



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1171694  
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: \_\_\_\_\_



1171694

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

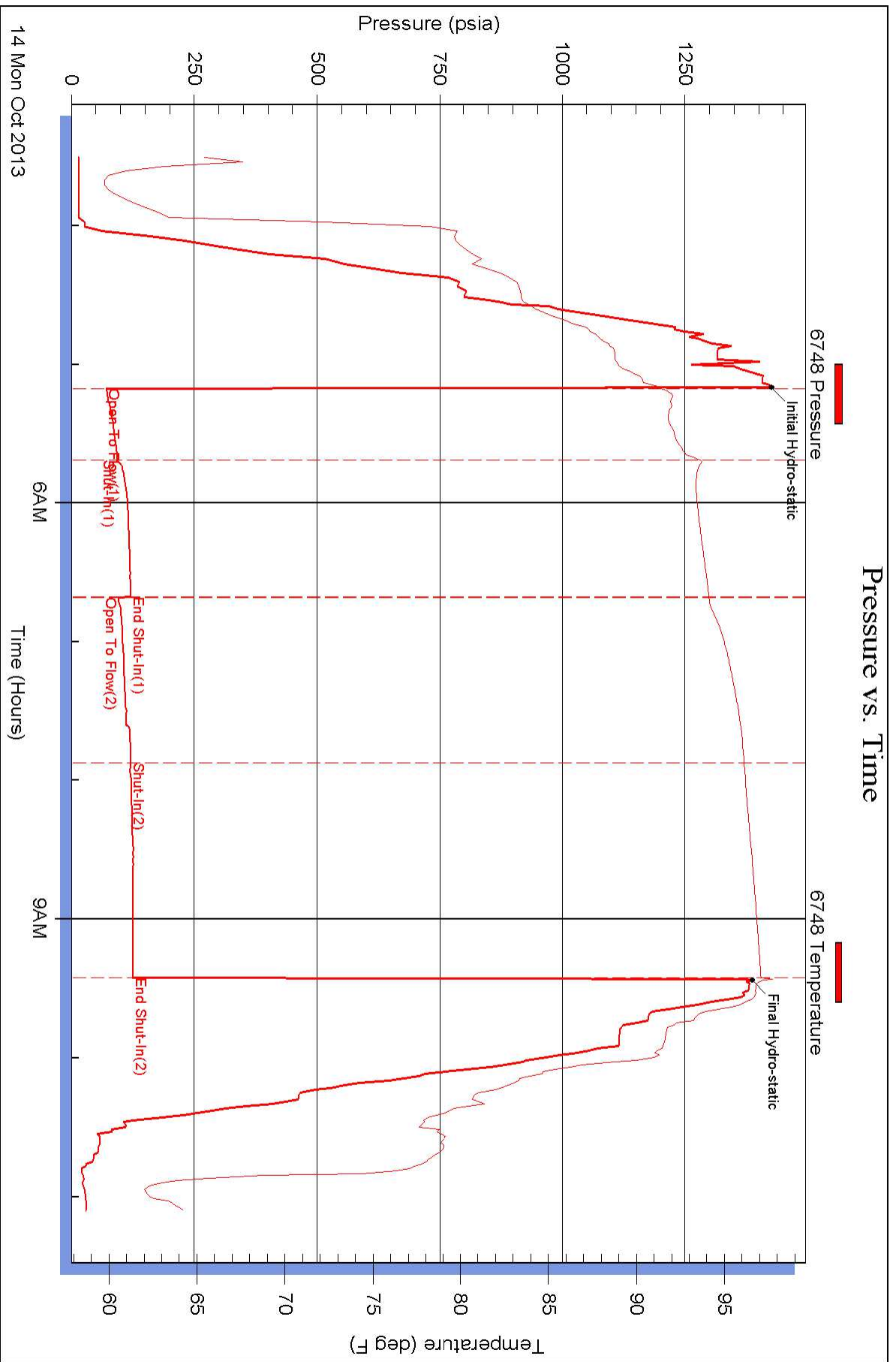
<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Trans Pacific Oil Corporation
Well Name	KASSELMAN 8
Doc ID	1171694

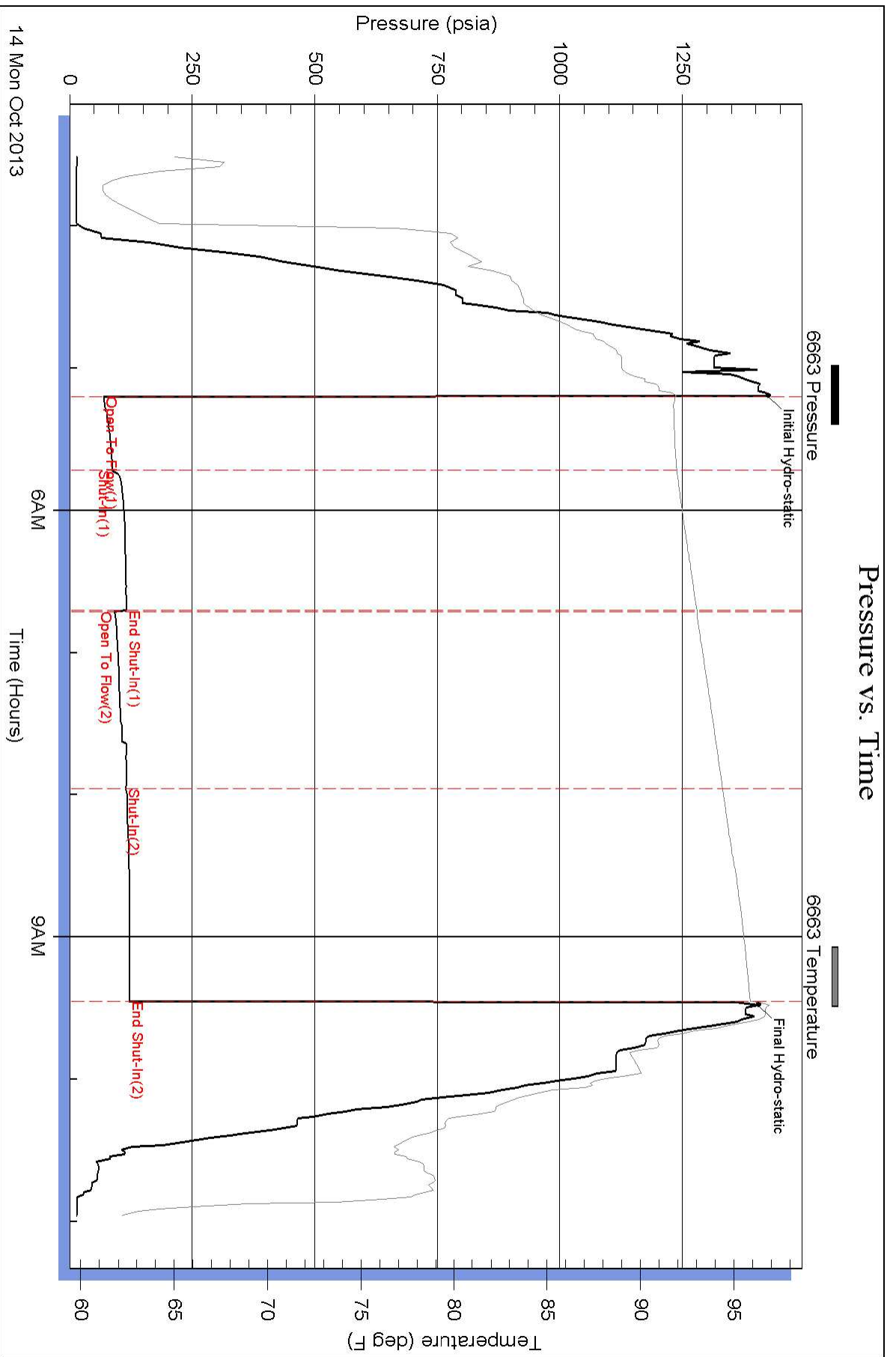
All Electric Logs Run

Dual Induction
Computer Processed
Dual Compensated Porosity
Microresistivity

### Pressure vs. Time



### Pressure vs. Time





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17091

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2013.10.14 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 8.39 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4900.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	420 feet of gas in the pipe	0.000
70.00	Drilling mud	0.000

Total Length: 70.00 ft      Total Volume: bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17091

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2013.10.14 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 2780.00 ft	Diameter: 3.80 inches	Volume: 39.00 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: 117.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 39.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	2905.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.96 ft			
Tool Length:	99.96 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			2890.00	
Hydraulic Tool	5.00			2895.00	
Packer	5.00			2900.00	20.00 Bottom Of Top Packer
Packer	5.00			2905.00	
Perforations	5.00			2910.00	
C.O. Sub	0.75			2910.75	
Drill Pipe	62.46			2973.21	
C.O. Sub	0.75			2973.96	
Perforations	6.00			2979.96	
Recorder	1.00	6663	Inside	2980.96	
Recorder	1.00	6748	Outside	2981.96	
Bullnose	3.00			2984.96	79.96 Bottom Packers & Anchor

