



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1166474  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1166474

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Prospect Oil & Gas Corp
Well Name	West Beaver Creek/Black Dahlia Unit 1
Doc ID	1166474

Tops

Name	Top	Datum
ANHYDRITE	809	+1062
BASE	834	+1037
TOPEKA	2684	-813
HEEBNER SHALE	2962	-1091
TORONTO	2981	-1110
BROWN LIME	3049	-1178
LANSING	3058	-1187
BKC	3300	-1429
ARBUCKLE	3328	-1457
TOTAL DEPTH	3334	-1463

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7890

Date	10-17-13	Sec.	29	Twp.	15	Range	12	County	Russell	State	KS	On Location		Finish	3:50 PM
Lease # West								Location	Bunker Hill Sto DE 2E						
Well No. 1								Owner US W Ninto							
Contractor Royal 1								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job Surface								Charge To 1/2 OS part oil							
Hole Size 12 1/4				T.D. 563				Street							
Csg. 8 5/8				Depth 563.64				City				State			
Tbg. Size				Depth				City				State			
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg. 20ft				Shoe Joint 34.5BBL				Cement Amount Ordered 250 390 240				u sel			
Meas Line								Displace 7							
<b>EQUIPMENT</b>															
Pumptrk 15 No. Cementer Helper Matt								Common							
Bulktrk 14 No. Driver Mich								Poz. Mix							
Bulktrk 24 No. Driver Doug								Gel.							
								Calcium							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
Lease West Beaver Creek								Sand							
Black Dahlia #1								Handling							
								Mileage							
<b>FLOAT EQUIPMENT</b>															
Cement did Circulate								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								2 cup plug							
Thank you								Pumptrk Charge							
								Mileage							
X Signature Doug Budy								Tax							
								Discount							
								Total Charge							

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7799

Date	10-23-13	Sec.	29	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	4:00 AM
Lease								Location		West Beaver Creek / Black Dahlia Unit					
Well No.								1							
Owner								Michael's Rd, 3/4 W, N 1/2							
Contractor								Royal 1							
Type Job								Bottom Stage							
Hole Size								7 7/8"							
Csg.								New 15 1/2" 5 1/2"							
Tbg. Size								DVT							
Tool								15 1/8"							
Cement Left in Csg.								16.59'							
Meas Line								Displace 79 BIS							
Charge To								Prospect oil + gas							
Street															
City								State							
The above was done to satisfaction and supervision of owner agent or contractor.															
Cement Amount Ordered								150 x Common 10% Salt							
5% Gilsomite								500 gal Mud Clear 48							
<b>EQUIPMENT</b>															
Pumptrk 16								No. Cementer Helper Billy Reck							
Bulktrk 8								No. Driver Chad							
Bulktrk 9								No. Driver Lonnie M.							
4 3/4 water								JOB SERVICES & REMARKS 36 mud							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								1, 3, 5, 7, 9, 11, 13, 43, 60							
Baskets								44, 60							
D/V or Port Collar								JT #44 - 1518'							
pipe on bottom, break Circulation								Handling							
pump 500 gal Mud Clear 48								Mileage							
pump 10 BIS of water pump								<b>FLOAT EQUIPMENT</b>							
150 x Cement. Shut down,								Guide Shoe							
wash pump + lines, released plug								Centralizer 7 turbos 2 Cents							
1 plug Displaced with 79 BIS of fluid								Baskets 2							
Released + Held. Deep Direct								AFU Inserts							
open tool. Break Circulation								Float Shoe 1							
Lift pressure 600 #								Latch Down							
Load plug to 1500 #								1-DV Tool Assy							
open to 1 well @ 1000 #								Pumptrk Charge							
								Mileage							
Signature								Tax							
								Discount							
								Total Charge							

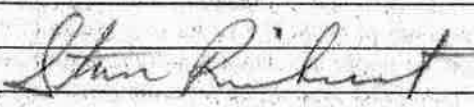
# QUALITY OILWELL CEMENTING, INC.

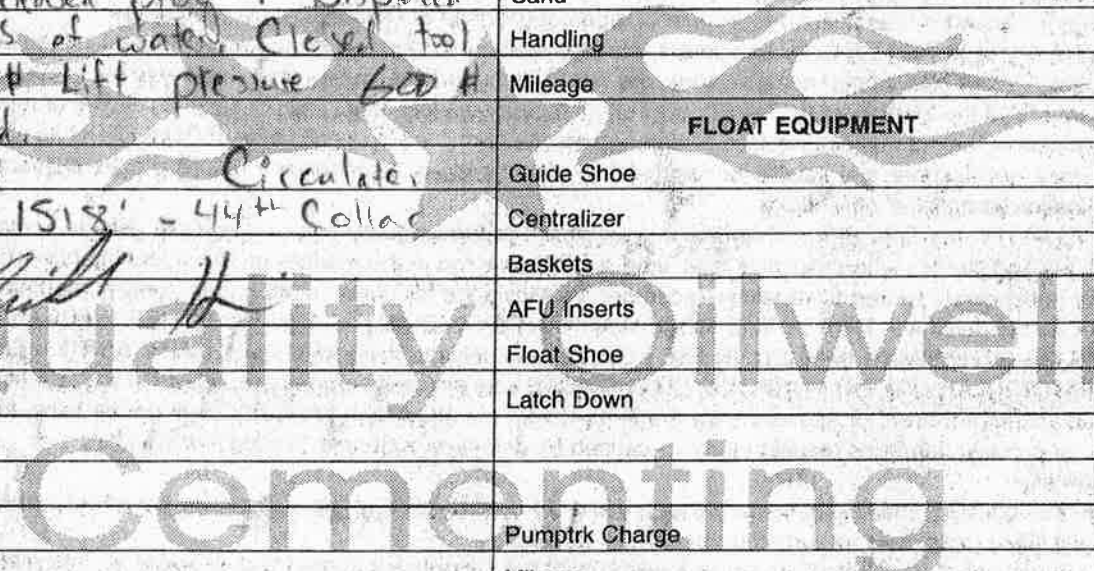
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7800

