



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1237212  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1237212

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
----------------	-------	---------	------------	---

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, LLC
Well Name	Brian C-1
Doc ID	1237212

Tops

Name	Top	Datum
ANHYDRITE		
TOPEKA		
HEEBNER SHALE		
TORONTO		
DOUGLAS SHALE		
BROWN LIME		
LKC		
BKC		
ARBUCKLE		



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005952	1718	10/21/2014
<b>INVOICE NUMBER</b>			
<b>91627117</b>			

Pratt (620) 672-1201  
 B CARRIE EXPLORATION & DEVELOPMENT LLC  
 I 210 W 22ND ST  
 L HAYS  
 L KS US 67601  
 T  
 O ATTN: HEROLD

J LEASE NAME Brian C-1  
 O LOCATION  
 B COUNTY Rice  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40778249	19905		Net - 30 days	11/20/2014	
<b>For Service Dates: 10/17/2014 to 10/17/2014</b>					
0040778249					
171811219A Cement-New Well Casing/Pi 10/17/2014 Cement 5 1/2" Longstring					
AA2 Cement		160.00	EA	13.09	2,094.26 T
A Serv Lite		55.00	EA	10.01	550.50 T
Celloflake		40.00	EA	2.85	113.95 T
C-41P		31.00	EA	3.08	95.47 T
Salt		729.00	EA	0.38	280.64 T
Cement Friction Reducer		46.00	EA	4.62	212.50 T
C-44		151.00	EA	3.97	598.74 T
FLA-322		76.00	EA	5.77	438.86 T
Super Flush II		500.00	EA	1.18	589.00 T
Gilsonite		800.00	EA	0.52	412.69 T
"Latch Down Plug & Baffle, 5 1/2" (Blue)		1.00	EA	307.97	307.97
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	277.18	277.18
"Turbolizer, 5 1/2" (Blue)"		8.00	EA	84.69	677.54
"5 1/2" Basket (Blue)"		1.00	EA	223.28	223.28
"Unit Mileage Chg (PU, cars one way)"		70.00	MI	3.46	242.53
Heavy Equipment Mileage		140.00	MI	5.77	808.43
"Proppant & Bulk Del. Chgs., per ton mil		697.00	EA	1.92	1,341.61
Depth Charge; 3001-4000'		1.00	EA	1,663.06	1,663.06
Blending & Mixing Service Charge		215.00	BAG	1.08	231.75
Casing Swivel Rental		1.00	EA	153.99	153.99
Plug Container Util. Chg.		1.00	EA	192.48	192.48
"Service Supervisor, first 8 hrs on loc.		1.00	EA	134.74	134.74

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>11,641.17</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>385.14</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>12,026.31</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		

**FIELD SERVICE TICKET**  
1718 11219 A



10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

26-20-10

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 10-17-14		DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: <i>Energy Services Development LLC</i>				LEASE: <i>Brian</i>				WELL NO. <i>C-1</i>			
ADDRESS:				COUNTY: <i>Rice</i>			STATE: <i>Ks</i>				
CITY:				STATE:				SERVICE CREW: <i>Mattal, McGraw, Cobb</i>			
AUTHORIZED BY:				JOB TYPE: <i>CON 5 1/2 long string</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME	
<i>37380</i>	<i>1</i>						<i>10-17-14</i>			<i>12:00</i>	
						ARRIVED AT JOB				<i>4:00</i>	
<i>77686/19905</i>	<i>1</i>					START OPERATION				<i>8:02</i>	
						FINISH OPERATION				<i>8:50</i>	
<i>70959/19718</i>	<i>1</i>					RELEASED				<i>9:30</i>	
						MILES FROM STATION TO WELL				<i>70</i>	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 cement	SK	160		2720.00
CP 106	A Serv III	SK	55		715.00
CC 102	Celloflavo	lb	40		148.00
CC 103	C-41P	lb	31		124.00
CC 111	Salt	lb	729		364.50
CC 112	CMT Fraction Reduc	lb	46		276.00
CC 115	C-44	lb	151		777.65
CC 129	FMA-322	lb	76		570.00
CC 201	Gilsonite	lb	800		536.00
CF 607	LATCH DOWN Plug + BAF-100	EA	1		400.00
CF 1251	Anchor Head 5/8"	EA	1		360.00
CF 1651	Trubolite	EA	8		880.00
CF 1901	BASE 1	EA	1		290.00
CC 155	SUPER-100 #	SK	500		765.00

SUB TOTAL *16*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: <i>Mike Mattal</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO. \_\_\_\_\_

FIELD SERVICE TICKET

**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

~~1718-11220-A~~  
Continuation of  
1715-11219

CONTINUATION OF

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

STATE OF JOB <b>10-17-14</b> DISTRICT <b>Pratt</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <i>EXPANSION &amp; DEVELOPMENT LLC</i>		LEASE <i>B1-11A</i>		WELL NO. <i>C1</i>						
ADDRESS		COUNTY <i>Ree</i>		STATE <i>K</i>						
CITY STATE		SERVICE CREW								
AUTHORIZED BY		JOB TYPE: <i>CNW - 5/2 LONGSINKING</i>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER/OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	P.A. Miles	MI	70		315 00
E 105	HEAVY EQ Miles	M	140		1,050 00
E 117	PROP + BULK PUL	TA	697		1,741 25
CE 204	DEPTH Charge 3001-4000	4H	1		2,160 00
CE 240	Blood + mix charge	SK	215		301 00
CE 501	CSNG SWITH CONTROL	EA	1		200 00
CE 504	PLUG CONTAINER	JOB	1		250 00
S 003	SUPER VJOL	PA	1		175 00
SUB TOTAL					15,118 40


SERVICE & EQUIPMENT /	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		11,641 17
DISCOUNT <i>16</i>		

SERVICE REPRESENTATIVE *Mike Mattel*

FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Lease No. **118** Date **10-17-14**  
 Well # **C-1**  
 Field Order # **11219** Station **Pratt** Casing **5 1/2** Depth **3406.9** County **Rile** State **KS**  
 Type Job **cnw 5 1/2" Long Strips** Formation \_\_\_\_\_ Legal Description **26-20-10**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2</b>	Tubing Size	Shots/Ft		Acid <b>160 SKS AA-2</b>	RATE	PRESS	ISIP	
Depth <b>3406.9</b>	Depth	From	To	Pre Pad <b>55 SKS AA-2</b>	Max	<b>67.3-1</b>	5 Min.	
Volume <b>81.1</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>PC</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3391.69</b>	Packer Depth	From	To	Flush <b>81</b>	Gas Volume		Total Load	

Customer Representative **Run Herald** Station Manager **Kenn Galley** Treater **Mike Mattal**

Service Units	<b>37586</b>	<b>77686</b>	<b>19905</b>	<b>70959</b>	<b>19918</b>				
Driver Names	<b>Mattal</b>	<b>McGraw</b>		<b>COBB</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:05 PM					ON LOCATION / SAFETY MEETING
5:30					Run 5 1/2 15.5" casing, based on # 2
					Tubing on 1, 2, 4, 7, 9, 14, 19, 26
6:50					CASING ON BOTTOM
7:30					Hook to casing / Break circ w. Rig
8:02	200		5	4.5	Pump 5 BBL water
8:03	200		12	4.5	Pump 12 BBL Super Flush II
8:08	200		3	4.5	Pump 3 BBL water
8:09	200		8	5	mix 25' SKS seawater
8:11	200		39	5	mix 160 SKS AA-2
8:20	-		4	3	WASH PUMP + LINE / release plug
8:23	150		-	6	START DISPLACEMENT
8:32	300		55	5.5	lift pressure
8:34	600		70	3.5	SLOW RATE + STOP ROTATING
8:37	800/1500		80.7	-	plug down, released + hold
8:45			7	-	plug set hole
					CIRCUMVENT THIS JOB
					JOB COMPLETE
					Thank You!
					Mike Mattal
					Mike + Cole



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 146271  
Invoice Date: Oct 10, 2014  
Page: 1

Federal Tax I.D.#: 20-8651475

<b>Bill To:</b>
Carrie Exploration & Development LLC 210 West 22nd Street Hays, KS 67601

<b>Customer ID</b>	<b>Field Ticket #</b>	<b>Payment Terms</b>	
Carrie	63963	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-01	Great Bend	Oct 10, 2014	11/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Brian C #1		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
376.00	CEMENT MATERIALS	Gel	0.50	188.00
564.00	CEMENT MATERIALS	Chloride	1.10	620.40
216.27	CEMENT SERVICE	Cubic Feet Charge	2.48	536.35
246.75	CEMENT SERVICE	Ton Mileage Charge	2.75	678.56
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
25.00	CEMENT SERVICE	Pump Truck Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

*Cement surface*

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,854.52

ONLY IF PAID ON OR BEFORE  
Nov 9, 2014

Subtotal	7,418.06
Sales Tax	313.77
Total Invoice Amount	7,731.83
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,731.83</b>



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

063963

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Eastland

DATE <u>10-10-14</u>	SEC. <u>28</u>	TWP. <u>20</u>	RANGE <u>10</u>	CALLED OUT	ON LOCATION <u>10:00 pm</u>	JOB START <u>2 AM</u>	JOB FINISH <u>2:30 pm</u>
LEASE <u>Brian</u>	WELL # <u>C-1</u>	LOCATION <u>Raymond Exp 5th Rd</u>			COUNTY <u>Rice</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/2 N - E into</u>				