**Total Tool Length: 99.96**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

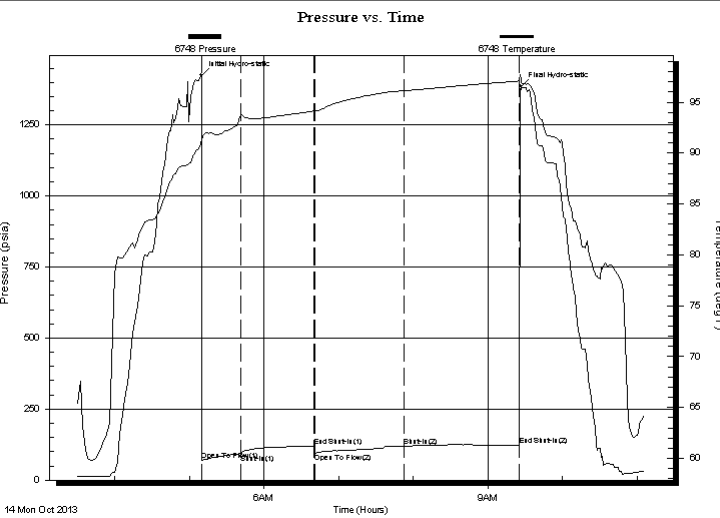
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17091 **DST#: 1**  
 Test Start: 2013.10.14 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Douglas Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 3335-40  
 Interval: **2905.00 ft (KB) To 2985.00 ft (KB) (TVD)** Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 2985.00 ft (KB) (TVD) 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6748 Outside**  
 Press @ Run Depth: 124.24 psia @ 2981.96 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.14 End Date: 2013.10.14 Last Calib.: 2013.10.14  
 Start Time: 03:30:00 End Time: 11:06:23 Time On Btm: 2013.10.14 @ 05:09:53  
 Time Off Btm: 2013.10.14 @ 09:26:23

**TEST COMMENT:** 1st Shut-In 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 21 minutes  
 1st Shut-In 60 Minutes- No blow back  
 2nd Opening 75 minutes-Weak steady 2 inch blow for 55 minutes then decreased to a weak surface blow  
 2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1425.29	91.36	Initial Hydro-static
1	69.95	91.29	Open To Flow (1)
32	92.12	93.62	Shut-In(1)
91	119.55	94.13	End Shut-In(1)
91	96.18	94.13	Open To Flow (2)
163	119.79	96.12	Shut-In(2)
256	124.24	97.08	End Shut-In(2)
257	1386.26	97.21	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	420 feet of gas in the pipe	0.00
70.00	Drilling mud	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)





# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

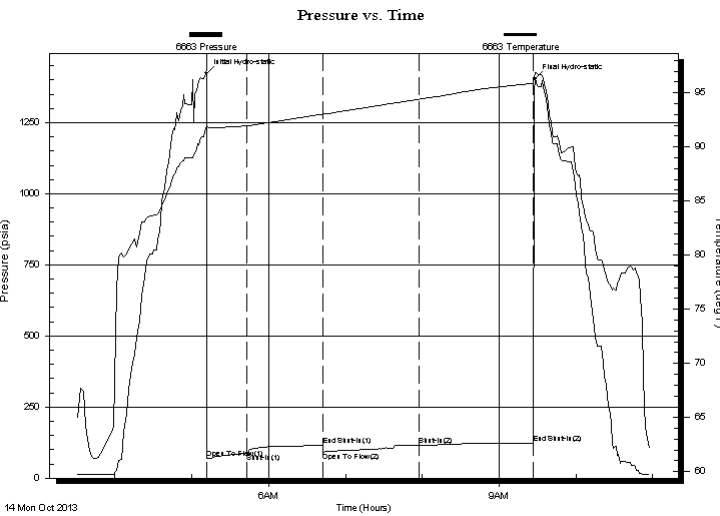
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17091 **DST#: 1**  
 Test Start: 2013.10.14 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Douglas Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 3335-40  
 Interval: **2905.00 ft (KB) To 2985.00 ft (KB) (TVD)** Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 2985.00 ft (KB) (TVD) 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6663 Inside**  
 Press @ Run Depth: 121.14 psia @ 2980.96 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.14 End Date: 2013.10.14 Last Calib.: 2013.10.14  
 Start Time: 03:30:00 End Time: 10:58:00 Time On Btm: 2013.10.14 @ 05:11:30  
 Time Off Btm: 2013.10.14 @ 09:28:30

**TEST COMMENT:** 1st Shut-In 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 21 minutes  
 1st Shut-In 60 Minutes- No blow back  
 2nd Opening 75 minutes-Weak steady 2 inch blow for 55 minutes then decreased to a weak surface blow  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1424.08	91.90	Initial Hydro-static
1	68.40	91.78	Open To Flow (1)
32	86.49	91.95	Shut-In(1)
91	115.09	93.02	End Shut-In(1)
91	90.30	93.02	Open To Flow (2)
166	114.33	94.40	Shut-In(2)
256	121.14	95.87	End Shut-In(2)
257	1404.33	96.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	420 feet of gas in the pipe	0.00
70.00	Drilling mud	0.00

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

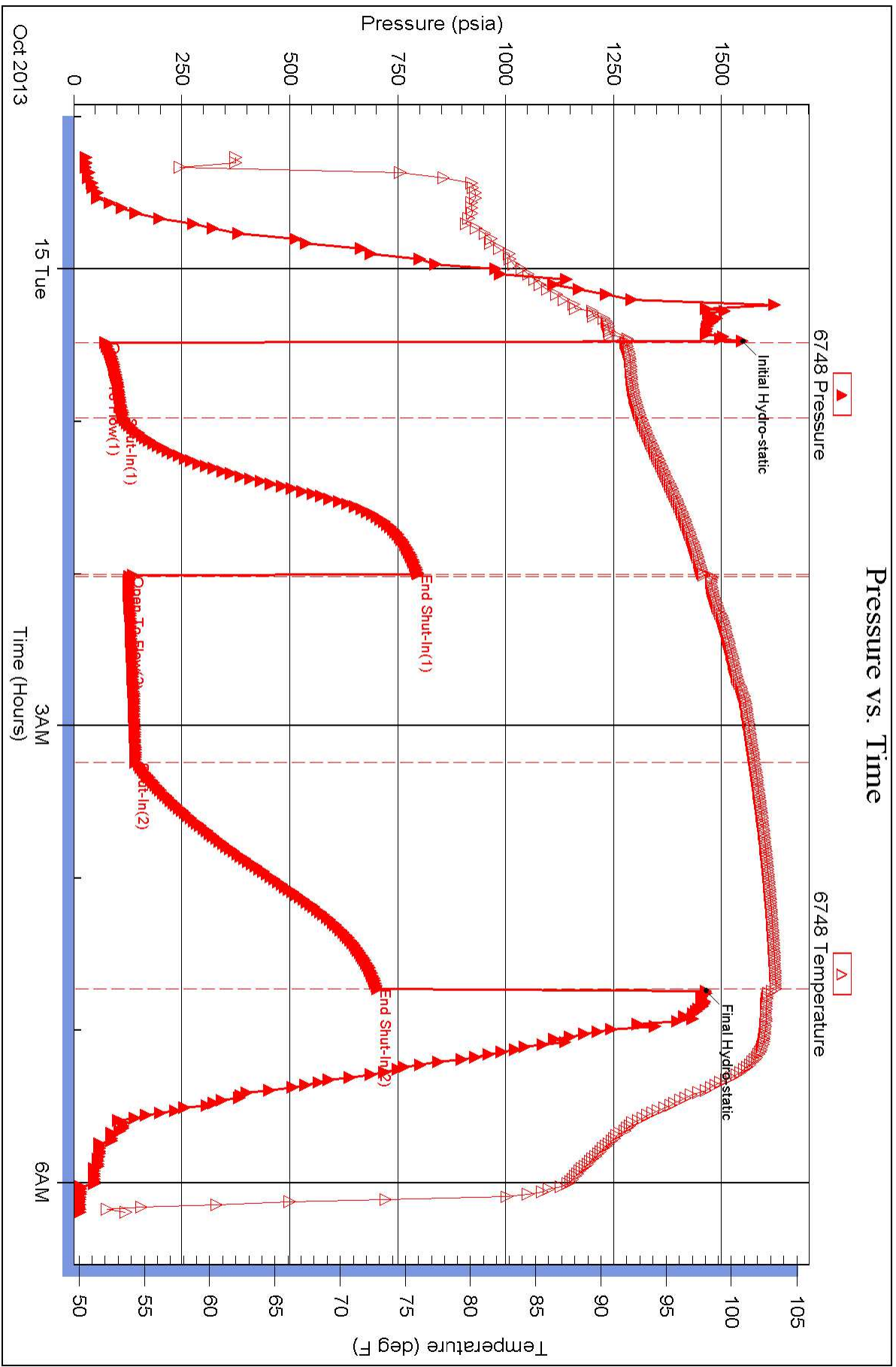
Start Date: 2013.10.14 @ 00:00:00

End Date: 2013.10.14 @ 00:00:00

Job Ticket #: 17091                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.14 @ 11:22:21