Date	10-23-13	Sec.	29	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	5:45 AM
Lease								Well No.		1					
Contractor								Owner							
Roual I								Michaelis Rd, 3/4 W, N15							
Type Job								To Quality Oilwell Cementing, Inc.							
Top Stage								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge To							
17 7/8"				3334'				Prospect oil + gas							
Csg. New St				Depth				Street							
15 1/2"				3331'											
Tbg. Size				Depth				City							
1 1/2"				1518'				State							
Tool DO Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
								300 QMDC 1/4 Flt Seal							
Meas Line				Displace											
				36 BLS											
<b>EQUIPMENT</b>								Common							
Pumptrk		No.		Cementer		Helper		Poz. Mix							
16				Billy		Rick									
Bulktrk		No.		Driver		Driver		Gel.							
8				Chad		M									
Bulktrk		No.		Driver		Driver		Calcium							
9				Lonnie		M									
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Remarks: pipe on bottom, break Circulator								Salt							
Rat Hole plug Rathole w/30 sv, plug								Flowseal							
Mouse Hole mud shale w/15 sv, Hook tool								Kol-Seal							
Centralizers Casing + mix 255 sv Cement								Mud CLR 48							
Baskets Shut down, wash pump + lines								CFL-117 or CD110 CAF 38							
D/V or Port Collar Released plug + Displaced								Sand							
with 36 BLS of water. Cleared tool								Handling							
with 1500 # Lift pressure 600 #								Mileage							
Released + hok.								<b>FLOAT EQUIPMENT</b>							
Cement did Circulator								Guide Shoe							
DU Tool @ 1518' - 44" Collar								Centralizer							
pull H.								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature															





## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837  
Russell KS 67665+0837

ATTN: Randy Kilian

**29-15s-12 Russell,KS**

**WBC/Black Dahlia Unit #1**

Start Date: 2013.10.20 @ 22:25:01

End Date: 2013.10.21 @ 04:03:00

Job Ticket #: 53646                      DST #: 1

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

Printed: 2013.10.25 @ 10:29:41



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell,KS**  
Job Ticket: 53646 **DST#: 1**  
Test Start: 2013.10.20 @ 22:25:01

## GENERAL INFORMATION:

Formation: **LKC "B-C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:58:30  
Time Test Ended: 04:03:00  
Interval: **3054.00 ft (KB) To 3100.00 ft (KB) (TVD)**  
Total Depth: 3100.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Andy Carreira  
Unit No: 68  
Reference Elevations: 1866.00 ft (KB)  
1860.00 ft (CF)  
KB to GR/CF: 6.00 ft

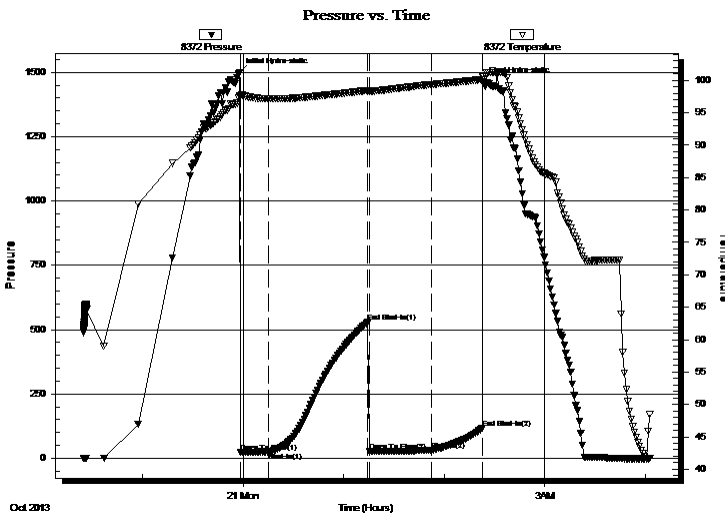
## Serial #: 8372

Inside

Press @ Run Depth: 30.59 psig @ 3061.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.10.20 End Date: 2013.10.21 Last Calib.: 2013.10.21  
Start Time: 22:25:01 End Time: 04:03:00 Time On Btm: 2013.10.20 @ 23:58:00  
Time Off Btm: 2013.10.21 @ 02:23:00

TEST COMMENT: IF:(15min) Weak surface blow died in 13 min.  
ISl:(60min) No Return  
FF:(35min) No Blow , Flushed, Surface blow died in 5 min.  
FSl:(35min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1499.69	97.58	Initial Hydro-static
1	23.62	97.52	Open To Flow (1)
17	24.77	97.15	Shut-In(1)
77	529.69	98.44	End Shut-In(1)
78	26.43	98.31	Open To Flow (2)
115	30.59	99.36	Shut-In(2)
145	116.14	100.13	End Shut-In(2)
145	1464.54	100.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	SOSM	0.35

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
Job Ticket: 53646 **DST#: 1**  
Test Start: 2013.10.20 @ 22:25:01

## Tool Information

Drill Pipe:	Length: 3042.00 ft	Diameter: 3.80 inches	Volume: 42.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 42.67 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3054.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	69.00 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			3032.00	
Shut In Tool	5.00			3037.00	
Hydraulic tool	5.00			3042.00	
Safety Joint	3.00			3045.00	
Packer	5.00			3050.00	23.00 Bottom Of Top Packer
Packer	4.00			3054.00	
Stubb	1.00			3055.00	
Perforations	5.00			3060.00	
Change Over Sub	1.00			3061.00	
Recorder	0.00	8372	Inside	3061.00	
Recorder	0.00	8321	Outside	3061.00	
Drill Pipe	32.00			3093.00	
Change Over Sub	1.00			3094.00	
Perforations	3.00			3097.00	
Bullnose	3.00			3100.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
Job Ticket: 53646      **DST#: 1**  
Test Start: 2013.10.20 @ 22:25:01

