
84	1184.07	107.69	End Shut-In(1)
84	77.68	107.35	Open To Flow (2)
129	133.80	110.64	Shut-In(2)
191	1158.65	110.72	End Shut-In(2)
192	2068.91	110.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MWCO 30%O 30%W 40%M	0.44
90.00	OCM 10%O 90%M	0.44
90.00	MCO 80%O 20%M	0.44
95.00	MCO 90%O 10%M	0.47

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46578

DST#: 7

ATTN: Max Lovely

Test Start: 2012.05.01 @ 23:35:15

Tool Information

Drill Pipe:	Length: 3807.00 ft	Diameter: 3.80 inches	Volume: 53.40 bbl	Tool Weight:	2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 56.01 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	4350.00 ft			Final	84000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4331.00	
Shut In Tool	5.00			4336.00	
Hydraulic tool	5.00			4341.00	
Packer	5.00			4346.00	20.00 Bottom Of Top Packer
Packer	4.00			4350.00	
Stubb	1.00			4351.00	
Recorder	0.00	6667	Outside	4351.00	
Recorder	0.00	8368	Inside	4351.00	
Perforations	21.00			4372.00	
Bullnose	5.00			4377.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46578

DST#: 7

ATTN: Max Lovely

Test Start: 2012.05.01 @ 23:35:15

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.90 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	MWCO 30%O 30%W 40%M	0.443
90.00	OCM 10%O 90%M	0.443
90.00	MCO 80%O 20%M	0.443
95.00	MCO 90%O 10%M	0.467

Total Length: 365.00 ft Total Volume: 1.796 bbl

Num Fluid Samples: 0

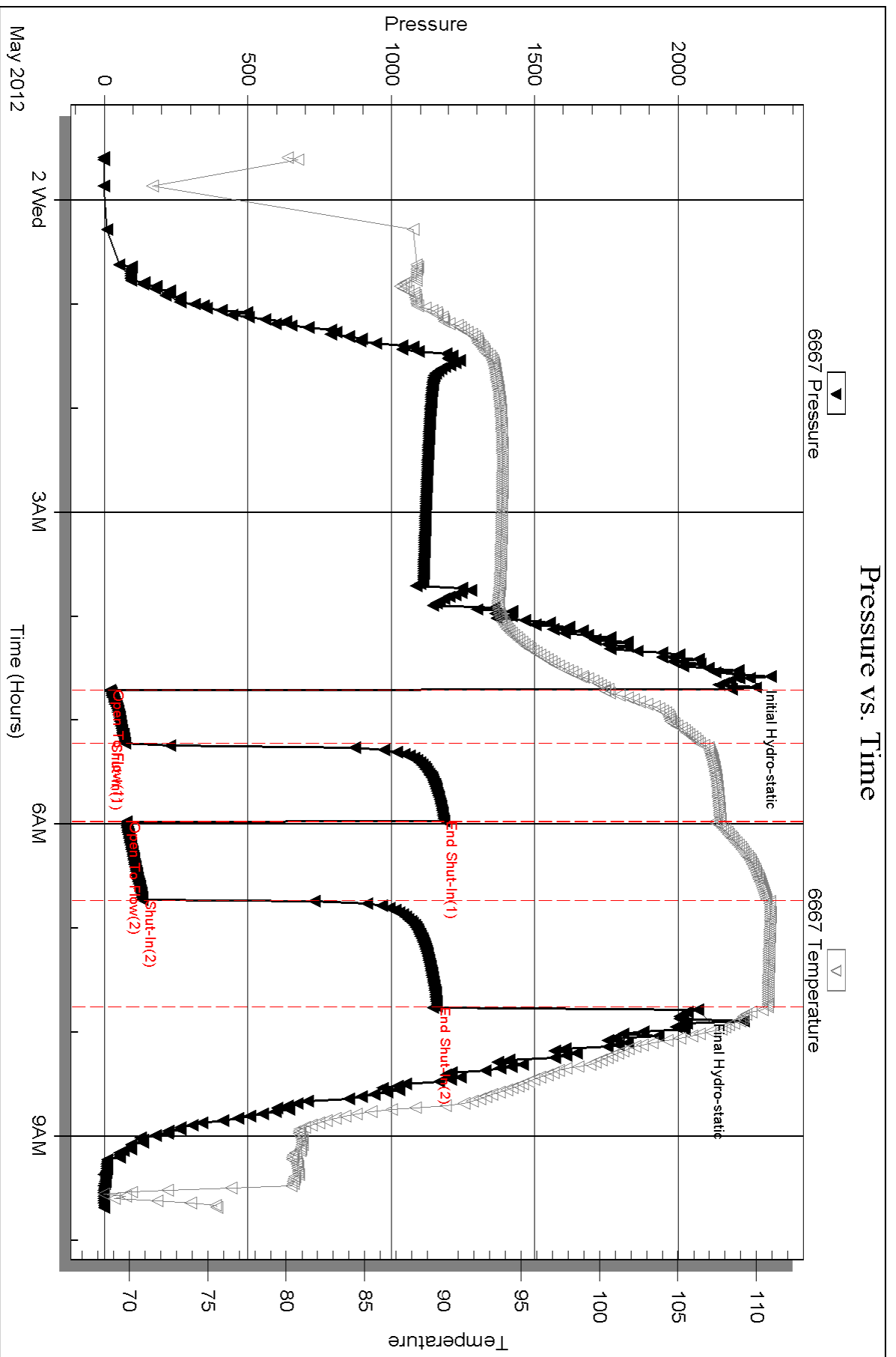
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .286 @ 70*f=60,000

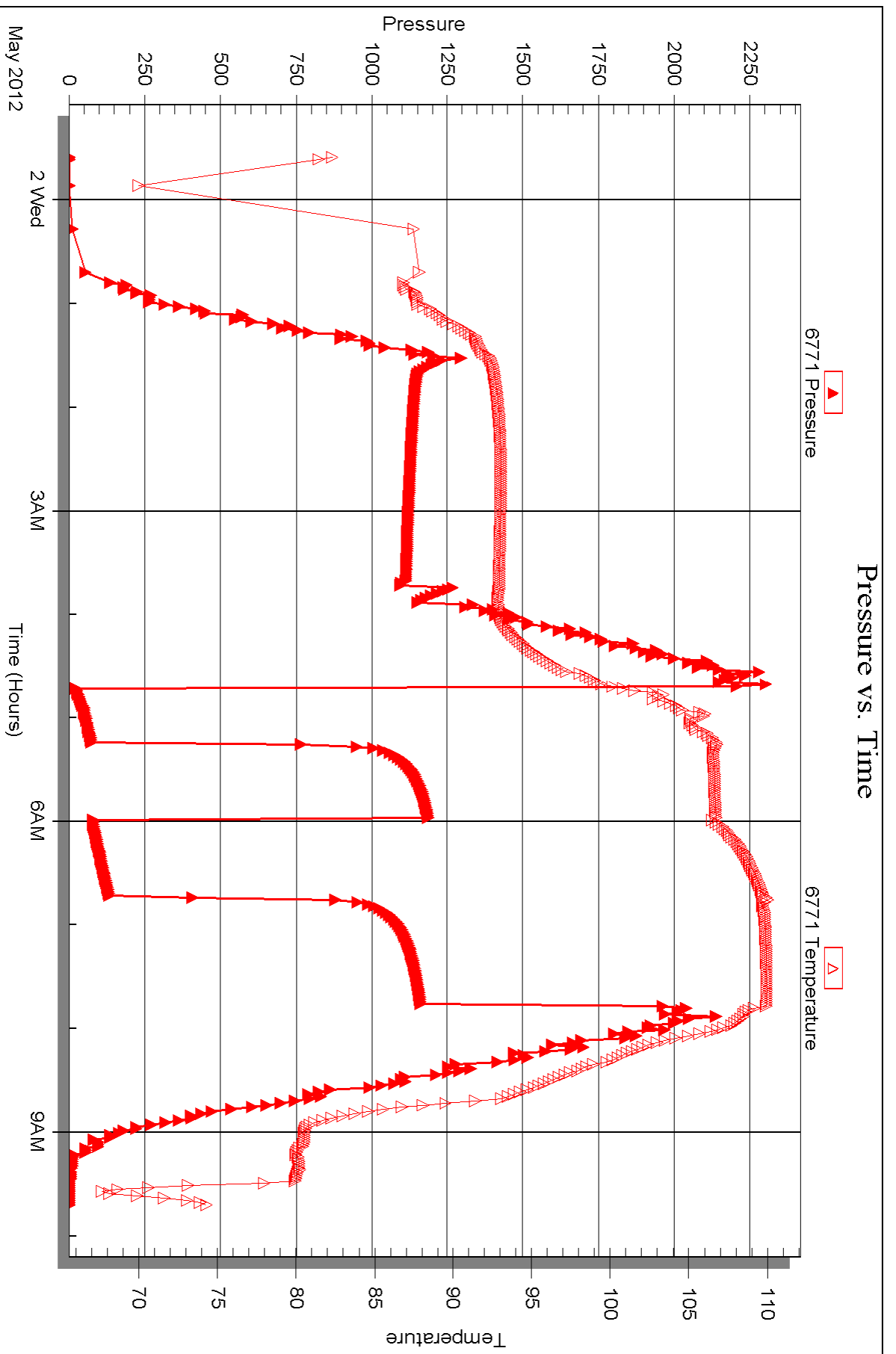


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.02 @ 17:07:15

End Date: 2012.05.02 @ 01:00:00

Job Ticket #: 46579 DST #: 8

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:48:48

Ritchie Exploration
14-17s-35w Wichita,KS
Simons #1
DST # 8
Base Lansing K
2012.05.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 46579