CONTRACTOR Southland 8 OWNER \_\_\_\_\_

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. \_\_\_\_\_ CEMENT AMOUNT ORDERED 200 SX Class A 2 1/2" pipe

CASING SIZE 8 7/8 DEPTH 305 DISC \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15 Ft

PERFS. \_\_\_\_\_

DISPLACEMENT 18.47 bbl H<sub>2</sub>O

**EQUIPMENT**

PUMP TRUCK CEMENTER Josh Isacc

# 366 HELPER Ben Maxwell

BULK TRUCK \_\_\_\_\_

# 609-239 DRIVER Kenan Wiggins

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT AMOUNT ORDERED 200 SX Class A 2 1/2" pipe

DISC \_\_\_\_\_

COMMON 200 @ 17.90 3,580.00

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL 376 @ .50 188.00

CHLORIDE 564 @ 1.10 620.40

ASC Materials Total 4,388.40

Disc 25% 1,097.10

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING 216.27 @ 2.48 536.35

MILEAGE 9.87 x 25 x 2.75 678.56

Service

**REMARKS:**

On location rig up - had safety meeting  
run 8 7/8 casing - break circulation  
pump 5 bbl H<sub>2</sub>O  
mix 200 SX Class A 3 1/2" @ 2 1/2" pipe  
Displace 18.47 bbl H<sub>2</sub>O  
Shut in 2:15 AM  
Cemented circulation  
rig down

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE 1512.35

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE Hum 25 @ 7.70 192.50

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

Hum 25 @ 4.40 110.00

\_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: Comc Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3,029.66  
Disc 25% 757.42

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 0  
Disc 0%

To: Allied Oil & Gas Services, 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 X Darrell YETT

SIGNATURE X Darrell Yett

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 7,418.06

DISCOUNT 25% 1,854.52 (25/26/10)

5,563.54

IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration and Development**

210 West 22nd  
Hays KS 67601

ATTN: Eli Felts/Jeff Burke

**Brian #C-1**

**26-20s-10w Rice,KS**

Start Date: 2014.10.14 @ 07:07:00

End Date: 2014.10.14 @ 17:15:00

Job Ticket #: 60466                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.19 @ 14:34:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60466

**DST#: 1**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 07:07:00

## GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:00

Time Test Ended: 17:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3097.00 ft (KB) To 3127.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3127.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 45.00 psig @ 3123.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.14

End Date:

2014.10.14

Last Calib.: 2014.10.14

Start Time: 07:08:00

End Time:

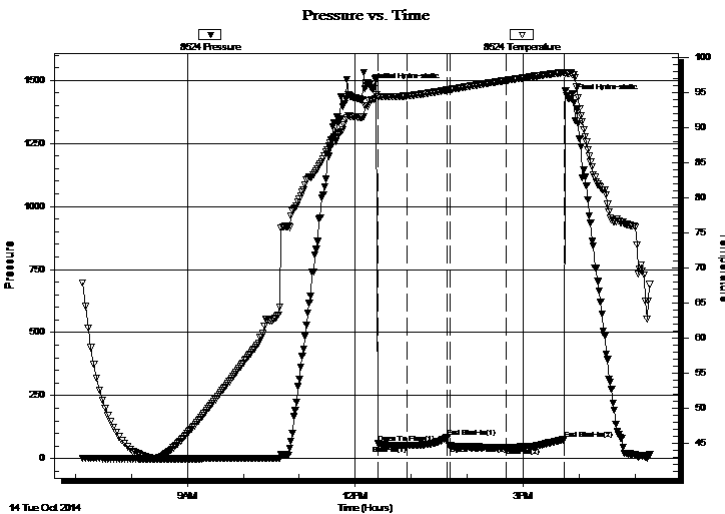
17:15:00

Time On Btm: 2014.10.14 @ 12:16:30

Time Off Btm: 2014.10.14 @ 15:49:30

**TEST COMMENT:** IFP 30 Minutes. Weak blow built to 4 "  
ISI 45 Minutes. No blow back.  
FFP 60 Minutes. Weak blow built to 6"  
FSI 60 Minutes. No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.08	93.89	Initial Hydro-static
8	59.33	94.32	Open To Flow (1)
39	52.17	94.49	Shut-In(1)
82	84.23	95.34	End Shut-In(1)
85	51.20	95.39	Open To Flow (2)
145	45.00	96.71	Shut-In(2)
207	77.47	97.84	End Shut-In(2)
213	1427.61	97.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45 feet gas in pipe	
15.00	100% Mud with trace of oil.	

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60466

**DST#: 1**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 07:07:00

## GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:00

Time Test Ended: 17:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3097.00 ft (KB) To 3127.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3127.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 82.56 psig @ 3124.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.14

End Date:

2014.10.14

Last Calib.: 2014.10.14

Start Time: 07:08:00

End Time:

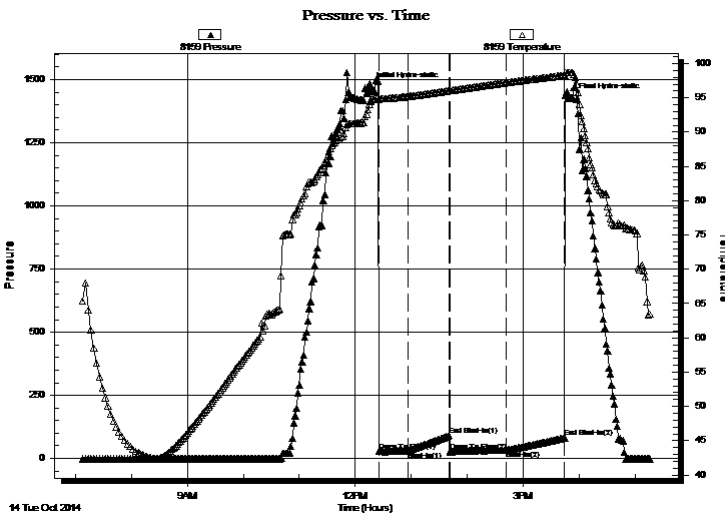
17:15:30

Time On Btm: 2014.10.14 @ 12:16:00

Time Off Btm: 2014.10.14 @ 15:52:00

**TEST COMMENT:** IFP 30 Minutes. Weak blow built to 4 "  
ISI 45 Minutes. No blow back.  
FFP 60 Minutes. Weak blow built to 6"  
FSI 60 Minutes. No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1471.56	94.53	Initial Hydro-static
9	28.33	94.75	Open To Flow (1)
40	29.58	95.18	Shut-In(1)
85	91.00	96.03	End Shut-In(1)
86	28.25	96.03	Open To Flow (2)
145	31.76	97.19	Shut-In(2)
208	82.56	98.27	End Shut-In(2)
216	1428.16	98.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45 feet gas in pipe	
15.00	100% Mud w ith trace of oil.	

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60466

**DST#: 1**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 07:07:00

## Tool Information

Drill Pipe:	Length: 3100.00 ft	Diameter: inches	Volume: 3011410 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	54000.00 lb
			<u>Total Volume: 3011410 bbl</u>	Tool Chased	0.50 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3097.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: jburk@peterra.com, ejfelts@yahoo.com

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3074.00	
Hydraulic tool	5.00			3079.00	
Jars	6.00			3085.00	
Safety Joint	2.00			3087.00	
Top Packer	5.00			3092.00	
Packer	5.00			3097.00	28.00 Bottom Of Top Packer
Anchor	25.00			3122.00	
Recorder	1.00	8524	Inside	3123.00	
Recorder	1.00	8159	Outside	3124.00	
Bull Plug	3.00			3127.00	30.00 Anchor Tool
<b>Total Tool Length:</b>	<b>58.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60466

**DST#: 1**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 07:07:00

## 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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	45 feet gas in pipe	
15.00	100% Mud w ith trace of oil.	