### 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:	50.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.94 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6200.00 ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	SOSM	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

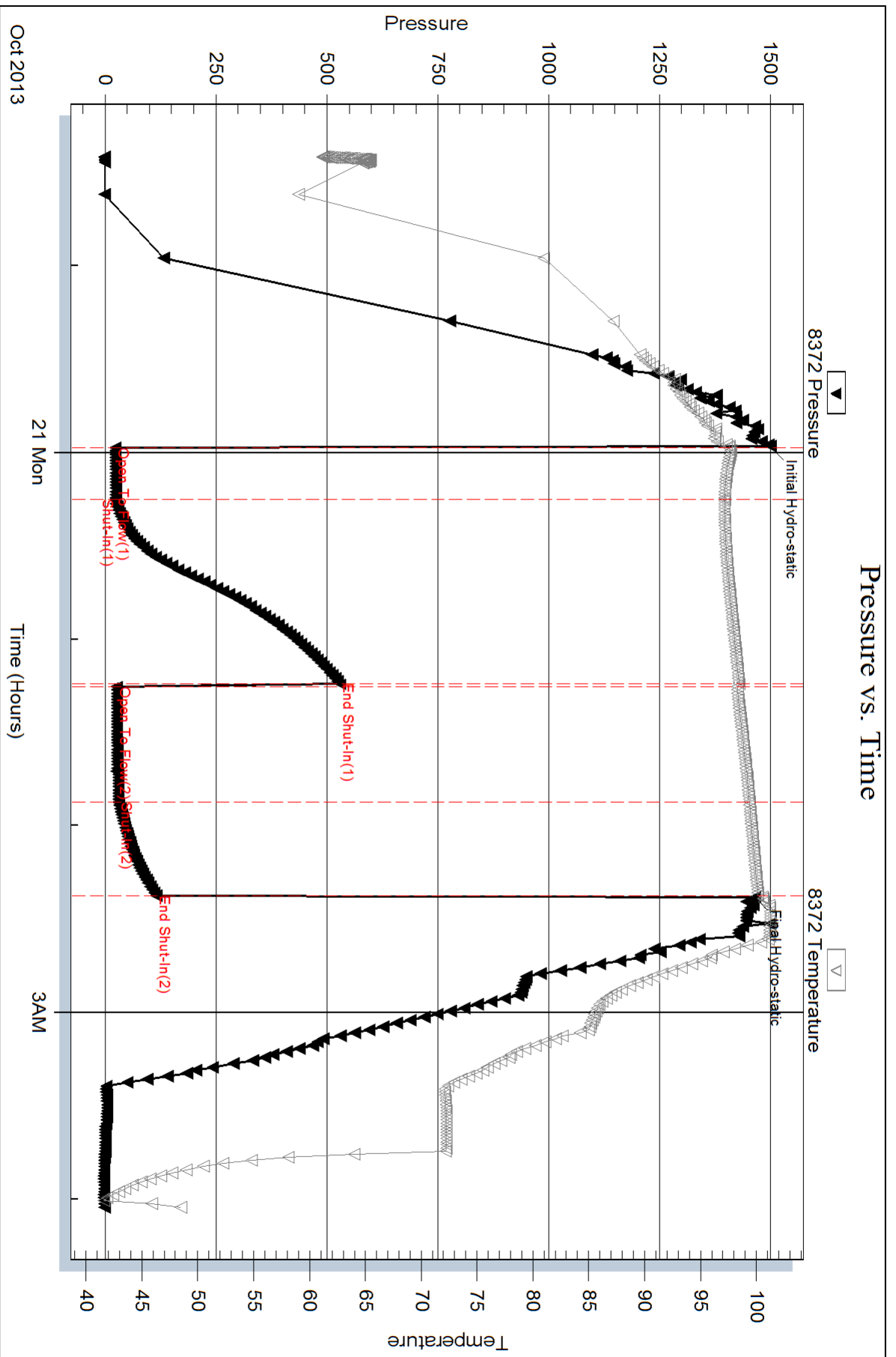
Num Gas Bombs: 0

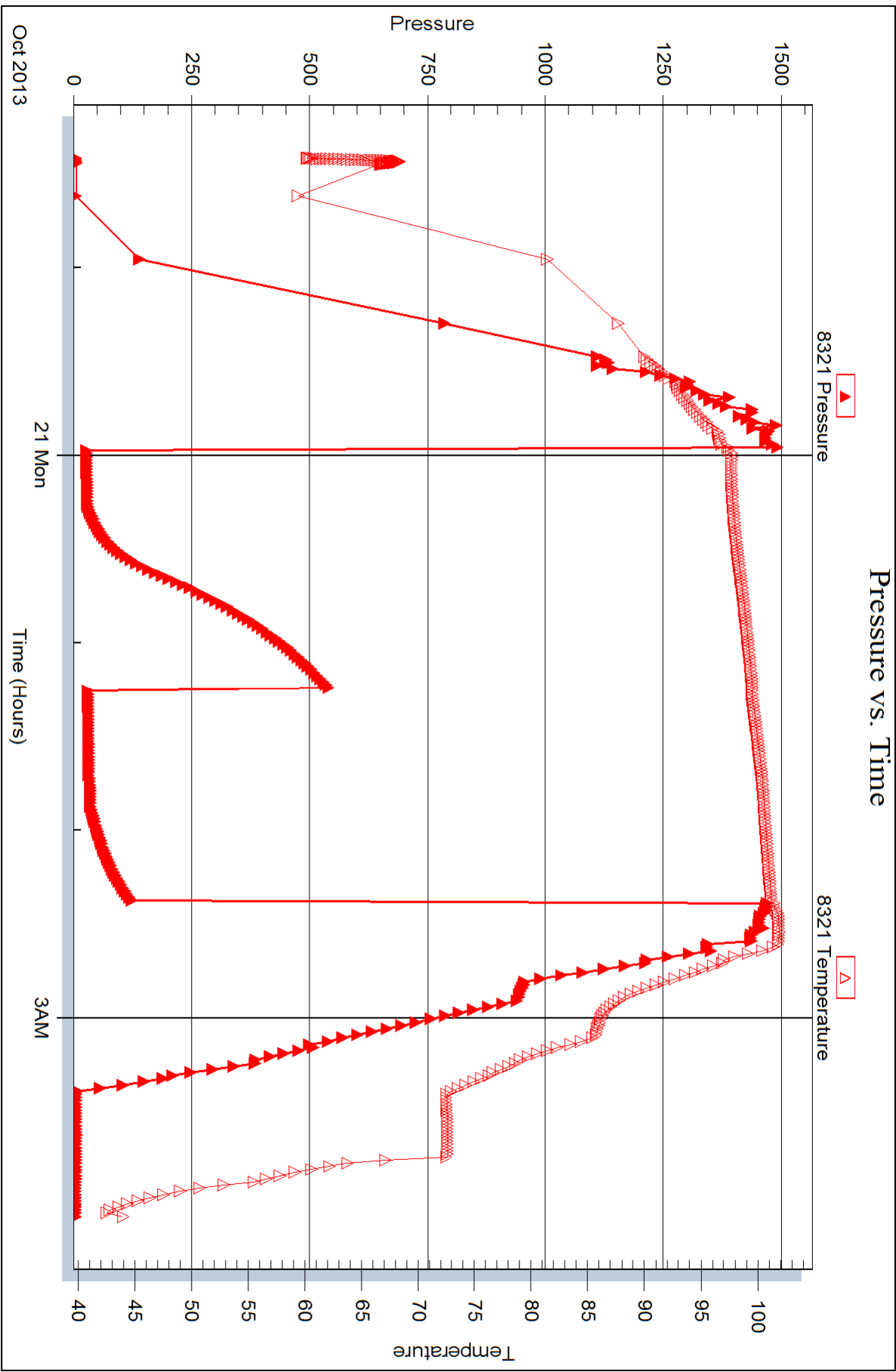
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837  
Russell KS 67665+0837

ATTN: Randy Kilian

**29-15s-12 Russell,KS**

**WBC/Black Dahlia Unit #1**

Start Date: 2013.10.21 @ 17:17:01

End Date: 2013.10.22 @ 00:15:30

Job Ticket #: 53647                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.25 @ 10:29:12

Prospect Oil & Gas

WBC/Black Dahlia Unit #1

29-15s-12 Russell,KS

DST # 2

LKC"H-J"

2013.10.21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas  
 PO Box 837  
 Russell KS 67665+0837  
 ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
 Job Ticket: 53647 **DST#: 2**  
 Test Start: 2013.10.21 @ 17:17:01

## GENERAL INFORMATION:

Formation: **LKC"H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:50:00  