Serial #: 6663

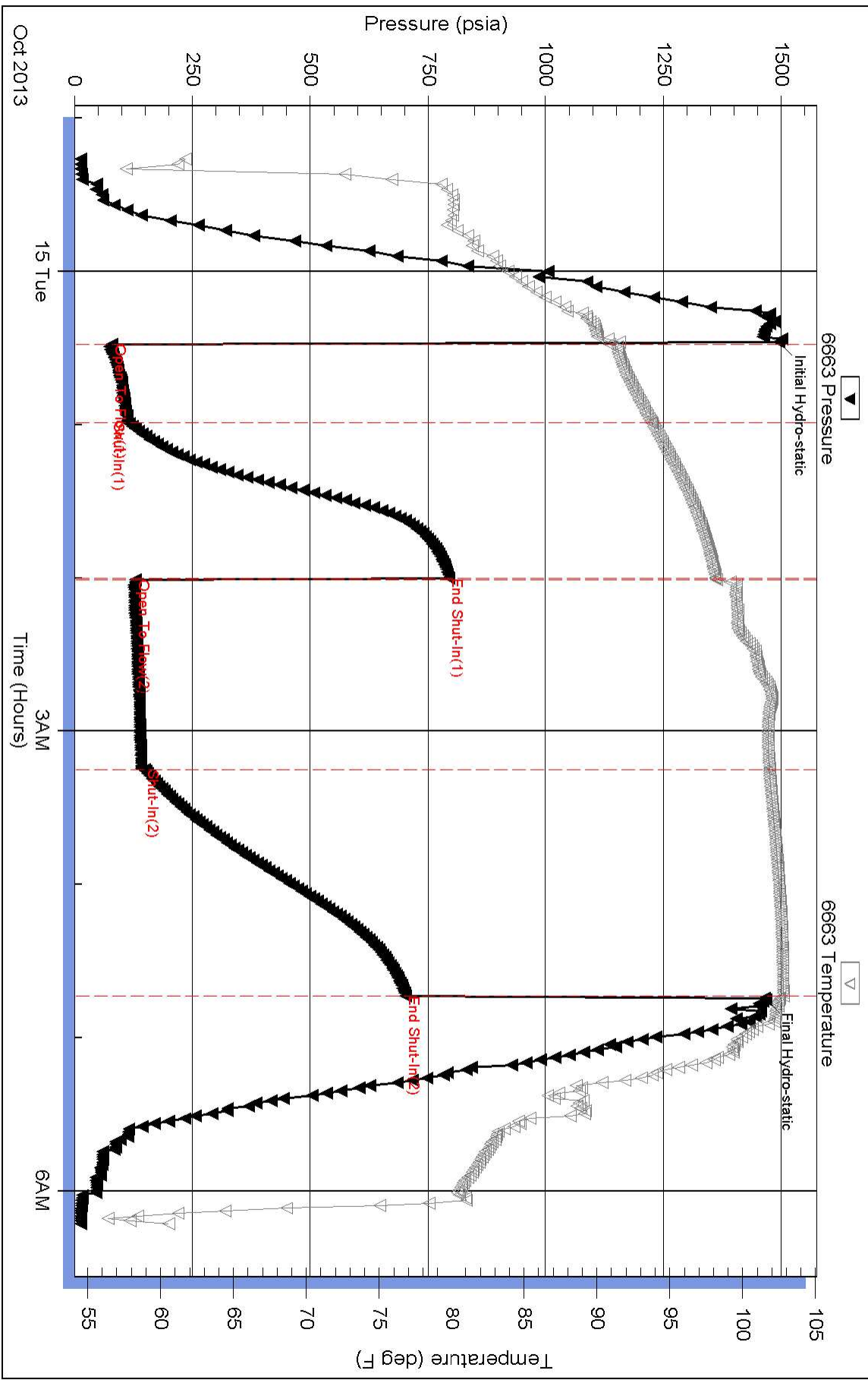
Inside

Trans Pacific Oil Company

Kasselman #8

DST Test Number: 2

### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17092

Printed: 2013.10.15 @ 06:39:13



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17092

**DST#: 2**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 57.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6100.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300 feet of gas in the pipe	0.000
50.00	Oil and gas cut mud	0.246
0.00	10%Gas 5%Oil 80%Mud 5%Water	0.000
58.00	Heavy Oil and Gas Cut Mud	0.285
0.00	10%Gas 35%Oil 45%Mud 10%Water	0.000
58.00	Heavy Oil and Gas cut Mud	0.732
0.00	10%Gas20%Oil 50%Mud 20%Water	0.000
0.00	chlorides 24,000	0.000

Total Length: 166.00 ft      Total Volume: 1.263 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselmann #8**

Job Ticket: 17092

**DST#: 2**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 2906.00 ft	Diameter: 3.80 inches	Volume: 40.76 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 41.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3015.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.98 ft			
Tool Length:	109.98 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3000.00	
Hydraulic Tool	5.00			3005.00	
Packer	5.00			3010.00	20.00 Bottom Of Top Packer
Packer	5.00			3015.00	
Perforations	5.00			3020.00	
C.O. Sub	0.75			3020.75	
Drill Pipe	63.48			3084.23	
C.O. Sub	0.75			3084.98	
Perforations	15.00			3099.98	
Recorder	1.00	6663	Inside	3100.98	
Recorder	1.00	6748	Outside	3101.98	
Bullnose	3.00			3104.98	89.98 Bottom Packers & Anchor

**Total Tool Length: 109.98**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

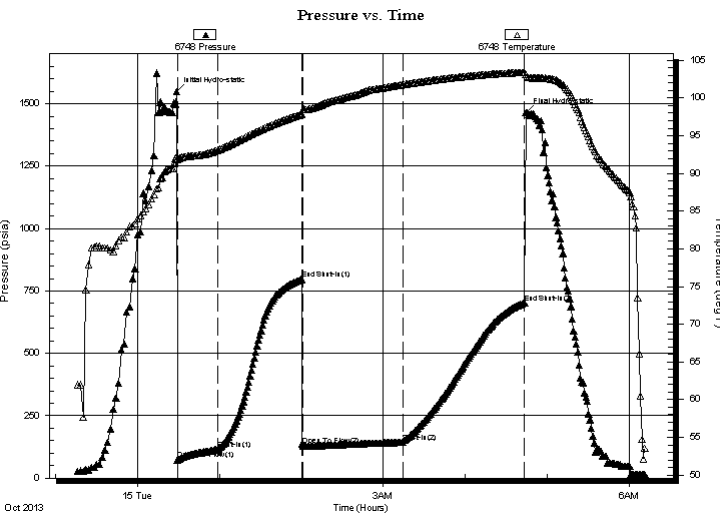
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17092      **DST#: 2**  
 Test Start: 2013.10.15 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "A-F"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3015.00 ft (KB) To 3105.00 ft (KB) (TVD)**  
 Total Depth: 3105.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335-45  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6748      Outside**  
 Press @ Run Depth: 702.51 psia @ 3101.98 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.14      End Date: 2013.10.15      Last Calib.: 2013.10.15  
 Start Time: 23:15:00      End Time: 06:12:00      Time On Btm: 2013.10.15 @ 00:28:30  
 Time Off Btm: 2013.10.15 @ 04:44:30

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 11 1/2 inches into the water (1/2 inch from the bottom)  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes-Weak building blow built to the bottom of a 5 gallon bucket in 28 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1547.45	92.18	Initial Hydro-static
1	74.09	91.90	Open To Flow (1)
30	114.04	93.09	Shut-In(1)
92	796.62	97.81	End Shut-In(1)
93	129.85	98.50	Open To Flow (2)
166	142.88	101.78	Shut-In(2)
255	702.51	103.40	End Shut-In(2)
256	1463.70	103.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
50.00	Oil and gas cut mud	0.25
0.00	10%Gas 5%Oil 80%Mud 5%Water	0.00
58.00	Heavy Oil and Gas Cut Mud	0.29
0.00	10%Gas 35%Oil 45%Mud 10%Water	0.00
58.00	Heavy Oil and Gas cut Mud	0.73

## Gas Rates

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



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

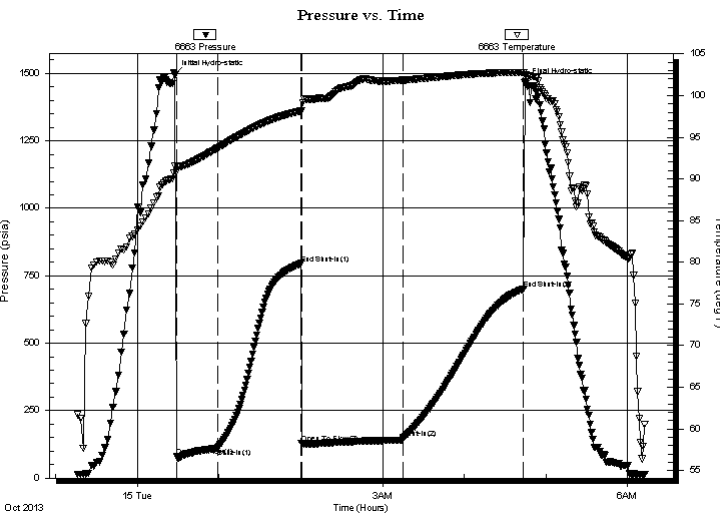
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17092      **DST#: 2**  
 Test Start: 2013.10.15 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "A-F"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3015.00 ft (KB) To 3105.00 ft (KB) (TVD)**  
 Total Depth: 3105.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335-45  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6663      Inside**  
 Press @ Run Depth: 701.99 psia @ 3100.98 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.14      End Date: 2013.10.15      Last Calib.: 2013.10.15  
 Start Time: 23:15:00      End Time: 06:12:30      Time On Btm: 2013.10.15 @ 00:27:30  
 Time Off Btm: 2013.10.15 @ 04:45:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 11 1/2 inches into the water (1/2 inch from the bottom)  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes-Weak building blow built to the bottom of a 5 gallon bucket in 28 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1494.31	91.53	Initial Hydro-static
1	79.68	90.88	Open To Flow (1)
32	112.30	93.72	Shut-In(1)
93	795.47	98.14	End Shut-In(1)
93	129.02	98.20	Open To Flow (2)
168	148.80	101.85	Shut-In(2)
256	701.99	102.78	End Shut-In(2)
258	1467.60	102.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
50.00	Oil and gas cut mud	0.25
0.00	10%Gas 5%Oil 80%Mud 5%Water	0.00
58.00	Heavy Oil and Gas Cut Mud	0.29
0.00	10%Gas 35%Oil 45%Mud 10%Water	0.00
58.00	Heavy Oil and Gas cut Mud	0.73