Total Length: 15.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

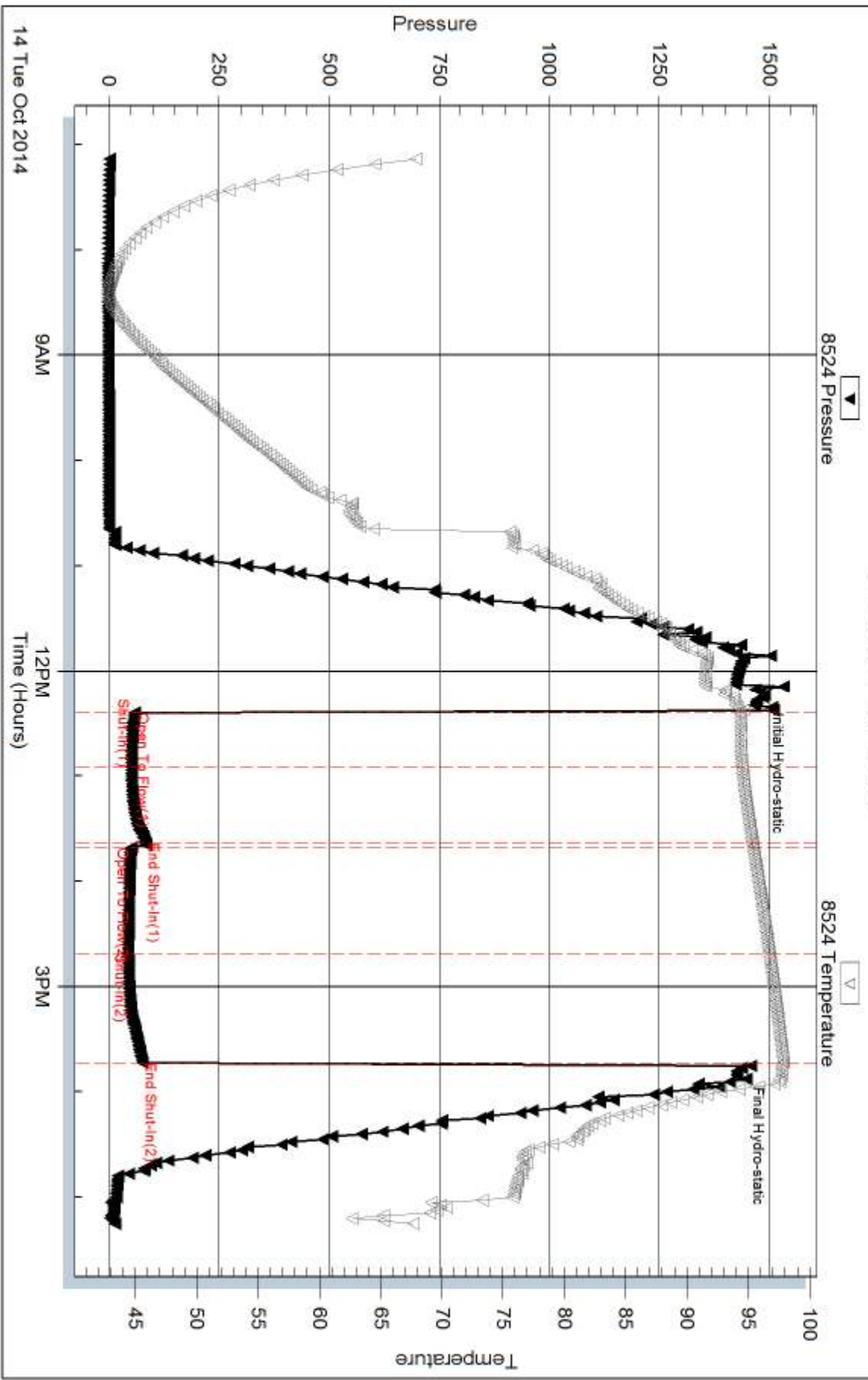
Serial #:

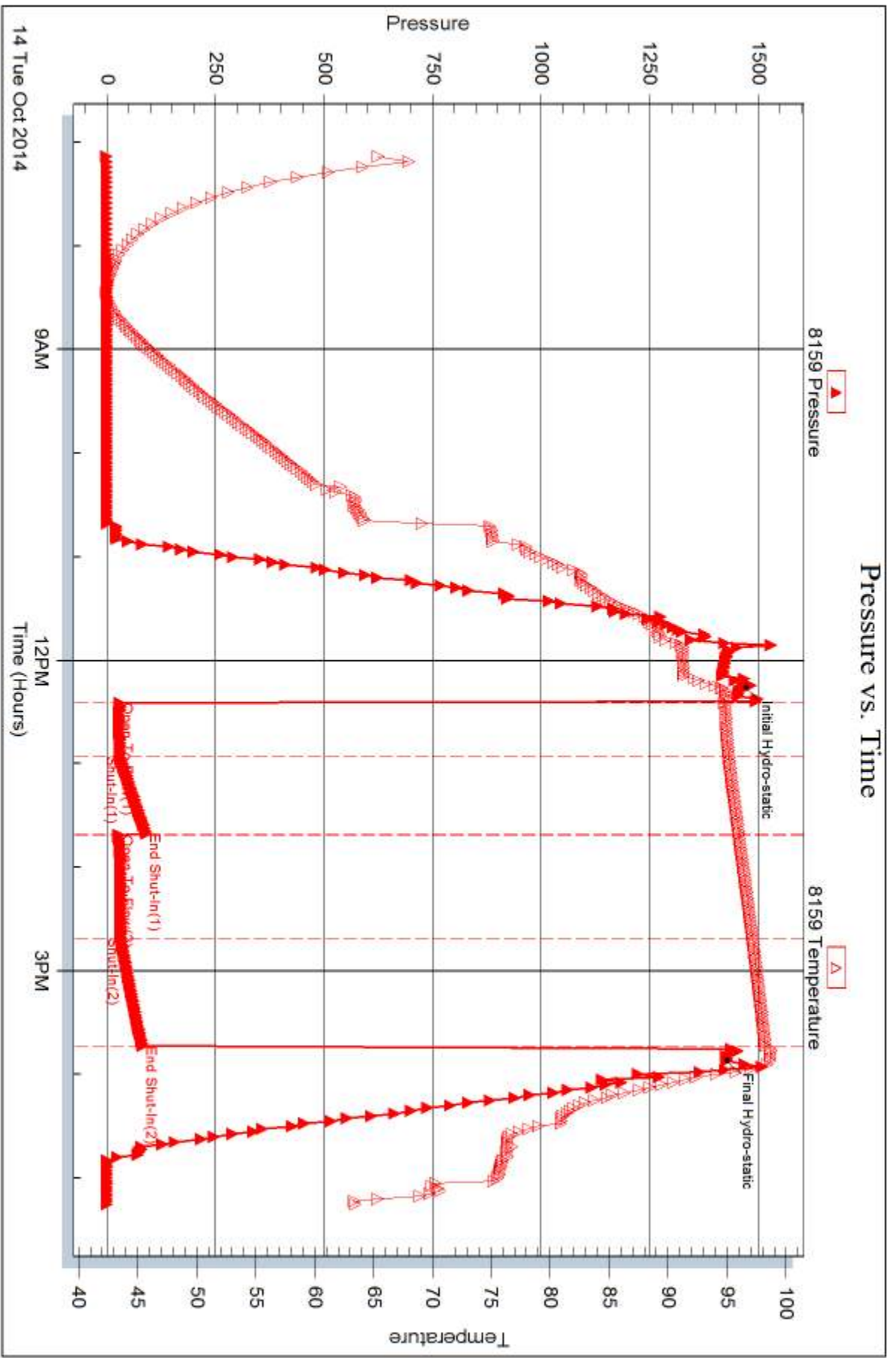
Laboratory Name:

Laboratory Location:

Recovery Comments: Company man works his own mud and does not leave sheets and he was not on location at time of test.

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration and Development**

210 West 22nd  
Hays KS 67601

ATTN: Eli Felts/Jeff Burke

**Brian #C-1**

**26-20s-10w Rice,KS**

Start Date: 2014.10.14 @ 23:37:00

End Date: 2014.10.15 @ 06:25:30

Job Ticket #: 60467                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.19 @ 14:34:27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60467

**DST#: 2**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 23:37:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:30

Time Test Ended: 06:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3

**Interval: 3127.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 8524 Inside**

Press@RunDepth: 31.31 psig @ 3136.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.14

End Date:

2014.10.15

Last Calib.: 2014.10.15

Start Time: 23:38:00

End Time:

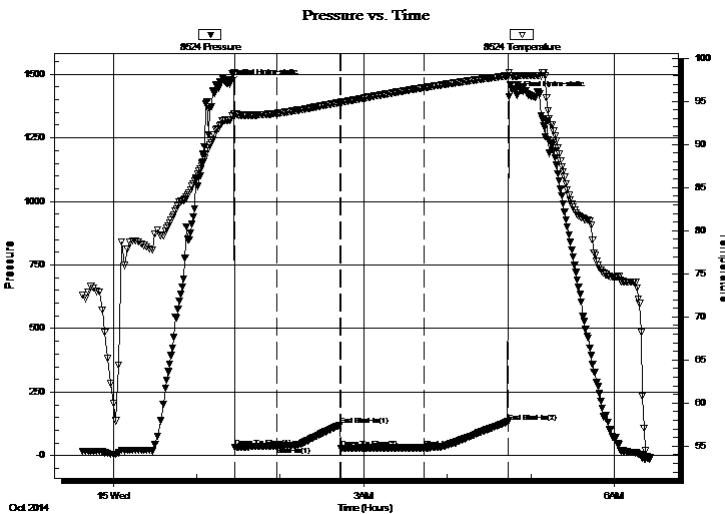
06:25:30

Time On Btm: 2014.10.15 @ 01:23:30

Time Off Btm: 2014.10.15 @ 04:50:00

**TEST COMMENT:** IFP 30 Minutes. Fair blow built to 10"  
ISI 45 Minutes. No blow back.  
FFP 60 Minutes. BOB in 35 minutes.  
FSI 60 Minutes. No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1461.60	92.81	Initial Hydro-static
4	33.78	93.56	Open To Flow (1)
34	36.78	93.60	Shut-In(1)
80	120.77	94.86	End Shut-In(1)
80	29.98	94.89	Open To Flow (2)
140	31.31	96.58	Shut-In(2)
200	133.17	97.95	End Shut-In(2)
207	1417.52	97.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45 foot gas in pipe	0.00
15.00	SOCM 2.5%O 97.5M	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60467

**DST#: 2**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 23:37:00

## GENERAL INFORMATION:

Formation: **LKC "G"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:27:30  
 Time Test Ended: 06:25:30  
 Interval: **3127.00 ft (KB) To 3140.00 ft (KB) (TVD)**  
 Total Depth: 3140.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: S3  
 Reference Elevations: 1792.00 ft (KB)  
 1783.00 ft (CF)  
 KB to GR/CF: 9.00 ft