DST#: 8

Test Start: 2012.05.02 @ 17:07:15

GENERAL INFORMATION:

Formation: **Base Lansing K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 01:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 55

Interval: 4375.00 ft (KB) To 4400.00 ft (KB) (TVD)

Total Depth: 4400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3177.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 295.75 psig @ 4376.00 ft (KB)

Start Date: 2012.05.02

End Date: 2012.05.03

Start Time: 18:07:15

End Time: 01:00:00

Capacity: 8000.00 psig

Last Calib.: 2012.05.03

Time On Btm: 2012.05.02 @ 20:18:45

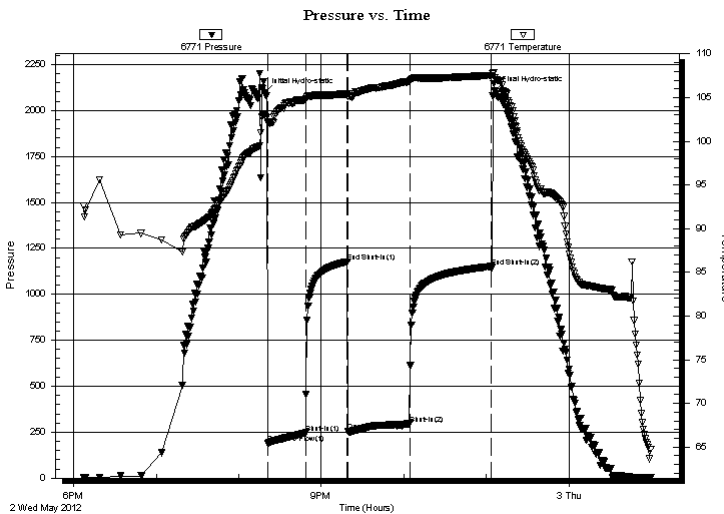
Time Off Btm: 2012.05.02 @ 23:06:15

TEST COMMENT: lost packer seat took on approx 100 feet of mud, reset packers, built to 1/4 inch.

No return.

Built to 1/2 inch.

No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2097.91	102.97	Initial Hydro-static
3	187.87	102.10	Open To Flow (1)
30	246.37	104.78	Shut-In(1)
61	1176.49	105.41	End Shut-In(1)
61	253.58	105.13	Open To Flow (2)
106	295.75	106.83	Shut-In(2)
165	1149.63	107.54	End Shut-In(2)
168	2106.09	107.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMCO 5%M 25%G 75%O	0.44
90.00	GOCM 15%G 30%O 55%M	0.44
90.00	GOCM 5%G 15%O 80%M	0.44
300.00	M 100% M	1.83

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 46579

DST#: 8

ATTN: Max Lovely

Test Start: 2012.05.02 @ 17:07:15

Tool Information

Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 56.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4375.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Packer	5.00			4371.00	20.00 Bottom Of Top Packer
Packer	4.00			4375.00	
Stubb	1.00			4376.00	
Recorder	0.00	6771	Outside	4376.00	
Recorder	0.00	8368	Inside	4376.00	
Perforations	19.00			4395.00	
Bullnose	5.00			4400.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 46579
Test Start: 2012.05.02 @ 17:07:15

DST#: 8

Mud and Cushion Information

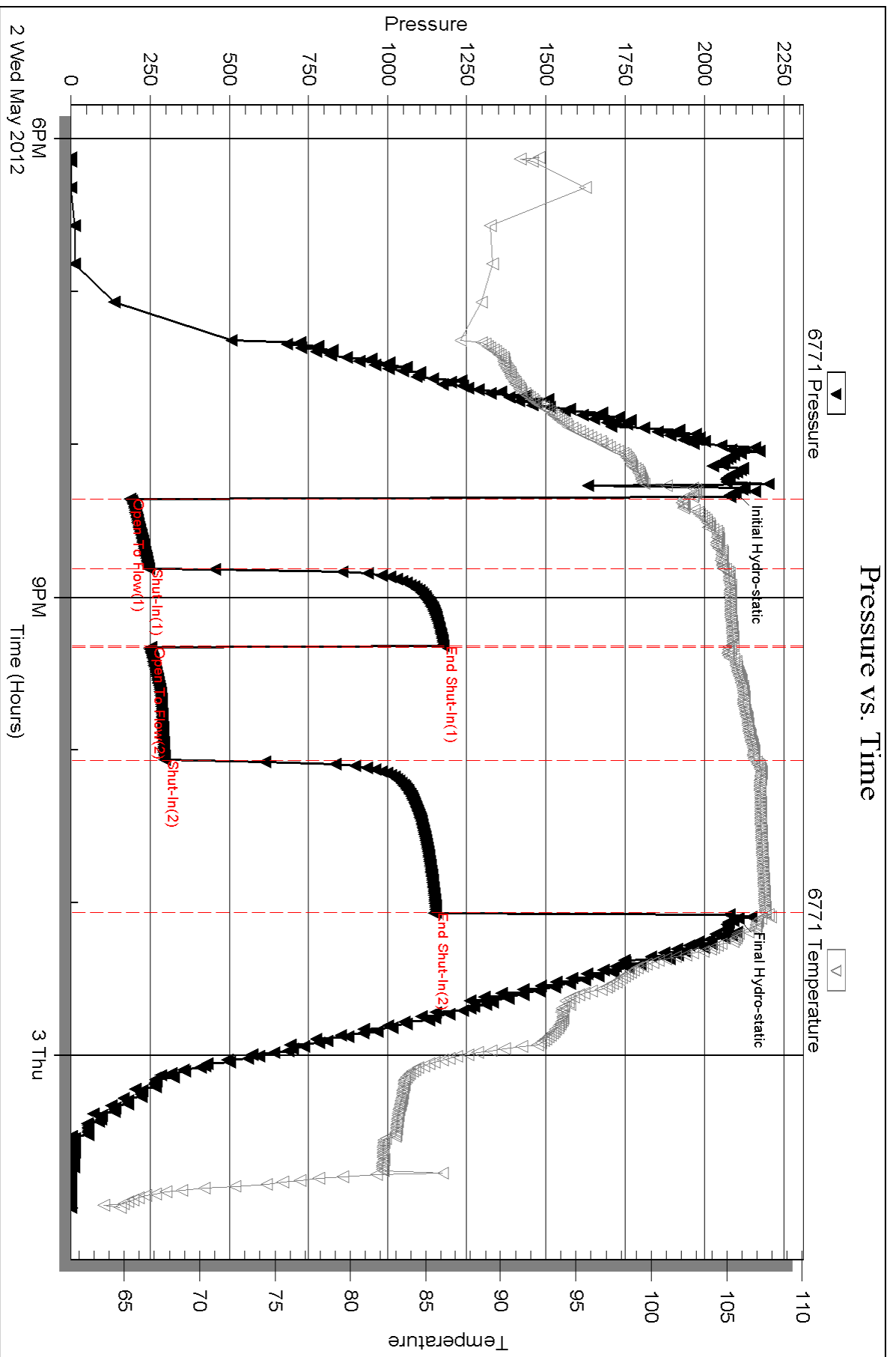
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.48 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMCO 5%M 25%G 75%O	0.443
90.00	GOCM 15%G 30%O 55%M	0.443
90.00	GOCM 5%G 15%O 80%M	0.443
300.00	M 100% M	1.831

Total Length: 570.00 ft Total Volume: 3.160 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



