

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

10/28/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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 Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Jeff Christian
Purchaser: NCRA

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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.: _____
7/14/10 7/24/10 7/24/10
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 109-20926-00-00
Spot Description: 140' N & 122' E of
S/2 NW SW Sec. 24 Twp. 14 S. R. 32 East West
1790 Feet from North / South Line of Section
782 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: Bridges 24CD Well #: 1
Field Name: _____

Producing Formation: Morrow Sand & Johnson
Elevation: Ground: 2743 Kelly Bushing: 2753
Total Depth: 4460 Plug Back Total Depth: 4426
Amount of Surface Pipe Set and Cemented at: 214 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2197 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 2197 w/ 245 sx cmt.

Drilling Fluid Management Plan AF INJ 11-440
(Data must be collected from the Reserve Pit)
Chloride content: 7000 ppm Fluid volume: 700 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: 10/28/10
Subscribed and sworn to before me this 28th day of October
20 10
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received 10/28/10 10/28/12
If Denied, Yes Date: _____
 Wireline Log Received **RECEIVED**
 Geologist Report Received **OCT 29 2010**
 UIC Distribution

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

Operator Name: Ritchie Exploration, Inc. Lease Name: Bridges 24CD Well #: 1
 Sec. 24 Twp. 14 S. R. 32 East West County: Logan

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 <p style="text-align: center;">SEE ATTACHED</p>
---	---

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#	214	common	175	3%cc, 2%gel
Production	7-7/8	5-1/2	15.5#	4457	ASC	200	10% salt, 2% gel & 3/4% CD-31

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	4384.5' - 4391' (8/6/10)	1000 gals 7.5% MIRA w/10% Methanol	
4	4356.5' - 4361', 4342.5' - 4348' (9/8/10)	1000 gals 15% NE	
	*****Waiting on County Road to be built so can set Equipment*****		

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TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4410</u> Packer At:		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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EXPLORATION, INC.
Wichita, Kansas

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#1 Bridges 24CD

1790' FSL & 782' FWL

140' N & 122' E of S/2 NW SW Section 24-14S-32W

Logan County, Kansas

API# 15-109-20926-0000

Elevation: GL: 2743', KB: 2753'

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	2217'	+536	-1
B/Anhydrite	2232'	+521	+4
Heebner	3735'	-982	+13
Lansing	3770'	-1017	+14
Lansing "C"	3805'	-1052	+15
Lansing "D"	3820'	-1067	+12
Lansing "E"	3857'	-1104	+15
Muncie Shale	3928'	-1175	+20
Lansing "H"	3942'	-1189	+18
Lansing "I"	3974'	-1221	+17
Lansing "J"	4002'	-1249	+16
Lansing "K"	4036'	-1283	+10
Lansing "L"	4067'	-1314	+12
BKC	4111'	-1358	+9
Marmaton	4133'	-1380	+7
Altamont	4153'	-1400	+11
Pawnee	4222'	-1469	+16
Myric Station	4260'	-1507	+17
Fort Scott	4275'	-1522	+16
Cherokee Shale	4303'	-1550	+16
Johnson	4344'	-1591	+16
B/Johnson	4374'	-1621	+16
Morrow Sand	4384'	-1631	+36
Mississippian	4392'	-1639	+35
RTD	4460'	-1707	

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ALLIED CEMENTING CO., LLC. 038920

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

SERVICE POINT: Oakley, Ky

DATE <u>7/29/10</u>	SEC. <u>24</u>	TWP. <u>14</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>1300</u>	JOB FINISH <u>2:00p</u>
LEASE <u>2460</u>	WELL # <u>#1</u>	LOCATION <u>Oakley 205 1E Sinto</u>		COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR _____ OWNER Same

TYPE OF JOB Port collar

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port collar DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

394 DRIVER Jerry

BULK TRUCK

_____ DRIVER _____

CEMENT

AMOUNT ORDERED 450 SKs ALW

114 lb Flo Seal

used 245 SKs 300 lb Hells

COMMON ~~145~~ @ ~~15.45~~

POZMIX ~~284~~ @ ~~2.00~~ 284

GEL @ _____

CHLORIDE @ _____

ASC @ _____

ALW 245 SK @ 14.05 3442.25

Flo Seal - 61 @ 2.50 152.50

Hells 6 SKs - 300 lb @ 31.85 191.00

HANDLING 475 SKs @ 2.40 1135.20

MILEAGE 10.514/mile @ _____ 946.00

TOTAL 5867.05

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REMARKS:

Test tool to 1200 Op tool Take hole
Mix 245 SKs ALW 114 lb Flo Seal w/
300 lbs Hells. Close tool, pressure tool
to 1200, Held. Run 5 JTB, Reverse
Clean.

Cement did circulate
Tim Pa
Alan, Wayne, Jerry

Displace w 1200 lb H₂O
SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE @ _____

MILEAGE 20 miles @ 7.00 140.00

MANIFOLD @ _____

TOTAL 1325.00

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

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 Thomas A. [Signature]

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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Handwritten mark

ALLIED CEMENTING CO., LLC. 038900

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

SERVICE POINT: Dakly K's

DATE <u>7/14/10</u>	SEC <u>24</u>	TWP. <u>14</u>	RANGE <u>3L</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00am</u>	JOB FINISH <u>12:22am</u>
CASE <u>Bridges 2400</u>	WELL # <u>1</u>	LOCATION <u>Dakly 205 1E Sinto</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murphy 14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 212

CASING SIZE 8 5/8 DEPTH 217.56'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12-87 BBL

OWNER Same

CEMENT AMOUNT ORDERED 175 SKs Con
300cc 200gal

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

377 DRIVER W.1

BULK TRUCK

DRIVER

COMMON	<u>175</u>	@	<u>15.45</u>	<u>2703.75</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>25.00</u>	<u>62.40</u>
CHLORIDE	<u>6</u>	@	<u>58.00</u>	<u>348.00</u>
ASC		@		
HANDLING	<u>184</u>	@	<u>2.40</u>	<u>441.60</u>
MILEAGE <u>109 SK/mile</u>		@		<u>368.00</u>
TOTAL				<u>3924.95</u>

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REMARKS:

Run 8 5/8 Con, Circulate 175 SKs Con 300cc 200gal

Displace w/ 12-87 BBL H₂O

Cement did circulate

Frank Yu
Alan, Wayne, Jerry

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB	<u>217</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>20</u>		@	<u>7.00</u> <u>140.00</u>
MANIFOLD		@	
TOTAL <u>1188.00</u>			

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
TOTAL			

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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 Urub

SIGNATURE Craig Urub

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

R

ALLIED CEMENTING CO., LLC. 038910

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

SERVICE POINT:
Oakley, KS

DATE <u>7/24/10</u>	SEC. <u>24</u>	TWP. <u>14</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 p.m.</u>	JOB FINISH <u>11:00 p.m.</u>
LEASE <u>Bridges 24 CD</u>	WELL # <u>#1</u>	LOCATION <u>Oakley 205 E Side</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murphy 14
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 5 1/2 DEPTH 4458
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL Part collar DEPTH 2198
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 20.0
 CEMENT LEFT IN CSG. 30'
 PERFS.
 DISPLACEMENT

OWNER Same
 CEMENT
 AMOUNT ORDERED 250 SKI ASC 290 gal
10 7/8 salt 5# Gilsomite
3/4-1 7/8 CD31 500 gal WFR II
 COMMON @
 POZMIX @
 GEL 5 @ 2000 104.00
 CHLORIDE @
 ASC 250 @ 18.60 4650.00
 @
CD 31 126 lb @ 9.35 1645.60
 @
Gilsomite 1250 lb @ .89 1112.50
 @
Salt 28 SKI @ 23.95 670.60
 @
WFR II @ 1.22 635.00
 HANDLING 311 SKI @ 2.40 746.40
 MILEAGE 10.4 SK/mile @ 62.20 622.00
 TOTAL 10186.70

EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 422 HELPER Wayne
 BULK TRUCK
 # 304 DRIVER Jarren
 BULK TRUCK
 # DRIVER

COMMON @
 POZMIX @
 GEL 5 @ 2000 104.00
 CHLORIDE @
 ASC 250 @ 18.60 4650.00
 @
CD 31 126 lb @ 9.35 1645.60
 @
Gilsomite 1250 lb @ .89 1112.50
 @
Salt 28 SKI @ 23.95 670.60
 @
WFR II @ 1.22 635.00
 HANDLING 311 SKI @ 2.40 746.40
 MILEAGE 10.4 SK/mile @ 62.20 622.00
 TOTAL 10186.70

REMARKS:

Run 500 gal WFR II, Mix 200 SKI, M.H. 30 SKI
Set Hole Mix 200 SKI, ASC 290 gal, 10 7/8 salt
5# Gilsomite down 5 1/2 cgs, Displace
Plug to Insert w/107 6 1/2" H2O
w/1200 PST Lift Land Plug
1700 PST, Insert Hole,
Plug down @ 11:00 p.m.

Thank You
Alan, Wayne, Jarren

SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE 2011.00
 EXTRA FOOTAGE @
 MILEAGE 2.0 @ 70.00 140.00
 MANIFOLD @

CHARGE TO: Ritchie Explorations
 STREET
 CITY STATE ZIP

TOTAL 2151.00

PLUG & FLOAT EQUIPMENT

AF4 Insert 112.00
Guide Shoe @ 107.00
Basket @ 186.00
Basket @ 483.00
Part Collar @ 1750.00
Turbo Liners @ 336.00
Rubber Plug @ 87.00
 TOTAL 3055.00

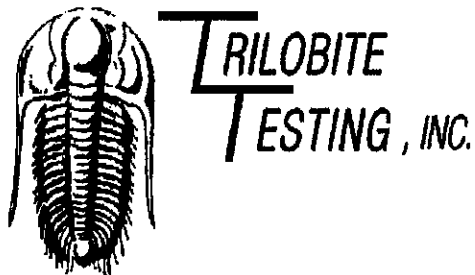
To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS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

PRINTED NAME
 SIGNATURE Thomas A. A.