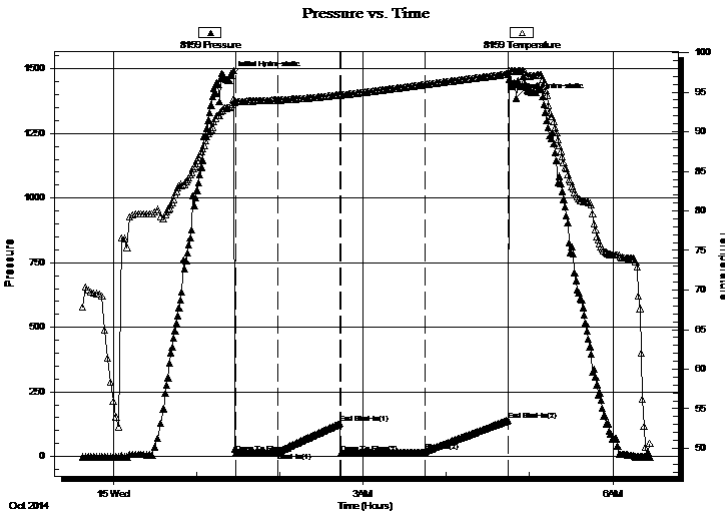
## Serial #: 8159

**Outside**

Press@RunDepth: 140.46 psig @ 3137.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.14 End Date: 2014.10.15 Last Calib.: 2014.10.15  
 Start Time: 23:38:00 End Time: 06:26:30 Time On Btm: 2014.10.15 @ 01:25:30  
 Time Off Btm: 2014.10.15 @ 04:50:30

TEST COMMENT: IFP 30 Minutes. Fair blow built to 10"  
 ISI 45 Minutes. No blow back.  
 FFP 60 Minutes. BOB in 35 minutes.  
 FSI 60 Minutes. No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1475.01	93.42	Initial Hydro-static
3	13.87	93.79	Open To Flow (1)
33	16.49	94.00	Shut-In(1)
78	127.87	94.67	End Shut-In(1)
79	12.43	94.65	Open To Flow (2)
139	18.67	95.96	Shut-In(2)
199	140.46	97.30	End Shut-In(2)
205	1387.23	97.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	45 foot gas in pipe	0.00
15.00	SOCM 2.5%O 97.5M	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60467

**DST#: 2**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 23:37:00

## Tool Information

Drill Pipe:	Length: 3127.00 ft	Diameter: 3.80 inches	Volume: 43.86 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 43.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3127.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3112.00	
Hydraulic tool	5.00			3117.00	
Top Packer	5.00			3122.00	
Packer	5.00			3127.00	20.00 Bottom Of Top Packer
Anchor	8.00			3135.00	
Recorder	1.00	8524	Inside	3136.00	
Recorder	1.00	8159	Outside	3137.00	
Bull Plug	3.00			3140.00	13.00 Anchor Tool

**Total Tool Length: 33.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60467

**DST#: 2**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.14 @ 23:37:00

### 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:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	45 foot gas in pipe	0.000
15.00	SOCM 2.5%O 97.5M	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

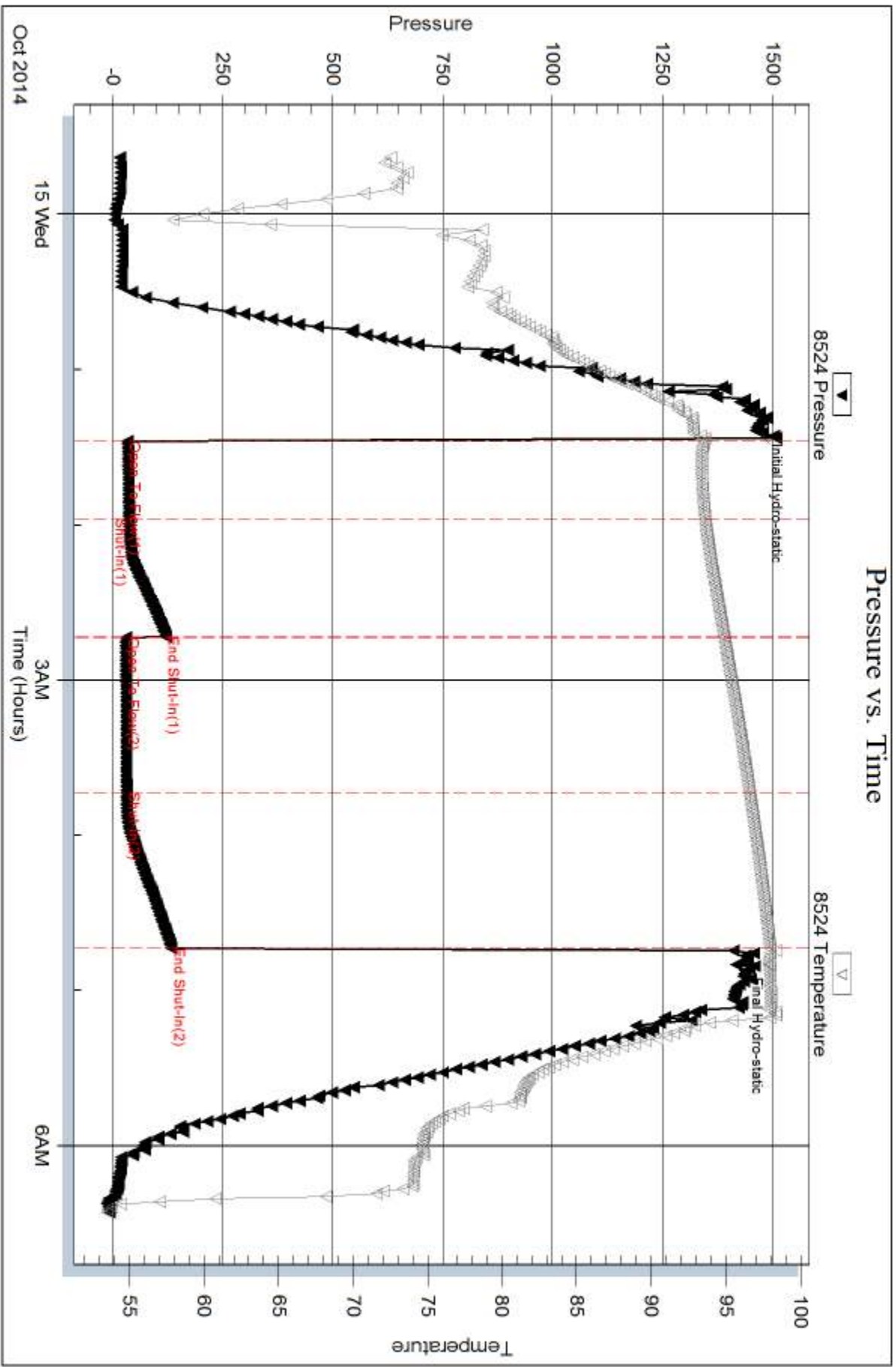
Serial #: 8524

Inside

Carrie Exploration and Development

Brian #C-1

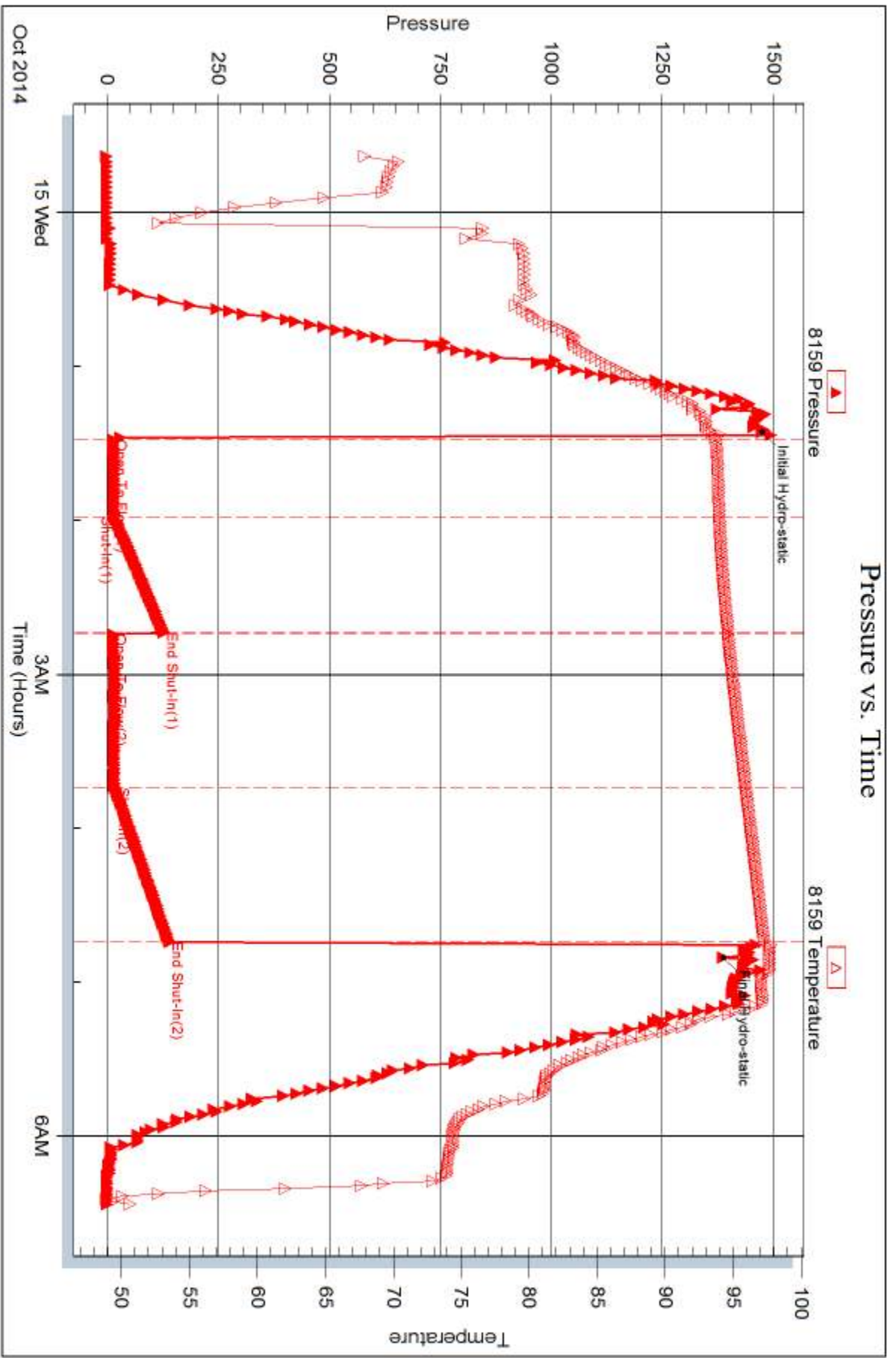
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60467