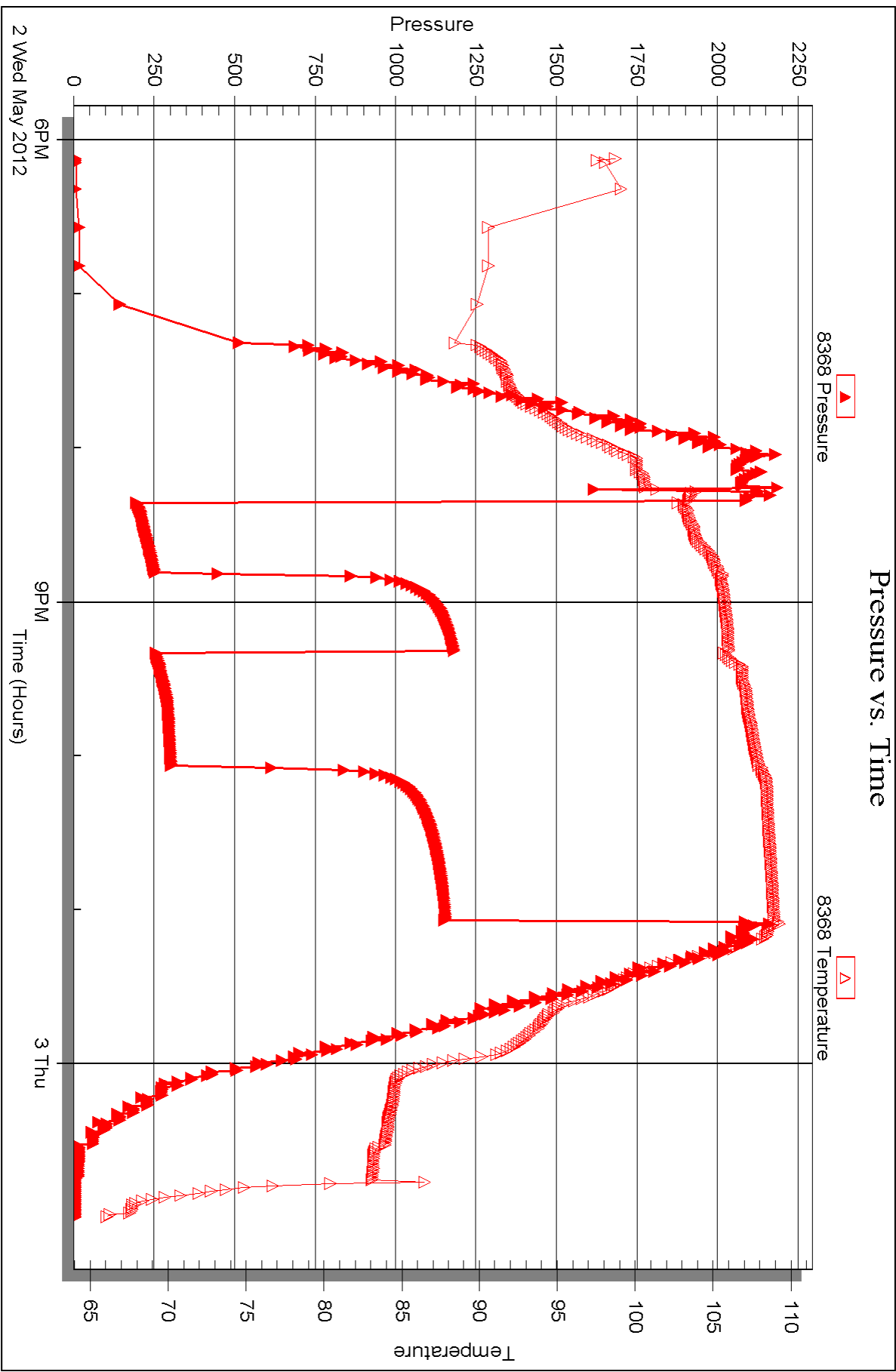
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 8





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.03 @ 20:12:53

End Date: 2012.05.04 @ 03:35:38

Job Ticket #: 45868 DST #: 9

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:48:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 45868

DST#: 9

Test Start: 2012.05.03 @ 20:12:53

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 22:24:53
 Time Test Ended: 03:35:38
 Interval: **4476.00 ft (KB) To 4520.00 ft (KB) (TVD)**
 Total Depth: 4520.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3177.00 ft (KB)
 3167.00 ft (CF)
 KB to GR/CF: 10.00 ft

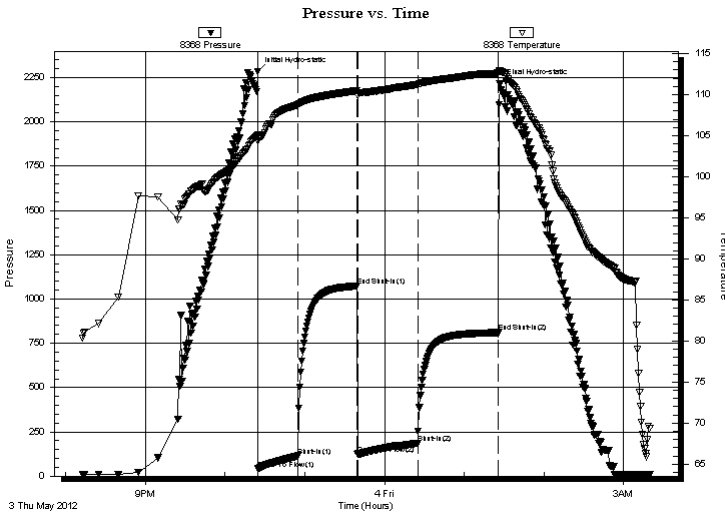
Serial #: 8368

Inside

Press @ Run Depth: 186.62 psig @ 4477.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.03 End Date: 2012.05.04 Last Calib.: 2012.05.04
 Start Time: 20:12:53 End Time: 03:19:38 Time On Btm: 2012.05.03 @ 22:24:38
 Time Off Btm: 2012.05.04 @ 01:26:38

TEST COMMENT: 2" blow
 No return
 1" blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.83	105.09	Initial Hydro-static
1	41.50	104.41	Open To Flow (1)
30	114.12	108.74	Shut-In(1)
75	1073.05	110.50	End Shut-In(1)
75	123.46	109.88	Open To Flow (2)
121	186.62	111.24	Shut-In(2)
181	810.77	112.61	End Shut-In(2)
182	2216.28	112.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	s w c m 15%w 85%m	0.47
180.00	w c m 40%w 60%m	0.89

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45868

DST#: 9

ATTN: Max Lovely

Test Start: 2012.05.03 @ 20:12:53

Tool Information

Drill Pipe:	Length: 3939.00 ft	Diameter: 3.80 inches	Volume: 55.25 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 57.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4476.00 ft			Final 91000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4457.00	
Shut In Tool	5.00			4462.00	
Hydraulic tool	5.00			4467.00	
Packer	5.00			4472.00	20.00 Bottom Of Top Packer
Packer	4.00			4476.00	
Stubb	1.00			4477.00	
Recorder	0.00	6771	Outside	4477.00	
Recorder	0.00	8368	Inside	4477.00	
Perforations	4.00			4481.00	
Change Over Sub	1.00			4482.00	
Drill Pipe	32.00			4514.00	
Change Over Sub	1.00			4515.00	
Bullnose	5.00			4520.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 45868
Test Start: 2012.05.03 @ 20:12:53

DST#: 9

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: 42000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.71 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	s w c m 15%w 85%m	0.467
180.00	w c m 40%w 60%m	0.885

Total Length: 275.00 ft Total Volume: 1.352 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw .198 @ 59*f = 42,000 chlor