## Gas Rates

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





## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

Start Date: 2013.10.15 @ 00:00:00

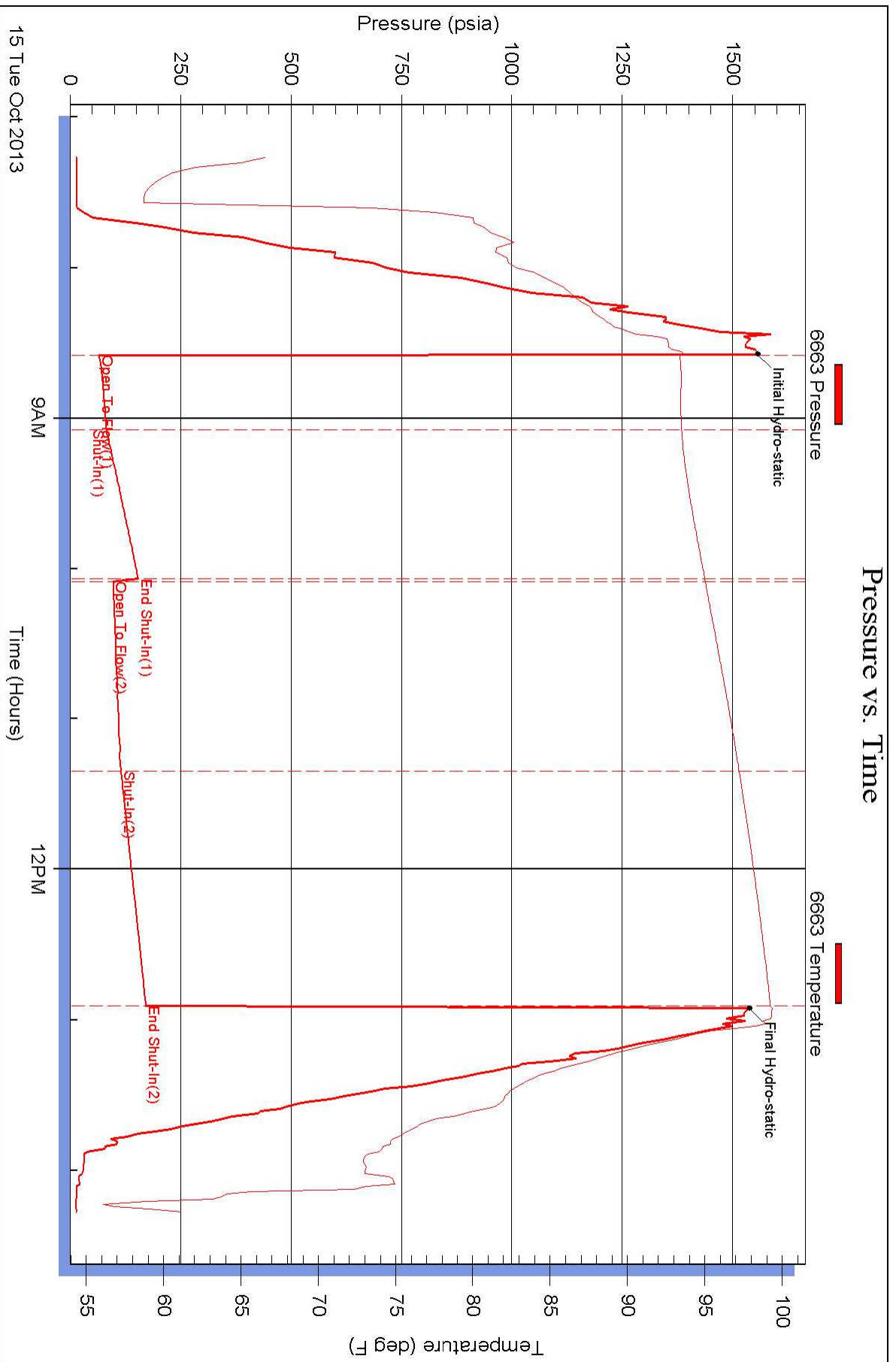
End Date: 2013.10.15 @ 00:00:00

Job Ticket #: 17092                      DST #: 2

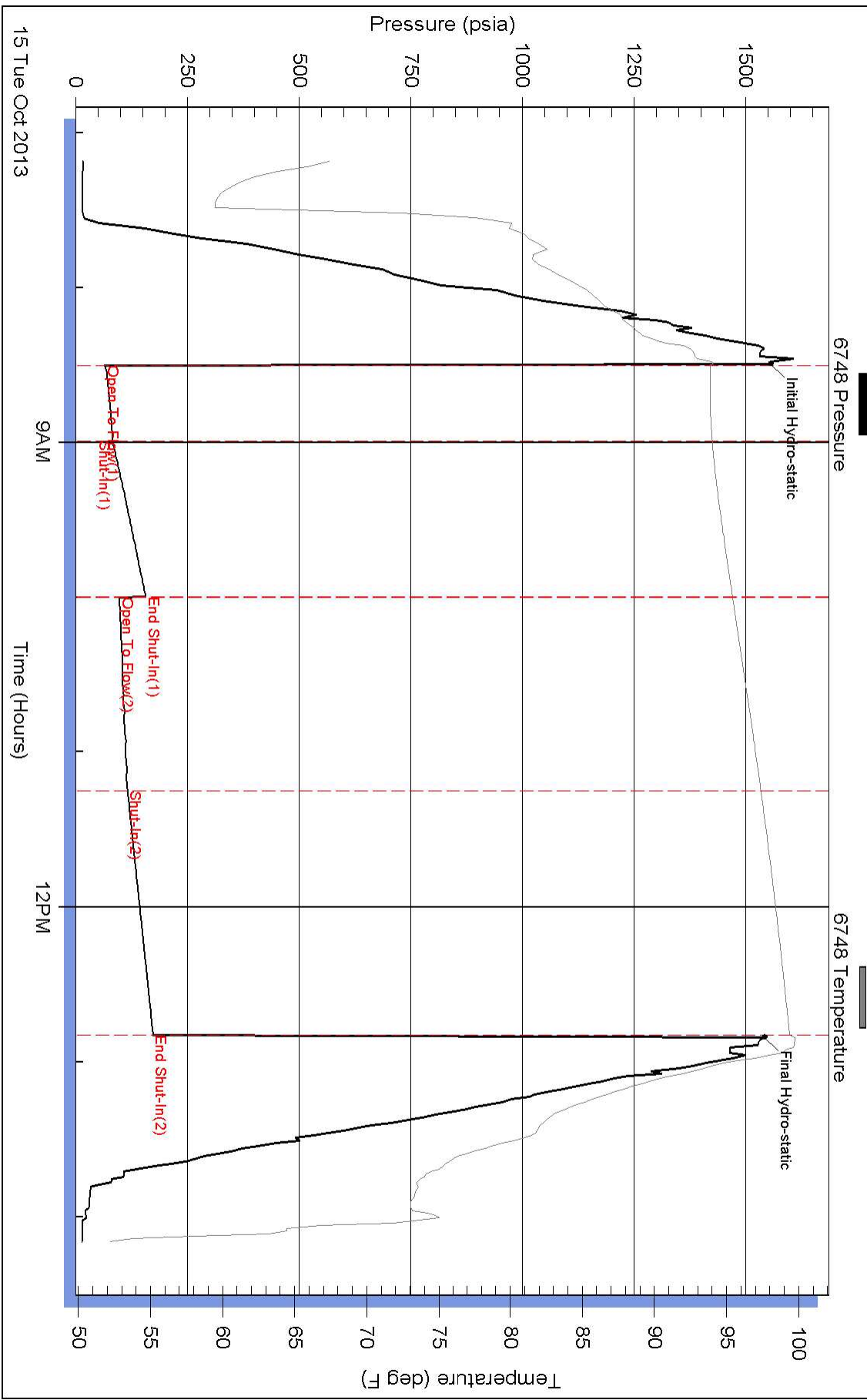
Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.15 @ 06:39:12