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

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DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.17 @ 15:06:05

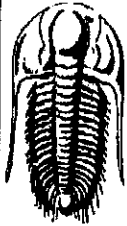
End Date: 2010.07.17 @ 22:04:44

Job Ticket #: 39193 DST #: 1

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

Bridges 24CD #1

24-14s-32w Logan KS

Job Ticket: 39193

DST#: 1

Test Start: 2010.07.17 @ 15:06:05

GENERAL INFORMATION:

Formation: **Lan. C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:52:15

Time Test Ended: 22:04:44

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **3792.00 ft (KB) To 3816.00 ft (KB) (TVD)**

Total Depth: 3816.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2753.00 ft (KB)

2742.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 630.37 psig @ 3793.00 ft (KB)

Start Date: 2010.07.17

End Date:

2010.07.17

Start Time: 15:06:05

End Time:

22:04:44

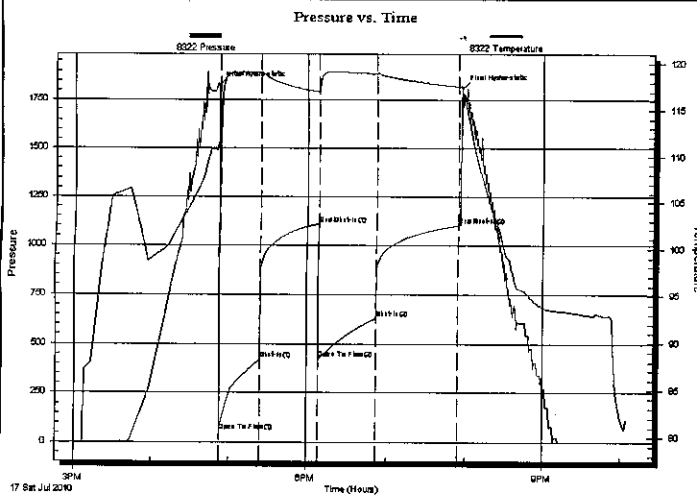
Capacity: 8000.00 psig

Last Calib.: 2010.07.17

Time On Btm: 2010.07.17 @ 16:51:00

Time Off Btm: 2010.07.17 @ 19:57:14

TEST COMMENT: IF: BOB in 3 mins.
IS: 1/4 inch died 12 mins.
FF: BOB in 6 mins.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.85	111.52	Initial Hydro-static
2	56.69	111.37	Open To Flow (1)
33	419.32	119.06	Shut-In(1)
78	1108.61	116.96	End Shut-In(1)
78	422.54	116.80	Open To Flow (2)
122	630.37	118.93	Shut-In(2)
184	1100.12	117.57	End Shut-In(2)
187	1811.08	116.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100%m	0.15
1114.00	SMCW 95%w 5%m	9.27
205.00	O&WCM 5%o 55%w 45%m	2.30
1.00	O 100%o	0.01
0.00	GIP = 0	0.00
0.00	RW = .221@75F = 32000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39193

DST#: 1

ATTN: Jeff Christian

Test Start: 2010.07.17 @ 15:06:05

Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.40 inches	Volume: 36.32 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 38.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3792.00 ft			Final 72000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	5.00			3788.00	20.00 Bottom Of Top Packer
Packer	4.00			3792.00	
Stubb	1.00			3793.00	
Recorder	0.00	8322	Inside	3793.00	
Recorder	0.00	8166	Inside	3793.00	
Perforations	20.00			3813.00	
Bullnose	3.00			3816.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39193

DST#: 1

ATTN: Jeff Christian

Test Start: 2010.07.17 @ 15:06:05

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:	32000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.71 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100% <i>m</i>	0.148
1114.00	SMCW 95% <i>w</i> 5% <i>m</i>	9.272
205.00	O&WCM 5% <i>o</i> 55% <i>w</i> 45% <i>m</i>	2.302
1.00	O 100% <i>o</i>	0.011
0.00	GIP = 0	0.000
0.00	RW = .221@75F = 32000 ppm	0.000

Total Length: 1350.00 ft Total Volume: 11.733 bbl

Num Fluid Samples: 0

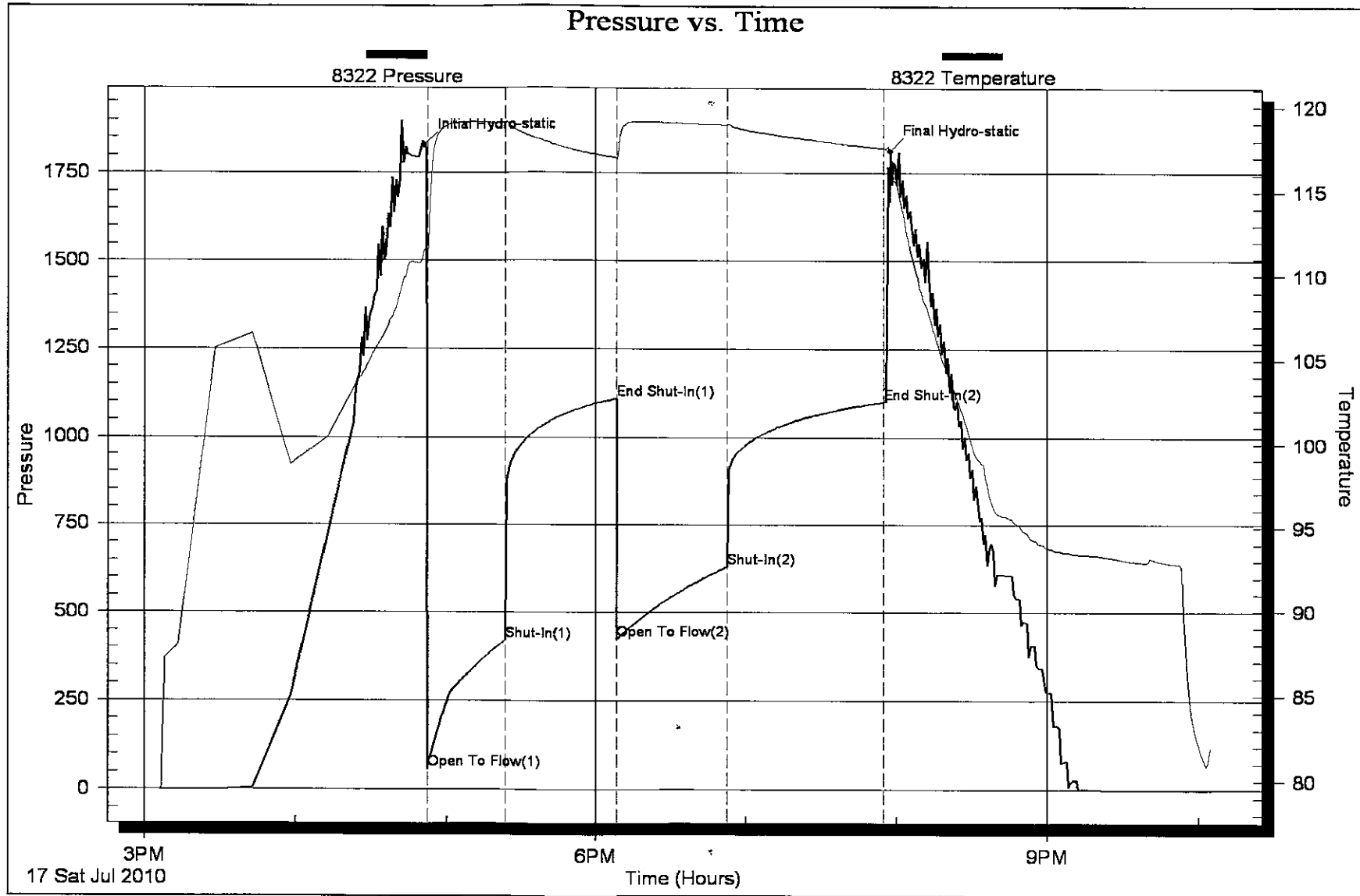
Num Gas Bombs: 0

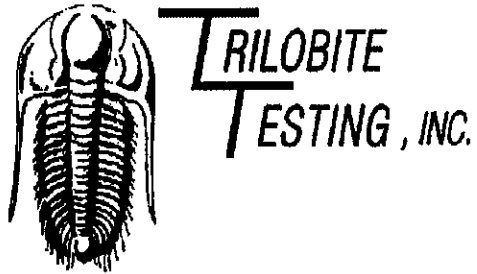
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

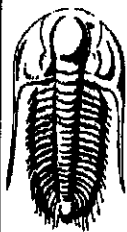
Bridges 24CD #1

Start Date: 2010.07.18 @ 04:14:05

End Date: 2010.07.18 @ 11:05:44

Job Ticket #: 39194 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

Bridges 24CD #1

24-14s-32w Logan KS

Job Ticket: 39194

DST#: 2

Test Start: 2010.07.18 @ 04:14:05

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:45

Time Test Ended: 11:05:44

Interval: **3815.00 ft (KB) To 3840.00 ft (KB) (TVD)**

Total Depth: **3840.00 ft (KB) (TVD)**

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

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Reference Elevations: 2753.00 ft (KB)

2742.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 347.35 psig @ 3816.00 ft (KB)

Start Date: 2010.07.18

End Date: 2010.07.18

Start Time: 04:14:05

End Time: 11:05:44

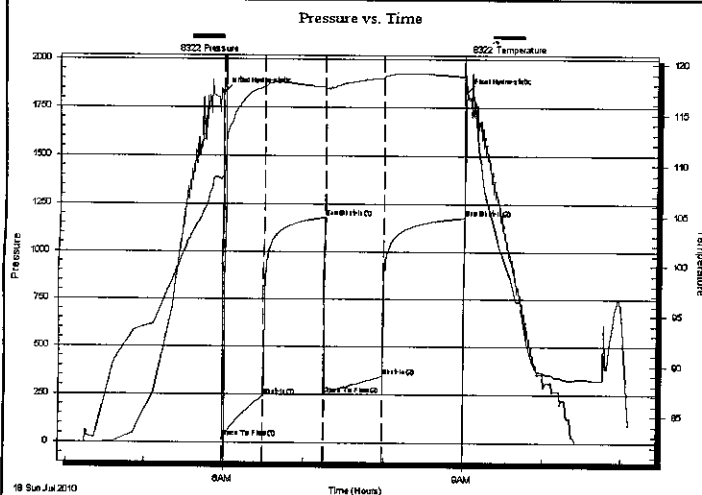
Capacity: 8000.00 psig

Last Calib.: 2010.07.18

Time On Btm: 2010.07.18 @ 05:58:30

Time Off Btm: 2010.07.18 @ 09:01:14

TEST COMMENT: IF: BOB in 11 mins.
IS: Built to 2 1/4 inches died in 34 mins.
FF: BOB in 19 mins.
FS: Built to 3 inches died in 46 mins.