Serial #: 8368

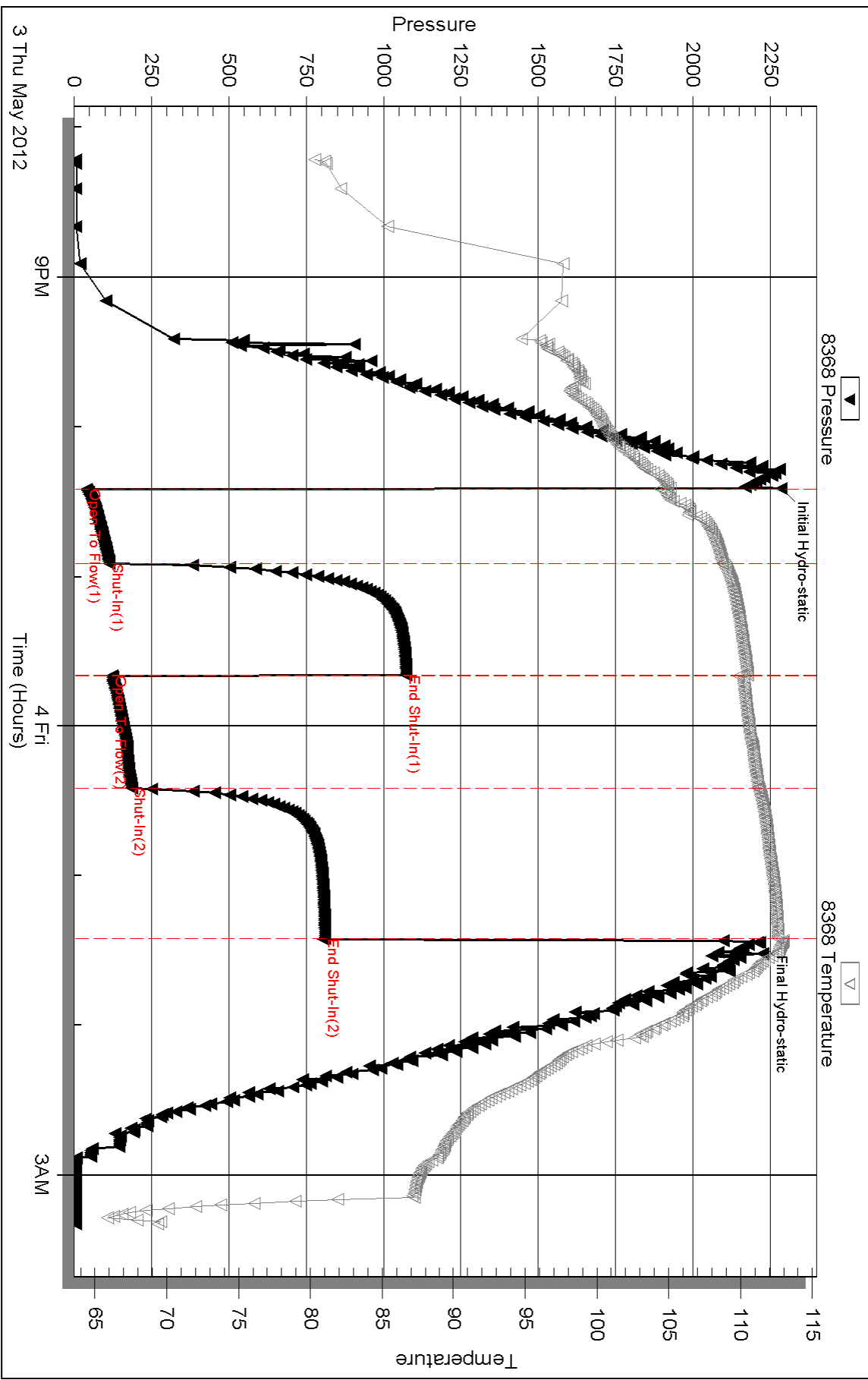
Inside

Ritchie Exploration

Simons #1

DST Test Number: 9

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45868

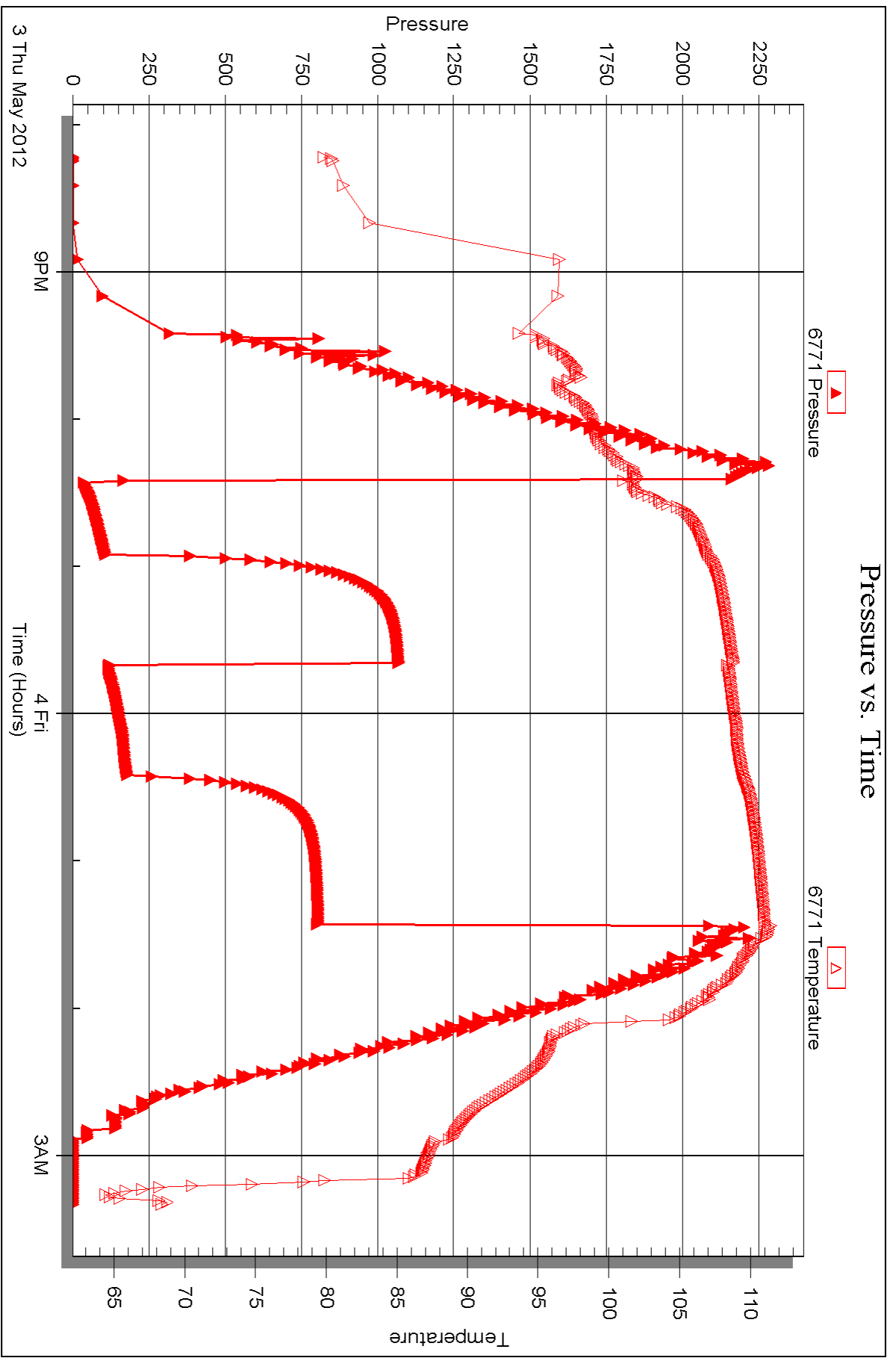
Printed: 2012.05.10 @ 14:48:04

Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 9





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.04 @ 11:55:26

End Date: 2012.05.04 @ 19:10:56

Job Ticket #: 45869 DST #: 10

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:46:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration
 PO Box 783188
 Wichita, KS 67278
 ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 45869

DST#: 10

Test Start: 2012.05.04 @ 11:55:26

GENERAL INFORMATION:

Formation: **Altamont B**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 14:08:56
 Time Test Ended: 19:10:56
 Interval: **4522.00 ft (KB) To 4543.00 ft (KB) (TVD)**
 Total Depth: 4543.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3177.00 ft (KB)
 3167.00 ft (CF)
 KB to GR/CF: 10.00 ft

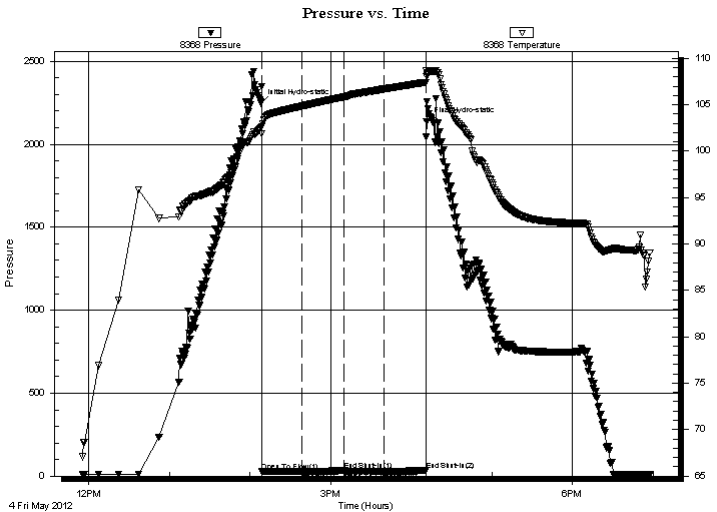
Serial #: 8368

Inside

Press @ Run Depth: 29.82 psig @ 4523.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.04 End Date: 2012.05.04 Last Calib.: 2012.05.04
 Start Time: 11:55:26 End Time: 18:57:56 Time On Btm: 2012.05.04 @ 14:08:11
 Time Off Btm: 2012.05.04 @ 16:11:26

TEST COMMENT: Weak blow died in 4 min.
 No return
 No blow ,flush tool after 5 min, good surge, no blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.69	102.57	Initial Hydro-static
1	26.44	101.87	Open To Flow (1)
31	28.38	104.87	Shut-In(1)
62	33.81	105.83	End Shut-In(1)
62	25.84	105.84	Open To Flow (2)
92	29.82	106.69	Shut-In(2)
123	34.25	107.43	End Shut-In(2)
124	2136.27	108.01	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita,KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45869

DST#: 10

ATTN: Max Lovely

Test Start: 2012.05.04 @ 11:55:26

Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 115000.0 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4522.00 ft			Final 90000.00 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
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Change Over Sub	1.00			4503.00	
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Packer	5.00			4518.00	20.00 Bottom Of Top Packer
Packer	4.00			4522.00	
Stubb	1.00			4523.00	
Recorder	0.00	6771	Outside	4523.00	
Recorder	0.00	8368	Inside	4523.00	
Perforations	15.00			4538.00	
Bullnose	5.00			4543.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita,KS
Simons #1
Job Ticket: 45869
Test Start: 2012.05.04 @ 11:55:26

DST#: 10

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.54 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8400.00 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:

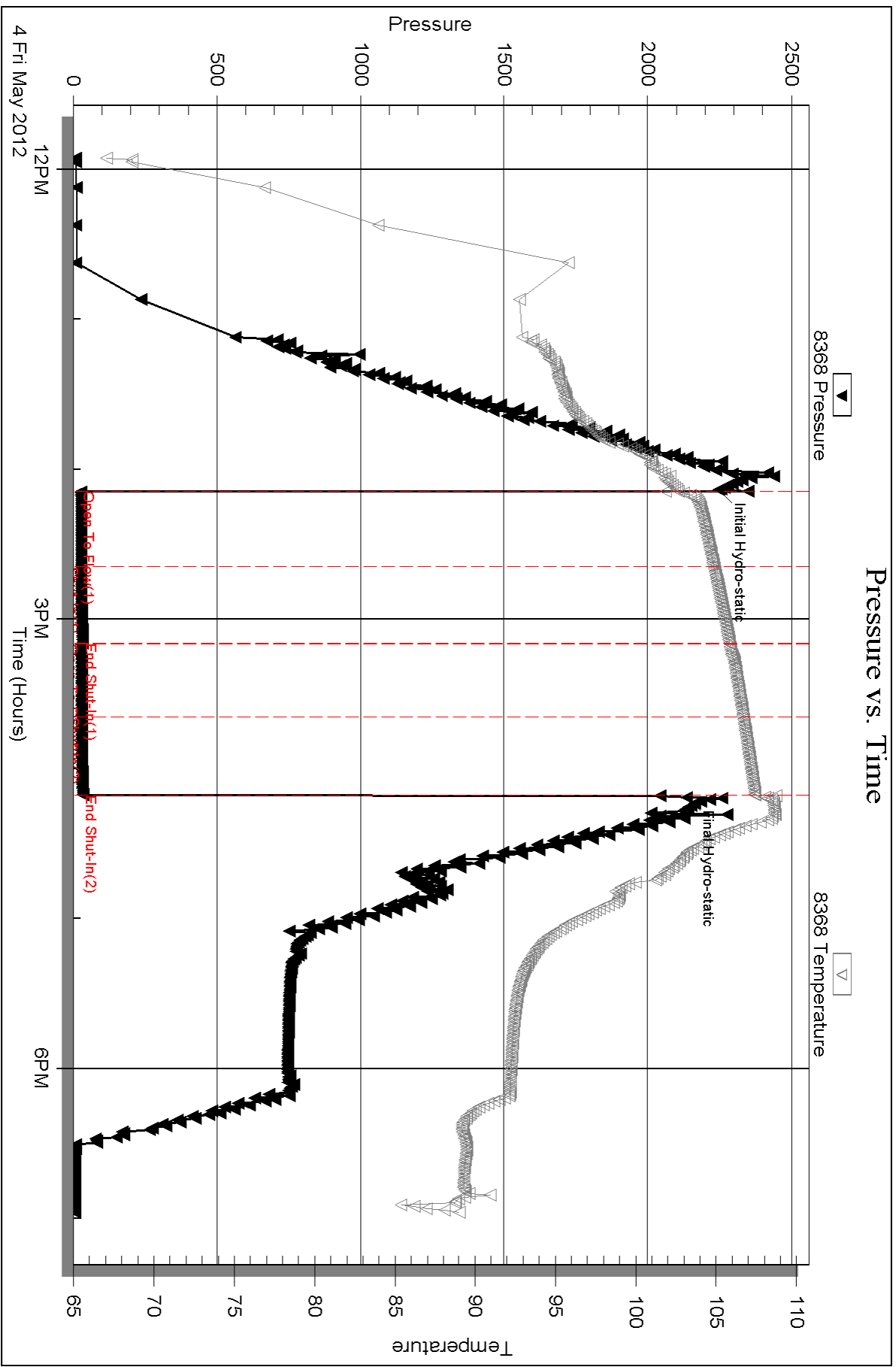
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 10

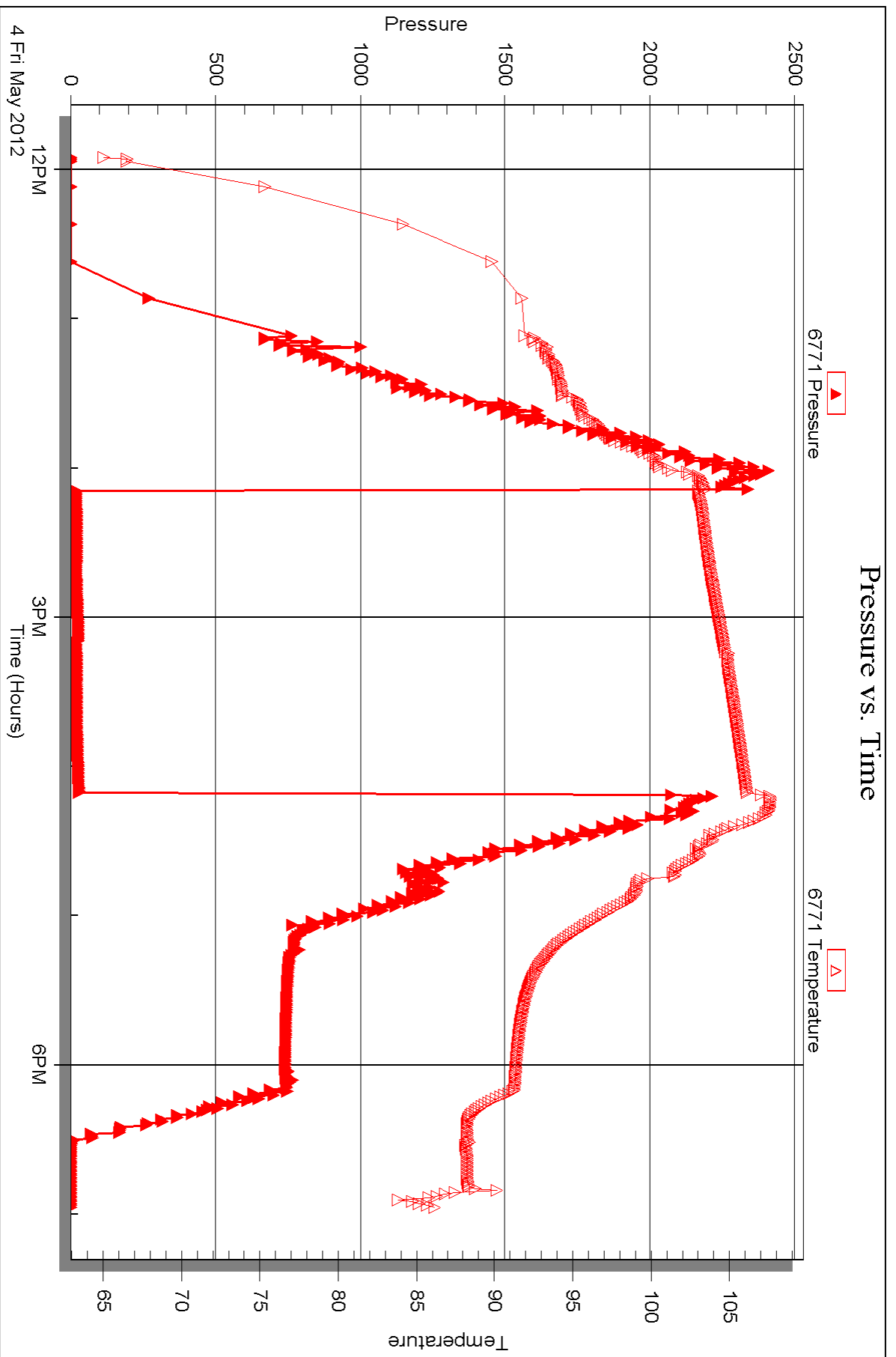


Serial #: 6771

Outside Ritchie Exploration

Simons #1

DST Test Number: 10





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration**

PO Box 783188
Wichita, KS 67278

ATTN: Max Lovely

Simons #1

14-17s-35w Wichita,KS

Start Date: 2012.05.05 @ 18:35:28

End Date: 2012.05.06 @ 00:55:13

Job Ticket #: 45870 DST #: 11

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.05.10 @ 14:45:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration
PO Box 783188
Wichita, KS 67278
ATTN: Max Lovely

14-17s-35w Wichita, KS

Simons #1

Job Ticket: 45870

DST#: 11

Test Start: 2012.05.05 @ 18:35:28

GENERAL INFORMATION:

Formation: **Altamont C**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 21:05:28

Time Test Ended: 00:55:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4547.00 ft (KB) To 4572.00 ft (KB) (TVD)

Reference Elevations: 3177.00 ft (KB)

Total Depth: 4572.00 ft (KB) (TVD)

3167.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: 69.19 psig @ 4548.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.05

End Date:

2012.05.06

Last Calib.:

2012.05.06

Start Time: 18:35:28

End Time:

00:34:13

Time On Btm:

2012.05.05 @ 21:03:43

Time Off Btm:

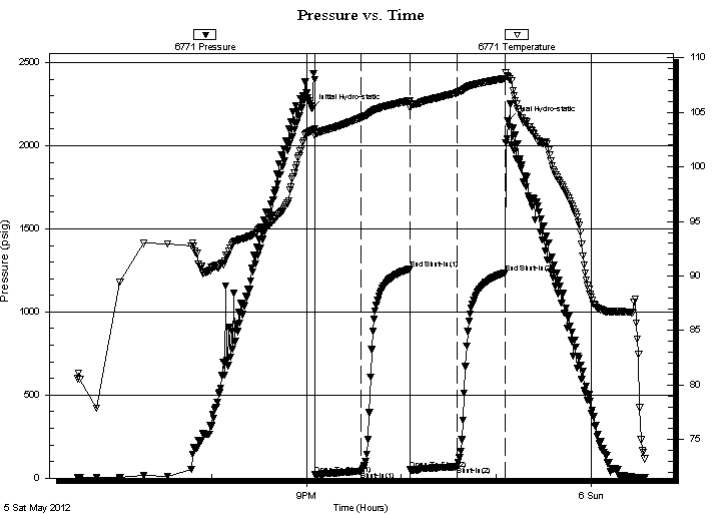
2012.05.05 @ 23:07:13

TEST COMMENT: Weak surface blow died in 5 min, intermittent bubble rest of open

No return

Bubble to open tool, no blow, flush tool after 5 min, good surge 1/4" in blow died back to a weak surface blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.69	103.32	Initial Hydro-static
2	22.86	102.90	Open To Flow (1)
31	42.41	104.52	Shut-In(1)
62	1258.17	106.08	End Shut-In(1)
62	50.90	105.39	Open To Flow (2)
92	69.19	106.82	Shut-In(2)
122	1236.40	108.11	End Shut-In(2)
124	2152.75	108.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	free oil 100%o	0.01
88.00	o c m 15%o 85%m	0.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45870

DST#: 11

ATTN: Max Lovely

Test Start: 2012.05.05 @ 18:35:28

Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 bbl	Tool Weight: 2500.00 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 115000.0 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4547.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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	6771	Outside	4548.00	
Recorder	0.00	8368	Inside	4548.00	
Perforations	19.00			4567.00	
Bullnose	5.00			4572.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration

14-17s-35w Wichita, KS

PO Box 783188
Wichita, KS 67278

Simons #1

Job Ticket: 45870

DST#: 11

ATTN: Max Lovely

Test Start: 2012.05.05 @ 18:35:28

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.55 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	free oil 100%o	0.010
88.00	o c m 15%o 85%m	0.433

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

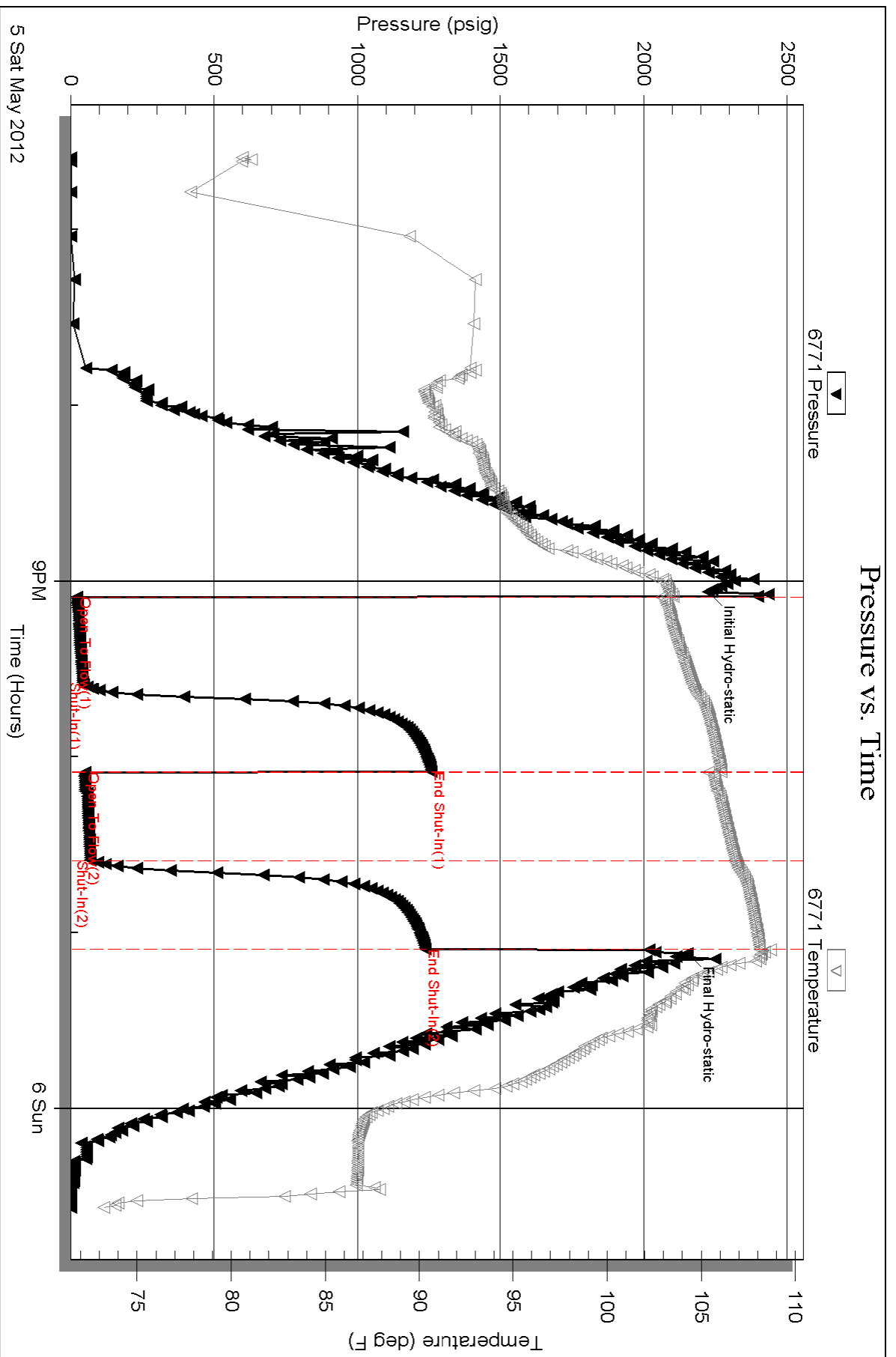
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



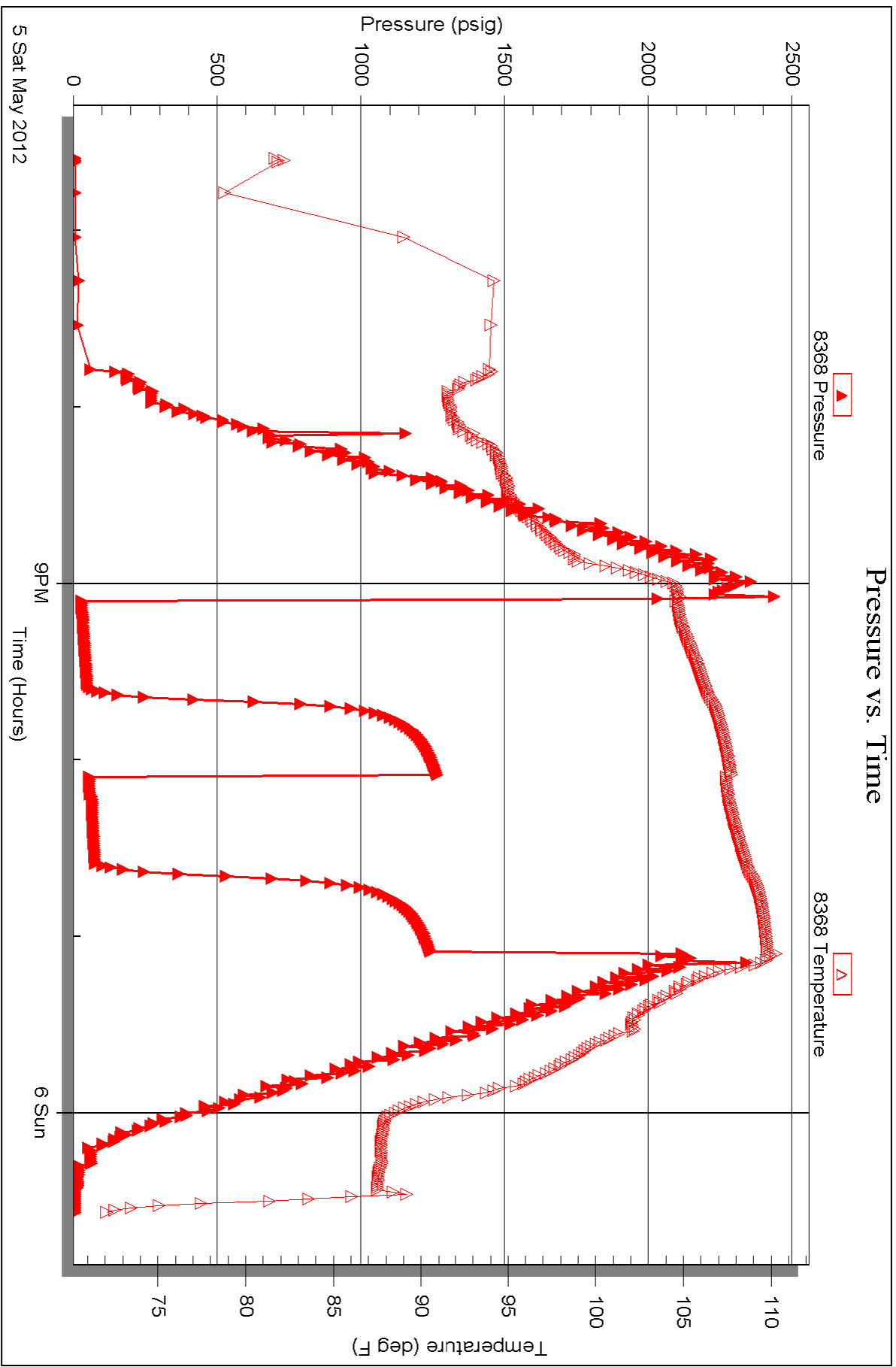
Serial #: 8368

Inside

Ritchie Exploration

Simons #1

DST Test Number: 11





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 30 2012

BY: _____

Test Ticket

NO. 45866

Well Name & No. Simons #1 Test No. #1 Date 4/27/12
 Company Ritchie Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St N. #700 Box 753188, Wichita, KS 67278
 Co. Rep / Geo. Max Levely Rig Murphy #14
 Location: Sec. 14 Twp. 17 Rge. 35w Co. Wichita State Ks

Interval Tested 3891 3980 Zone Tested King Hill
 Anchor Length 89 Drill Pipe Run 3363' Mud Wt. 9.4
 Top Packer Depth 3886 Drill Collars Run 531' XH Vis 6.9
 Bottom Packer Depth 3891 Wt. Pipe Run _____ WL 9.6
 Total Depth 3980 Chlorides 2000 ppm System LCM #2

Blow Description 10" in. blow
No return
7 1/2" in. blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>WCM</u>			<u>30</u>	<u>70</u>
<u>180</u>	<u>MCW</u>			<u>75</u>	<u>25</u>
<u>350</u>	<u>SMCW</u>			<u>90</u>	<u>10</u>
____	____			____	____
____	____			____	____