### Pressure vs. Time



### Pressure vs. Time





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17093

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

### 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:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drilling Mud	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17093

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3033.00 ft	Diameter: 3.80 inches	Volume: 42.55 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 43.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3147.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.61 ft			
Tool Length:	92.61 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			3132.00	
Hydraulic Tool	5.00			3137.00	
Packer	5.00			3142.00	20.00 Bottom Of Top Packer
Packer	5.00			3147.00	
Perforations	5.00			3152.00	
C.O. Sub	0.75			3152.75	
Drill Pipe	31.11			3183.86	
C.O. Sub	0.75			3184.61	
Perforations	30.00			3214.61	
Recorder	1.00	6663	Inside	3215.61	
Recorder	1.00	6748	Outside	3216.61	
Bullnose	3.00			3219.61	72.61 Bottom Packers & Anchor

**Total Tool Length: 92.61**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17093

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "h-I & J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)**

Reference Elevations: 1764.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1754.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6663**

**Inside**

Press @ Run Depth: 170.93 psia @ 3215.61 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.15

End Date:

2013.10.15

Last Calib.:

2013.10.16

Start Time: 07:15:00

End Time:

14:16:30

Time On Btm:

2013.10.15 @ 08:34:30

Time Off Btm:

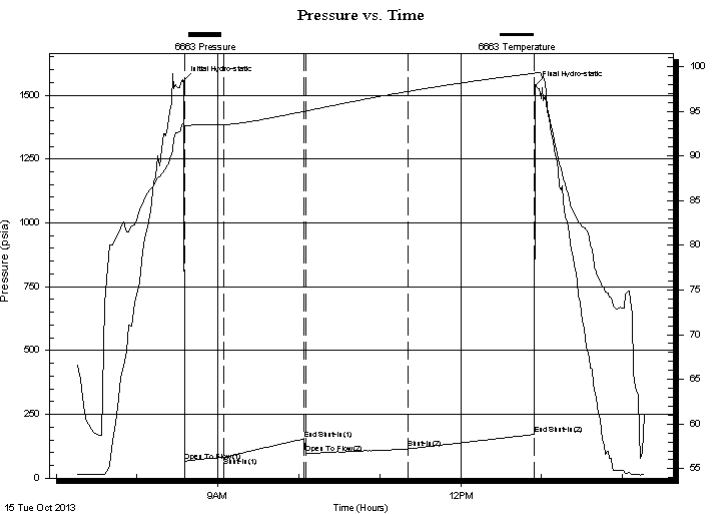
2013.10.15 @ 12:55:30

**TEST COMMENT:** 1st Opening 30 Minutes weak building blow built to 4 inches into the water

1st Shut-In 60 Minutes-No blow back

2nd Opening 75 Minutes-Weak steady 2 inch blow for 50 minutes then decreased and died after 65 minutes

2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

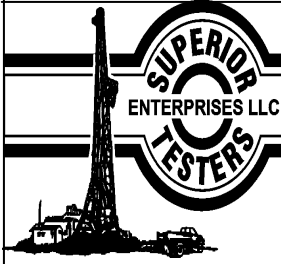
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1555.58	93.66	Initial Hydro-static
1	65.33	93.37	Open To Flow (1)
30	81.67	93.50	Shut-In(1)
90	154.07	95.00	End Shut-In(1)
91	96.83	95.02	Open To Flow (2)
167	114.94	97.22	Shut-In(2)
260	170.93	99.24	End Shut-In(2)
261	1537.29	99.35	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
70.00	Drilling Mud	0.34

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



# DRILL STEM TEST REPORT

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17093

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.10.15 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Kansas City "h-I & J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3335

**Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)**

Reference Elevations: 1764.00 ft (KB)

Total Depth: 3220.00 ft (KB) (TVD)

1754.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6748 Outside**

Press @ RunDepth: 172.60 psia @ 3216.61 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.10.15

End Date: 2013.10.15

Last Calib.: 2013.10.16

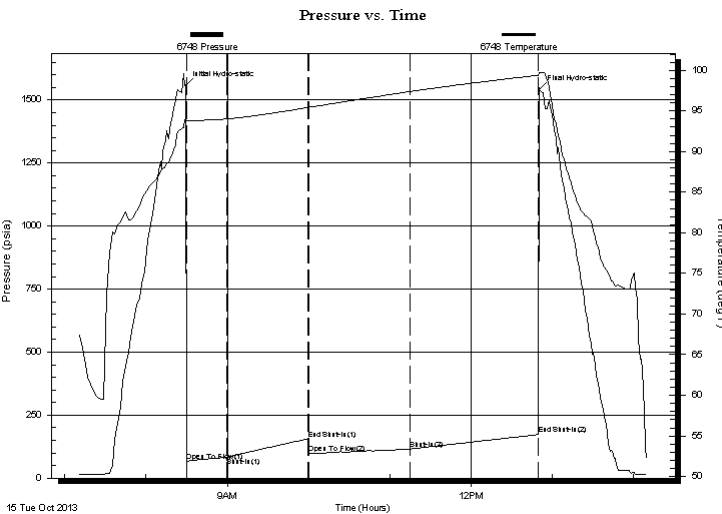
Start Time: 07:10:00

End Time: 14:10:00

Time On Btm: 2013.10.15 @ 08:29:30

Time Off Btm: 2013.10.15 @ 12:50:30

**TEST COMMENT:** 1st Opening 30 Minutes weak building blow built to 4 inches into the water  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes-Weak stead 2 inch blow for 50 minutes then decreased and died after 65 minutes  
 2nd Shut-In 90 Minutes-No blow back



## PRESSURE SUMMARY

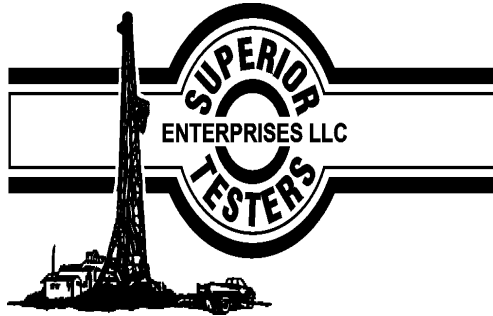
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1555.65	94.09	Initial Hydro-static
1	65.03	93.77	Open To Flow (1)
31	82.67	94.01	Shut-In(1)
91	155.88	95.42	End Shut-In(1)
91	98.14	95.42	Open To Flow (2)
166	115.78	97.38	Shut-In(2)
260	172.60	99.38	End Shut-In(2)
261	1541.67	99.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drilling Mud	0.34

