



KANSAS CORPORATION COMMISSION 1106286  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 32016  
Name: Wells, Rodger D. dba Pioneer Resources  
Address 1: 80 Windmill Dr.  
Address 2: \_\_\_\_\_  
City: PHILLIPSBURG State: KS Zip: 67661 + \_\_\_\_\_  
Contact Person: Rodger Wells  
Phone: ( 785 ) 543-5556  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Steven Murphy  
Purchaser: None

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
10/26/2012    11/02/2012    11/02/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-063-22055-00-00  
Spot Description: \_\_\_\_\_  
NW NW NE SW Sec. 6 Twp. 14 S. R. 31  East  West  
2490 Feet from  North /  South Line of Section  
1615 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Gove  
Lease Name: BINKLEY UNIT Well #: 1  
Field Name: Maurice Northeast  
Producing Formation: None  
Elevation: Ground: 2989 Kelly Bushing: 2994  
Total Depth: 4700 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 216 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: 16000 ppm Fluid volume: 780 bbls  
Dewatering method used: Evaporated  
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**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gamson Date: 01/09/2013



1106286

Operator Name: Wells, Rodger D. dba Pioneer Resources Lease Name: BINKLEY UNIT Well #: 1  
 Sec. 6 Twp. 14 S. R. 31  East  West County: Gove

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	216	Common	165	3%cc & 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Wells, Rodger D. dba Pioneer Resources
Well Name	BINKLEY UNIT 1
Doc ID	1106286

Tops

Anhydrite	-2466	+525
Heebner	3983	+992
Lansing	4025	+1034
Muncie Creek	4184	+1193
Ft Scott	4537	+1546
Johnson	4609	+1618
Morrow sh	4641	+1650
Mississippian	4678	+1687

# ALLIED OIL & GAS SERVICES, LLC 05633

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

SERVICE POINT: Cork/K/2/1/1/1

DATE <u>10.26.12</u>	SEC <u>6</u>	TWP <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>5:52pm</u>	JOB START <u>5:59pm</u>	JOB FINISH <u>6:42pm</u>
LEASE <u>Cork/K/2/1/1/1</u>		WELL # <u>1</u>		LOCATION <u>Cork/K/2/1/1/1</u>		COUNTY <u>Garfield</u>	STATE <u>K</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR UW 410

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 217'

CASING SIZE 8 1/2" DEPTH 222'

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

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

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

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

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

CEMENT LEFT IN CSO. 15'

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

DISPLACEMENT 12.25

OWNER Sam

CEMENT AMOUNT ORDERED 165 - 1/2 ton 2800

2 bags = 1

**EQUIPMENT**

PUMP TRUCK CEMENTER Lokey White

# 422/281 HELPER Tyler Pipe

BULK TRUCK # 404 DRIVER Brandon Wilkinson

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>165 1/2</u>	●	<u>17.96</u>	<u>2952.5</u>
POZMIX		●		
GEL	<u>50 FT</u>	●	<u>23.40</u>	<u>702</u>
CHLORIDE	<u>65 FT</u>	●	<u>64.00</u>	<u>384.0</u>
ASC		●		
HANDLING	<u>178.41 C13</u>	●	<u>2.41</u>	<u>492.46</u>
MILEAGE	<u>8.14 miles x 21</u>	●	<u>260</u>	<u>494.40</u>
<b>TOTAL</b>				<u>4294.6</u>

**REMARKS:**

mix 165 sk cement

replace with water

Cement Circulated

**SERVICE**

DEPTH OF JOB	<u>222'</u>			
PUMP TRUCK CHARGE			<u>1512.25</u>	
EXTRA FOOTAGE		●		
MILEAGE	<u>118.21</u>	●	<u>776</u>	
MANIFOLD	<u>sewage</u>	●	<u>NC</u>	
NEW	<u>21</u>	●	<u>440</u>	
<b>TOTAL</b>				<u>1726.3</u>

CHARGE TO: Power Resources

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

_____	●	_____	
_____	●	_____	
_____	●	_____	
_____	●	_____	
_____	●	_____	
_____	●	_____	
<b>TOTAL</b>			_____

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 Sam

SIGNATURE \_\_\_\_\_

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

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED OIL & GAS SERVICES, LLC 05880

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

SERVICE POINT: \_\_\_\_\_

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE		WELL #	LOCATION			COUNTY	STATE
OLD OR NEW (Circle one)							

CONTRACTOR WOW 10 OWNER \_\_\_\_\_  
TYPE OF JOB PTA

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_  
CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
CEMENT LEFT IN CSG. \_\_\_\_\_  
PERFS. \_\_\_\_\_  
DISPLACEMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 200

COMMON	@	<u>2.50</u>	<u>2321.25</u>
POZMIX	@	<u>2.25</u>	<u>766.25</u>
GEL	@	<u>23.00</u>	<u>163.00</u>
CHLORIDE	@	<u> </u>	<u> </u>
ASC	@	<u> </u>	<u> </u>

**EQUIPMENT**

PUMP TRUCK CEMENTER    
#   HELPER    
BULK TRUCK    
#   DRIVER    
BULK TRUCK    
#   DRIVER  

HANDLING 220.00 @ 2.50 546.25  
MILEAGE 200 @ 2.50 500.00  
**TOTAL** 437.25

**REMARKS:**

**SERVICE**

DEPTH OF JOB 2150  
PUMP TRUCK CHARGE 211.83  
EXTRA FOOTAGE @ \_\_\_\_\_  
MILEAGE 21 @ 2.50 52.50  
MANIFOLD @ \_\_\_\_\_  
1.50 @ 4.00 6.00

**TOTAL** 277.33

CHARGE TO: \_\_\_\_\_  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

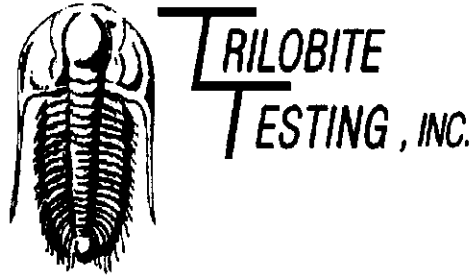
**PLUG & FLOAT EQUIPMENT**

**TOTAL** \_\_\_\_\_

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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAY

PRINTED NAME JD Hasliger  
SIGNATURE



## DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr  
Phillipsburg , KS 67661

ATTN: Steve Murphy

### **Binkley Unit #1**

#### **6-14s-31w Gove,KS**

Start Date: 2012.10.30 @ 17:55:46

End Date: 2012.10.30 @ 22:40:46

Job Ticket #: 49876                      DST #: 1

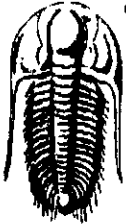
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.13 @ 11:41:35

Pioneer Resources 6-14s-31w Gove,KS Binkley Unit #1 DST # 1 H 2012.10.30



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**

**Binkley Unit #1**

Job Ticket: 49876

**DST#: 1**

Test Start: 2012.10.30 @ 17:55:46

### GENERAL INFORMATION:

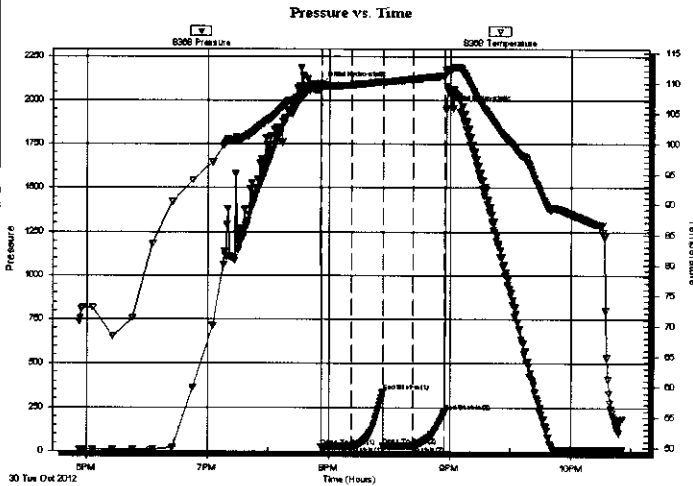
Formation: **H**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 19:56:16  
 Time Test Ended: 22:40:46  
 Interval: **4176.00 ft (KB) To 4210.00 ft (KB) (TVD)**  
 Total Depth: **4210.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Shane McBride**  
 Unit No: **55**  
 Reference Elevations: **2991.00 ft (KB)**  
**2986.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