 Time Test Ended: 00:15:30  
 Interval: **3181.00 ft (KB) To 3250.00 ft (KB) (TVD)**  
 Total Depth: 3250.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carreira  
 Unit No: 68  
 Reference Elevations: 1866.00 ft (KB)  
 1860.00 ft (CF)  
 KB to GR/CF: 6.00 ft

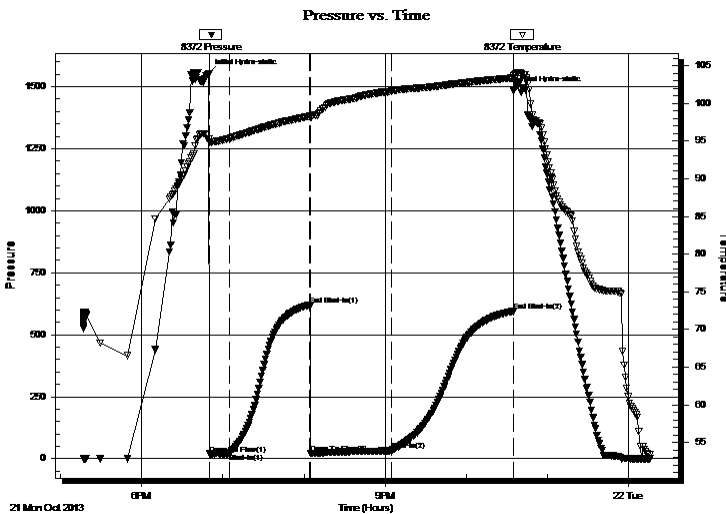
## Serial #: 8372

Inside

Press @ Run Depth: 32.78 psig @ 3188.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.21 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 17:17:01 End Time: 00:15:30 Time On Btm: 2013.10.21 @ 18:49:30  
 Time Off Btm: 2013.10.21 @ 22:35:00

TEST COMMENT: IF:(15min) Weak blow , built to 1"  
 ISl:(60min) No Return  
 FF:(60min) 4" blow in 4 min. 8" in 19 min. BOB in 46 min.  
 FS:(90min) No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.41	95.23	Initial Hydro-static
1	20.05	94.82	Open To Flow (1)
15	20.77	95.34	Shut-In(1)
75	621.05	98.29	End Shut-In(1)
76	21.53	98.12	Open To Flow (2)
135	32.78	101.64	Shut-In(2)
225	594.19	103.38	End Shut-In(2)
226	1484.67	103.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	OCGM g=10% o=10% m=80%	0.49
0.00	GIP= 90 ft	0.00