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

### **23-20s-11w Barton**

Start Date: 2013.10.15 @ 00:00:00

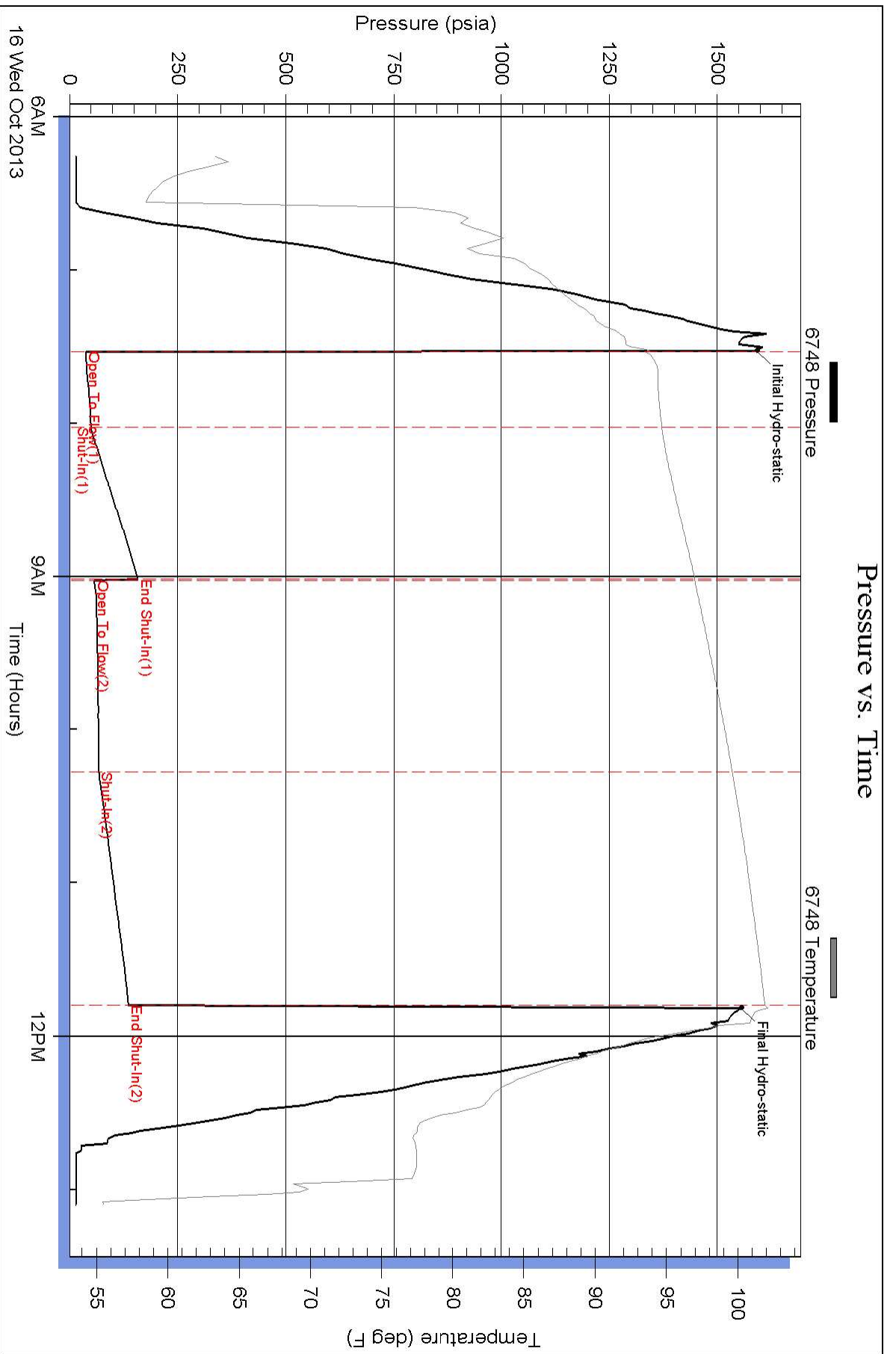
End Date: 2013.10.15 @ 00:00:00

Job Ticket #: 17093                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.16 @ 02:13:44







# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17094

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2013.10.16 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 72000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300 feet of gas in the pipe	0.000
60.00	heavy oil and gas cut mud	0.295
0.00	30%Gas 20%Oil 50%Mud	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17094

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2013.10.16 @ 00:00:00

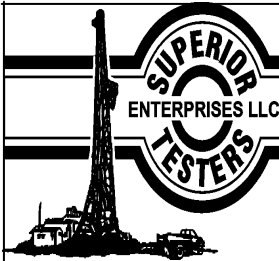
## Tool Information

Drill Pipe:	Length: 3129.00 ft	Diameter: 3.80 inches	Volume: 43.89 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 44.47 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3258.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Shut-In Tool	5.00			3243.00	
Hydraulic Tool	5.00			3248.00	
Packer	5.00			3253.00	20.00 Bottom Of Top Packer
Packer	5.00			3258.00	
Perforations	22.00			3280.00	
Recorder	1.00	6663	Inside	3281.00	
Recorder	1.00	6748	Outside	3282.00	
Bullnose	3.00			3285.00	27.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

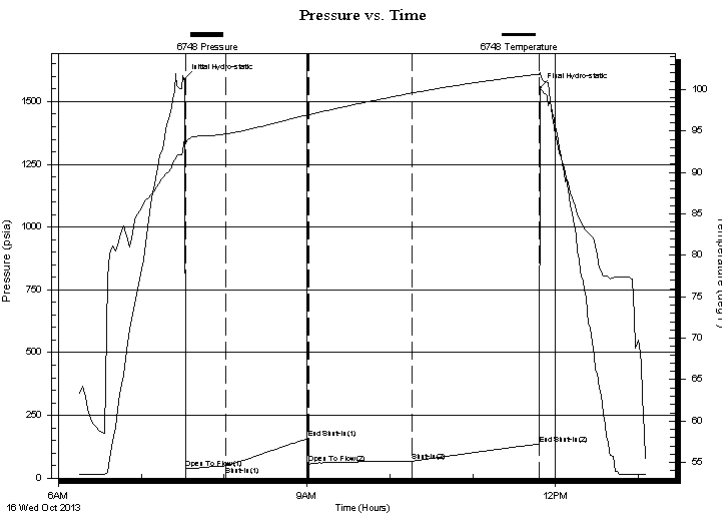
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17094      **DST#: 4**  
 Test Start: 2013.10.16 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3258.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6748      Outside**  
 Press @ RunDepth: 136.00 psia @ 3282.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.10.16      End Date: 2013.10.16      Last Calib.: 2013.10.17  
 Start Time: 06:15:00      End Time: 13:06:23      Time On Btm: 2013.10.16 @ 07:31:23  
    Time Off Btm: 2013.10.16 @ 11:48:53

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 2 1/2 inches into the waterr  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes Weak building blow built to the bottom of a 5 gallon bucket in 72 minutes  
 2nd Shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1591.34	93.85	Initial Hydro-static
1	38.05	93.46	Open To Flow (1)
30	49.04	94.67	Shut-In(1)
90	158.34	96.98	End Shut-In(1)
90	57.90	96.96	Open To Flow (2)
165	66.93	99.60	Shut-In(2)
257	136.00	101.88	End Shut-In(2)
258	1555.44	102.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
60.00	heavy oil and gas cut mud	0.30
0.00	30%Gas 20%Oil 50%Mud	0.00