### Serial #: 8368

**Outside**

Press@RunDepth: **32.98 psig @ 4177.00 ft (KB)**  
 Start Date: **2012.10.30** End Date: **2012.10.30**  
 Start Time: **17:56:01** End Time: **22:25:46**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2012.10.30**  
 Time On Btm: **2012.10.30 @ 19:56:01**  
 Time Off Btm: **2012.10.30 @ 20:58:16**

TEST COMMENT: **1/4" blow**  
**No return**  
**No blow**  
**No return**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2084.78	109.98	Initial Hydro-static
1	26.22	109.02	Open To Flow (1)
16	29.02	109.68	Shut-In(1)
31	340.97	110.26	End Shut-In(1)
31	31.17	110.06	Open To Flow (2)
46	32.98	110.66	Shut-In(2)
62	225.49	111.25	End Shut-In(2)
63	1948.69	111.82	Final Hydro-static

### Recovery

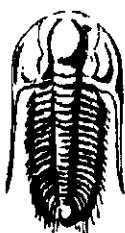
Length (ft)	Description	Volume (bbl)
3.00	mud 100% m w / oil spots on top	0.01

### Gas Rates

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







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

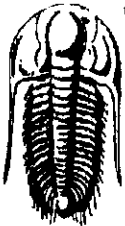
**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49876      **DST#: 1**  
Test Start: 2012.10.30 @ 17:55:46

### Tool Information

Drill Pipe:	Length: 4049.00 ft	Diameter: 3.80 inches	Volume: 56.80 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 57.41 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4176.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 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			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	5.00			4165.00	
Safety Joint	2.00			4167.00	
Packer	5.00			4172.00	27.00      Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Recorder	0.00	6667	Inside	4177.00	
Recorder	0.00	8368	Outside	4177.00	
Perforations	28.00			4205.00	
Bullnose	5.00			4210.00	34.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>61.00</b>			



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources  
80 Windmill Dr  
Phillipsburg , KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49876      **DST#: 1**  
Test Start: 2012.10.30 @ 17:55:46

### Mud and Cushion Information

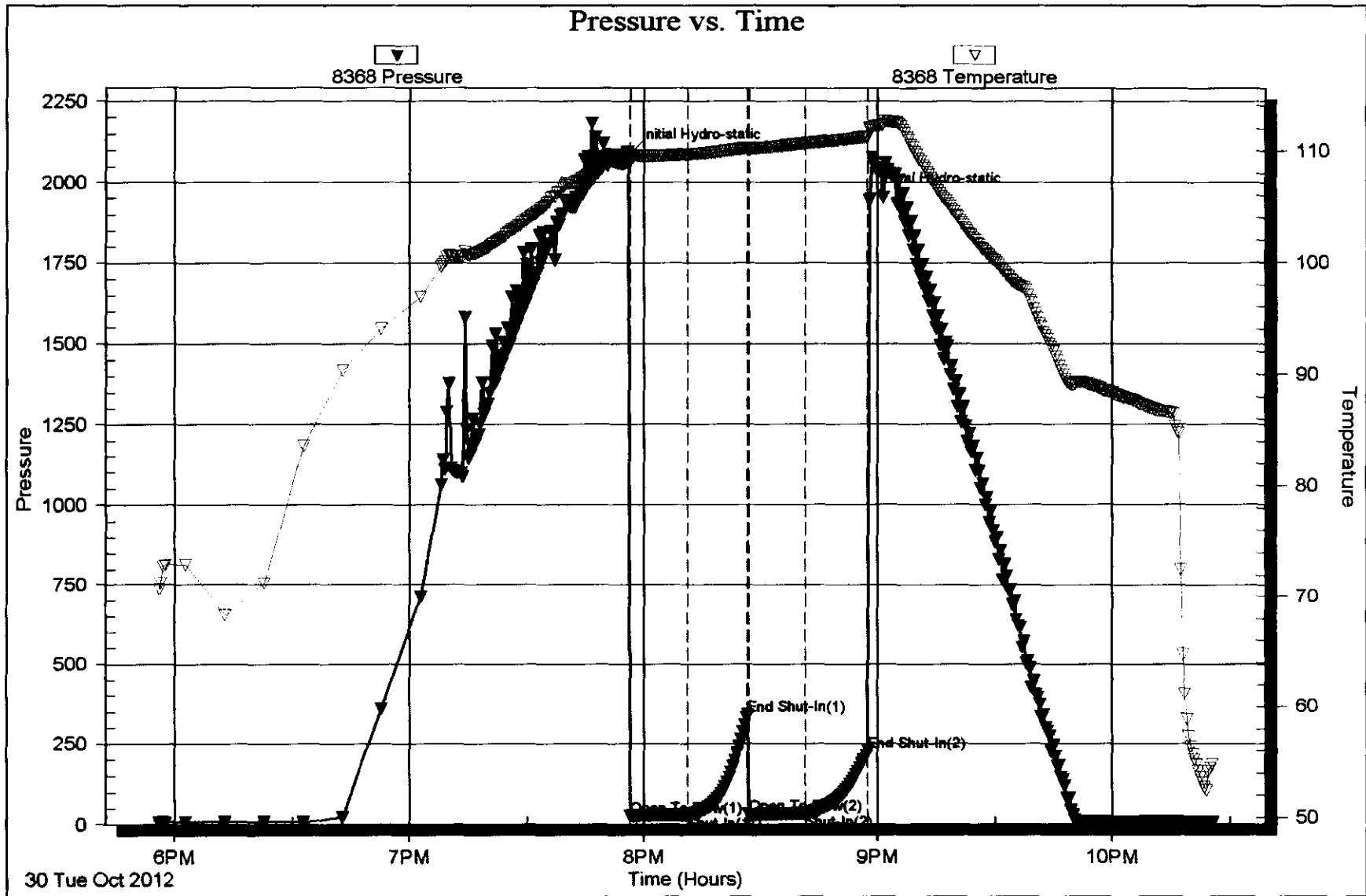
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 1.00 inches			