PRESSURE SUMMARY

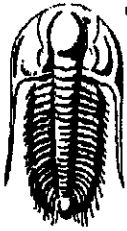
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.02	108.92	Initial Hydro-static
1	24.24	108.26	Open To Flow (1)
31	243.40	117.79	Shut-In(1)
76	1183.13	117.78	End Shut-In(1)
77	249.83	117.56	Open To Flow (2)
121	347.35	118.66	Shut-In(2)
182	1180.76	118.79	End Shut-In(2)
183	1831.77	117.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100%m	0.15
610.00	MCW 80%w 20%m	3.61
140.00	CG&O 10%g 90%o	1.57
0.00	GIP = 250 ft	0.00
0.00	API = 38@95F = 34.5	0.00
0.00	RW = .155@95F = 40000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39194

DST#: 2

ATTN: Jeff Christian

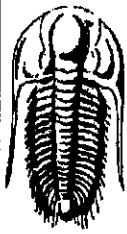
Test Start: 2010.07.18 @ 04:14:05

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.40 inches	Volume: 36.68 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 39.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3815.00 ft			Final 70000.00 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			3796.00	
Shut In Tool	5.00			3801.00	
Hydraulic tool	5.00			3806.00	
Packer *	5.00			3811.00	20.00 * Bottom Of Top Packer
Packer *	4.00			3815.00	*
Stubb	1.00			3816.00	
Recorder	0.00	8322	Inside	3816.00	
Recorder	0.00	8166	Inside	3816.00	
Perforations	21.00			3837.00	
Bullnose	3.00			3840.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39194

DST#: 2

ATTN: Jeff Christian

Test Start: 2010.07.18 @ 04:14:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.71 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
610.00	MCW 80%w 20%m	3.612
140.00	CG&O 10%g 90%o	1.572
0.00	GIP = 250 ft	0.000
0.00	API = 38@95F = 34.5	0.000
0.00	RW = .155@95F = 40000 ppm	0.000

Total Length: 780.00 ft

Total Volume: 5.332 bbl

Num Fluid Samples: 0

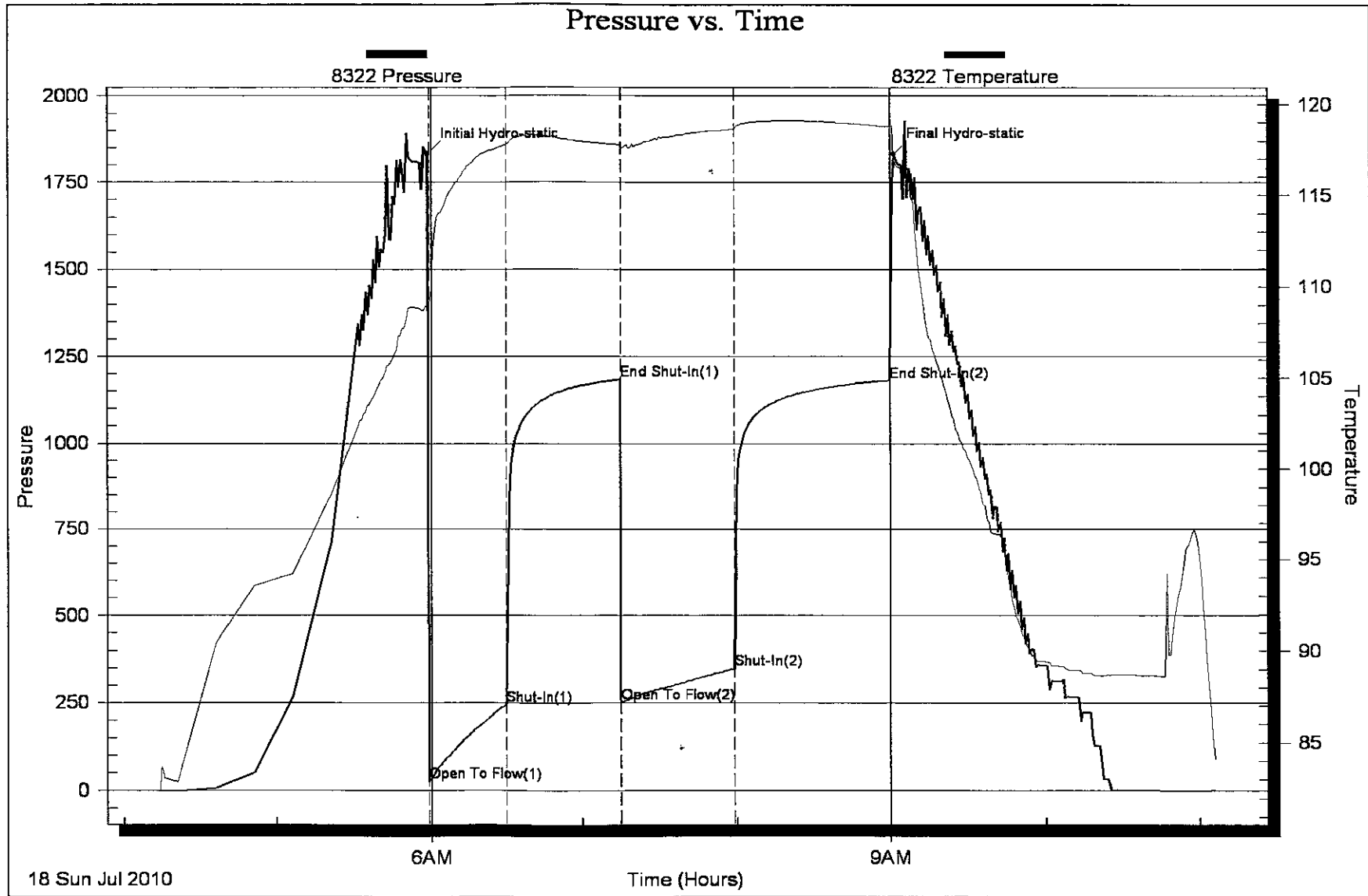
Num Gas Bombs: 0

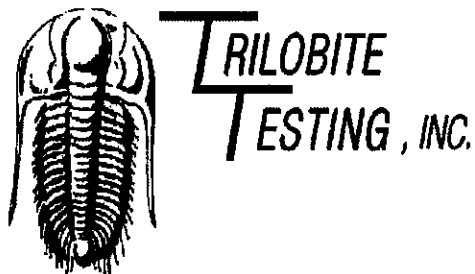
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.18 @ 17:08:05

End Date: 2010.07.18 @ 22:11:59

Job Ticket #: 39195 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Ritchie Exploration Inc.

Bridges 24CD #1

24-14s-32w Logan KS

DST # 3

LKC "E"

2010.07.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 PO Box 783188
 Wichita KS 67278
 ATTN: Jeff Christian

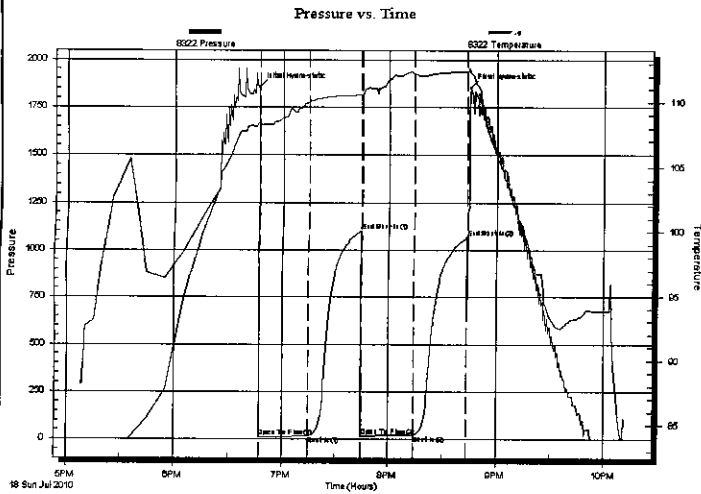
Bridges 24CD #1
24-14s-32w Logan KS
 Job Ticket: 39195 **DST#: 3**
 Test Start: 2010.07.18 @ 17:08:05

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 18:47:15
 Time Test Ended: 22:11:59
 Interval: **3845.00 ft (KB) To 3868.00 ft (KB) (TVD)**
 Total Depth: **3868.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Brandon Domsch**
 Unit No: **48**
 Reference Elevations: **2753.00 ft (KB)**
2742.00 ft (CF)
 KB to GR/CF: **11.00 ft**

Serial #: 8322 **Inside**
 Press@RunDepth: **21.31 psig @ 3846.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.07.18** End Date: **2010.07.18** Last Calib.: **2010.07.18**
 Start Time: **17:08:05** End Time: **22:11:59** Time On Btm: **2010.07.18 @ 18:47:00**
 Time Off Btm: **2010.07.18 @ 20:45:00**

TEST COMMENT: IF: Weak surface blow for 30 secs.
 IS: No return.
 FF: No blow, flushed tool at 10 mins, no blow.
 FS: No return.



PRESSURE SUMMARY

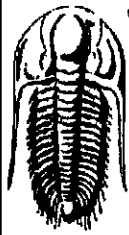
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1856.26	108.45	Initial Hydro-static
1	9.49	108.10	Open To Flow (1)
28	14.50	110.03	Shut-In(1)
58	1101.82	110.58	End Shut-In(1)
58	16.29	110.41	Open To Flow (2)
87	21.31	112.22	Shut-In(2)
117	1064.62	112.40	End Shut-In(2)
118	1855.54	112.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mw / a few O spots 100%m	0.01
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39195

DST#: 3

ATTN: Jeff Christian

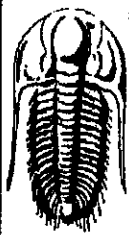
Test Start: 2010.07.18 @ 17:08:05

Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.40 inches	Volume: 37.02 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 39.69 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3845.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 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			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Packer	5.00			3841.00	20.00 Bottom Of Top Packer
Packer	4.00			3845.00	
Stubb	1.00			3846.00	
Recorder	0.00	8322	Inside	3846.00	
Recorder	0.00	8166	Inside	3846.00	
Perforations	19.00			3865.00	
Bullnose	3.00			3868.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

ATTN: Jeff Christian

Job Ticket: 39195

DST#: 3

Test Start: 2010.07.18 @ 17:08:05

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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.13 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
3.00	Mw / a few O spots 100% _m	0.015
0.00	GIP = 0	0.000