Printed: 2014, 10, 19 @ 14:34:28





## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration and Development**

210 West 22nd  
Hays KS 67601

ATTN: Eli Felts/Jeff Burke

**Brian #C-1**

**26-20s-10w Rice,KS**

Start Date: 2014.10.15 @ 21:16:00

End Date: 2014.10.16 @ 02:49:30

Job Ticket #: 60468                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.19 @ 14:34:06





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60468

**DST#: 3**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.15 @ 21:16:00

## GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:30

Time Test Ended: 02:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S3

**Interval: 3279.00 ft (KB) To 3306.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3306.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 28.09 psig @ 3303.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.10.15

End Date:

2014.10.16

Last Calib.:

2014.10.16

Start Time: 21:17:00

End Time:

02:49:30

Time On Btm:

2014.10.15 @ 22:56:30

Time Off Btm:

2014.10.16 @ 01:29:00

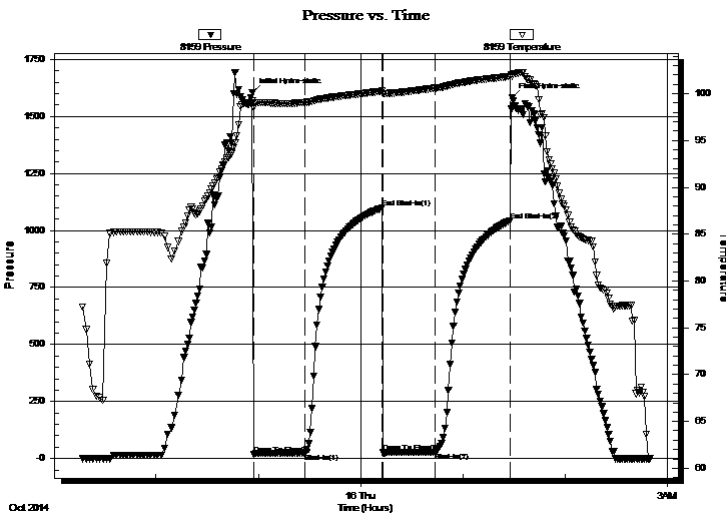
TEST COMMENT: IFP 30 Minutes Weak blow built to 1/4"

ISI 45 Minutes No blow back

FFP 30 Minutes Dead no blow /Flush tool/Weak surface blow died in 3 minutes

FSI 45 Minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.46	99.20	Initial Hydro-static
1	19.96	98.50	Open To Flow (1)
31	24.47	99.07	Shut-In(1)
76	1098.71	100.26	End Shut-In(1)
77	25.88	100.00	Open To Flow (2)
107	28.09	100.58	Shut-In(2)
151	1042.85	101.83	End Shut-In(2)
153	1580.84	101.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60468

**DST#: 3**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.15 @ 21:16:00

## GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:30

Time Test Ended: 02:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S3

**Interval: 3279.00 ft (KB) To 3306.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3306.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8524**

**Inside**

Press@RunDepth: 1038.73 psig @ 3302.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.10.15

End Date:

2014.10.16

Last Calib.:

2014.10.16

Start Time: 21:17:00

End Time:

02:49:00

Time On Btm:

2014.10.15 @ 22:56:30

Time Off Btm:

2014.10.16 @ 01:28:30

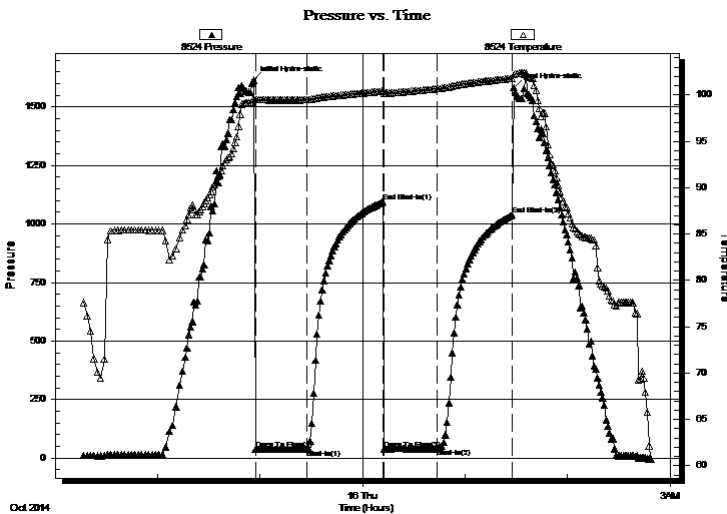
TEST COMMENT: IFP 30 Minutes Weak blow built to 1/4"

ISI 45 Minutes No blow back

FFP 30 Minutes Dead no blow /Flush tool/Weak surface blow died in 3 minutes

FSI 45 Minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.34	99.63	Initial Hydro-static
1	39.32	99.47	Open To Flow (1)
31	39.79	99.49	Shut-In(1)
76	1093.63	100.41	End Shut-In(1)
76	39.59	100.19	Open To Flow (2)
107	40.98	100.67	Shut-In(2)
151	1038.73	101.78	End Shut-In(2)
152	1582.74	102.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60468

**DST#: 3**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.15 @ 21:16:00

## Tool Information

Drill Pipe:	Length: 3289.00 ft	Diameter: 3.80 inches	Volume: 46.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3279.00 ft			Final 39000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3264.00	
Hydraulic tool	5.00			3269.00	
Top Packer	5.00			3274.00	
Packer	5.00			3279.00	20.00 Bottom Of Top Packer
Anchor	22.00			3301.00	
Recorder	1.00	8524	Inside	3302.00	
Recorder	1.00	8159	Outside	3303.00	
Bull Plug	3.00			3306.00	27.00 Anchor Tool

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60468

**DST#: 3**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.15 @ 21:16:00

## 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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	Mud 100%	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbf