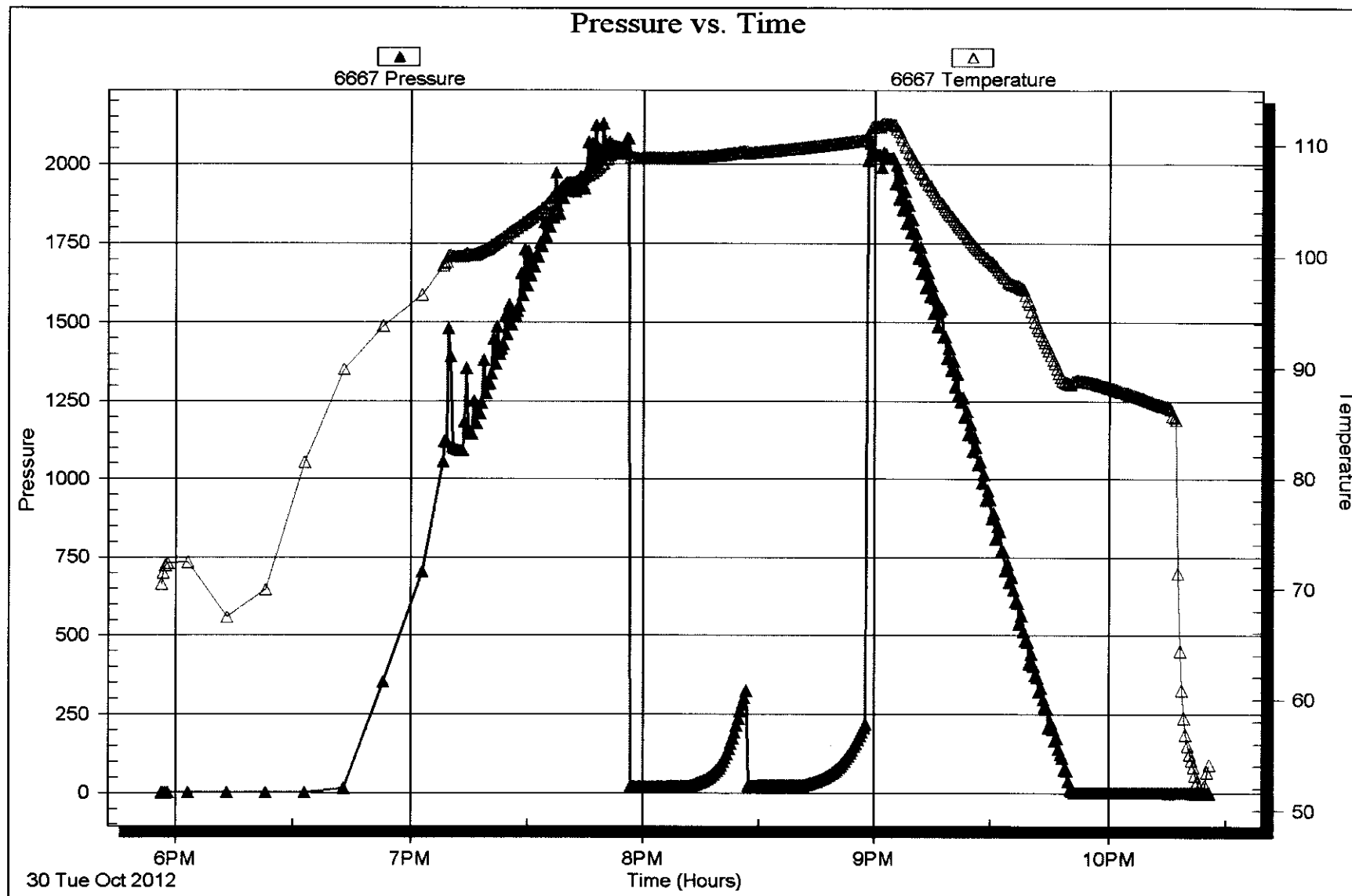
### Recovery Information

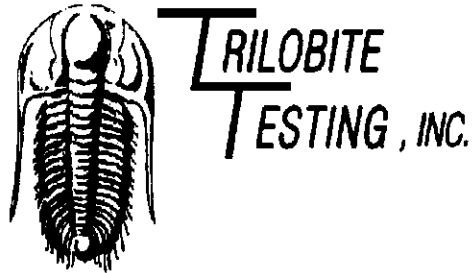
Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100% m w / oil spots on top	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr  
Phillipsburg , KS 67661

ATTN: Steve Murphy

### **Binkley Unit #1**

### **6-14s-31w Gove,KS**

Start Date: 2012.11.01 @ 02:15:18

End Date: 2012.11.01 @ 07:10:48

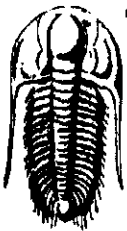
Job Ticket #: 49877                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.13 @ 11:40:35



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove, KS**

**Binkley Unit #1**

Job Ticket: 49877

**DST#: 2**

Test Start: 2012.11.01 @ 02:15:18

### GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:05:48

Time Test Ended: 07:10:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4474.00 ft (KB) To 4506.00 ft (KB) (TVD)**

Reference Elevations: 2991.00 ft (KB)

Total Depth: 4506.00 ft (KB) (TVD)

2986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6667** Inside

Press@RunDepth: 21.34 psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.01

End Date: 2012.11.01

Last Calib.: 2012.11.01

Start Time: 02:15:18

End Time: 06:57:48

Time On Btm: 2012.11.01 @ 04:05:33

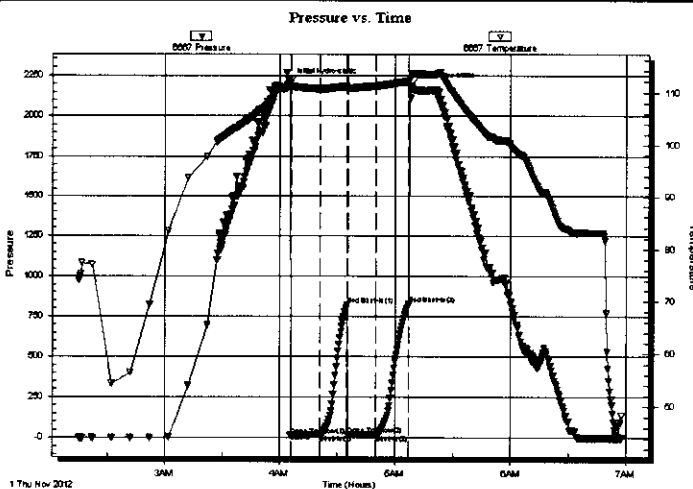
Time Off Btm: 2012.11.01 @ 05:07:18

TEST COMMENT: Weak surface blow

No return

No blow

No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.40	111.63	Initial Hydro-static
1	15.99	111.16	Open To Flow (1)
16	18.49	110.72	Shut-In(1)
30	820.93	111.13	End Shut-In(1)
30	19.55	110.84	Open To Flow (2)
45	21.34	111.22	Shut-In(2)
62	824.45	112.07	End Shut-In(2)
62	2182.92	112.30	Final Hydro-static

### Recovery

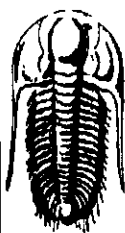
Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.00

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49877      **DST#: 2**  
Test Start: 2012.11.01 @ 02:15:18

### Tool Information

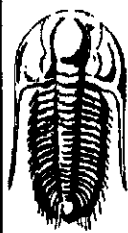
Drill Pipe:	Length: 4333.00 ft	Diameter: 3.80 inches	Volume: 60.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 61.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4474.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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			4448.00	
Shut In Tool	5.00			4453.00	
Hydraulic tool	5.00			4458.00	
Jars	5.00			4463.00	
Safety Joint	2.00			4465.00	
Packer	5.00			4470.00	27.00      Bottom Of Top Packer
Packer	4.00			4474.00	
Stubb	1.00			4475.00	
Recorder	0.00	6667	Inside	4475.00	
Recorder	0.00	8368	Outside	4475.00	
Perforations	26.00			4501.00	
Bullnose	5.00			4506.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 59.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49877      **DST#: 2**  
Test Start: 2012.11.01 @ 02:15:18