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
Job Ticket: 53647      **DST#: 2**  
Test Start: 2013.10.21 @ 17:17:01

**Tool Information**

Drill Pipe:	Length: 3170.00 ft	Diameter: 3.80 inches	Volume: 44.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 44.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3181.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3159.00	
Shut In Tool	5.00			3164.00	
Hydraulic tool	5.00			3169.00	
Safety Joint	3.00			3172.00	
Packer	5.00			3177.00	23.00      Bottom Of Top Packer
Packer	4.00			3181.00	
Stubb	1.00			3182.00	
Perforations	5.00			3187.00	
Change Over Sub	1.00			3188.00	
Recorder	0.00	8372	Inside	3188.00	
Recorder	0.00	8321	Outside	3188.00	
Drill Pipe	32.00			3220.00	
Change Over Sub	1.00			3221.00	
Perforations	26.00			3247.00	
Bullnose	3.00			3250.00	69.00      Bottom Packers & Anchor

**Total Tool Length: 92.00**



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell,KS**  
Job Ticket: 53647      **DST#: 2**  
Test Start: 2013.10.21 @ 17:17:01

**Mud and Cushion Information**

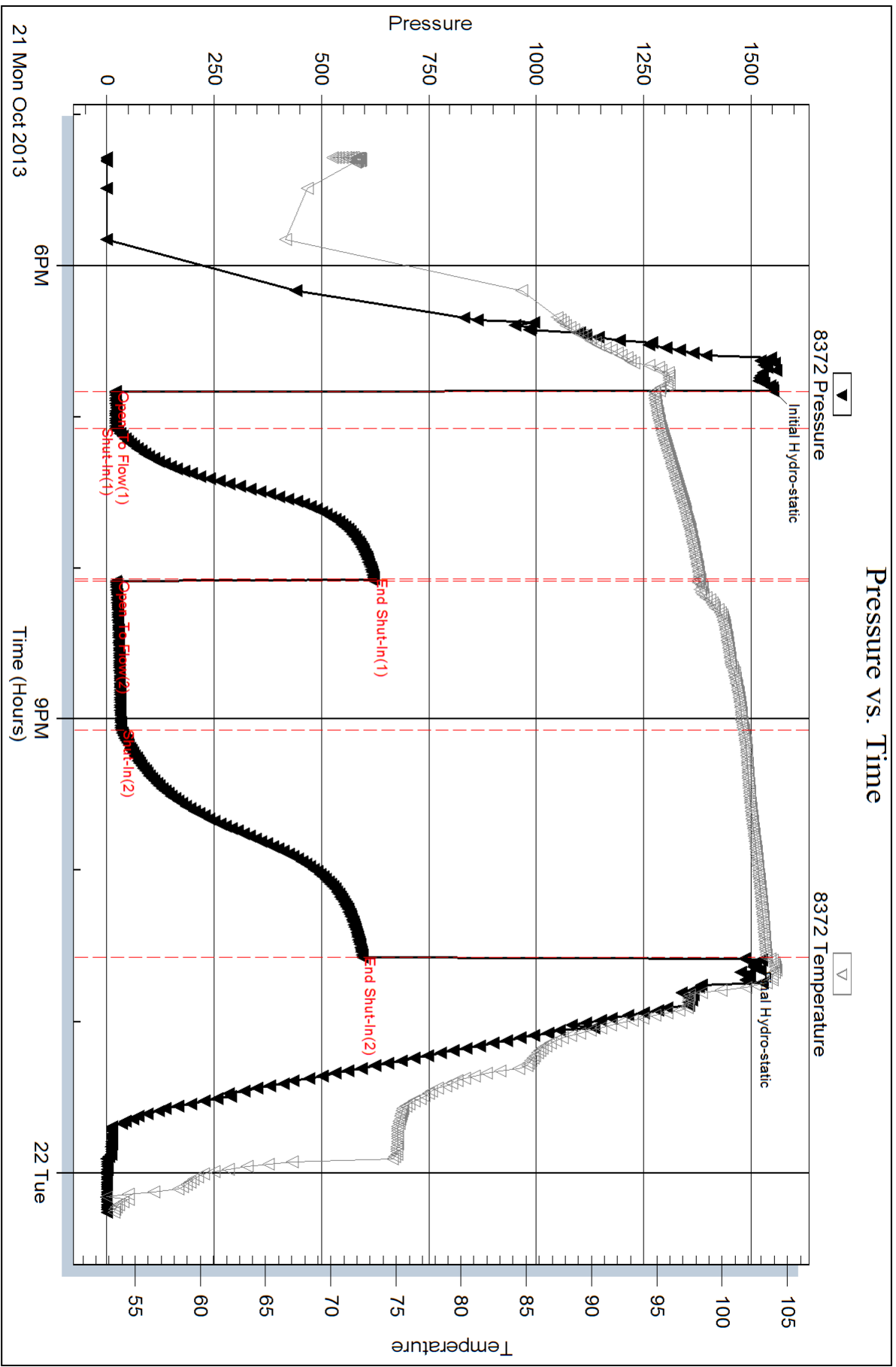
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7300.00 ppm			
Filter Cake: inches			

**Recovery Information**

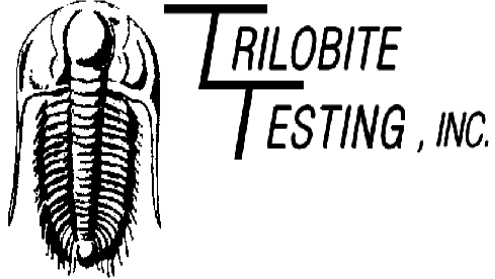
Recovery Table

Length ft	Description	Volume bbl
35.00	OCGM g=10% o=10% m=80%	0.491
0.00	GIP= 90 ft	0.000