Total Length: 3.00 ft

Total Volume: 0.015 bbf

Num Fluid Samples: 0

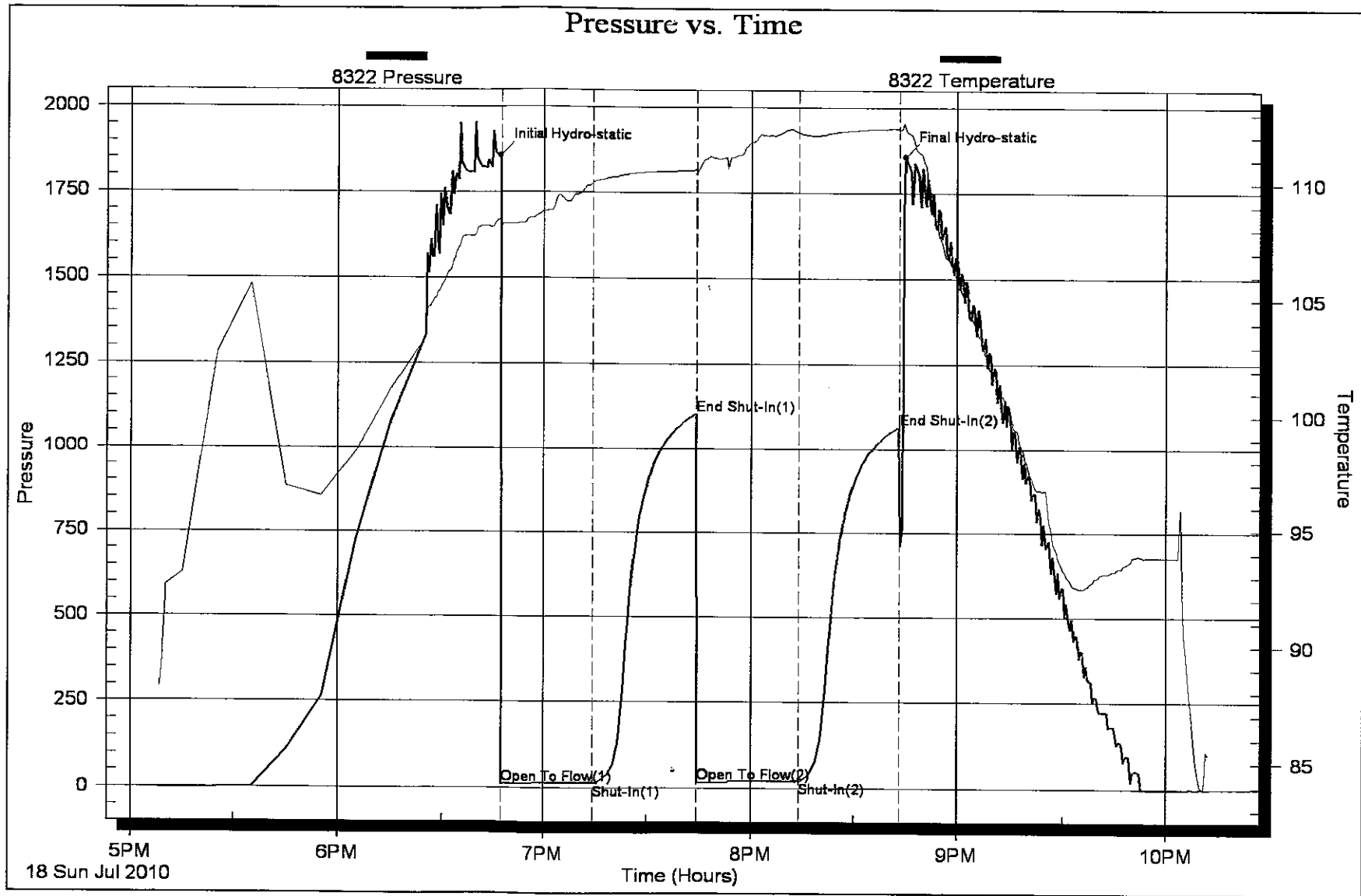
Num Gas Bombs: 0

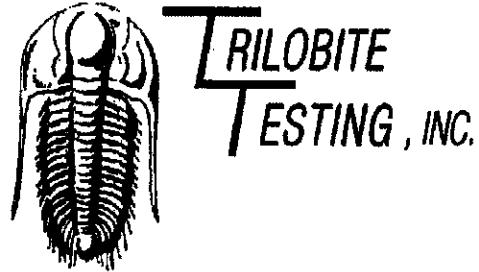
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.19 @ 09:05:05

End Date: 2010.07.19 @ 14:22:14

Job Ticket #: 39196 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Ritchie Exploration Inc.

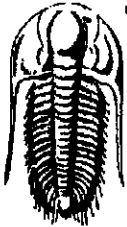
Bridges 24CD #1

24-14s-32w Logan KS

DST # 4

LKC "H"

2010.07.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

Bridges 24CD #1

24-14s-32w Logan KS

Job Ticket: 39196

DST#: 4

Test Start: 2010.07.19 @ 09:05:05

GENERAL INFORMATION:

Formation: LKC "H"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:50:00

Time Test Ended: 14:22:14

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 3926.00 ft (KB) To 3955.00 ft (KB) (TVD)

Total Depth: 3955.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2753.00 ft (KB)

2742.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 39.95 psig @ 3927.00 ft (KB)

Start Date: 2010.07.19

End Date: 2010.07.19

Start Time: 09:05:05

End Time: 14:22:14

Capacity: 8000.00 psig

Last Calib.: 2010.07.19

Time On Btm: 2010.07.19 @ 10:49:30

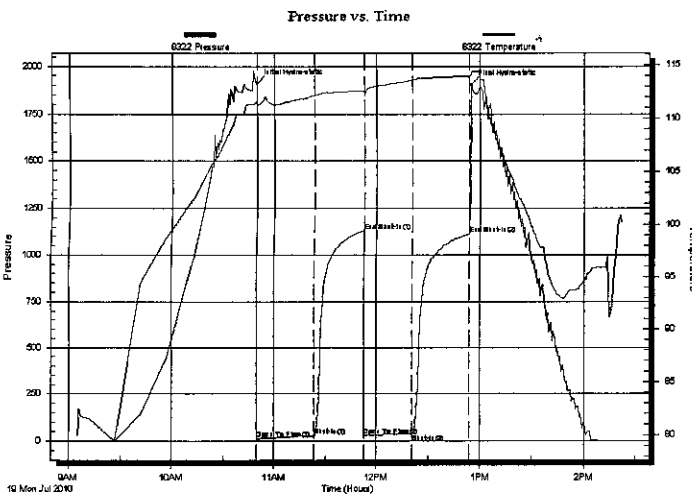
Time Off Btm: 2010.07.19 @ 12:54:45

TEST COMMENT: IF: Built to 1/4 inch died in 23 mins.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

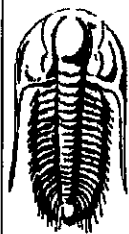
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.17	111.58	Initial Hydro-static
1	11.34	111.22	Open To Flow (1)
34	26.90	112.12	Shut-In(1)
63	1130.51	112.58	End Shut-In(1)
63	29.17	112.10	Open To Flow (2)
92	39.95	113.61	Shut-In(2)
125	1112.51	113.91	End Shut-In(2)
126	1905.17	114.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100% m	0.05
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39196

DST#: 4

ATTN: Jeff Christian

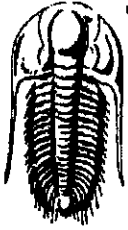
Test Start: 2010.07.19 @ 09:05:05

Tool Information

Drill Pipe:	Length: 3393.00 ft	Diameter: 3.40 inches	Volume: 38.10 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 40.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3926.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 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			3907.00	
Shut In Tool	5.00			3912.00	
Hydraulic tool	5.00			3917.00	
Packer	5.00			3922.00	20.00 Bottom Of Top Packer
Packer	4.00			3926.00	
Stubb	1.00			3927.00	
Recorder	0.00	8322	Inside	3927.00	
Recorder	0.00	8166	Inside	3927.00	
Perforations	25.00			3952.00	
Bullnose	3.00			3955.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39196

DST#: 4

ATTN: Jeff Christian

Test Start: 2010.07.19 @ 09:05:05

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.29 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	M 100% _m	0.049
0.00	GIP = 0	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

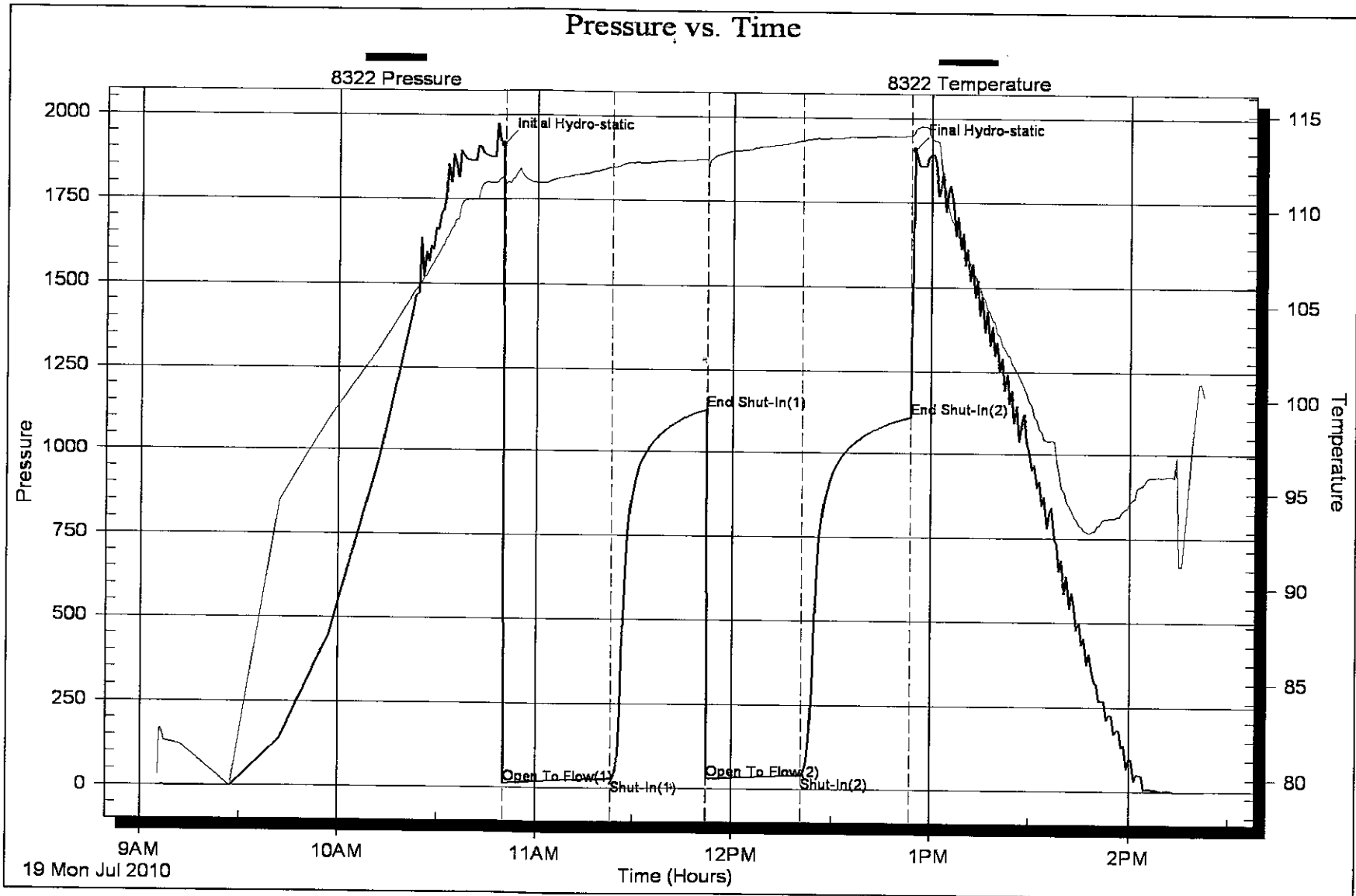
Num Gas Bombs: 0

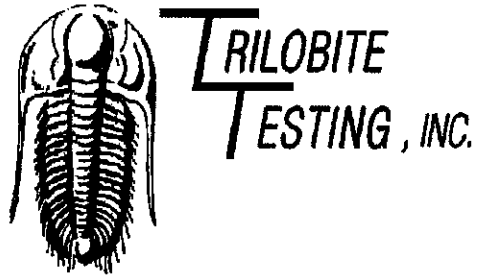
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.19 @ 21:14:05

End Date: 2010.07.20 @ 02:53:29

Job Ticket #: 39197 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Ritchie Exploration Inc.