### Mud and Cushion Information

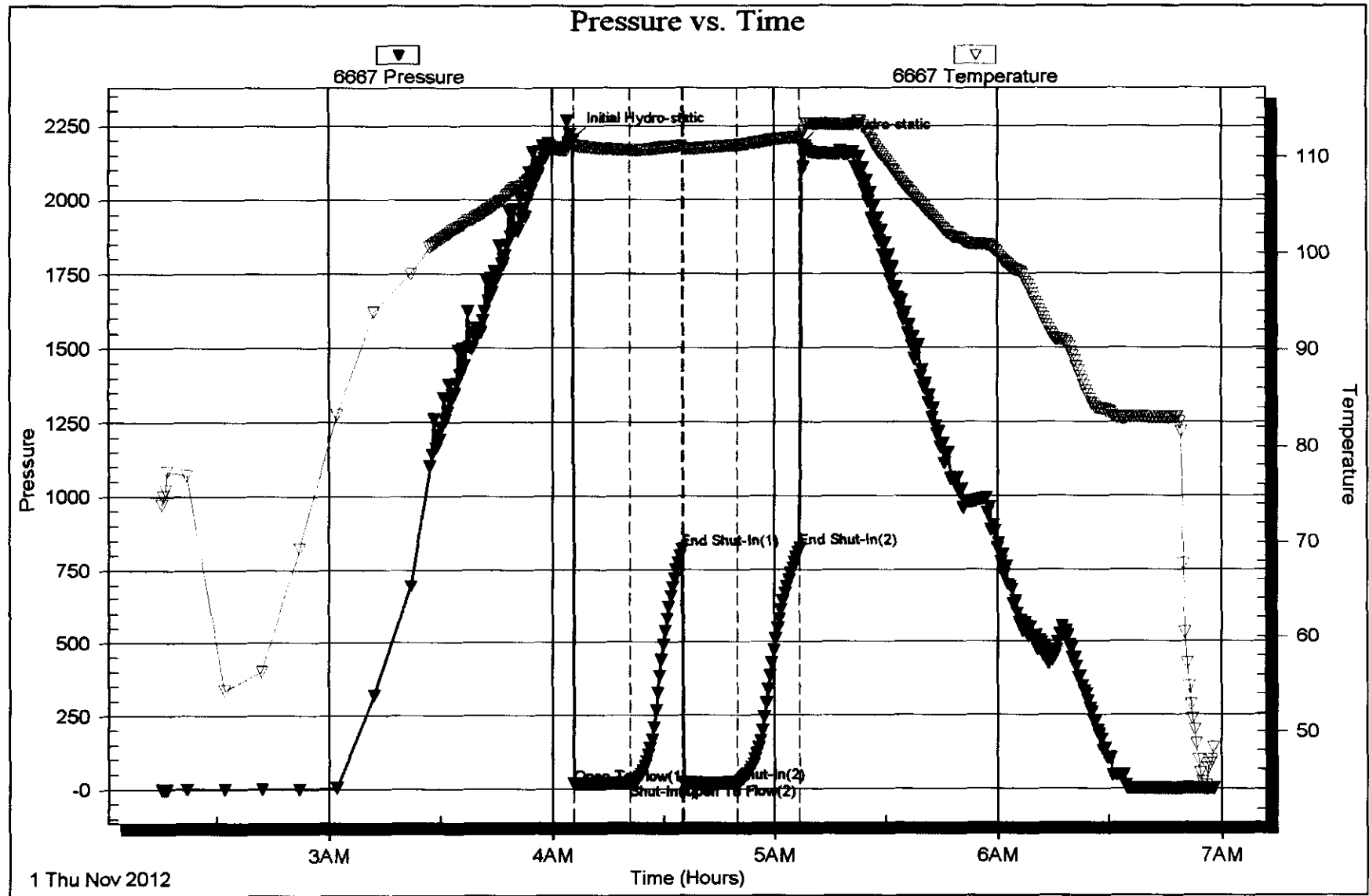
Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.98 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	1.00 inches				

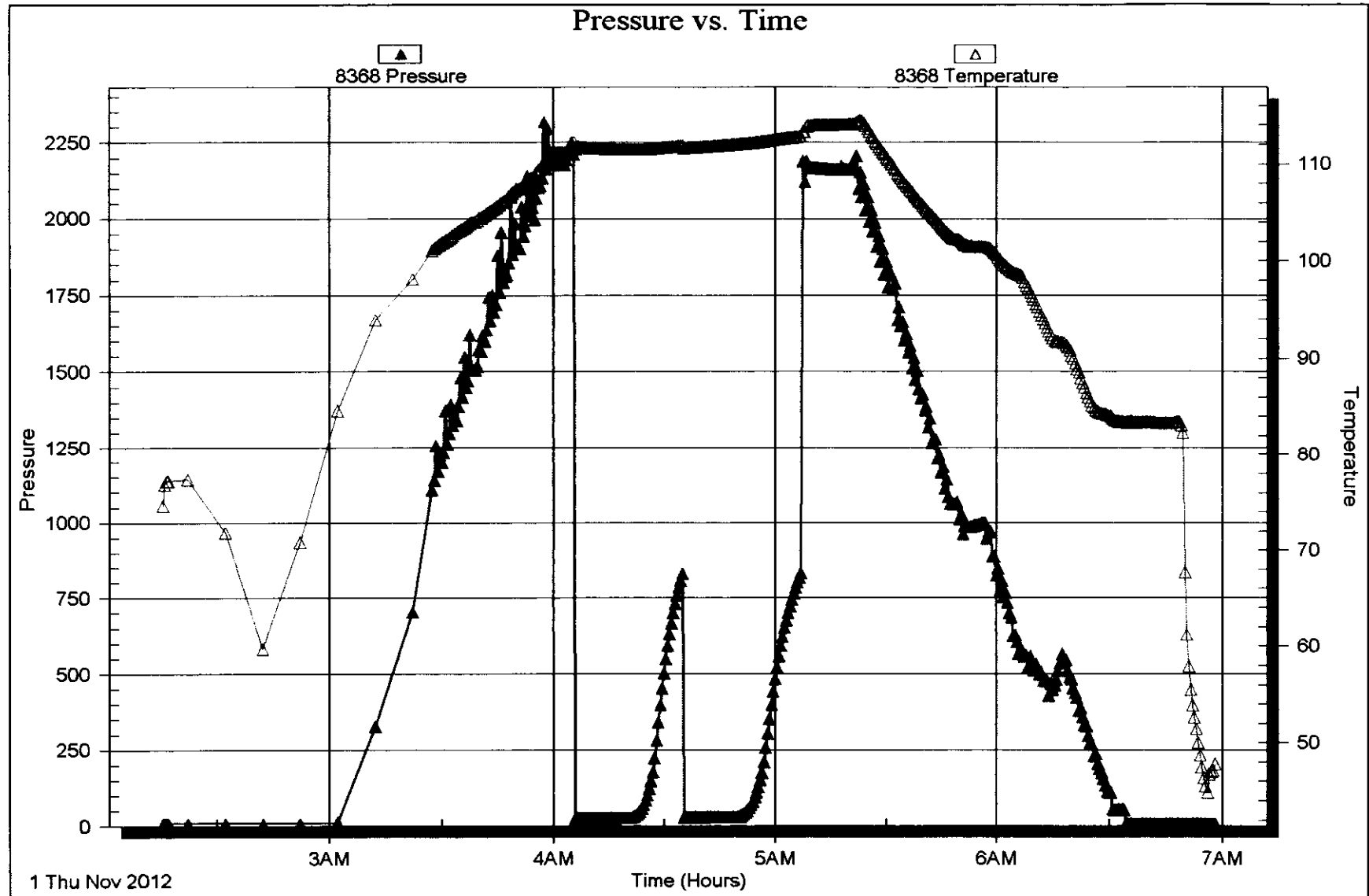
### Recovery Information

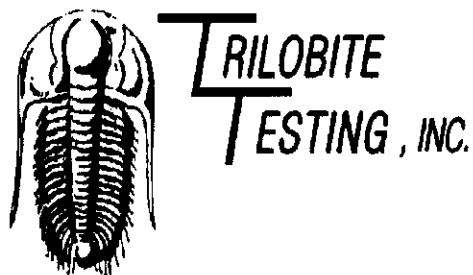
Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr  
Phillipsburg , KS 67661

ATTN: Steve Murphy

### **Binkley Unit #1**

### **6-14s-31w Gove,KS**

Start Date: 2012.11.01 @ 20:30:43

End Date: 2012.11.02 @ 02:03:28

Job Ticket #: 49878                      DST #: 3

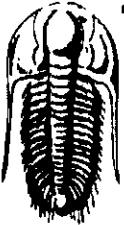
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.13 @ 11:39:50