Total Length: 35.00 ft      Total Volume: 0.491 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837  
Russell KS 67665+0837

ATTN: Randy Kilian

**29-15s-12 Russell,KS**

**WBC/Black Dahlia Unit #1**

Start Date: 2013.10.22 @ 11:43:01

End Date: 2013.10.22 @ 18:29:00

Job Ticket #: 53648                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.25 @ 10:28:23

Prospect Oil & Gas

WBC/Black Dahlia Unit #1

29-15s-12 Russell,KS

DST # 3

Arbuckle

2013.10.22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas  
 PO Box 837  
 Russell KS 67665+0837  
 ATTN: Randy Kilian

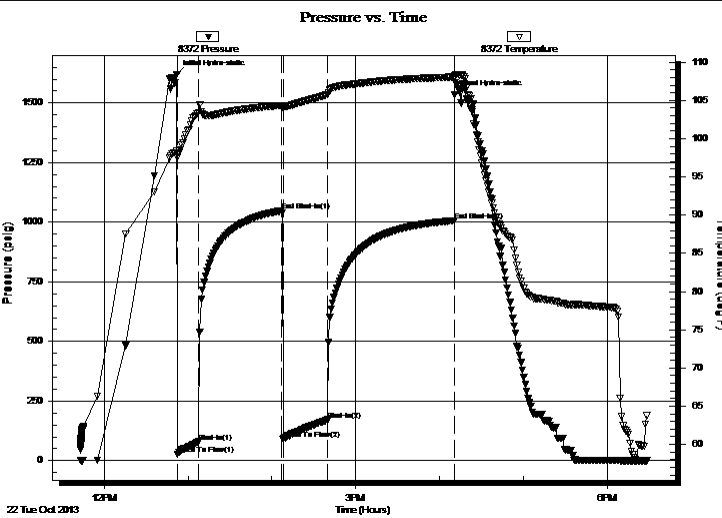
**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell,KS**  
 Job Ticket: 53648 **DST#: 3**  
 Test Start: 2013.10.22 @ 11:43:01

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:52:30  
 Time Test Ended: 18:29:00  
 Interval: **3297.00 ft (KB) To 3334.00 ft (KB) (TVD)**  
 Total Depth: 3334.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carreira  
 Unit No: 68  
 Reference Elevations: 1866.00 ft (KB)  
 1860.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8372 Inside**  
 Press @ Run Depth: 171.41 psig @ 3303.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.22 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 11:43:01 End Time: 18:29:00 Time On Btm: 2013.10.22 @ 12:52:00  
 Time Off Btm: 2013.10.22 @ 16:11:00

**TEST COMMENT:** IF:(15min) BOB in 6 min.  
 IS:(60min) Return blow 1 min after bleed off. built to 1/4". Died in 44 min.  
 FF:(60min) BOB in 6 min.  
 FS:(90min) No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.72	98.36	Initial Hydro-static
1	27.12	97.52	Open To Flow (1)
16	79.02	103.44	Shut-In(1)
75	1047.47	104.35	End Shut-In(1)
76	88.66	103.93	Open To Flow (2)
108	171.41	105.78	Shut-In(2)
199	1006.79	108.06	End Shut-In(2)
199	1534.57	108.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCGM g=10% o=10% m=80%	1.68
310.00	CGO g=10% o=90%	4.35
0.00	GIP= 200 ft	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
Job Ticket: 53648      **DST#: 3**  
Test Start: 2013.10.22 @ 11:43:01

**Tool Information**

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.80 inches	Volume: 46.21 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 46.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3297.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3275.00	
Shut In Tool	5.00			3280.00	
Hydraulic tool	5.00			3285.00	
Safety Joint	3.00			3288.00	
Packer	5.00			3293.00	23.00      Bottom Of Top Packer
Packer	4.00			3297.00	
Stubb	1.00			3298.00	
Perforations	5.00			3303.00	
Recorder	0.00	8372	Inside	3303.00	
Recorder	0.00	8321	Outside	3303.00	
Perforations	28.00			3331.00	
Bullnose	3.00			3334.00	37.00      Bottom Packers & Anchor

**Total Tool Length: 60.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas  
PO Box 837  
Russell KS 67665+0837  
ATTN: Randy Kilian

**WBC/Black Dahlia Unit #1**  
**29-15s-12 Russell, KS**  
Job Ticket: 53648      **DST#: 3**  
Test Start: 2013.10.22 @ 11:43:01