Rec Total 650' BHT 1060° Gravity _____ API RW 301 @ 76 °F Chlorides 20500 ppm

(A) Initial Hydrostatic 2010 Test 1150' T-On Location 09:55
 (B) First Initial Flow 46 Jars 250' T-Started 10:50
 (C) First Final Flow 241 Safety Joint 75' T-Open 12:50
 (D) Initial Shut-In 987 Circ Sub N/C T-Pulled 15:50
 (E) Second Initial Flow 241 Hourly Standby _____ T-Out 18:00
 (F) Second Final Flow 336 Mileage 43 RT 666.65 Comments _____
 (G) Final Shut-In 945 Sampler _____
 (H) Final Hydrostatic 1910 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1541.65
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1641.65

Approved By Max Levely Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

ECLIPSE
APR 30 2012

Test Ticket

NO. 45867

Well Name & No. Simons #1 Test No. #2 Date 4/28/12
 Company Ritchie Exploration Elevation 3177 KB 3167 GL
 Address 800 E. 22nd St. N #700 Box 783188, Wichita, Ks
 Co. Rep / Geo. Max Lovely Rig Mudwin #14
 Location: Sec. 14 Twp. 17s Rge. 35w Co. Wichita State Ks

Interval Tested 4021 4060 Zone Tested Toronto
 Anchor Length 39 Drill Pipe Run 3488 Mud Wt. 9.4
 Top Packer Depth 4014 Drill Collars Run 5.31' XH Vis 64
 Bottom Packer Depth 4021 Wt. Pipe Run --- WL 9.4
 Total Depth 4060 Chlorides 4000 ppm System LCM #2

Blow Description Surface blow dced in 12 min,
if no return
Very weak blow, intermittent surface blow
no return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Mud w/ oil spots</u>	<u>spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60' BHT 105' Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2028 Test 1250' T-On Location 03:25
 (B) First Initial Flow 25 Bars 250' T-Started 03:40
 (C) First Final Flow 51 Safety Joint 75' T-Open 05:35
 (D) Initial Shut-In 1013 Circ Sub n/c T-Pulled 07:35
 (E) Second Initial Flow 53 Hourly Standby T-Out 09:35
 (F) Second Final Flow 76 Mileage 43 RT lele. 65 Comments _____
 (G) Final Shut-In 958 Sampler _____
 (H) Final Hydrostatic 1951 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1641.65 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012
BY: _____

Test Ticket

NO. 46471

Well Name & No. Simons # 1 14CD Test No. 3 Date 4-29-12
 Company Ritche Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St N # 700 box 783188 Wichita, KS
 Co. Rep / Geo. Max Louley Rig Murfin 14
 Location: Sec. 14 Twp. 17s Rge. 35w Co. wichita State KS

Interval Tested 4104 - 4194 Zone Tested Lansing C-D-E-F
 Anchor Length 93 Drill Pipe Run 3555 Mud Wt. 9.3
 Top Packer Depth 4099 Drill Collars Run 531 Vis 50
 Bottom Packer Depth 4104 Wt. Pipe Run --- WL 8.0
 Total Depth 4194 Chlorides 4200 ppm System LCM 2 #
 Blow Description B.O.B 15 min
NO Return
built to 8 inch blow
NO Return

Rec	Feet of	%gas	TR	%oil	%water	%mud
7 Rec 290	Feet of SOWCM				10%	90%
1 Rec 360	Feet of WCM				80%	20%
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud
Rec	Feet of	%gas		%oil	%water	%mud

Rec Total 650 BHT 109° Gravity --- API RW 0.227@ 69° F Chlorides 30,000 ppm
 Test 1250'
 Jars ---
 Safety Joint ---
 Circ Sub N/C
 Hourly Standby
 Mileage 43 R/T Lab. 65
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1316.65
 T-On Location 0343
 T-Started 0418
 T-Open 0650
 T-Pulled 0950
 T-Out 1153
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1316.65
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 (A) Initial Hydrostatic 2062
 (B) First Initial Flow 97
 (C) First Final Flow 271
 (D) Initial Shut-In 1058
 (E) Second Initial Flow 276
 (F) Second Final Flow 355
 (G) Final Shut-In 1000
 (H) Final Hydrostatic 2018

Our Representative Col. Buchholz

Approved By Max Louley
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its services concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012

Test Ticket

NO. 46472

Well Name & No. Simons #1 14CD Test No. 4 Date 4-29-12
 Company Ritche Exploration Elevation 3177 KB 3167 GL
 Address 9100 E 22nd st + N #700 box 783188 Wichita KS
 Co. Rep/Geo. Max Lowley Rig Murkin 14
 Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4206 - 4234 Zone Tested Lansing -G-
 Anchor Length 28 Drill Pipe Run 3681 Mud Wt. 9.4
 Top Packer Depth 4201 Drill Collars Run 531 Vis 65
 Bottom Packer Depth 4206 Wt. Pipe Run — WL 8.8
 Total Depth 4234 Chlorides 4,800 ppm System LCM 2 #
 Blow Description BoB 7 min
No Return.
BoB 9 min
No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>Feet of MCW</u>		<u>60</u>	<u>40</u>	
<u>900</u>	<u>Feet of W</u>		<u>100</u>		

Rec Total 1200 BHT 111°
 (A) Initial Hydrostatic 2,063
 (B) First Initial Flow 33
 (C) First Final Flow 379
 (D) Initial Shut-In 1,176
 (E) Second Initial Flow 374
 (F) Second Final Flow 610
 (G) Final Shut-In 1,184
 (H) Final Hydrostatic 4988
 Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Gravily — API RW 271 @ 54° F Chlorides 80,000 ppm
 Test 1250
 Jars —
 Safety Joint —
 Circ Sub NC
 Hourly Standby —
 Mileage 43 R/T 66.65
 Sampler —
 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1316.65
 T-On Location 19:33
 T-Started 20:05
 T-Open 22:30
 T-Pulled 01:30
 T-Out 03:55
 Comments —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1316.65
 MP/DST Disc'l —

Approved By Max Lowley
 Our Representative Cal Prochaska
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the association concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED MAY 04 2012

Test Ticket

NO. 46474

Well Name & No. SIMONS #1 14CD Test No. 95 Date 4-30-12
Company Ritche exploration Elevation 3177 KB 3167 GL
Address 8100 E 22nd St N #700 box 783188 Wichita KS
Co. Rep / Geo. Max Lovley Rig murkin 14
Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4254-4323 Zone Tested Lansing H, I
Anchor Length 69 Drill Pipe Run 3714 Mud Wt. 9.2
Top Packer Depth 4249 Drill Collars Run 531 Vis 56
Bottom Packer Depth 4254 Wt. Pipe Run — WL 8.0
Total Depth 4323 Chlorides 4,900 ppm System LCM 2 #
Blow Description Surface blow

NO RETURN.

NO blow, flushed tool, weak surface blow did 10 min
NO RETURN.

Table with 5 columns: Rec, Feet of, %gas, %oil, %water, %muc. Row 1: Rec 20, Feet of M, %gas, %oil, %water, 100% muc.

Rec Total 20 BHT 105° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2,135 Test 1255 T-On Location 16:45
(B) First Initial Flow 20 Jars — T-Started 17:38
(C) First Final Flow 31 Safety Joint — T-Open 20:00
(D) Initial Shut-In 1,005 Circ Sub N/C T-Pulled 22:00
(E) Second Initial Flow 35 Hourly Standby — T-Out 23:40
(F) Second Final Flow 49 Mileage 43/R+ 46.65
(G) Final Shut-In 931 Sampler —
(H) Final Hydrostatic 2,100 Straddle — Ruined Shale Packer —
Shale Packer — Ruined Packer —
Extra Packer — Extra Copies —
Extra Recorder — Sub Total 8
Day Standby — Total 1316.65
Accessibility — MP/DST Disc't —

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or lost property or personnel...



IRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012

Test Ticket

BY: _____ NO. 46576

Well Name & No. Simons # 1 14CD Test No. 6 Date 5-1-12
 Company Ritche Exploration Elevation 3177 KB 3167 GI
 Address 8100 E 22nd St N # 700 box 783188 Wichita KS
 Co. Rep / Geo. Max Louley Rig marfin 14
 Location: Sec. 14 Twp. 17 S Rge. 35 W Co. Wichita State KS

Interval Tested 4327 - 4351 Zone Tested Lansing J
 Anchor Length 24 Drill Pipe Run 3777 Mud Wt. 9.2
 Top Packer Depth 4322 Drill Collars Run 531 Vis 65
 Bottom Packer Depth 4327 Wt. Pipe Run — WL 8.0
 Total Depth 4351 Chlorides 7,100 ppm System LCM 3 #

Blow Description Built to 8 inch
NO Return.
Built to 5 inch
NO Return

Rec	Feet of	%gas	%oil	%water	%mu
<u>210</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>450</u>	<u>W</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mu
Rec	Feet of	%gas	%oil	%water	%mu
Rec	Feet of	%gas	%oil	%water	%mu

Rec Total 660 BHT 110° Gravity — API RW 271 @ 54° F Chlorides 80,000 (p)

(A) Initial Hydrostatic 2171 Test 1250 T-On Location 07:25
 (B) First Initial Flow 22 Jars — T-Started 07:54
 (C) First Final Flow 168 Safety Joint — T-Open 10:10
 (D) Initial Shut-In 1221 Circ Sub N/C T-Pulled 13:10
 (E) Second Initial Flow 174 Hourly Standby T-Out 16:11
 (F) Second Final Flow 309 Mileage 43 / RT 100.45 Comments _____
 (G) Final Shut-In 1217 Sampler _____
 (H) Final Hydrostatic 2075 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1316.45
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1316.45