Pioneer Resources 6-14s-31w Gove,KS Binkley Unit #1 DST # 3 Johnson 2012.11.01



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

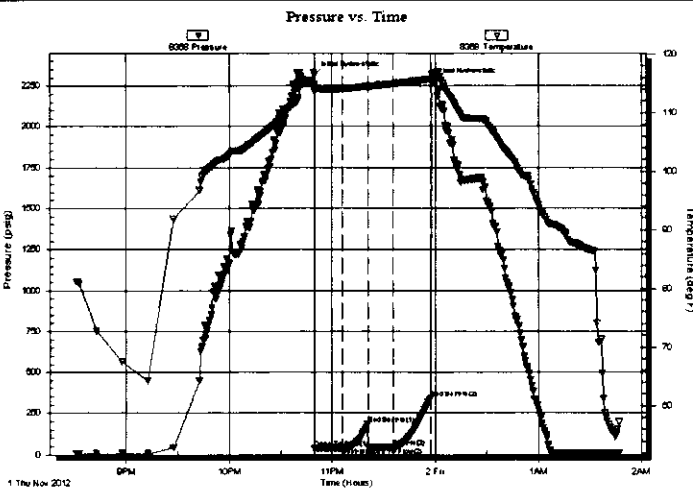
**6-14s-31w Gove, KS**  
**Binkley Unit #1**  
Job Ticket: 49878      **DST#: 3**  
Test Start: 2012.11.01 @ 20:30:43

### GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 22:49:58  
Time Test Ended: 02:03:28  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Shane McBride  
Unit No: 55  
Interval: **4576.00 ft (KB) To 4640.00 ft (KB) (TVD)**  
Reference Elevations: 2991.00 ft (KB)  
Total Depth: 4640.00 ft (KB) (TVD)      2986.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8368      Outside**  
Press@RunDepth: 44.13 psig @ 4577.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.11.01      End Date: 2012.11.02      Last Calib.: 2012.11.02  
Start Time: 20:30:43      End Time: 01:47:28      Time On Btm: 2012.11.01 @ 22:49:43  
Time Off Btm: 2012.11.01 @ 23:57:58

**TEST COMMENT:** Weak blow died in 5 min.  
No return  
No blow  
No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.67	114.88	Initial Hydro-static
1	39.25	113.65	Open To Flow (1)
17	42.07	114.12	Shut-In(1)
32	185.78	114.57	End Shut-In(1)
32	42.77	114.50	Open To Flow (2)
46	44.13	114.96	Shut-In(2)
68	341.38	115.77	End Shut-In(2)
69	2275.95	116.48	Final Hydro-static

### Recovery

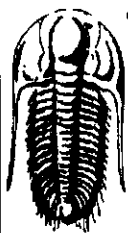
Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.01

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49878      **DST#: 3**  
Test Start: 2012.11.01 @ 20:30:43

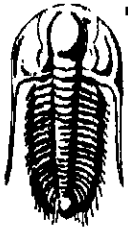
### Tool Information

Drill Pipe:	Length: 4458.00 ft	Diameter: 3.80 inches	Volume: 62.53 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 85000.00 lb
		<b>Total Volume:</b>	<b>63.14 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4576.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	91.00 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			4550.00	
Shut In Tool	5.00			4555.00	
Hydraulic tool	5.00			4560.00	
Jars	5.00			4565.00	
Safety Joint	2.00			4567.00	
Packer	5.00			4572.00	27.00      Bottom Of Top Packer
Packer	4.00			4576.00	
Stubb	1.00			4577.00	
Recorder	0.00	6667	Inside	4577.00	
Recorder	0.00	8368	Outside	4577.00	
Perforations	25.00			4602.00	
Change Over Sub	1.00			4603.00	
Drill Pipe	31.00			4634.00	
Change Over Sub	1.00			4635.00	
Bullnose	5.00			4640.00	64.00      Bottom Packers & Anchor

**Total Tool Length: 91.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources  
80 Windmill Dr  
Phillipsburg, KS 67661  
ATTN: Steve Murphy

**6-14s-31w Gove,KS**  
**Binkley Unit #1**  
Job Ticket: 49878      **DST#: 3**  
Test Start: 2012.11.01 @ 20:30:43

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil Apt:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 1.00 inches			