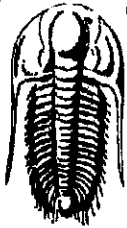
Bridges 24CD #1

24-14s-32w Logan KS

DST # 5

LKC "I"

2010.07.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.
PO Box 783188
Wichita KS 67278
ATTN: Jeff Christian

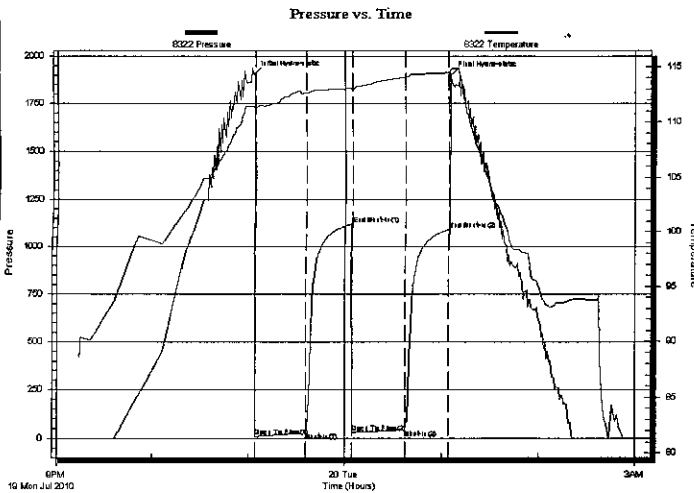
Bridges 24CD #1
24-14s-32w Logan KS
Job Ticket: 39197 DST#: 5
Test Start: 2010.07.19 @ 21:14:05

GENERAL INFORMATION:

Formation: LKC "I"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:04:00
Time Test Ended: 02:53:29
Interval: 3958.00 ft (KB) To 3990.00 ft (KB) (TVD)
Total Depth: 3990.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2753.00 ft (KB)
2742.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8322 Inside
Press@RunDepth: 46.93 psig @ 3959.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.07.19 End Date: 2010.07.20 Last Calib.: 2010.07.20
Start Time: 21:14:05 End Time: 02:53:29 Time On Btm: 2010.07.19 @ 23:03:15
Time Off Btm: 2010.07.20 @ 01:05:45

TEST COMMENT: IF: Built to 1/2 inch died back to a weak surface blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.31	111.39	Initial Hydro-static
1	10.68	110.85	Open To Flow (1)
33	29.74	112.62	Shut-In(1)
62	1120.53	113.09	End Shut-In(1)
62	31.96	112.80	Open To Flow (2)
95	46.93	114.06	Shut-In(2)
122	1091.22	114.46	End Shut-In(2)
123	1899.21	114.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10% @ 90% m	0.05
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

ATTN: Jeff Christian

Job Ticket: 39197

DST#: 5

Test Start: 2010.07.19 @ 21:14:05

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.40 inches	Volume: 38.46 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 41.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3958.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			3939.00	
Shut In Tool	5.00			3944.00	
Hydraulic tool	5.00			3949.00	
Packer	5.00			3954.00	20.00 Bottom Of Top Packer
Packer	4.00			3958.00	
Stubb	1.00			3959.00	
Recorder	0.00	8322	Inside	3959.00	
Recorder	0.00	8166	Inside	3959.00	
Perforations	28.00			3987.00	
Bullnose	3.00			3990.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39197

DST#: 5

ATTN: Jeff Christian

Test Start: 2010.07.19 @ 21:14:05

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: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.30 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	OCM 10%o 90%m	0.049
0.00	GIP = 0	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

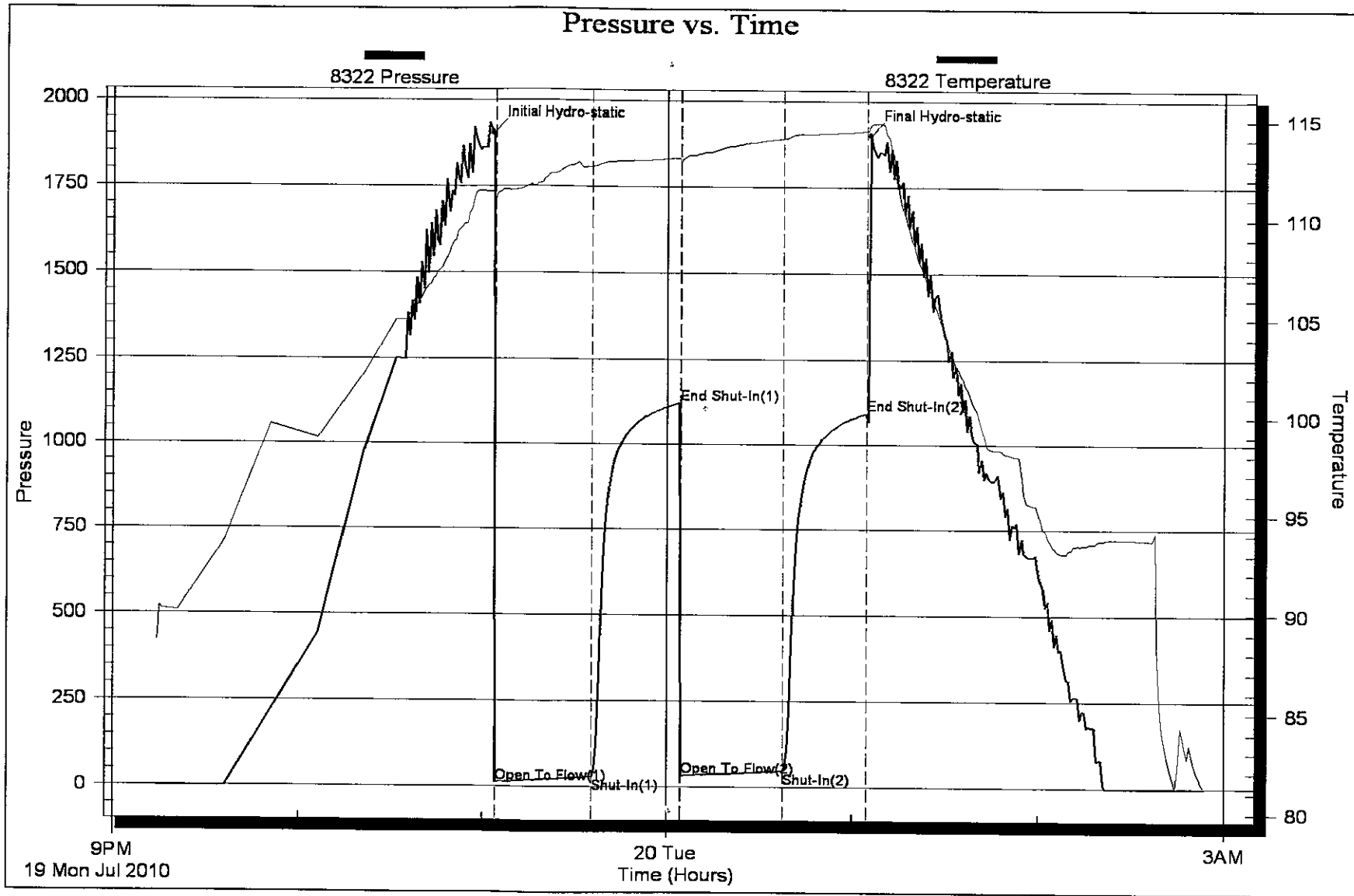
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.20 @ 16:06:05

End Date: 2010.07.21 @ 00:09:59

Job Ticket #: 39198 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39198

DST#: 6

ATTN: Jeff Christian

Test Start: 2010.07.20 @ 16:06:05

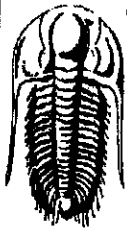
Tool Information

Drill Pipe:	Length: 3457.00 ft	Diameter: 3.40 inches	Volume: 38.82 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 41.49 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3994.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.00 ft			
Tool Length:	132.00 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			3975.00	
Shut In Tool	5.00			3980.00	
Hydraulic tool	5.00			3985.00	
Packer	5.00			3990.00	20.00 Bottom Of Top Packer
Packer	4.00			3994.00	
Stubb	1.00			3995.00	
Recorder	0.00	8322	Inside	3995.00	
Recorder	0.00	8166	Inside	3995.00	
Perforations	11.00			4006.00	
Change Over Sub	1.00			4007.00	
Drill Pipe	95.00			4102.00	
Change Over Sub	1.00			4103.00	
Bullnose	3.00			4106.00	112.00 Bottom Packers & Anchor

Total Tool Length: 132.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39198

DST#: 6

ATTN: Jeff Christian

Test Start: 2010.07.20 @ 16:06:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38.5 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 28000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 6.72 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
323.00	W&M 50%w 50%m	1.588
190.00	GO&WCM 10%g 15%o 10%w 65%m	0.934
967.00	CG&O 75%g 25%o	10.859
0.00	GIP = 1435 ft	0.000
0.00	API = 40@75F = 38.5 corrected	0.000
0.00	RW = .235@75F = 28000 ppm	0.000