Num Fluid Samples: 0

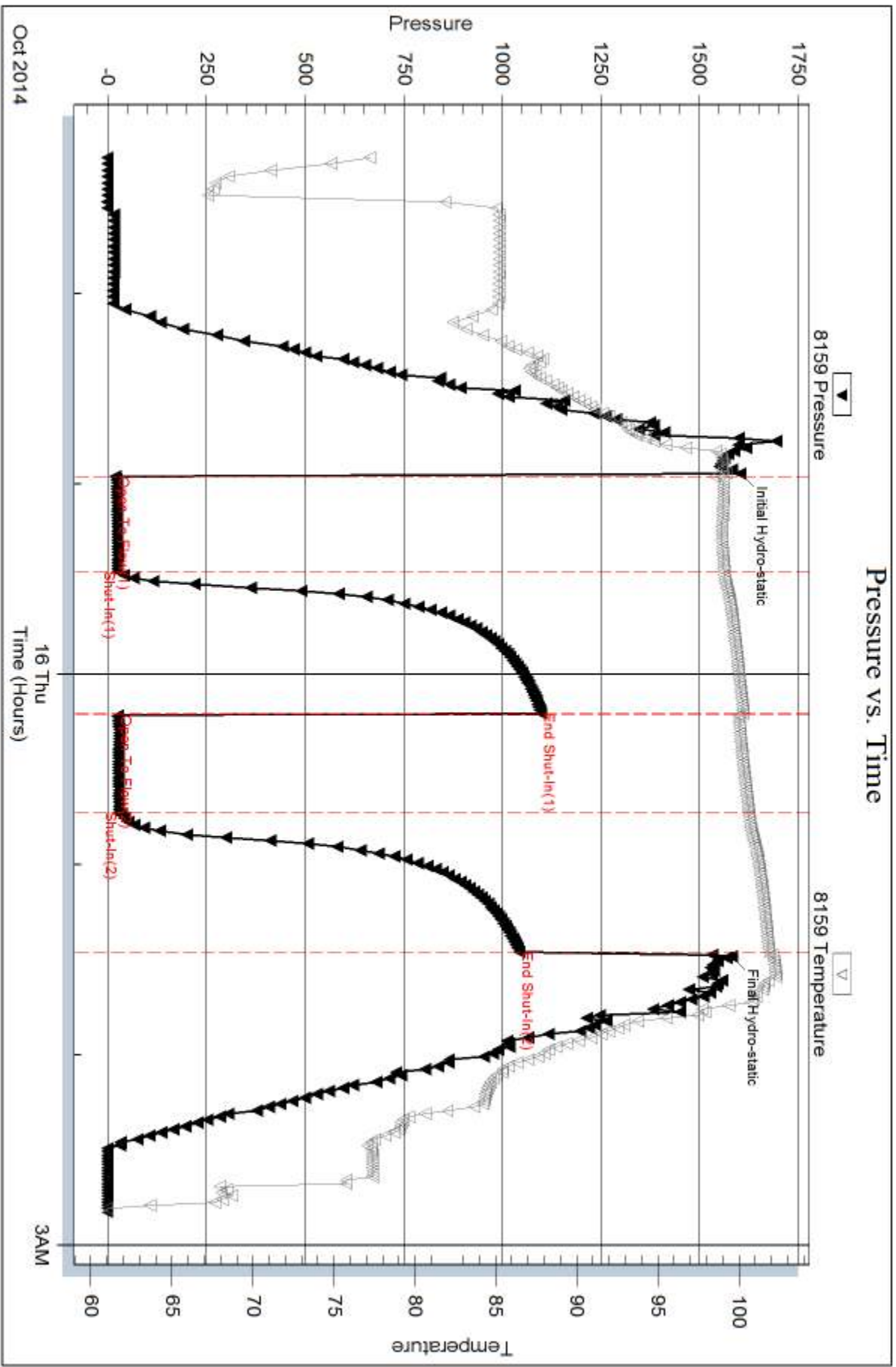
Num Gas Bombs: 0

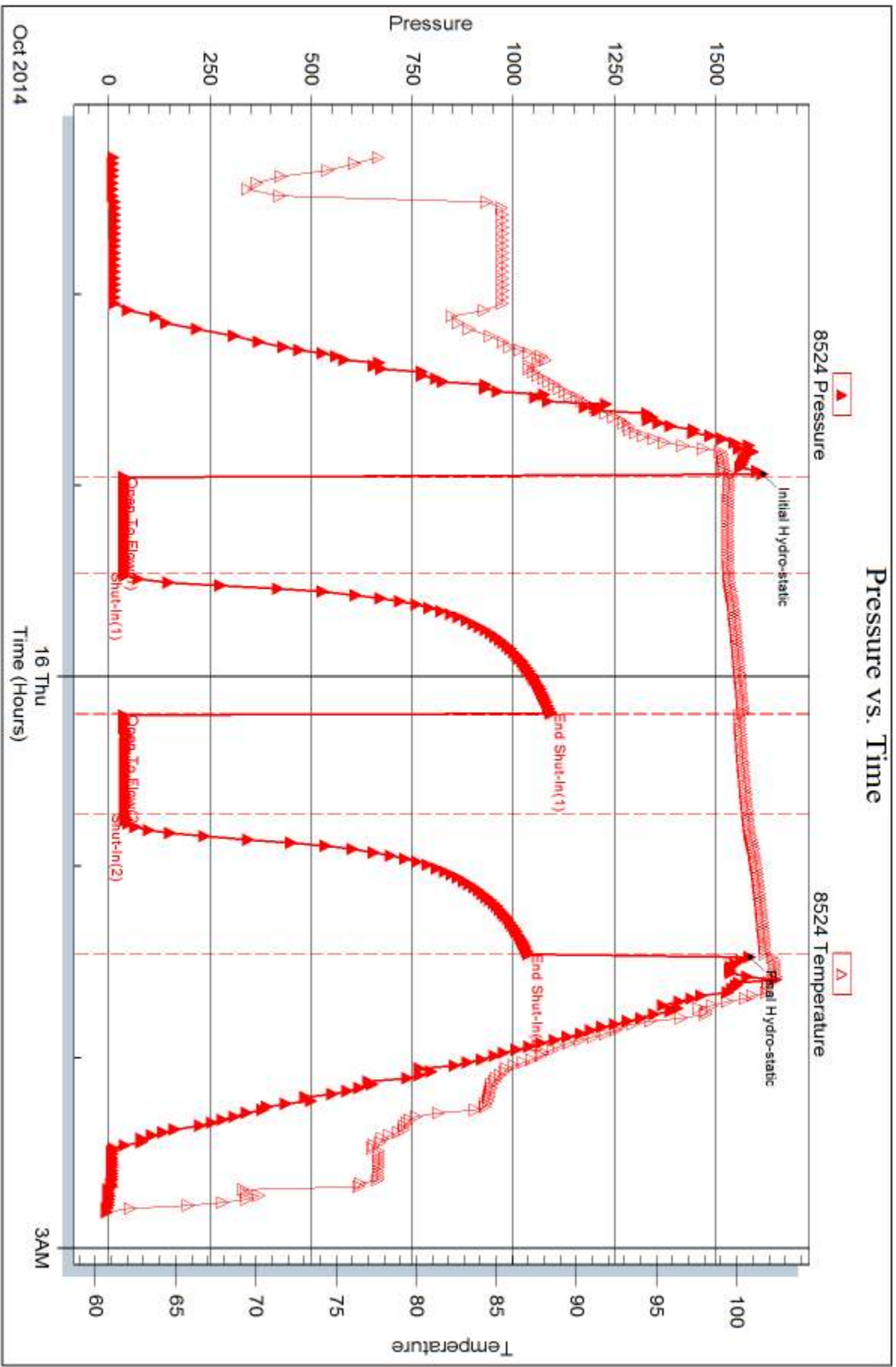
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration and Development**

210 West 22nd  
Hays KS 67601

ATTN: Eli Felts/Jeff Burke

**Brian #C-1**

**26-20s-10w Rice,KS**

Start Date: 2014.10.16 @ 13:28:00

End Date: 2014.10.16 @ 19:25:00

Job Ticket #: 60469                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.19 @ 14:33:32



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60469

**DST#: 4**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.16 @ 13:28:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:30

Time Test Ended: 19:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S3

**Interval: 3335.00 ft (KB) To 3395.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8159 Outside**

Press@RunDepth: 45.07 psig @ 3392.34 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.10.16 End Date: 2014.10.16

Last Calib.: 2014.10.16

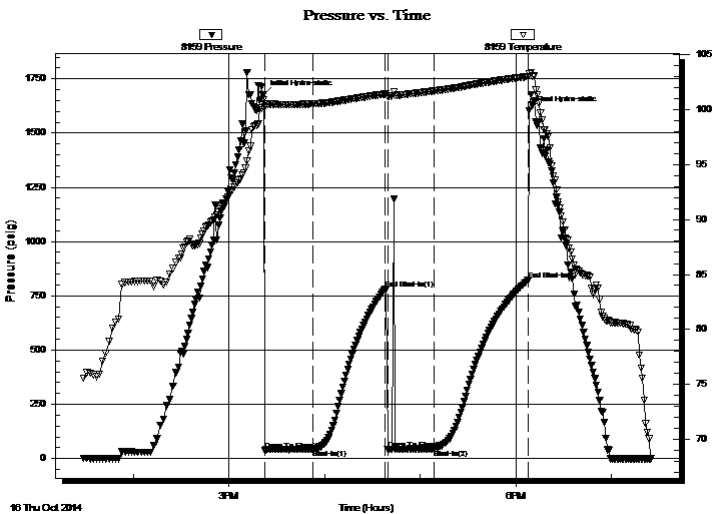
Start Time: 13:29:00 End Time: 19:25:00

Time On Btm: 2014.10.16 @ 15:22:00

Time Off Btm: 2014.10.16 @ 18:08:30

**TEST COMMENT:** IFP 30 Minutes Weak surface blow died in 7 minutes  
ISI 45 Minutes No blow back  
FFP 30 Minutes Dead no blow /Flush tool no help  
FSI 60 Minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.95	100.88	Initial Hydro-static
1	39.95	100.18	Open To Flow (1)
31	41.05	100.49	Shut-In(1)
76	781.79	101.38	End Shut-In(1)
78	42.83	101.20	Open To Flow (2)
107	45.07	101.65	Shut-In(2)
166	821.39	102.96	End Shut-In(2)
167	1602.04	103.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted mud/Oil 1% Mud 99%	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60469

**DST#: 4**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.16 @ 13:28:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:30

Time Test Ended: 19:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S3

**Interval: 3335.00 ft (KB) To 3395.00 ft (KB) (TVD)**

Reference Elevations: 1792.00 ft (KB)

Total Depth: 3395.00 ft (KB) (TVD)

1783.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8524 Inside**

Press@RunDepth: 811.78 psig @ 3391.34 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.10.16