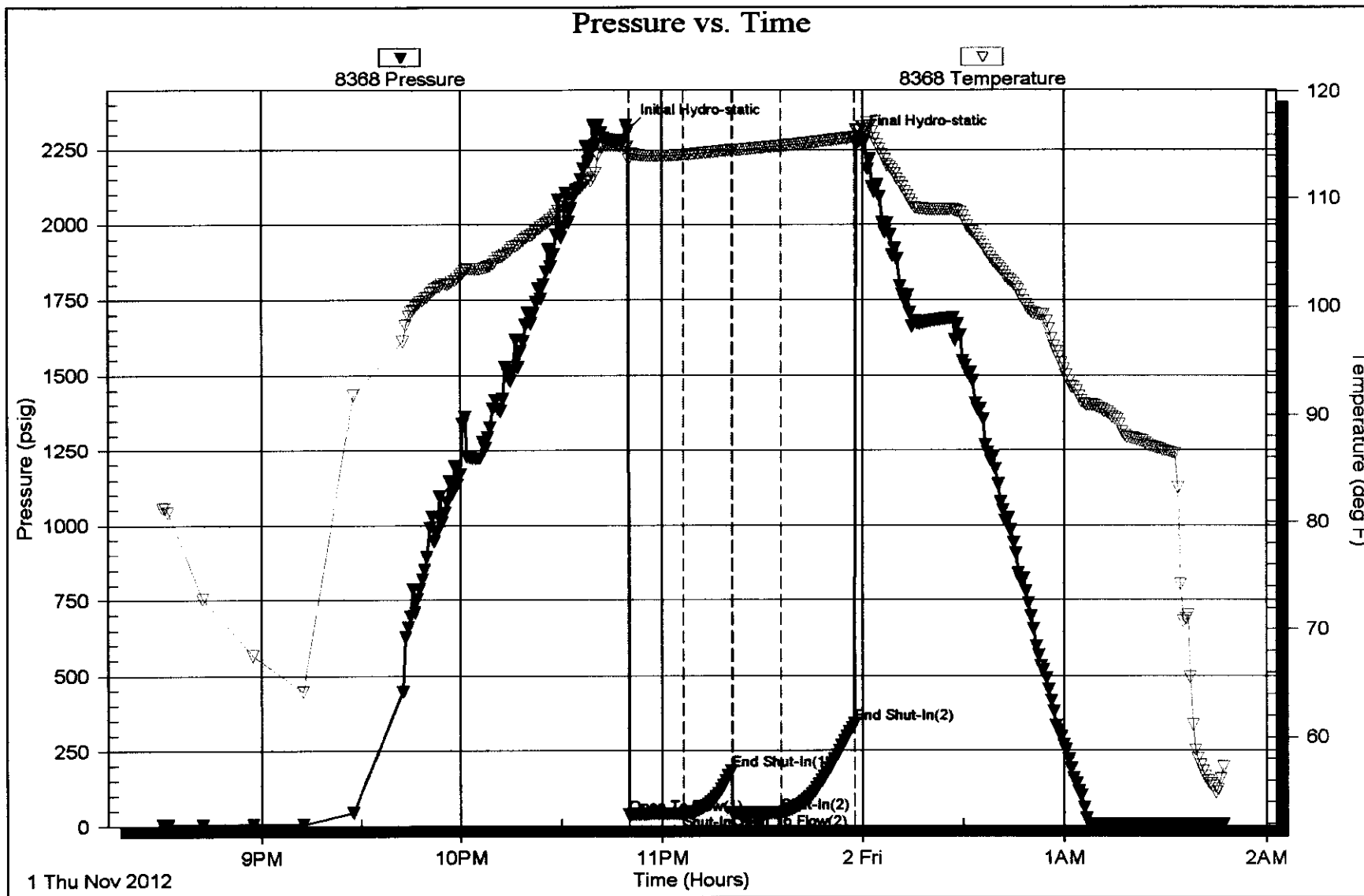
### Recovery Information

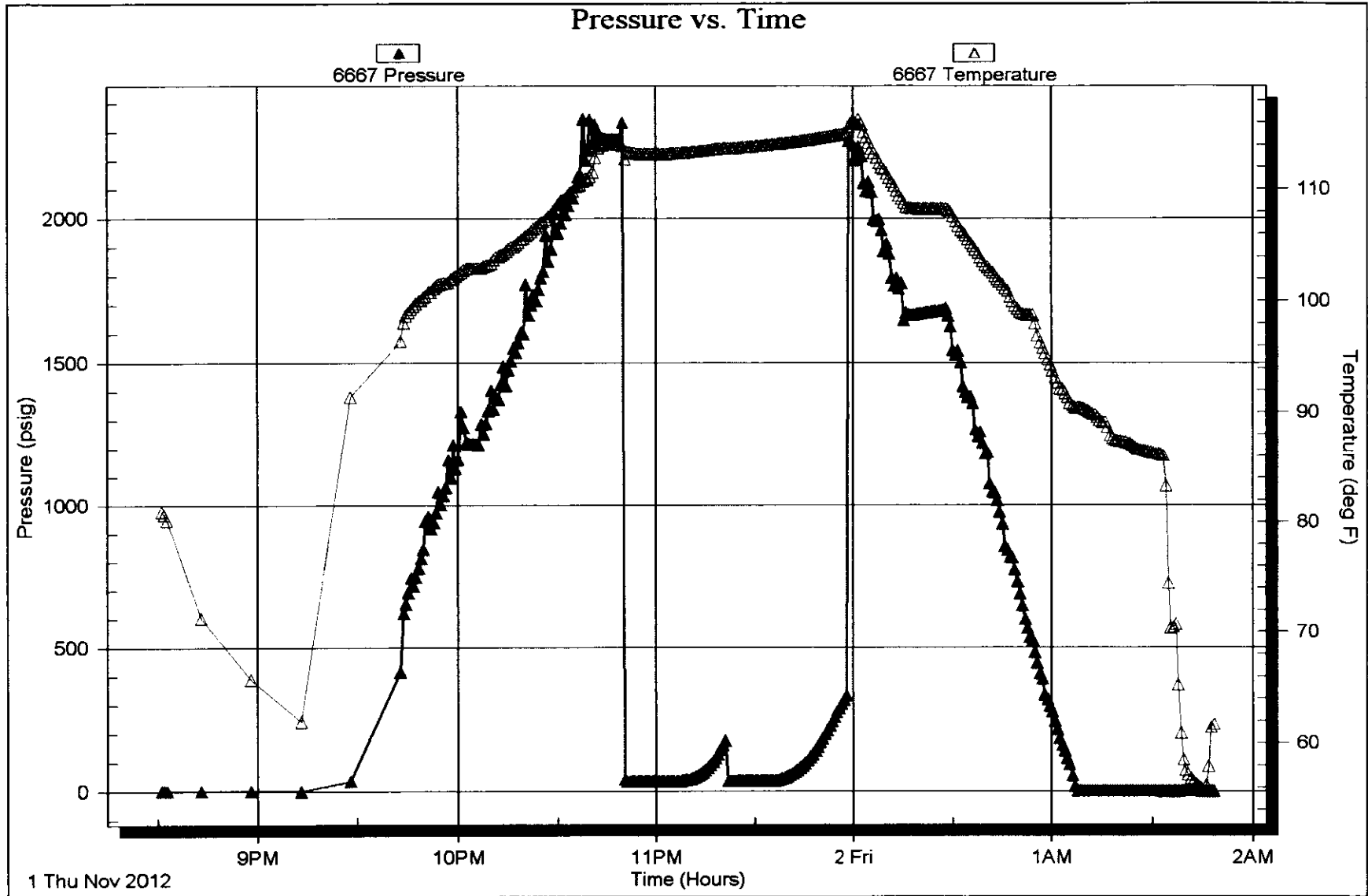
Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100% m	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 49876

Well Name & No. Binkley Unit #1 Test No. #1 Date 10/30/12  
 Company Pioneer Resources Elevation 2991' KB 2986' GL  
 Address 80 Windmill Dr. Phillipsburg, Ks 67661  
 Co. Rep / Geo. Steve Murphy Rig WW #10  
 Location: Sec. 6 Twp. 14S Rge. 3W Co. Cove State Ks

Interval Tested 4176 4210 Zone Tested H  
 Anchor Length 34 Drill Pipe Run 4049' Mud Wt. 9.5  
 Top Packer Depth 4171 Drill Collars Run 124' Vis 50  
 Bottom Packer Depth 4176 Wt. Pipe Run — WL 7.4  
 Total Depth 4210 Chlorides 3900 ppm System LCM #1

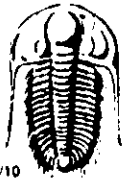
Blow Description 1/4" blow  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>Mud oil spots on top</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 3' BHT 112° Gravity — API RW @ Chlorides — ppm  
 (A) Initial Hydrostatic 2084  Test 1250 T-On Location 17:50  
 (B) First Initial Flow 26  Jars 250 T-Started 18:55  
 (C) First Final Flow 29  Safety Joint 75 T-Open 20:56  
 (D) Initial Shut-In 340  Circ Sub N/C T-Pulled 21:54  
 (E) Second Initial Flow 31  Hourly Standby  
 (F) Second Final Flow 32  Mileage 64 RT 99.20  
 (G) Final Shut-In 225  Sampler  
 (H) Final Hydrostatic 1948  Straddle  
 Shale Packer 250  Ruled Shale Packer  
 Extra Packer  Ruled Packer  
 Extra Recorder  Extra Copies  
 Day Standby  
 Accessibility  
 Sub Total 1924.20 MP/DST Disc t

Initial Open 15  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 15  
 Approved By [Signature] 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 the 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. 49877

Well Name & No. Binkley Unit #1 Test No. #2 Date 11/1/12  
 Company Pioneer Resources Elevation 2991' KB 2986' GL  
 Address 80 Woodmill Dr. Phillipsburg, KS 67641  
 Co. Rep / Geo. Steve Murphy Rig WW #10  
 Location: Sec. 6 Twp. 14S Rge. 3W Co. Gove State KS

Interval Tested 4474 4506 Zone Tested Pawnee  
 Anchor Length 32 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.4  
 Top Packer Depth 4469 Drill Collars Run 124' Vis 55  
 Bottom Packer Depth 4474 Wt. Pipe Run \_\_\_\_\_ WL 7.0  
 Total Depth 4506 Chlorides 3000 ppm System LCM #1  
 Blow Description Weak 1/8" air blow  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
1'	Mud			100	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

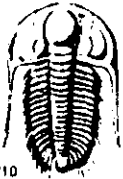
Rec Total 1' BHT 113° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2204  Test 1250 T-On Location 01:50  
 (B) First Initial Flow 15  Jars 250 T-Started 02:15  
 (C) First Final Flow 18  Safety Joint 75 T-Open 04:05  
 (D) Initial Shut-In 820  Circ Sub N/C T-Pulled 05:05  
 (E) Second Initial Flow 19  Hourly Standby T-Out 07:10  
 (F) Second Final Flow 21  Mileage 6400 99.20 Comments:  
 (G) Final Shut-In 824  Sampler  
 (H) Final Hydrostatic 2182  Straddle  Rusted Shale Packer

Initial Open 15  Shale Packer 250  Ruined Packer  
 Initial Shut-In 15  Extra Packer  Extra Copies  
 Final Flow 15  Extra Recorder Sub Total 0  
 Final Shut-In 15  Day Standby Total 1924.20  
 Accessibility MP/DST Disc't  
 Sub Total 1924.20

Approved By [Signature] Our Representative [Signature]

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

No. 49878

Well Name & No. Binkley Unit #1 Test No. #3 Date 11/2/12  
 Company Pioneer Resources Elevation 2991 KB 2986 GL  
 Address 80 Wondmilk Dr. Phillipsburg, KS 67661  
 Co. Rep / Geo. Steve Murphy Rig WW #10  
 Location: Sec. 6 Twp. 14S Rge. 3W Co. Cove State Ks