Total Length: 1510.00 ft Total Volume: 13.529 bbl

Num Fluid Samples: 0

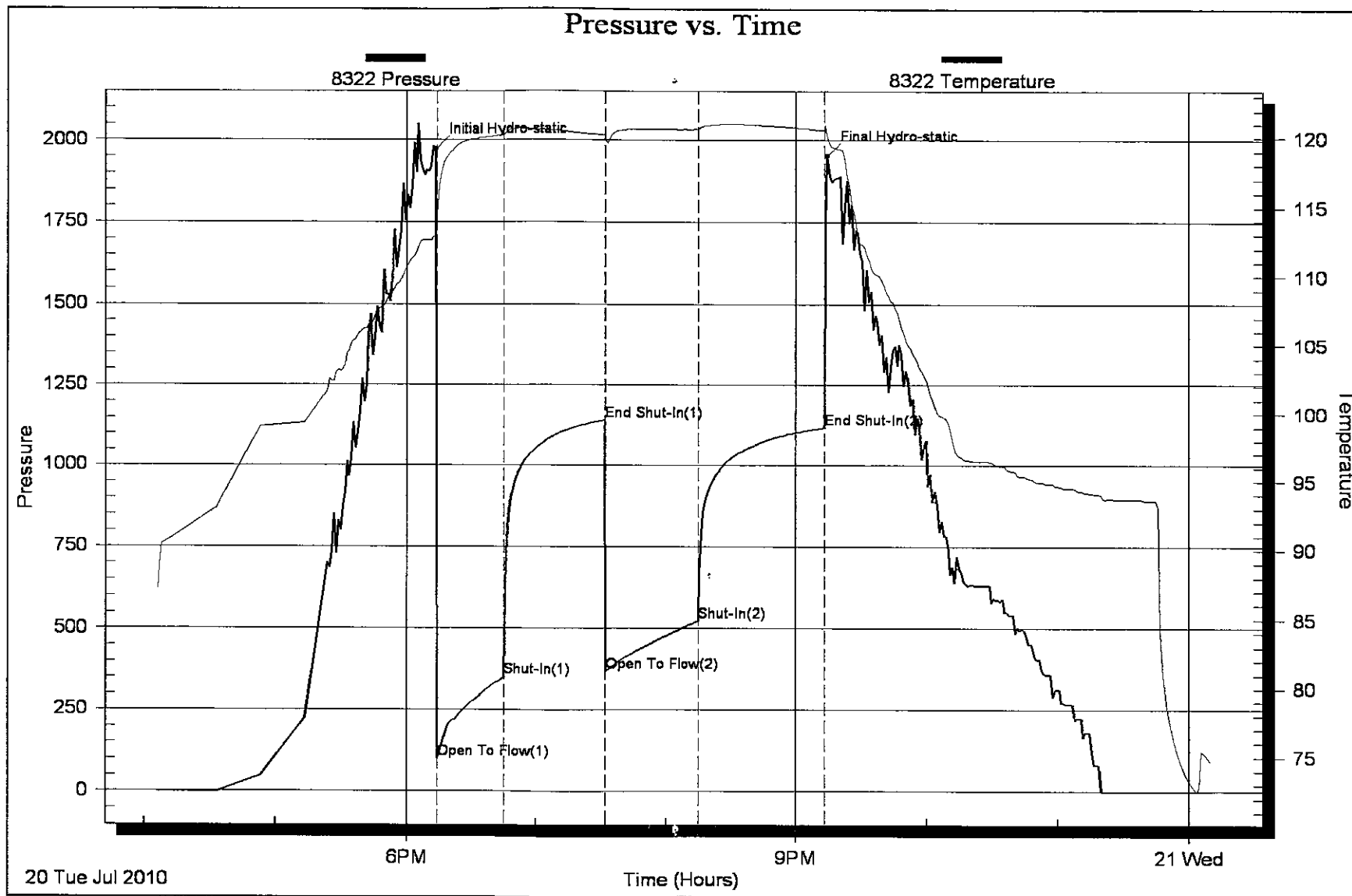
Num Gas Bombs: 0

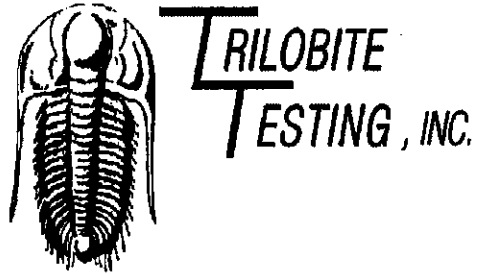
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.21 @ 16:20:05

End Date: 2010.07.21 @ 22:00:14

Job Ticket #: 39199 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Ritchie Exploration Inc.

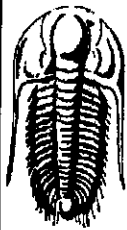
Bridges 24CD #1

24-14s-32w Logan KS

DST # 7

Ft. Scott

2010.07.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

ATTN: Jeff Christian

Job Ticket: 39199

DST#: 7

Test Start: 2010.07.21 @ 16:20:05

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:30

Time Test Ended: 22:00:14

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: **4279.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: 2753.00 ft (KB)

Total Depth: 4300.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 11.97 psig @ 4280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.07.21

End Date: 2010.07.21

Last Calib.: 2010.07.21

Start Time: 16:20:05

End Time: 22:00:14

Time On Btm: 2010.07.21 @ 18:21:00

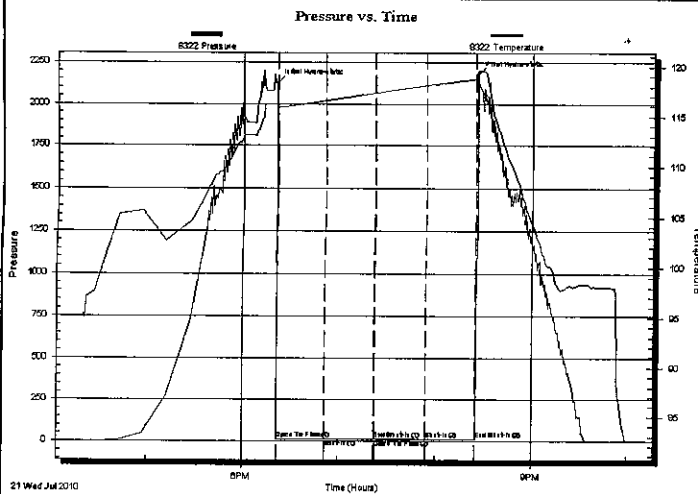
Time Off Btm: 2010.07.21 @ 20:25:45

TEST COMMENT: IF: Surface blow for 1 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

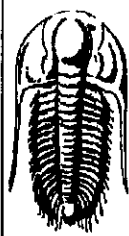
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.24	116.20	Initial Hydro-static
1	10.57	115.93	Open To Flow (1)
31	12.13	116.58	Shut-In(1)
62	12.96	117.36	End Shut-In(1)
62	11.89	117.38	Open To Flow (2)
93	11.97	118.13	Shut-In(2)
124	12.67	118.79	End Shut-In(2)
125	2174.85	119.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	O spotted M 100%m	0.00
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39199

DST#: 7

ATTN: Jeff Christian

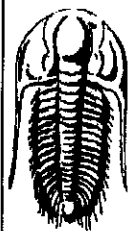
Test Start: 2010.07.21 @ 16:20:05

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.40 inches	Volume: 42.01 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	44.68 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4279.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4260.00	
Shut In Tool	5.00			4265.00	
Hydraulic tool	5.00			4270.00	
Packer	5.00			4275.00	20.00 Bottom Of Top Packer
Packer	4.00			4279.00	
Stubb	1.00			4280.00	
Recorder	0.00	8322	Inside	4280.00	
Recorder	0.00	8166	Inside	4280.00	
Perforations	17.00			4297.00	
Bullnose	3.00			4300.00	21.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39199

DST#: 7

ATTN: Jeff Christian

Test Start: 2010.07.21 @ 16:20:05

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: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	O spotted M 100% _m	0.005
0.00	GIP = 0	0.000

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

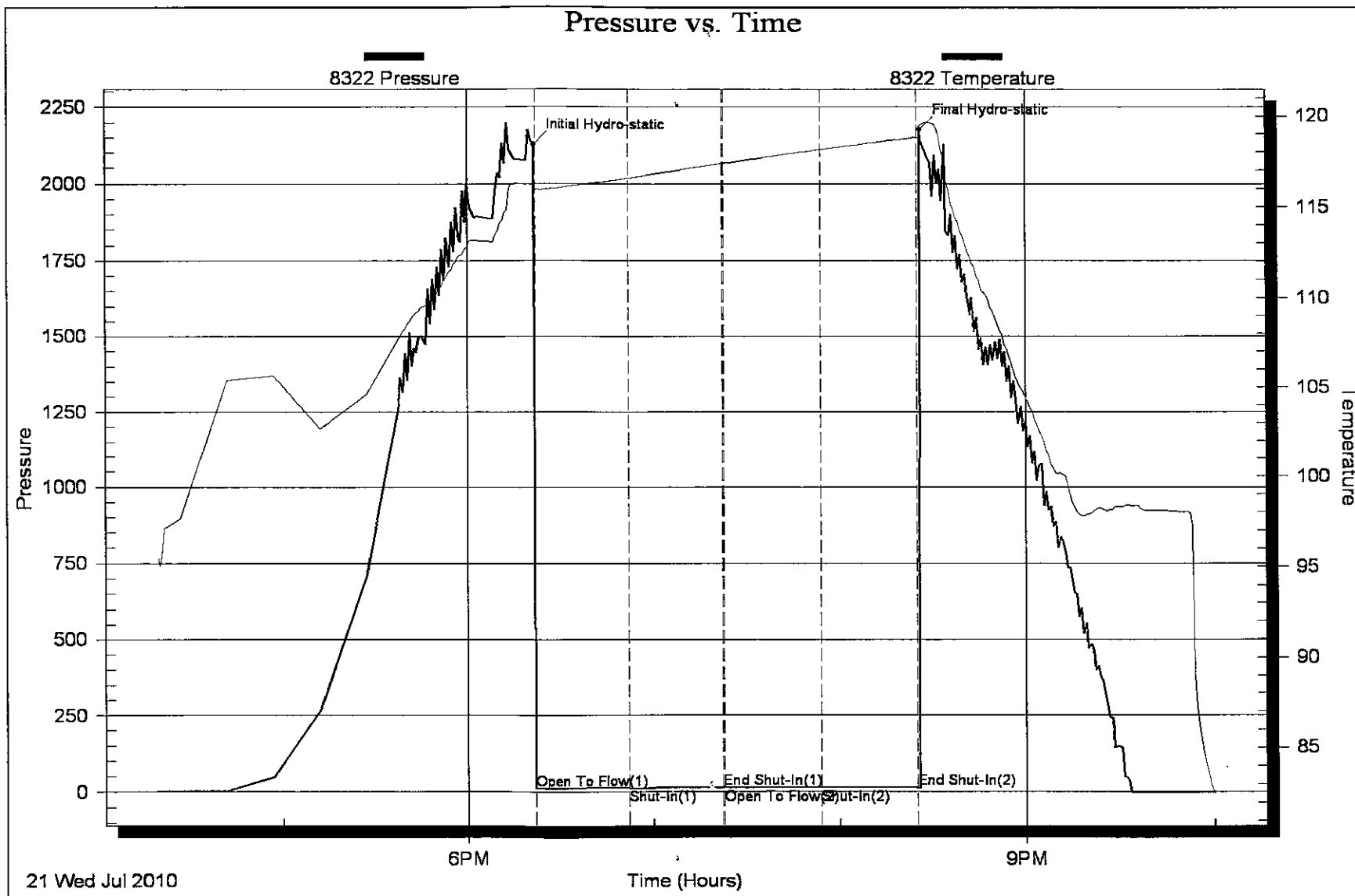
Num Gas Bombs: 0

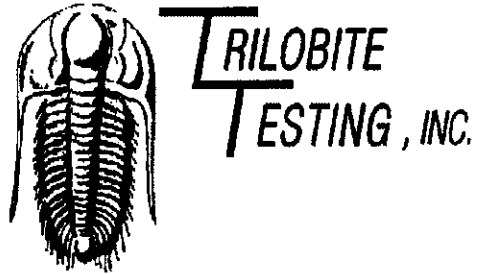
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.22 @ 07:14:05

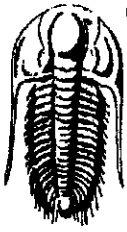
End Date: 2010.07.22 @ 15:19:14

Job Ticket #: 39200 DST #: 8

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.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39200

DST#: 8

ATTN: Jeff Christian

Test Start: 2010.07.22 @ 07:14:05

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 09:37:15

Time Test Ended: 15:19:14

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4337.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Reference Elevations: **2753.00 ft (KB)**