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

Start Date: 2013.10.16 @ 00:00:00

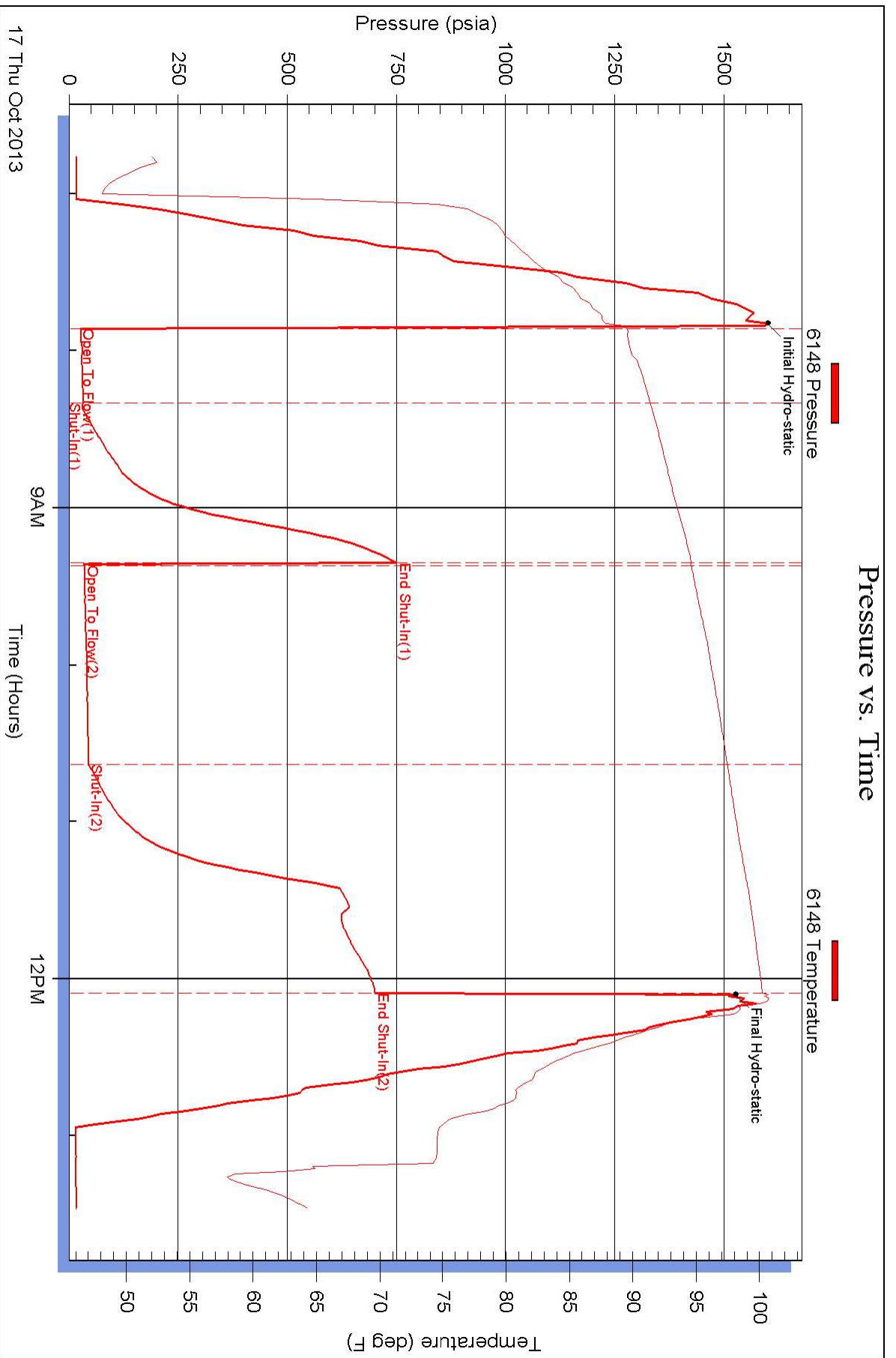
End Date: 2013.10.16 @ 00:00:00

Job Ticket #: 17094                      DST #: 4

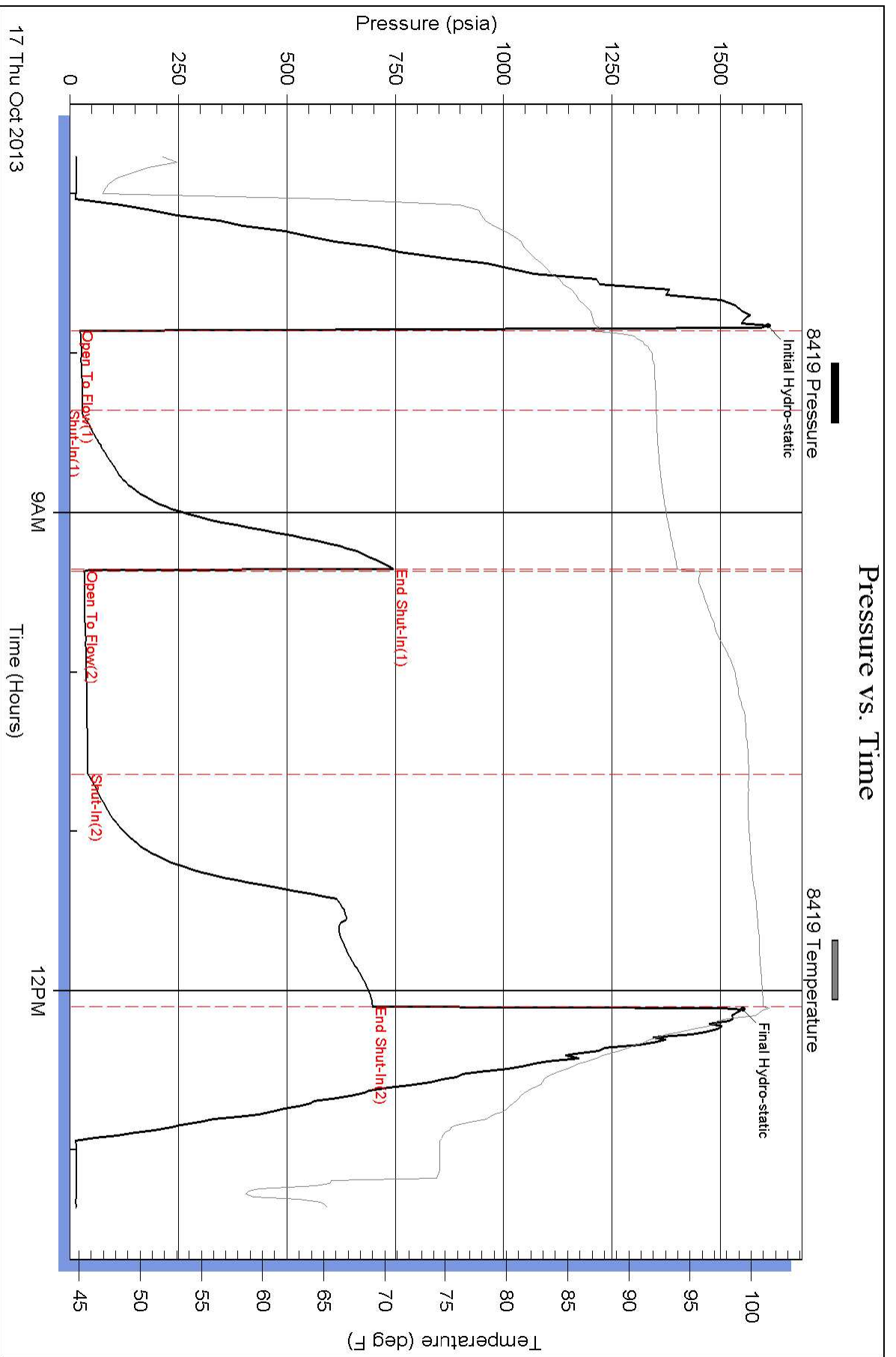
Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.17 @ 01:16:53

### Pressure vs. Time



### Pressure vs. Time





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17095

**DST#: 5**

ATTN: Jeff Lawler

Test Start: 2013.10.17 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	500 feet of gas in the pipe	0.000
55.00	Heavy oil and gas cut mud	0.270
0.00	5%Gas 55%Oil 40%Mud	0.000

Total Length: 55.00 ft      Total Volume: 0.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17095      **DST#: 5**  
 Test Start: 2013.10.17 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3155.00 ft	Diameter: 3.80 inches	Volume: 44.26 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:	2000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	20000.00 lb
			<u>Total Volume: 44.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3284.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	26.00 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			3269.00	
Hydraulic Tool	5.00			3274.00	
Packer	5.00			3279.00	20.00      Bottom Of Top Packer
Packer	5.00			3284.00	
Perforations	1.00			3285.00	
Recorder	1.00	8419	Inside	3286.00	
Recorder	1.00	6148	Outside	3287.00	
Bullnose	3.00			3290.00	6.00      Bottom Packers & Anchor

**Total Tool Length: 26.00**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

**23-20s-11w Barton**

**Kasselmann #8**

Job Ticket: 17095

**DST#: 5**

Test Start: 2013.10.17 @ 00:00:00

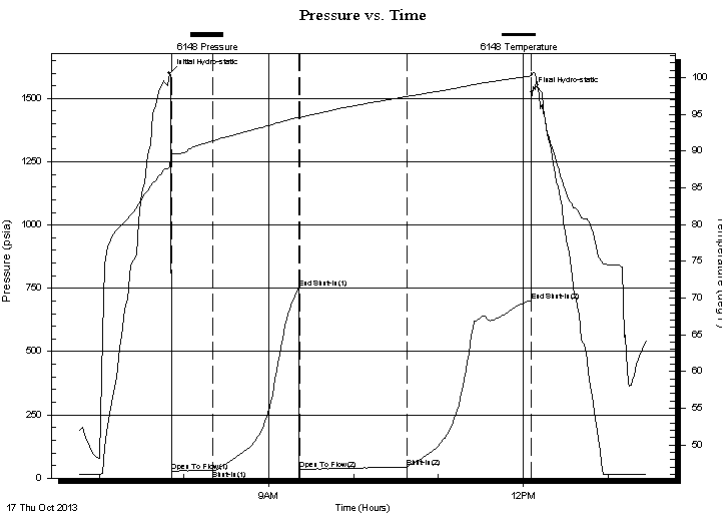
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00  
 Tester: Gene Budig  
 Time Test Ended: 00:00:00  
 Unit No: 3335  
 Interval: **3284.00 ft (KB) To 3290.00 ft (KB) (TVD)**  
 Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 3290.00 ft (KB) (TVD)  
 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

## Serial #: 6148 Outside

Press @ RunDepth: 700.13 psia @ 3287.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.17 End Date: 2013.10.17 Last Calib.: 2013.10.17  
 Start Time: 06:45:00 End Time: 13:27:30 Time On Btm: 2013.10.17 @ 07:49:30  
 Time Off Btm: 2013.10.17 @ 12:06:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 5 inches into the water  
 1st Shut-In 60 Minutes-Weak blow back  
 2nd Opening 75 Minutes- Weak building blow built to the bottom of a 5 gallon bucket in 50 minutes  
 2nd Shut-In 90 Minutes Weak blow back



## PRESSURE SUMMARY

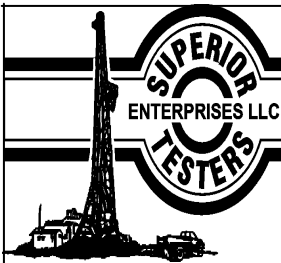
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1599.98	87.86	Initial Hydro-static
2	25.62	89.49	Open To Flow (1)
31	30.70	91.39	Shut-In(1)
92	750.48	94.65	End Shut-In(1)
93	35.32	94.59	Open To Flow (2)
169	43.89	97.45	Shut-In(2)
256	700.13	100.23	End Shut-In(2)
257	1526.01	100.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	500 feet of gas in the pipe	0.00
55.00	Heavy oil and gas cut mud	0.27
0.00	5%Gas 55%Oil 40%Mud	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17095 **DST#: 5**  
 Test Start: 2013.10.17 @ 00:00:00

## GENERAL INFORMATION:

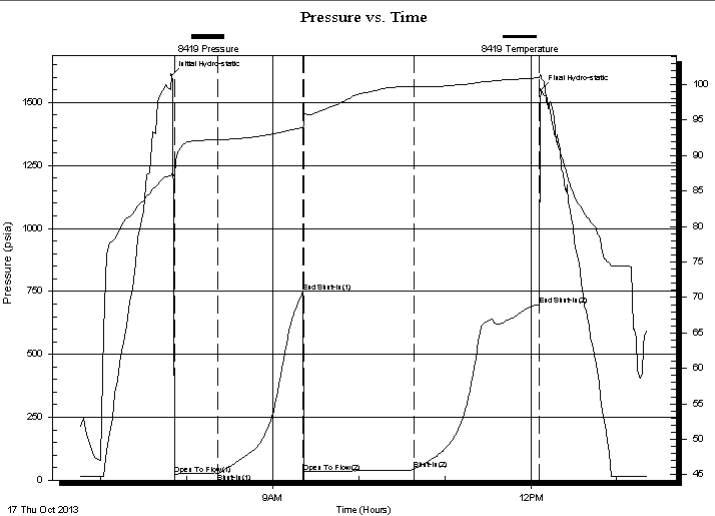
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 3335  
 Interval: **3284.00 ft (KB) To 3290.00 ft (KB) (TVD)** Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 3290.00 ft (KB) (TVD) 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