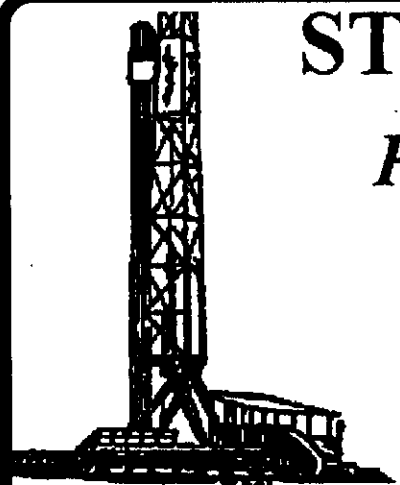
Interval Tested 4576 4640 Zone Tested Johnson  
 Anchor Length 69 Drill Pipe Run 1458 Mud Wt. 9.4  
 Top Packer Depth 4571 Drill Collars Run 124' Vis 49  
 Bottom Packer Depth 4576 Wt. Pipe Run --- WL 7.4  
 Total Depth 4640 Chlorides --- ppm System LCM #1/2  
 Blow Description Weak blow died in 5 min  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>4640</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 2' BHT 117° Gravity --- API RW --- @ --- Chlorides --- ppm

(A) Initial Hydrostatic <u>2313</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>19:50</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:30</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:50</u>
(D) Initial Shut-In <u>185</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>23:50</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:03</u>
(F) Second Final Flow <u>44</u>	<input checked="" type="checkbox"/> Mileage <u>64RT</u> 99.20	Comments
(G) Final Shut-In <u>341</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2275</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>15</u>	<input type="checkbox"/> Day Standby	Total <u>1924.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1924.20</u>	

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_  
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the 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.



# STEVEN P. MURPHY, P.G.

## *Petroleum Geologist (KS #228)*

Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Binkley Unit #1

Location: Gove County

License Number: API #15-063-22055-00-00

Spud Date: 10/26/12

Region: Kansas

Drilling Completed: 11/2/12

Surface Coordinates: 2490' FSL & 1615' FWL (Approx. NW NW NE SW)

Section 6-T14S-31W

Bottom Hole Coordinates: Same as above (Vertical well w/minimal deviation)

Ground Elevation (ft): 2986'

K.B. Elevation (ft): 2991'

Logged Interval (ft): 3600'

To: TD

Total Depth (ft): 4700' (No Log)

Formation: Topeka thru Mississippian

Type of Drilling Fluid: Chemical - Mudco (Reid Atkins, Mud Engineer)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: Rodger D. Wells dba Pioneer Resources

Address: 80 Windmill Drive  
Phillipsburg, KS 67661

### GEOLOGIST

Name: Steven P. Murphy, PG (KS License #228)

Company: Consulting Petroleum Geologist

Address: 3365 CR 390  
Otis, KS 67565

### LogTops (Datum)

No log was run, therefore the only tops are the sample tops derived from ROP & sample analysis. These tops are provided in the body of this report as identified.

### DSTs

The following drillstem tests were performed by Trilobite Testing (Scott City shop):

#### DST #1 4176-4210 (LKC "H" Zone)

15:15:15:15

IF: Wk blow built to 1/4", no return

FF: No blow, no return

Recovery: 3' M w/oil spots on top

IHP: 2084 FHP: 1948

IFP: 26-29 ISIP: 340

FFP: 31-32 FSIP: 225

BHT -112 F

#### DST #2 4374-4506 (Pawnee)

15:15:15:15

IF: Wk 1/8" blow, no return

FF: No blow, no return

Recovery: 1' Mud

IHP: 2204 FHP: 2182

IFP: 15-18 ISIP: 820

FFP: 19-21 FSIP: 824

BHT - 113 F

#### DST #3 4576-4640 (Johnson)

15:15:15:15

IF: Wk blow died in 5 min, no return

FF: No blow, no return

Recovery: 2' Mud

IHP: 2313 FHP: 2275

IFP: 39-42 ISIP: 185

FFP: 42-44 FSIP: 341

BHT - 117 F


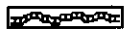
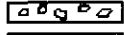
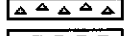

### COMMENTS

Based on the poor structural position and negative results of drillstem testing it was recommended that this test be plugged at a RTD of 4700'.



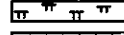


Respectfully submitted,

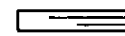
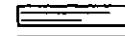

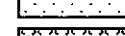

Steven P. Murphy, PG  
Consulting Petroleum Geologist  
KS License #228

### ROCK TYPES

 Anhy  
 Bent  
 Brec  
 Cht  
 Clyst

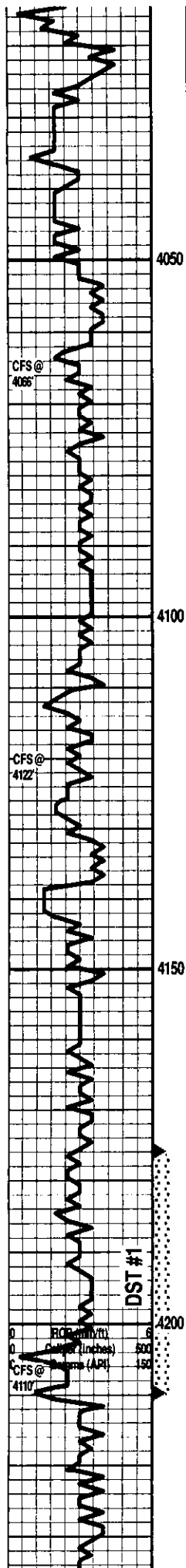
 Coal  
 Congl  
 Dol  
 Gyp  
 Igne

 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale

 Shcol  
 Shgy  
 Sltst  
 Ss  
 Till







SH: gry-gm-rust

LANSING 4025 (-1034)

LS: wht-tan-bm, fxlIn, oolitic in pt, foss, minor chert, sl chalky, dense, NS

LS: wht-crm-gry, fxlIn, oolitic, sl foss, dense, NS

SH; blk-gry-gm-red

LS: crm-gry, vfxIn, oolitic, sl chalky, dense, NS

LS: wht-tan, vfxIn, dense, sl chalky, NS

SH: gry-bm-gm

LS: wht-tan-gry, vfxIn, dense, sl chalky, sl foss, NS

LS: as above

SH: gry-gm-red-bm

LS: crm-tan-gry, f-vfxIn, mostly dense, rare inxIn por, vssfo on brk, spotty stn, no odor

LS: wht-tan, fxlIn, oolitic, dense, sl foss, chalky, NS

LS: as above w/minor chert

SH: blk-gry-bm-gm-red

LS: wht-tan, fxlIn, oolic, dense, chalky, NS

LS: crm-gry, vfxIn, dense, sl chalky, NS

LS: as above

LS: as above

SH: blk, carb

MUNCIE CREEK 4184 (-1193)

SH: gry-gm-blk-red

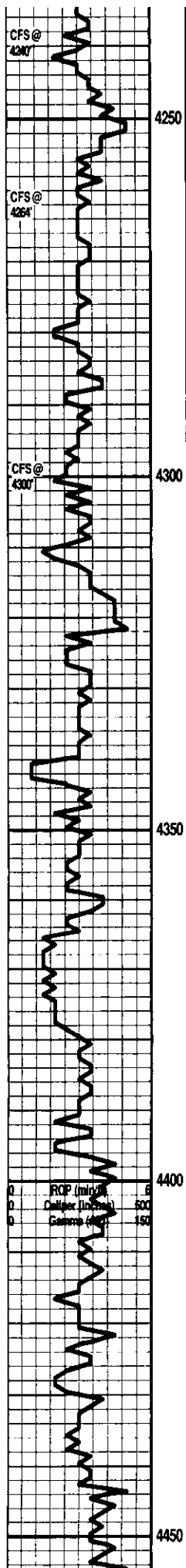
LS: crm-tan, fxlIn, sucrosic texture, fr-gd ppt por, fsfo on brk, even sat stn, str odor