## Mud and Cushion Information

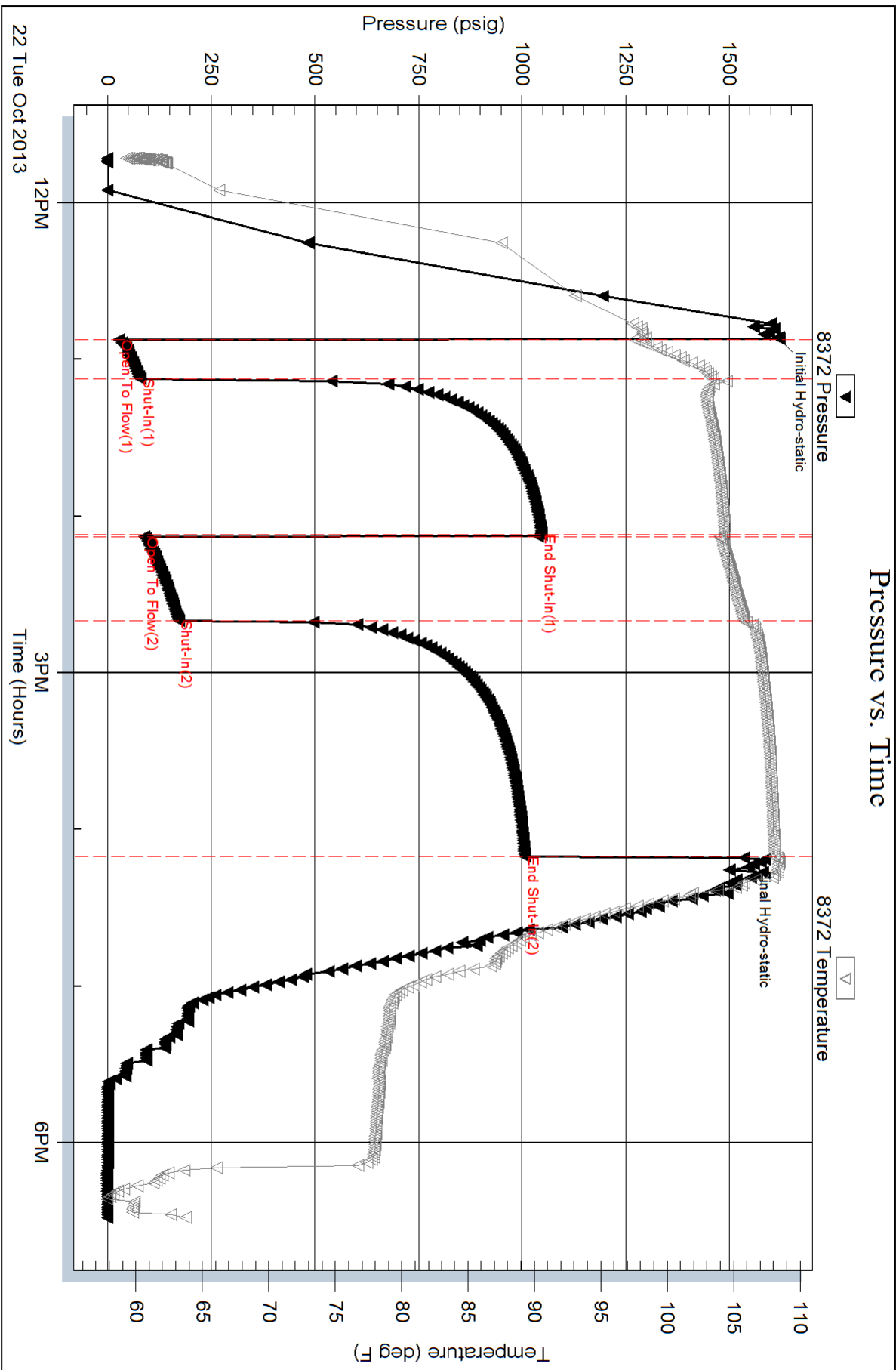
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCGM g=10% o=10% m=80%	1.683
310.00	CGO g=10% o=90%	4.348
0.00	GIP= 200 ft	0.000

Total Length: 430.00 ft      Total Volume: 6.031 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