Total Depth: **4355.00 ft (KB) (TVD)**

2742.00 ft (CF)

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

KB to GR/CF: **11.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **291.01 psig @ 4338.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.07.22**

End Date: **2010.07.22**

Last Calib.: **2010.07.22**

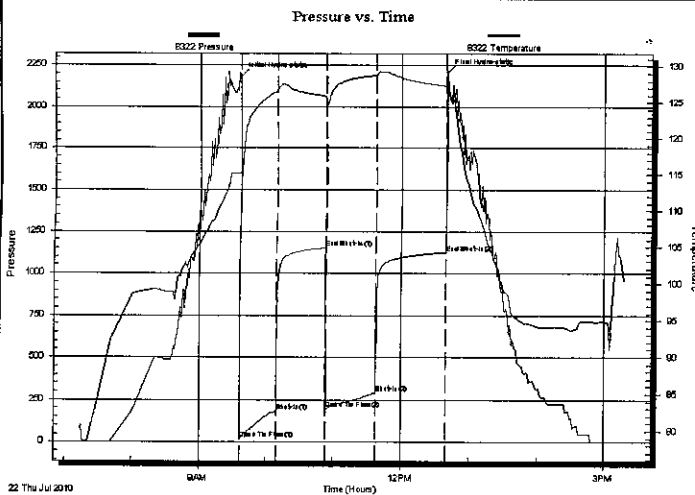
Start Time: **07:14:05**

End Time: **15:19:14**

Time On Btm: **2010.07.22 @ 09:37:00**

Time Off Btm: **2010.07.22 @ 12:40:15**

TEST COMMENT: IF: BOB in 4 1/2 mins.
IS: BOB in 33 mins.
FF: BOB in 11 mins.
FS: BOB in 27 mins.



PRESSURE SUMMARY

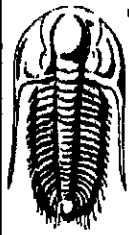
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.97	115.25	Initial Hydro-static
1	18.59	114.17	Open To Flow (1)
32	180.89	126.55	Shut-In(1)
77	1150.64	125.88	End Shut-In(1)
77	196.19	125.51	Open To Flow (2)
121	291.01	128.72	Shut-In(2)
183	1123.83	127.31	End Shut-In(2)
184	2206.61	127.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M 100%m	0.07
190.00	G&OCM 20%g 30%o 50%m	0.93
745.00	CG&O 55%g 45%o	6.23
0.00	GIP = 1235 ft	0.00
0.00	API = 31.5@105F = 27 corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39200

DST#: 8

ATTN: Jeff Christian

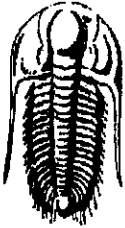
Test Start: 2010.07.22 @ 07:14:05

Tool Information

Drill Pipe:	Length: 3804.00 ft	Diameter: 3.40 inches	Volume: 42.72 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 45.39 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4337.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4318.00	
Shut In Tool	5.00			4323.00	
Hydraulic tool	5.00			4328.00	
Packer	5.00			4333.00	20.00 * Bottom Of Top Packer
Packer	4.00			4337.00	
Stubb	1.00			4338.00	
Recorder	0.00	8322	Inside	4338.00	
Recorder	0.00	8166	Inside	4338.00	
Perforations	14.00			4352.00	
Bullnose	3.00			4355.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39200

DST#: 8

ATTN: Jeff Christian

Test Start: 2010.07.22 @ 07:14:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M 100% _m	0.074
190.00	G&OCM 20% _g 30% _o 50% _m	0.934
745.00	CG&O 55% _g 45% _o	6.233
0.00	GIP = 1235 ft	0.000
0.00	API = 31.5@105F = 27 corrected	0.000

Total Length: 950.00 ft

Total Volume: 7.241 bbl

Num Fluid Samples: 0

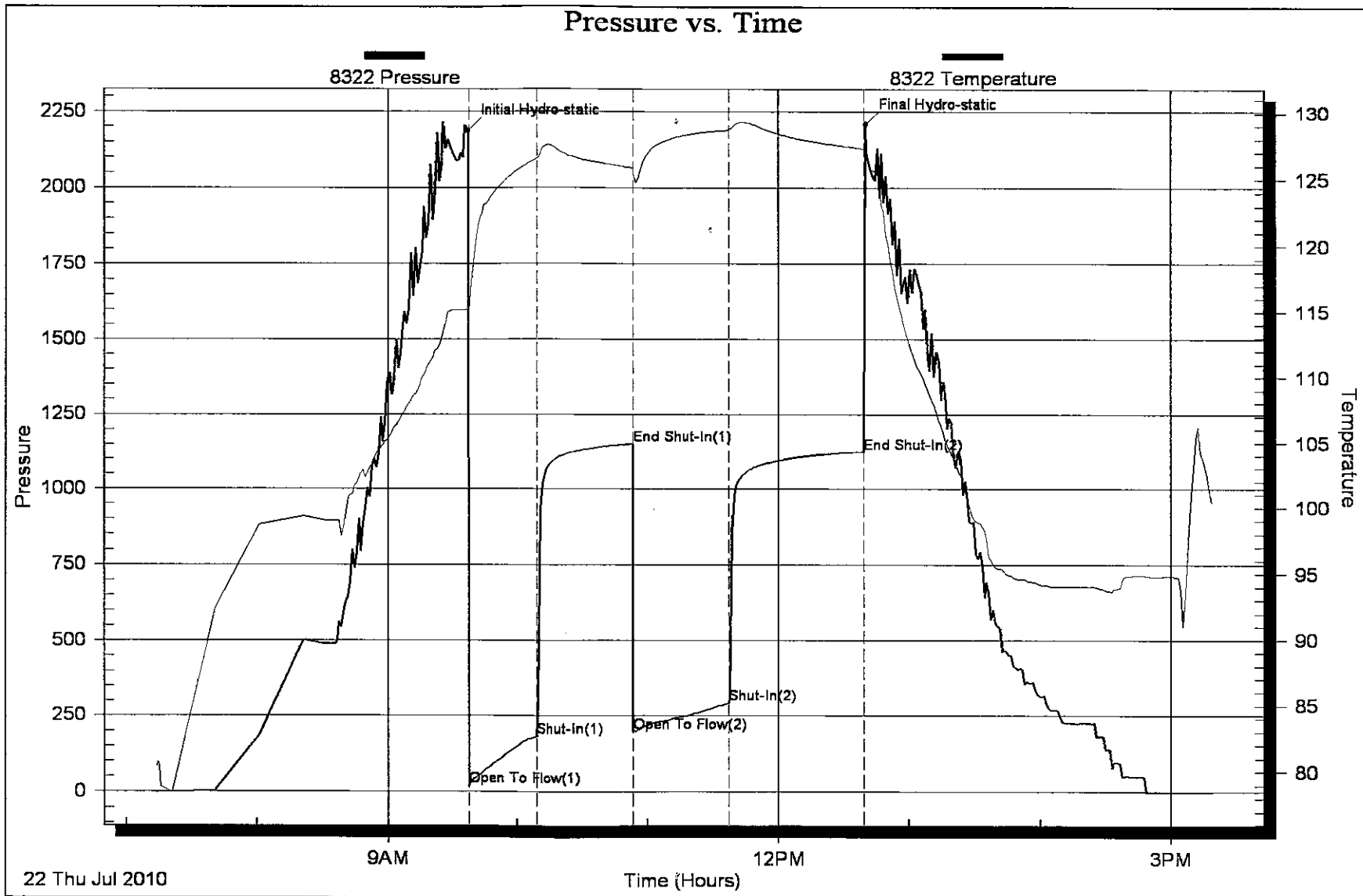
Num Gas Bombs: 0

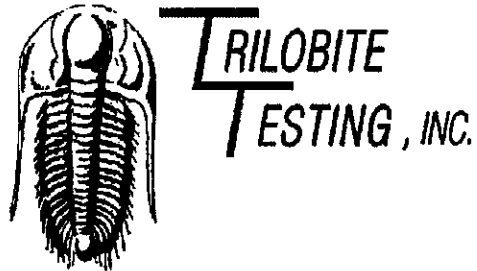
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.22 @ 21:49:05

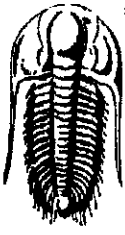
End Date: 2010.07.23 @ 04:39:44

Job Ticket #: 39626 DST #: 9

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: Jeff Christian

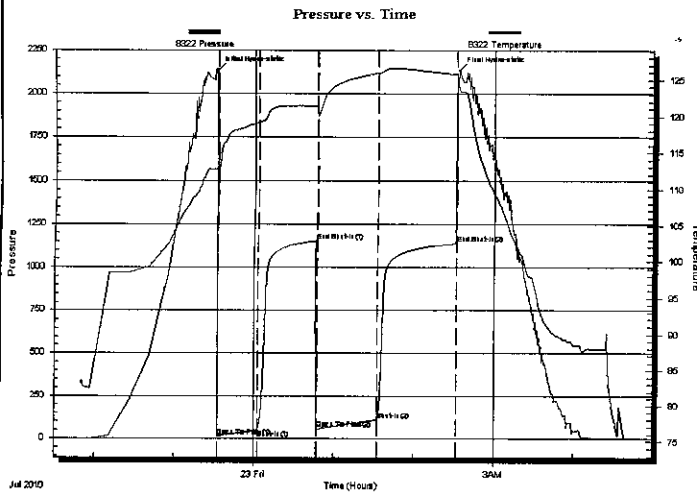
Bridges 24CD #1
24-14s-32w Logan KS
 Job Ticket: 39626 DST#: 9
 Test Start: 2010.07.22 @ 21:49:05

GENERAL INFORMATION:

Formation: **Lower Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:32:45
 Time Test Ended: 04:39:44
 Interval: **4355.00 ft (KB) To 4378.00 ft (KB) (TVD)**
 Total Depth: **4378.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Brandon Domsch
 Unit No: 48
 Reference Elevations: 2753.00 ft (KB)
 2742.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8322 Inside
 Press@RunDepth: 108.59 psig @ 4356.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.07.22 End Date: 2010.07.23 Last Calib.: 2010.07.23
 Start Time: 21:49:05 End Time: 04:39:44 Time On Btm: 2010.07.22 @ 23:32:00
 Time Off Btm: 2010.07.23 @ 02:33:15

TEST COMMENT: IF: BOB in 28 mins.
 IS: Built to 1 inch died in 29 mins.
 FF: Built to 9 inches.
 FS: Built to 3 inches.