DST #1 4176-4210 (LKC "H" Zone)  
 15:15:15:15  
 IF: Wk blow built to 1/4", no return  
 FF: No blow, no return  
 Recovery: 3' M w/oil spots on top  
 IHP: 2084 FHP: 1948  
 IFP: 26-29 ISIP: 340  
 FFP: 31-32 FSIP: 225  
 BHT -112 F

SH: gry-blk-gm-red

LS: wht-tan-gry, vfxIn, dense, minor chert, NS

Survey @ 4210' - 1 degree



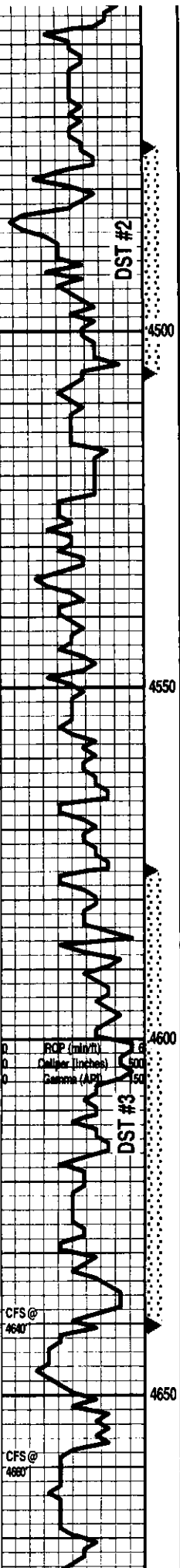
○ LS: wht-crm, f-vfxln, oolitic, pr inxln  
 por-dense, vssfo on brk, spotty str, sl odor  
  
 SH: gry-gm-blk-red  
  
 ○ LS: crm-gry, vfxln, dense, minor chert &  
 pyrite, nsfo or str, sl odor  
  
 LS: as above (chalky)  
  
 SH: blk, carb  
  
 LS: wht-brm-gry, vfxln, dense, chalky, NS  
  
 LS: as above  
  
 SH: blk, carb  
  
 SH: gry-gm-blk  
  
 LS: crm-tan-brm, vfxln, dense, sl chalky, NS  
  
 LS: as above  
  
 SH: blk-gry-brm-red  
  
 LS: wht-tan-gry, vfxln, dense, foss, chalky,  
 NS  
  
 SH: red-gry-gm-blk (Wash red)  
  
 SH: as above w/multic chert (Wash red)  
  
 LS: crm-tan-brm, vfxln, dense, sl chalky, NS  
  
 SH: gry-gm-red  
  
 LS: crm-gry, vfxln, dense, NS  
  
 LS: as above  
  
 SH: red-gm-gry  
  
 LS: wht-tan-gry, vfxln, dense, NS  
  
 SH: gm-red-gry-blk

STARK 4278 (-1287)

HUSHPUCKNEY 4309 (-1318)

BKC 4340 (-1349)

MARMATON 4397 (-1406)



LS: crm-tan-gry, vfxln, dense, cherty, NS

LS: as above

SH: blk, carb

• LS: wht-tan, f-vfxln, sucrosic in pt w/ppt por, mostly dense, lite blue chert, ssfo on brk, spotty stn, fr odor

LS: crm-tan-bm, oolitic in pt, dense, abund multic chert, NS

SH: blk-gry-gm-red

○ LS: crm-bm-gry, vfxln, dense, nsfo, tr stn, no visible por, no odor

crm-bm-gry, vfxln, dense, chalky, NS

SH: blk, carb

LS: crm-tan-bm, vfxln, dense, oolitic in pt, NS

LS: crm-tan-bm, vfxln, dense, pelletal, NS

SH: blk, carb

LS: crm-tan, vfxln, dense, pelletal, NS

SH: blk, carb-gry

SH: flood red-blk-gry-gm

SH: as above

• LS: crm-tan, fxl, oolic in pt, pr-fr ppt por, vssfo, spotty stn, sl odor

SH: flood multic.

SH: flood multic.

SH: flood, multic.

SH: yel-orange-gry-blk-olive

Sst: shaley, prly std, sub-md, NS

SH: as above

Set & SH: as above

PAWNEE 4477 (-1486)

DST #2 4374-4506 (Pawnee)

15:15:15:15

IF: Wk 1/8" blow, no return

FF: No blow, no return

Recovery: 1' Mud

IHP: 2204 FHP: 2182

IFP: 15-18 ISIP: 820

FFP: 19-21 FSIP: 824

BHT - 113 F

Survey @ 4506' - 1 1/4 degree

Strap @ 4506' - 1.03' Short to board

FT SCOTT 4537 (-1546)

CHEROKEE 4567 (-1576)

DST #3 4576-4640 (Johnson)

15:15:15:15

IF: Wk blow died in 5 min, no return

FF: No blow, no return

Recovery: 2' Mud

IHP: 2313 FHP: 2275

IFP: 39-42 ISIP: 185

FFP: 42-44 FSIP: 341

BHT - 117 F

JOHNSON 4609 (-1618)

MORROW SH 4641 (-1650)



# ALLIED OIL & GAS SERVICES, LLC 05880

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

SERVICE POINT: Carroll, TX

DATE <u>12/12</u>	SEC. <u>14</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11/14/12</u>	JOB FINISH <u>5/12/13</u>
LEASE <u>11/12/12</u>		WELL # <u>1</u>		LOCATION <u>Carroll, TX - 30 Miles SW</u>		COUNTY <u>Carroll</u>	STATE <u>TX</u>
OLD OR NEW (Circle one)							

CONTRACTOR <u>WV 10</u>	OWNER <u>Carroll</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8"</u> T.D.	CEMENT
CASING SIZE <u>7 7/8"</u> DEPTH <u>770'</u>	AMOUNT ORDERED <u>200' 10/11/12 10/12/12</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>100'</u> @ <u>5.00</u> <u>2200.00</u>
MEAS. LINE SHOE JOINT	POZMIX <u>80'</u> @ <u>2.25</u> <u>760.00</u>
CEMENT LEFT IN CSG.	GEL <u>7</u> @ <u>23.00</u> <u>161.00</u>
PERFS.	CHLORIDE @ <u>1.00</u> <u>10.00</u>
DISPLACEMENT	ASC @ <u>2.25</u> <u>11.25</u>

**EQUIPMENT**

PUMP TRUCK	CEMENTER <u>Plan</u>
# <u>403 201</u>	HELPER <u>Wesley</u>
BULK TRUCK	
# <u>70</u>	DRIVER <u>Tony</u>
BULK TRUCK	
#	DRIVER

HANDLING <u>200' PTA</u>	@ <u>2.70</u>	<u>540.00</u>
MILEAGE <u>200' 200' 200'</u>	@ <u>2.35</u>	<u>1175.00</u>
		<b>TOTAL</b> <u>1715.00</u>

**REMARKS:**

11/14/12 - 12/12/12  
11/14/12 - 12/12/12  
11/14/12 - 12/12/12  
11/14/12 - 12/12/12  
11/14/12 - 12/12/12

**SERVICE**

DEPTH OF JOB <u>770'</u>		
PUMP TRUCK CHARGE <u>2110.00</u>		
EXTRA FOOTAGE @		
MILEAGE <u>21</u> @ <u>70.00</u>	<u>1470.00</u>	
MANIFOLD @		
<u>1 200' 200'</u> @ <u>4.00</u>	<u>800.00</u>	
		<b>TOTAL</b> <u>2720.00</u>

CHARGE TO: Carroll, TX  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>1 200' 200'</u>	@	<u>1470.00</u>
	@	
	@	
	@	
	@	
		<b>TOTAL</b> <u>1470.00</u>

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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAY

PRINTED NAME JD Haslinger  
SIGNATURE [Signature]