End Date: 2014.10.16

Last Calib.: 2014.10.16

Start Time: 13:29:00

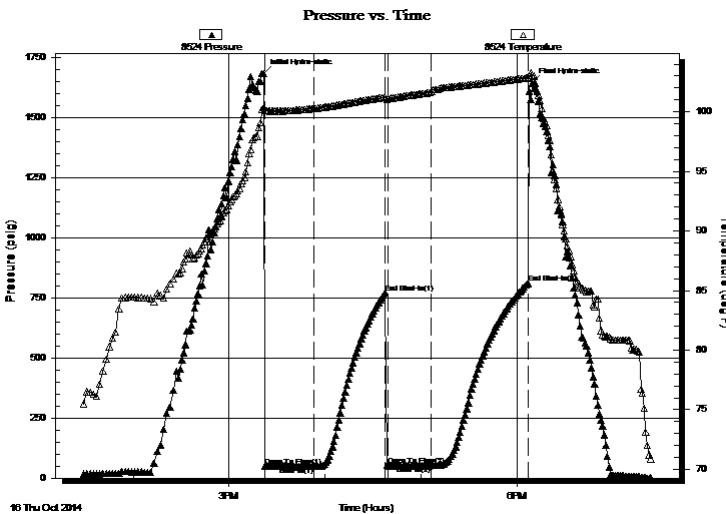
End Time: 19:24:00

Time On Btm: 2014.10.16 @ 15:21:30

Time Off Btm: 2014.10.16 @ 18:09:30

**TEST COMMENT:** IFP 30 Minutes Weak surface blow died in 7 minutes  
ISI 45 Minutes No blow back  
FFP 30 Minutes Dead no blow /Flush tool no help  
FSI 60 Minutes No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.23	100.40	Initial Hydro-static
1	51.41	100.12	Open To Flow (1)
32	48.91	100.27	Shut-In(1)
76	771.55	101.23	End Shut-In(1)
78	51.97	101.11	Open To Flow (2)
105	51.98	101.69	Shut-In(2)
166	811.78	102.85	End Shut-In(2)
168	1643.09	103.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted mud/Oil 1% Mud 99%	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration and Development

**26-20s-10w Rice, KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60469

**DST#: 4**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.16 @ 13:28:00

## Tool Information

Drill Pipe:	Length: 3323.00 ft	Diameter: 3.80 inches	Volume: 46.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 46.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3335.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.34 ft			
Tool Length:	80.34 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3320.00	
Hydraulic tool	5.00			3325.00	
Packer	5.00			3330.00	20.00 Bottom Of Top Packer
Packer	5.00			3335.00	
Anchor	5.00			3340.00	
Change Over Sub	0.75			3340.75	
Drill Pipe	31.84			3372.59	
Change Over Sub	0.75			3373.34	
Anchor	17.00			3390.34	
Recorder	1.00	8524	Inside	3391.34	
Recorder	1.00	8159	Outside	3392.34	
Bull Plug	3.00			3395.34	60.34 Bottom Packers & Anchor

**Total Tool Length: 80.34**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carrie Exploration and Development

**26-20s-10w Rice,KS**

210 West 22nd  
Hays KS 67601

**Brian #C-1**

Job Ticket: 60469

**DST#: 4**

ATTN: Eli Felts/Jeff Burke

Test Start: 2014.10.16 @ 13:28:00

## 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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Oil spotted mud/Oil 1% Mud 99%	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbf

Num Fluid Samples: 0

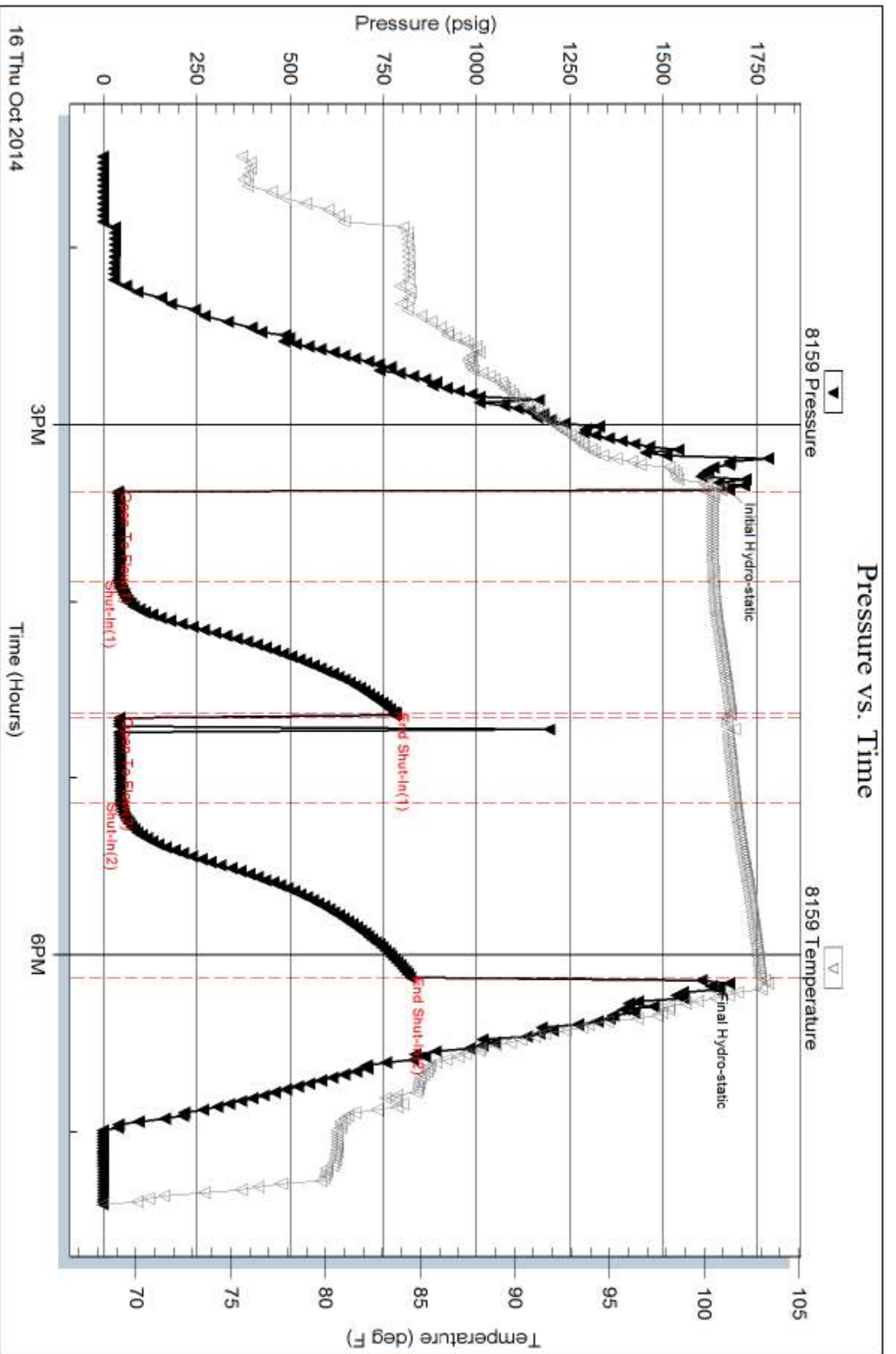
Num Gas Bombs: 0

Serial #:

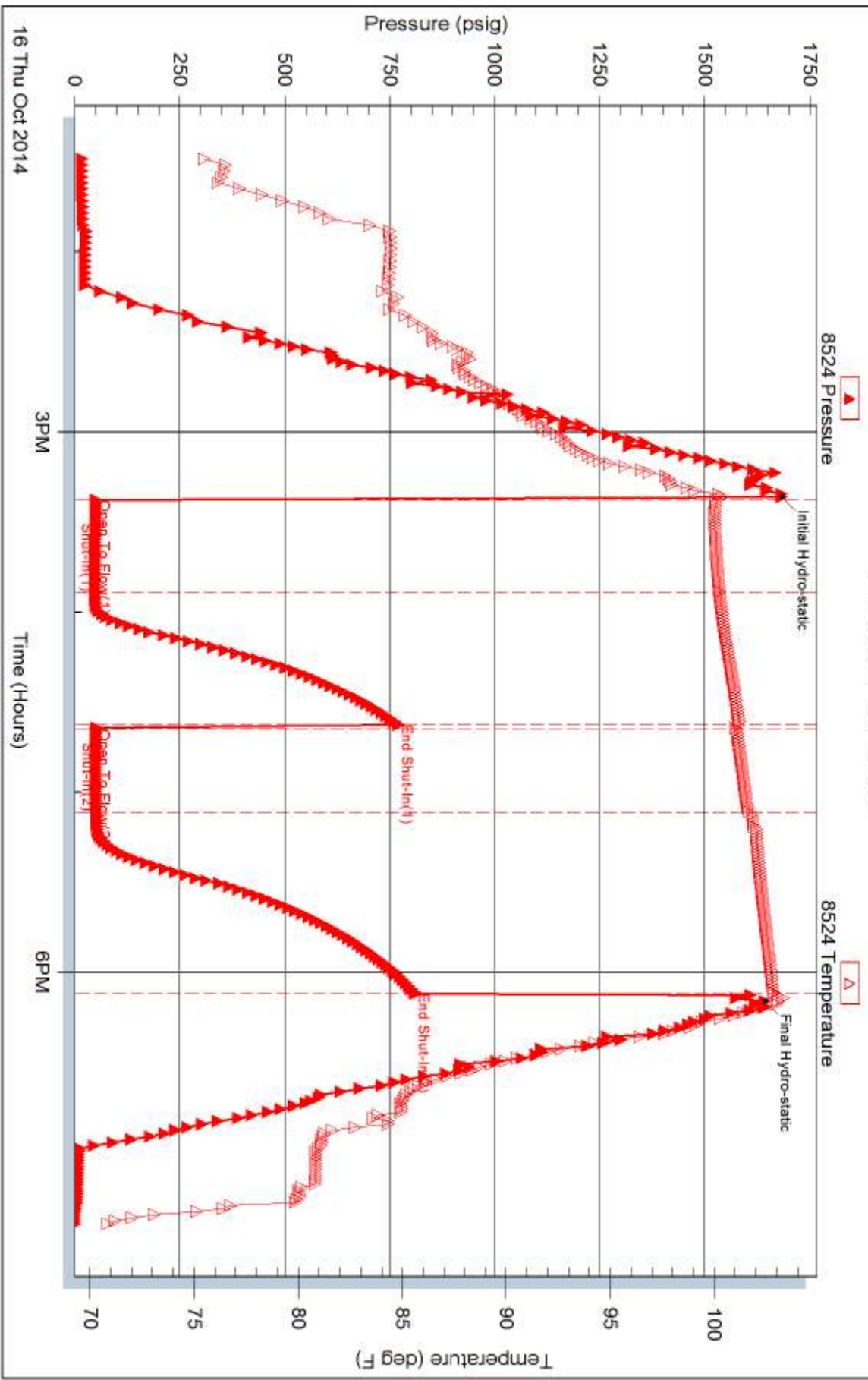
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time