PRESSURE SUMMARY

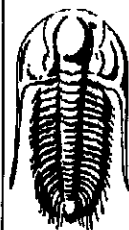
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.68	113.10	Initial Hydro-static
1	15.09	112.90	Open To Flow (1)
32	52.00	119.20	Shut-In(1)
75	1151.04	121.47	End Shut-In(1)
76	58.40	120.32	Open To Flow (2)
121	108.59	125.93	Shut-In(2)
180	1136.36	125.74	End Shut-In(2)
182	2130.38	123.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	HM&GCO 10%g 50%o 40%m	0.22
240.00	GCO 40%g 60%o	1.18
95.00	CG&O 70%g 30%o	0.47
0.00	GIP = 570 ft	0.00
0.00	API = 29.5@75 = 28 corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39626

DST#: 9

ATTN: Jeff Christian

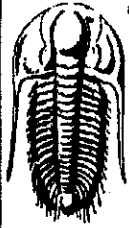
Test Start: 2010.07.22 @ 21:49:05

Tool Information

Drill Pipe:	Length: 3805.00 ft	Diameter: 3.40 inches	Volume: 42.73 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 110000.0 lb
			Total Volume: 45.40 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4355.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 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			4336.00	
Shut In Tool	5.00			4341.00	
Hydraulic tool	5.00			4346.00	
Packer	5.00			4351.00	20.00 Bottom Of Top Packer
Packer	4.00			4355.00	
Stubb	1.00			4356.00	
Recorder	0.00	8322	Inside	4356.00	
Recorder	0.00	8166	Inside	4356.00	
Perforations	19.00			4375.00	
Bullnose	3.00			4378.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39626

DST#: 9

ATTN: Jeff Christian

Test Start: 2010.07.22 @ 21:49:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	HM&GCO 10%g 50%o 40%m	0.221
240.00	GCO 40%g 60%o	1.180
95.00	CG&O 70%g 30%o	0.467
0.00	GIP = 570 ft	0.000
0.00	API = 29.5@75 = 28 corrected	0.000

Total Length: 380.00 ft

Total Volume: 1.868 bbl

Num Fluid Samples: 0

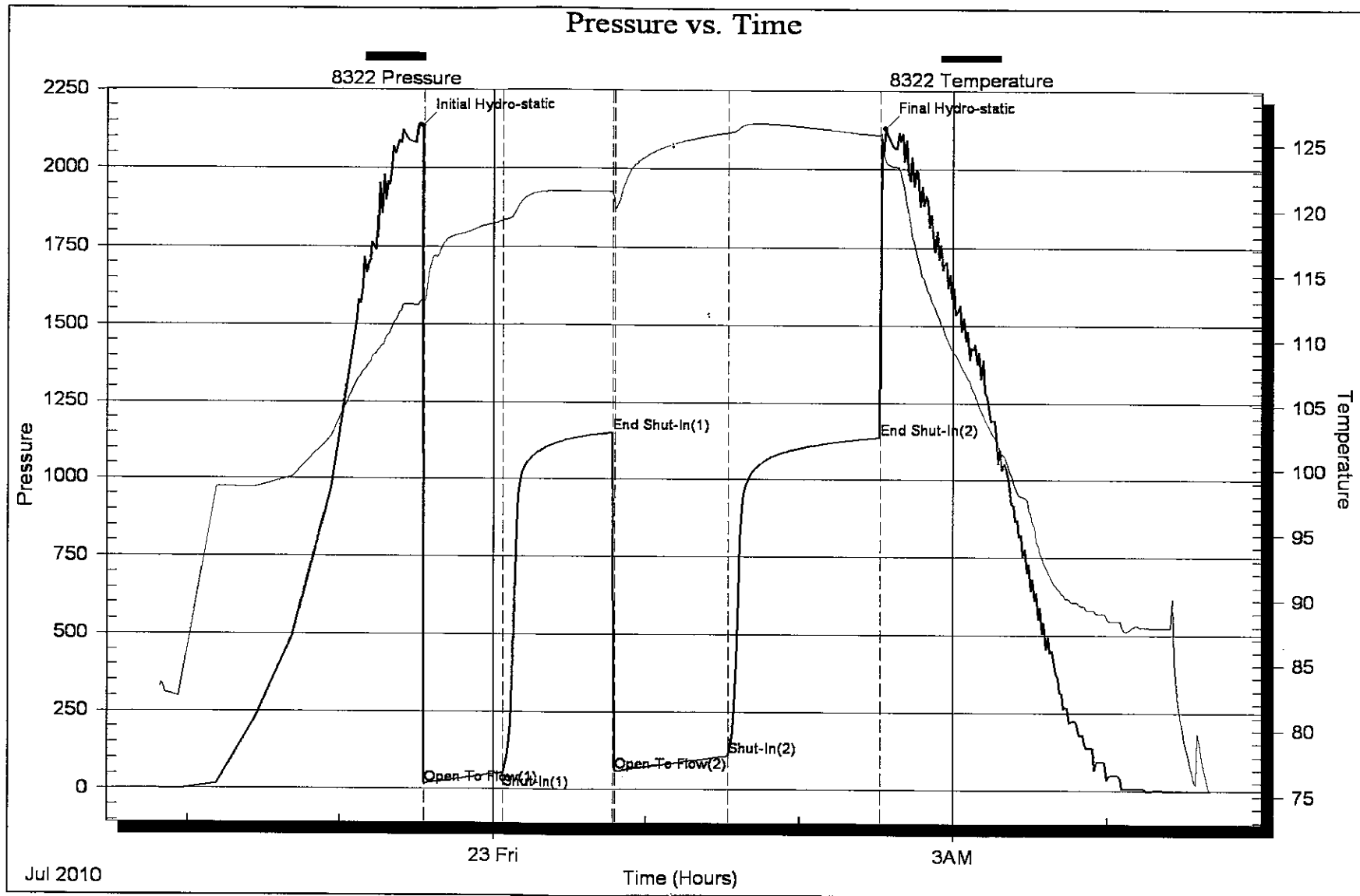
Num Gas Bombs: 0

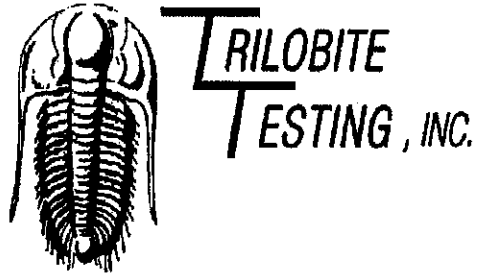
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

24-14s-32w Logan KS

Bridges 24CD #1

Start Date: 2010.07.23 @ 11:04:05

End Date: 2010.07.23 @ 19:04:59

Job Ticket #: 39627 DST #: 10

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Ritchie Exploration Inc.

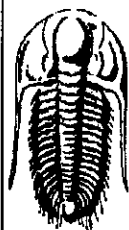
Bridges 24CD #1

24-14s-32w Logan KS

DST # 10

Morrow Sand

2010.07.23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.

PO Box 783188
Wichita KS 67278

ATTN: Jeff Christian

Bridges 24CD #1

24-14s-32w Logan KS

Job Ticket: 39627

DST#: 10

Test Start: 2010.07.23 @ 11:04:05

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:08:15

Time Test Ended: 19:04:59

Interval: **4371.00 ft (KB) To 4393.00 ft (KB) (TVD)**

Total Depth: **4393.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Reference Elevations: 2753.00 ft (KB)

2742.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322

Inside

Press@RunDepth: 286.49 psig @ 4372.00 ft (KB)

Start Date: 2010.07.23

End Date:

2010.07.23

Start Time: 11:04:05

End Time:

19:04:59

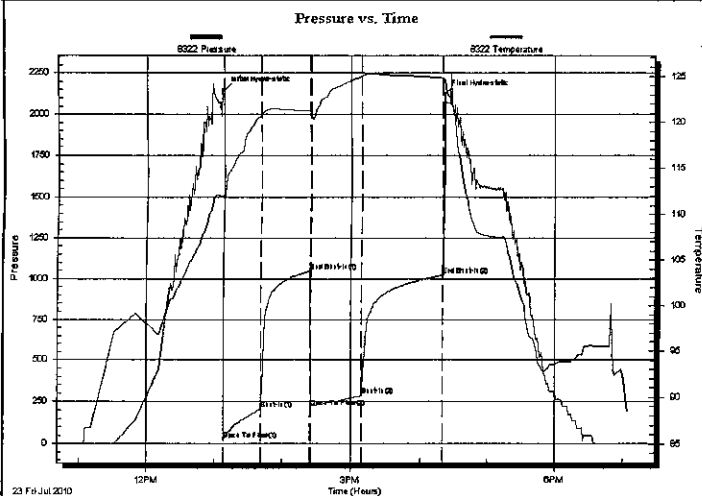
Capacity: 8000.00 psig

Last Calib.: 2010.07.23

Time On Btm: 2010.07.23 @ 13:07:45

Time Off Btm: 2010.07.23 @ 16:21:30

TEST COMMENT: IF: BOB in 13 mins.
IS: Built to 3 1/2 inches died back to 3 inches.
FF: BOB in 16 mins.
FS: Built to 5 inches died back to 2 1/2 inches



PRESSURE SUMMARY

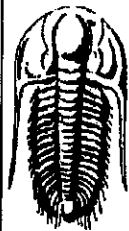
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.55	112.13	Initial Hydro-static
1	26.89	111.87	Open To Flow (1)
33	208.65	120.66	Shut-In(1)
77	1047.05	121.32	End Shut-In(1)
78	220.25	121.14	Open To Flow (2)
122	286.49	124.98	Shut-In(2)
192	1022.03	124.78	End Shut-In(2)
194	2124.95	124.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	G&OCM 25%g 35%o 40%m	1.40
380.00	CG&O 20%g 80%o	2.64
95.00	HG&O 50%g 50%o	1.07
0.00	GP = 760 ft	0.00
0.00	API = 32@95F = 28.5 corrected	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39627

DST#: 10

ATTN: Jeff Christian

Test Start: 2010.07.23 @ 11:04:05

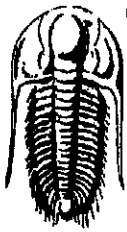
Tool Information

Drill Pipe:	Length: 3837.00 ft	Diameter: 3.40 inches	Volume: 43.09 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: 543.00 ft	Diameter: 2.25 inches	Volume: 2.67 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 45.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4371.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 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			4352.00	
Shut In Tool	5.00			4357.00	
Hydraulic tool	5.00			4362.00	
Packer	5.00			4367.00	20.00 Bottom Of Top Packer
Packer	4.00			4371.00	
Stubb	1.00			4372.00	
Recorder	0.00	8322	Inside	4372.00	
Recorder	0.00	8166	Inside	4372.00	
Perforations	18.00			4390.00	
Bullnose	3.00			4393.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Bridges 24CD #1

PO Box 783188
Wichita KS 67278

24-14s-32w Logan KS

Job Ticket: 39627

DST#: 10

ATTN: Jeff Christian

Test Start: 2010.07.23 @ 11:04:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 7.97 in³
Resistivity: 0.00 ohm.m
Salinity: 3400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 28.5 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	G&OCM 25%g 35%o 40%m	1.402
380.00	CG&O 20%g 80%o	2.639
95.00	HG&O 50%g 50%o	1.067
0.00	GIP = 760 ft	0.000
0.00	API = 32@95F = 28.5 corrected	0.000

Total Length: 760.00 ft Total Volume: 5.108 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