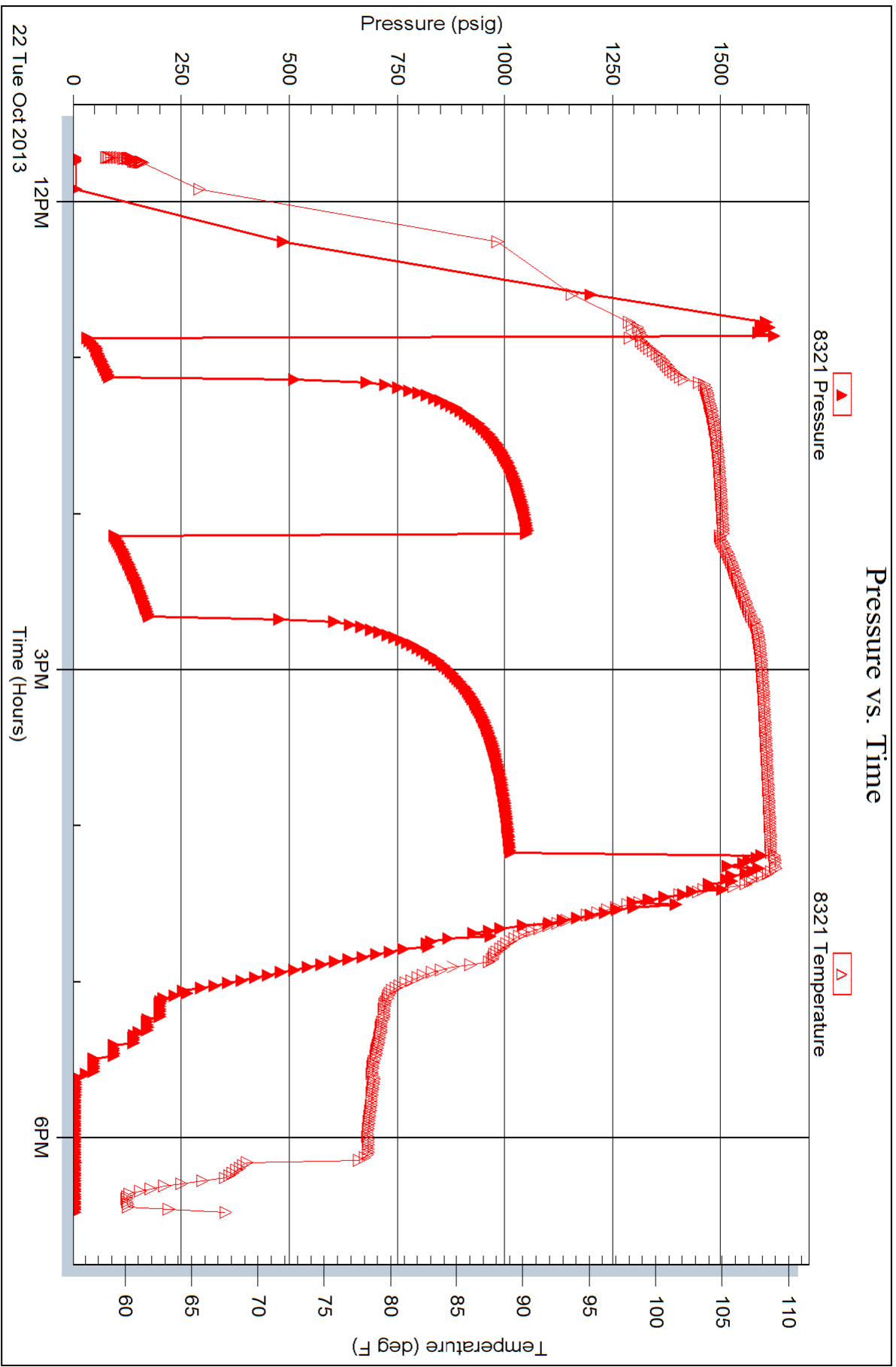


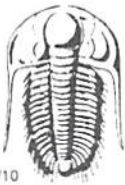
Serial #: 8321

Outside Prospect Oil & Gas

29-15s-12 Russell KS

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53646

4/10

Well Name & No. WBC/BD unit #1 Test No. 1 Date 10-20-13  
 Company PROSPECT OIL & GAS Elevation 1866 KB 1860 GL  
 Address PO BOX 837 RUSSELL KS 67665+0837  
 Co. Rep / Geo. Randy Kilian Rig Royal #1  
 Location: Sec. 29 Twp. 15S Rge. 12W Co. Russell State Ks

Interval Tested 3054-3100 Zone Tested LKC "B-C"  
 Anchor Length 46' Drill Pipe Run 3042 Mud Wt. 8.8  
 Top Packer Depth 3049 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3054 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3100 Chlorides 6200 ppm System LCM TR

Blow Description IF: Weak surface blow, died in 13 min.  
ISI: NO RETURN  
FF: No Blow, flushed, surface blow died in five min  
FBI: NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>505m</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 25' BHT 100' Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

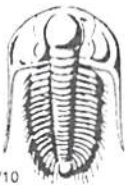
(A) Initial Hydrostatic 1499  Test 1150 T-On Location 20:10  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 22:25  
 (C) First Final Flow 24  Safety Joint 75 T-Open 00:00  
 (D) Initial Shut-In 529  Circ Sub \_\_\_\_\_ T-Pulled 02:20  
 (E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 04:03  
 (F) Second Final Flow 30  Mileage 90RT 139.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 116  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1464  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 60  
 Final Flow 35  
 Final Shut-In 35

Sub Total 1364.50 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Randy Kilian

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. 53647

4/10

Well Name & No. WBC/BD unit #1 Test No. 2 Date 10-21-13  
 Company Prospect Oil & Gas Elevation 1866 KB 1860 GL  
 Address PO Box 837 Russell Ks. 67654 0837  
 Co. Rep / Geo. Randy Kilian Rig Royal #1  
 Location: Sec. 29 Twp. 15S Rge. 12W Co. Russell State Ks

Interval Tested 3181-3250 Zone Tested LKC "H-5"  
 Anchor Length 69' Drill Pipe Run 3170 Mud Wt. 9.2  
 Top Packer Depth 3176 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3181 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3250 Chlorides 7300 ppm System LCM 0

Blow Description IF: Weak blow, built to 1"  
ISI: No Return  
FF: 4" blow in 4min, 8" in 19min, BOB in 46min  
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>OCGM</u>	<u>10</u>	<u>10</u>	<u>80</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	<u>—</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Rec Total 35 BHT 103° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1551  Test ← 1150 T-On Location 16:40  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 17:17  
 (C) First Final Flow 20  Safety Joint ← 75 T-Open 18:50  
 (D) Initial Shut-In 621  Circ Sub \_\_\_\_\_ T-Pulled 22:35  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 00:17  
 (F) Second Final Flow 32  Mileage ← 90RT 139.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 594  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1484  Straddle \_\_\_\_\_

Initial Open 15  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 60  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1364.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1364.50

Approved By \_\_\_\_\_ Our Representative Randy Kilian  
 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. 53648

Well Name & No. WBC/BD unit #1 Test No. 3 Date 10-22-13  
 Company Prospect oil & Gas Elevation 1866 KB 1860 GL  
 Address PO Box 837 Russell, Ks 67665 + 0837  
 Co. Rep / Geo. Randy Kilian Rig Royal #1  
 Location: Sec. 29 Twp. 15s Rge. 12w Co. Russell State Ks

Interval Tested 3297-3334 Zone Tested Arbuckle  
 Anchor Length 37' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.1  
 Top Packer Depth 3292 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3297 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3334 Chlorides 6000 ppm System LCM 3

Blow Description FF: BOB in 6min  
FSI: Return blow 1min after bleedoff, built to 1/4" Die in 44min  
FF: BOB in 6min  
FSI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>CGO</u>	<u>10%</u>	<u>90%</u>		
<u>120</u>	<u>OCBM</u>	<u>10%</u>	<u>10%</u>		<u>80%</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec <u>—</u>	Feet of <u>200ft - GIP</u>	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 430 BHT \_\_\_\_\_ Gravity 41 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1619  Test 1150 T-On Location 11:31  
 (B) First Initial Flow 27  Jars \_\_\_\_\_ T-Started 11:43  
 (C) First Final Flow 79  Safety Joint 75 T-Open 12:53  
 (D) Initial Shut-In 1047  Circ Sub \_\_\_\_\_ T-Pulled 16:08  
 (E) Second Initial Flow 88  Hourly Standby \_\_\_\_\_ T-Out 18:30  
 (F) Second Final Flow 171  Mileage 90RT 139.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1006  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1534  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 90

Sub Total 1364.50

MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Randy Kilian

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