16 Thu Oct 2014

3PM

Time (Hours)

6PM



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60466

Well Name & No. Brian #C-1 Test No. 1 Date 10-14-14  
 Company Carrie Exploration + Development Elevation 1792 KB 1783 GL  
 Address 210 W 22<sup>nd</sup> Hays KS 67601  
 Co. Rep / Geo. Eli Felts / Jeff Burke Rig Southwind #8  
 Location: Sec. 26 Twp. 20 S Rge. 10 W Co. Rice State KS

Interval Tested 3097 - 3127 Zone Tested Lansing "F+G"  
 Anchor Length 30 Drill Pipe Run 3100 Mud Wt. 9.0  
 Top Packer Depth 3092 Drill Collars Run Ø Vis 68  
 Bottom Packer Depth 3097 Wt. Pipe Run Ø WL \_\_\_\_\_  
 Total Depth 3127 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description 1<sup>st</sup> Open - weak blow built to 4 inches into water, 1<sup>st</sup> Shut In - No blow back. 2<sup>nd</sup> open - weak blow built to 6 inches into water, 2<sup>nd</sup> Shut In - No blow back.

Rec	Feet of	%gas	%oil	%water	%muc
<u>Ø</u>	<u>45' Gas in Pipe</u>	<u>100</u>			
<u>15</u>	<u>mud w/Trace Oil</u>		<u>T</u>		<u>100</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%muc _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%muc _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%muc _____

Rec Total 15 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1422  Test 1150 T-On Location 06:00  
 (B) First Initial Flow 1472 59  Jars 250 T-Started 10:30  
 (C) First Final Flow 59 52  Safety Joint 75 T-Open 12:25  
 (D) Initial Shut-In 52 84  Circ Sub \_\_\_\_\_ T-Pulled 15:50  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out 17:15  
 (F) Second Final Flow 45  Mileage 50 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 27  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1422  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1552.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1552.50

Approved By \_\_\_\_\_ 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 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60467

Well Name & No. Brian # C-1 Test No. 2 Date 10-14-14  
 Company Carrie Exploration & Development Elevation 1792 KB 178.3 GL  
 Address 210 W 22<sup>nd</sup> Hays KS 67601  
 Co. Rep / Geo. Eli Felts / Jeff Burk Rig Southwind # 8  
 Location: Sec. 26 Twp. 20S Rge. 10W Co. Rice State KS

Interval Tested +78 3127-3140 Zone Tested Lansing "G"  
 Anchor Length 3140 13 Drill Pipe Run 3127 Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3122 Drill Collars Run Ø Vis \_\_\_\_\_  
 Bottom Packer Depth 3127 Wt. Pipe Run Ø WL \_\_\_\_\_  
 Total Depth 3140 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description 1<sup>st</sup> open - fair blow built to 10 inches into water, 1<sup>st</sup> shut in - No blow back, 2<sup>nd</sup> open - fair blow to bottom of 5 gallon bucket in 35 min, 2<sup>nd</sup> shut in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>—</u>	<u>45 foot gas in pipe</u>	<u>100</u>			
<u>15</u>	<u>oil cut mud</u>		<u>2.5</u>		<u>97.5</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

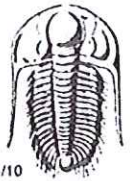
Rec Total 15 BHT 97 Gravity \ API RW \ @ \ °F Chlorides \ ppm

(A) Initial Hydrostatic 1461  Test 1150 T-On Location 23:10  
 (B) First Initial Flow 33  Jars \_\_\_\_\_ T-Started 00:30  
 (C) First Final Flow 36  Safety Joint \_\_\_\_\_ T-Open 01:30  
 (D) Initial Shut-In 120  Circ Sub \_\_\_\_\_ T-Pulled 04:45  
 (E) Second Initial Flow 29  Hourly Standby \_\_\_\_\_ T-Out 06:20  
 (F) Second Final Flow 31  Mileage 50 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 133  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1417  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 1227.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1227.50

Approved By \_\_\_\_\_ Our Representative Shane Zep

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60468**

Well Name & No. Brian #C-1 Test No. 3 Date 15 Oct 14  
 Company Carrie Exploration and Development Elevation 1792 KB 1783 GL  
 Address 710 W 22nd Hays Kansas 67601  
 Co. Rep / Geo. Eli Felts / Jeff Burk Rig Southwind Rig #8  
 Location: Sec. 26 Twp. 20S Rge. 10W Co. Rice State KS

Interval Tested 3279-3306 Zone Tested Lansing / Kansas City zone L  
 Anchor Length 27 Drill Pipe Run 3289 Mud Wt. 9.0  
 Top Packer Depth 3274 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 3279 Wt. Pipe Run 6 WL \_\_\_\_\_  
 Total Depth 3306 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description Weak blow / Blow built to 1/4 inch / Blow throughout  
No blow back  
Dead no blow / Flush tool / Weak surface blow died in 3 minutes  
No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</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 \_\_\_\_\_ BHT 107 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1603  Test 1150 T-On Location 9:00 pm  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 9:16 pm  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 10:57 pm  
 (D) Initial Shut-In 1098  Circ Sub \_\_\_\_\_ T-Pulled 11:27 am  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 2:49 am  
 (F) Second Final Flow 28  Mileage 50 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1042  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1590  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_  
 Sub Total 1227.50  
 Sub Total 1227.50

Approved By \_\_\_\_\_ Our Representative [Signature]

Triobite 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60469**

Well Name & No. Briga HC-1 Test No. 4 Date 16 OCT 14  
 Company Carrie Exploration and Development Elevation 1792 KB 1783 GL  
 Address 210 W 22nd Hays Kansas 67601  
 Co. Rep / Geo. El. Felts / Jeff Buck Rig Southward Rig #8  
 Location: Sec. 26 Twp. 20S Rge. 10W Co. Rice State KS

Interval Tested 3335 - 3395 Zone Tested Simpson  
 Anchor Length 60 Drill Pipe Run 3323 Mud Wt. 9.1  
 Top Packer Depth 3330 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3335 Wt. Pipe Run 0 WL \_\_\_\_\_  
 Total Depth 3395 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description Weak surface blow / Blow died in 7 minutes  
No blow back  
Dead no blow / Flush tool no help  
No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>oil spotted mud</u>	<u>1</u>		<u>99</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 85 BHT 103 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1675  Test 1150 T-On Location 1:15 pm  
 (B) First Initial Flow 39  Jars \_\_\_\_\_ T-Started 1:28 pm  
 (C) First Final Flow 41  Safety Joint \_\_\_\_\_ T-Open 3:22 pm  
 (D) Initial Shut-In 781  Circ Sub \_\_\_\_\_ T-Pulled 6:07 pm  
 (E) Second Initial Flow 42  Hourly Standby \_\_\_\_\_ T-Out 8:27 pm  
 (F) Second Final Flow 45  Mileage 50 155 Comments \_\_\_\_\_  
 (G) Final Shut-In 821  Sampler \_\_\_\_\_ loaded tools 10/17 am  
 (H) Final Hydrostatic 1602  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1305

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 0  
 Total 1305  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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.

Re: Brian-Loesch Geological report

Re: Brian-Loesch Geological report

Actions

Jeff Burk

2/02/15

To: Ronald Herold

Show this message...



From: **Jeff Burk** (jburk-peterra@sbcglobal.net) This sender is in your contact list.

Sent: Mon 2/02/15 11:41 AM

To: Ronald Herold (ronaldherold@hotmail.com)

Valerie,

The GeoReport I have on my laptop is not the final report. I had to get the HASP key from Eli and get the right memory key, which is not with me. I will be in this afternoon, locate the key and send it to you then. It will be in TIFF format that can be attached directly.

Additionally, I will make sure 5 hard copies are mailed to you. There is also a downloadable "reading" program for this software. If you would like it let me know and I will help you set that up. Sorry for the delay, it is not an email issue with your email.

Jeff

Sent from my iPhone

On Feb 2, 2015, at 10:10 AM, Ronald Herold <ronaldherold@hotmail.com> wrote:

HI Jeff

I hate to keep bothering you, but I still cannot find the geological report. Did you send it from this email address? I've done a search and checked junk mail. Are you sending it to ronaldherold@hotmail.com?

Thanks

Valerie