Approved By Max Louley Our Representative Cole Archibald

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAY 04 2012

Test Ticket

NO. 46578

Well Name & No. Simons #1 14CD Test No. 7 Date 5-1-12
 Company Ritch Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St N #700 Box 783188 Wichita, KS
 Co. Rep / Geo. Max Lovley Rig Murkin 14
 Location: Sec. 14 Twp. 17 W Rge. 35 S Co. Wichita State KS

Interval Tested 4350 - 4377 Zone Tested Lancing -K-
 Anchor Length 27 Drill Pipe Run 3807 Mud Wt. 9.2
 Top Packer Depth 4345 Drill Collars Run 531 Vis 65
 Bottom Packer Depth 4350 Wt. Pipe Run - WL 8.0
 Total Depth 4377 Chlorides 7,100 ppm System LCM 3 #

Blow Description Built to 1 1/4 inch
No Return
Built to 1 1/4 inch
No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>MCO</u>	<u>90</u>	<u>10</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>MCO</u>	<u>80</u>	<u>20</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>OCM</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>90</u>	<u>MWCO</u>	<u>30</u>	<u>30</u>	<u>40</u>	<u>0</u>
<u>37</u>					

Rec Total 345 BHT 110° Gravity 1.9 API RW .286@ 70°F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2,249 Test 1250 T-On Location 23:00
 (B) First Initial Flow 21 Jars T-Started 23:35
 (C) First Final Flow 72 Safety Joint T-Open 04:45
 (D) Initial Shut-In 1,184 Circ Sub N/C T-Pulled 07:45
 (E) Second Initial Flow 78 Hourly Standby 3/4 hr 75' T-Out 09:42
 (F) Second Final Flow 134 Mileage 43 R/H 60.65 Comments _____
 (G) Final Shut-In 1,159 Sampler _____
 (H) Final Hydrostatic 2069 Straddle _____

Initial Open 30 Shale Packer Ruined Shale Packer
 Initial Shut-In 45 Extra Packer Ruined Packer
 Final Flow 45 Extra Recorder Extra Copies
 Final Shut-In 60 Day Standby Sub Total 0
 Accessibility Total 1391.65
 Sub Total 1391.65 MP/DST Disc't _____

Approved By _____ Our Representative Col Archibald

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RECEIVED Test Ticket

MAY 04 2012

NO. 46579

BY: _____

Well Name & No. Simons #1 14CD Test No. 8 Date 5-2-12
 Company Ratch Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St N # 700 Box 703188 Wichita KS
 Co. Rep / Geo. Max Louiey Rig Murfin 14
 Location: Sec. 14 Twp. 17w Rge. 35 S Co. Wichita State KS

Interval Tested 4375-4400 Zone Tested Base Lansing K
 Anchor Length 25 Drill Pipe Run 3827 Mud Wt. 9.3
 Top Packer Depth 4300 Drill Collars Run 531 Vis 65
 Bottom Packer Depth 4375 Wt. Pipe Run — WL 9.6
 Total Depth 4400 Chlorides 8,200 ppm System LCM 3 #
 Blow Description lost packer seat, reset packer - built to 1/4 inch
No Return.
Built to 1/2 inch
No Return

Rec	Feet of	%gas	%oil	%water	%mud
90	GOCM	5	15	80	
90	GOCM	15	30	55	
90	Gmco	20	75	5	
300	Drill mud			100	
570					

Rec Total 570 BHT 107° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2098 Test 1250 T-On Location 18:00
 (B) First Initial Flow 188 Jars T-Started 18:07
 (C) First Final Flow 246 Safety Joint T-Open 20:50
 (D) Initial Shut-In 1,176 Circ Sub N/C T-Pulled 23:05
 (E) Second Initial Flow 254 Hourly Standby T-Out 01:00
 (F) Second Final Flow 296 Mileage 43 Rt 46.05 Comments Could not
 (G) Final Shut-In 1,150 Sampler Get Gravity on oil
 (H) Final Hydrostatic 2,106 Straddle oil was like Jello.
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30 Extra Packer
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 45 Day Standby Total 1316.05
 Final Shut-In 60 Accessibility MP/DST Disc't
 Sub Total 1316.05

Approved By Max Louiey Our Representative Colin Birchfield
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Test Ticket

NO. 45868

Well Name & No. Simons #1 Test No. #9 Date 5/4/12
 Company Kitchie Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St. N #700 Box 783188, Wichita, Ks 67278
 Co. Rep / Geo. Max Lovely Rig Murphy #14
 Location: Sec. 14 Twp. 17s Rge. 35w Co. Wichita State Ks

Interval Tested 4476 4520 Zone Tested Altamont
 Anchor Length 44 Drill Pipe Run 3239' Mud Wt. 9.1
 Top Packer Depth 4471 Drill Collars Run 531' XH Vis 52
 Bottom Packer Depth 4476 Wt. Pipe Run — WL 8.8
 Total Depth 4520 Chlorides 8,000 ppm System LCM #3

Blow Description 2" in blow
No return
1" in blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>95'</u>	<u>Swcm</u>		<u>15</u>	<u>85</u>	
<u>180'</u>	<u>WCM</u>		<u>40</u>	<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 275' BHT 113° Gravity — API RW .198 @ 59° F Chlorides 42,000 ppm
 (A) Initial Hydrostatic 2285 Test 1250 T-On Location 19:23
 (B) First Initial Flow 41 Jars T-Started 20:12
 (C) First Final Flow 114 Safety Joint T-Open 22:23
 (D) Initial Shut-In 1073 Circ Sub N/C T-Pulled 01:23
 (E) Second Initial Flow 123 Hourly Standby T-Out _____
 (F) Second Final Flow 186 Mileage 66.65 Comments _____
 (G) Final Shut-In 810 Sampler _____
 (H) Final Hydrostatic 2216 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Sub Total 1316.65 Total 1316.65 MP/DST Disc't _____

Approved By Max Lovely Our Representative [Signature]

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TRILOBITE TESTING INC.

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Test Ticket

NO. 45869

4/10

Well Name & No. Simons #1 Test No. #10 Date 5/4/12
 Company Kitchie Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St. N #700 Box 783188, Wichita, KS 67278
 Co. Rep / Geo. Max Lovely Rig Mudwin #14
 Location: Sec. 14 Twp. 17S Rge. 35W Co. Wichita State KS

Interval Tested 4522 4543 Zone Tested Ahtamont 'B'
 Anchor Length 21 Drill Pipe Run 4003' Mud Wt. 9.3
 Top Packer Depth 4517 Drill Collars Run 531' XH Vis 55
 Bottom Packer Depth 4522 Wt. Pipe Run — WL 9.6
 Total Depth 4543 Chlorides 8400 ppm System LCM #3
 Blow Description Weak blow died in 2 min.

No return
No blow Flush tool after 5 min, Good Surge, No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1' BHT 108° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2246 Test 1250 T-On Location 11:30
 (B) First Initial Flow 26 Jars T-Started 11:55
 (C) First Final Flow 28 Safety Joint T-Open 14:08
 (D) Initial Shut-In 33 Circ Sub N/C T-Pulled 16:08
 (E) Second Initial Flow 25 Hourly Standby T-Out 19:10
 (F) Second Final Flow 29 Mileage 66.65 Comments —
 (G) Final Shut-In 34 Sampler —
 (H) Final Hydrostatic 2136 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1316.65
 Accessibility — MP/DST Disc't —

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1316.65

Approved By Max Lovely Our Representative [Signature]

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TRILOBITE TESTING INC.

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Test Ticket

NO. 45870

Well Name & No. Simons #1 Test No. #11 Date 5/5/12
 Company Ritchie Exploration Elevation 3177 KB 3167 GL
 Address 8100 E 22nd St. N #700 Box 783188, Wichita, KS 67278
 Co. Rep / Geo. Max Lowery Rig Mudwin #14
 Location: Sec. 14 Twp. 17S Rge. 35W Co. Wichita State Ks

Interval Tested 4547 4572 Zone Tested Altamont "C"
 Anchor Length 25 Drill Pipe Run 4003 Mud Wt. 9.3
 Top Packer Depth 4542 Drill Collars Run 531' XH Vis 51
 Bottom Packer Depth 4547 Wt. Pipe Run --- WL 9.4
 Total Depth 4572 Chlorides 7200 ppm System LCM #2

Blow Description Weak surface blow died in 5min, intermittent bubble rest of open
no return
Bubble to open tool, no blow, flush tool after 5min, good surge 1/4" in died to
no return surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>feet of free oil</u>	<u>100</u>			
<u>88'</u>	<u>feet of ocm</u>	<u>15</u>		<u>85</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90' BHT 108° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>2225</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:20</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars	T-Started <u>18:35</u>
(C) First Final Flow <u>42</u>	<input type="checkbox"/> Safety Joint	T-Open <u>21:04</u>
(D) Initial Shut-In <u>1258</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>23:04</u>
(E) Second Initial Flow <u>50</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>00:55</u>
(F) Second Final Flow <u>69</u>	<input checked="" type="checkbox"/> Mileage <u>66.65</u>	Comments
(G) Final Shut-In <u>1234</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2152</u>	<input type="checkbox"/> Straddle	

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1316.65
 MP/DST Disc't

Approved By Max Lowery Our Representative [Signature]

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