## Serial #: 8419

Inside

Press @ Run Depth: 697.70 psia @ 3286.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.17 End Date: 2013.10.17 Last Calib.: 2013.10.17  
 Start Time: 06:45:00 End Time: 13:21:30 Time On Btm: 2013.10.17 @ 07:49:30  
 Time Off Btm: 2013.10.17 @ 12:07:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 5 inches into the water  
 1st Shut-In 60 Minutes-Weak blow back  
 2nd Opening 75 Minutes- Weak building blow built to the bottom of a 5 gallon bucket in 50 minutes  
 2nd Shut-In 90 Minutes Weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1608.84	87.33	Initial Hydro-static
2	22.82	86.98	Open To Flow (1)
32	28.65	92.26	Shut-In(1)
92	745.69	93.96	End Shut-In(1)
93	32.28	95.72	Open To Flow (2)
169	42.43	99.82	Shut-In(2)
257	697.70	101.00	End Shut-In(2)
258	1550.91	101.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	500 feet of gas in the pipe	0.00
55.00	Heavy oil and gas cut mud	0.27
0.00	5%Gas 55%Oil 40%Mud	0.00

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

Start Date: 2013.10.17 @ 00:00:00

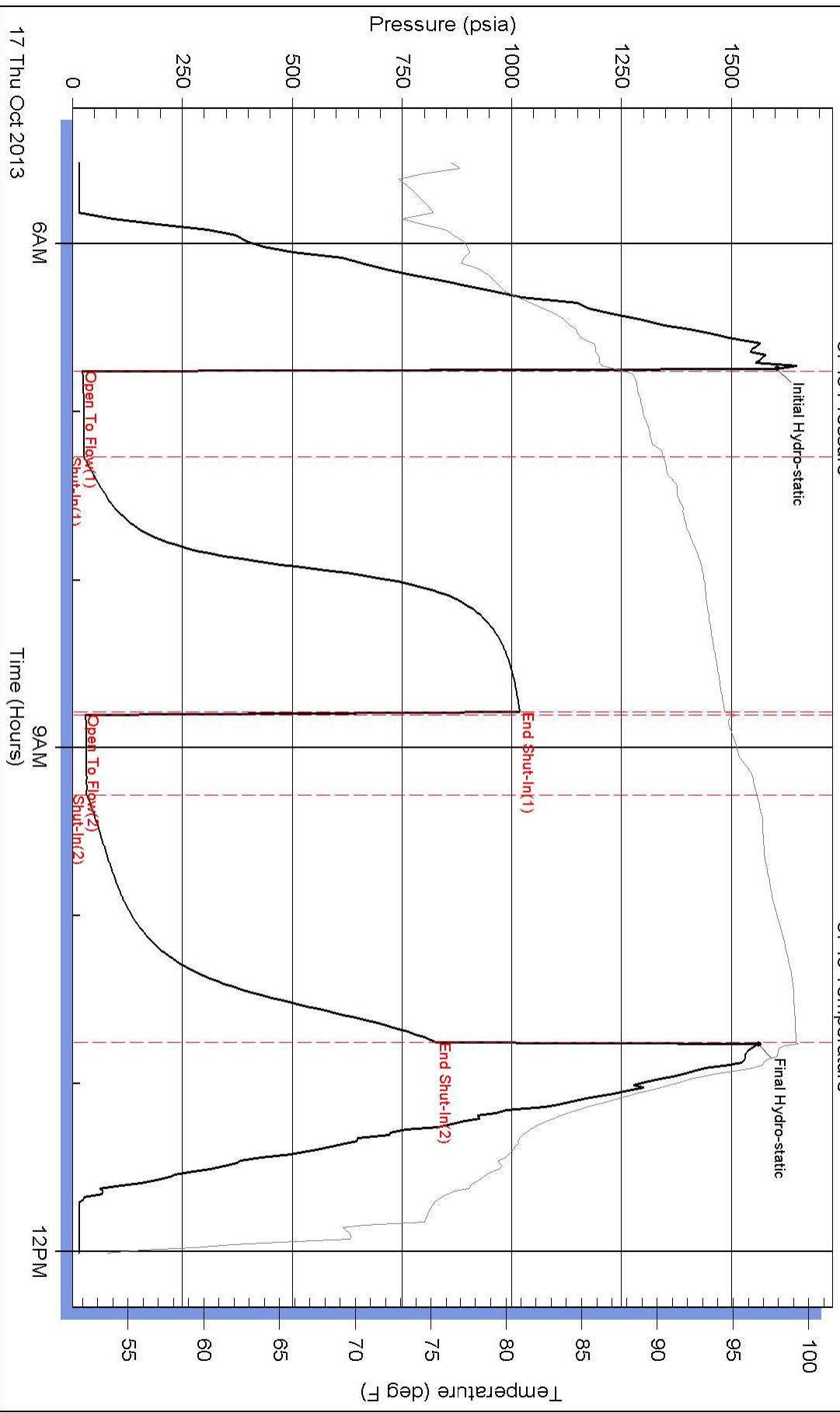
End Date: 2013.10.17 @ 00:00:00

Job Ticket #: 17095                      DST #: 5

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.17 @ 13:46:38

### Pressure vs. Time





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 17096

**DST#: 6**

ATTN: Jeff Lawler

Test Start: 2013.10.17 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 8.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Gas in the pipe	0.443
15.00	Oil and gas cut mud	0.074
0.00	2%Gas 18%Oil 80%Mud	0.000

Total Length: 105.00 ft      Total Volume: 0.517 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselmann #8**

Job Ticket: 17096

**DST#: 6**

ATTN: Jeff Lawler

Test Start: 2013.10.17 @ 00:00:00

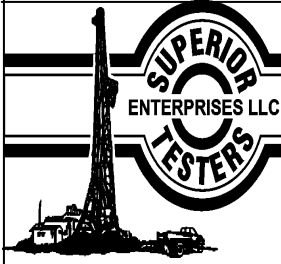
## Tool Information

Drill Pipe:	Length: 3155.00 ft	Diameter: 3.80 inches	Volume: 44.26 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 44.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3285.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	25.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Hydrolic Tool	5.00			3270.00	
Shut-In Tool	5.00			3275.00	
Packer	5.00			3280.00	20.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Recorder	1.00	6663	Inside	3286.00	
Recorder	1.00	6748	Outside	3287.00	
Bullnose	3.00			3290.00	5.00 Bottom Packers & Anchor

**Total Tool Length: 25.00**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

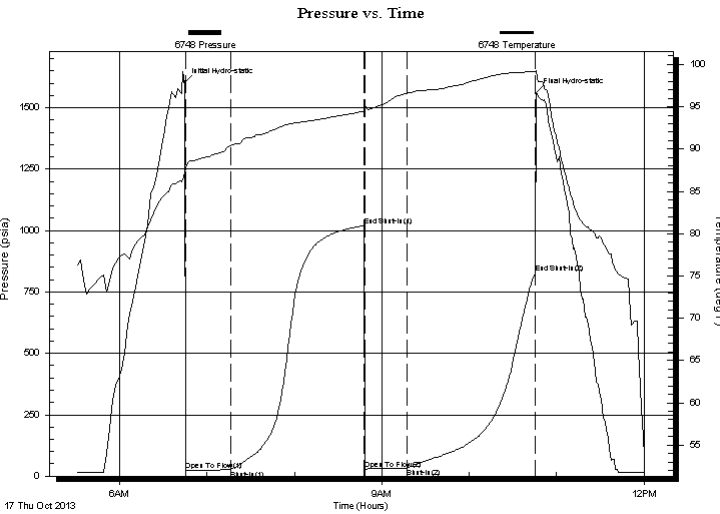
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 17096 **DST#: 6**  
 Test Start: 2013.10.17 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3285.00 ft (KB) To 3290.00 ft (KB) (TVD)**  
 Total Depth: 3290.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6748 Outside**  
 Press @ Run Depth: 827.38 psia @ 3287.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.17 End Date: 2013.10.17 Last Calib.: 2013.10.18  
 Start Time: 05:30:00 End Time: 12:01:00 Time On Btm: 2013.10.17 @ 06:44:30  
 Time Off Btm: 2013.10.17 @ 10:46:00

**TEST COMMENT:** 1st Opening 30 Minutes Very weak surface blow through out  
 1st Shut-In 90 Minutes -no blow back  
 2nd Opening 30 Minutes w eabuilding blow built to 34 inches into the w aterk  
 2nd Shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1603.27	87.23	Initial Hydro-static
1	22.61	87.84	Open To Flow (1)
32	25.72	90.39	Shut-In(1)
123	1018.91	94.46	End Shut-In(1)
124	28.64	95.14	Open To Flow (2)
153	32.99	96.57	Shut-In(2)
242	827.38	99.16	End Shut-In(2)
242	1560.49	99.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Gas in the pipe	0.44
15.00	Oil and gas cut mud	0.07
0.00	2%Gas 18%Oil 80%Mud	0.00

## Gas Rates

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





## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

Start Date: 2013.10.17 @ 00:00:00

End Date: 2013.10.17 @ 00:00:00

Job Ticket #: 17096                      DST #: 6

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.18 @ 00:05:50

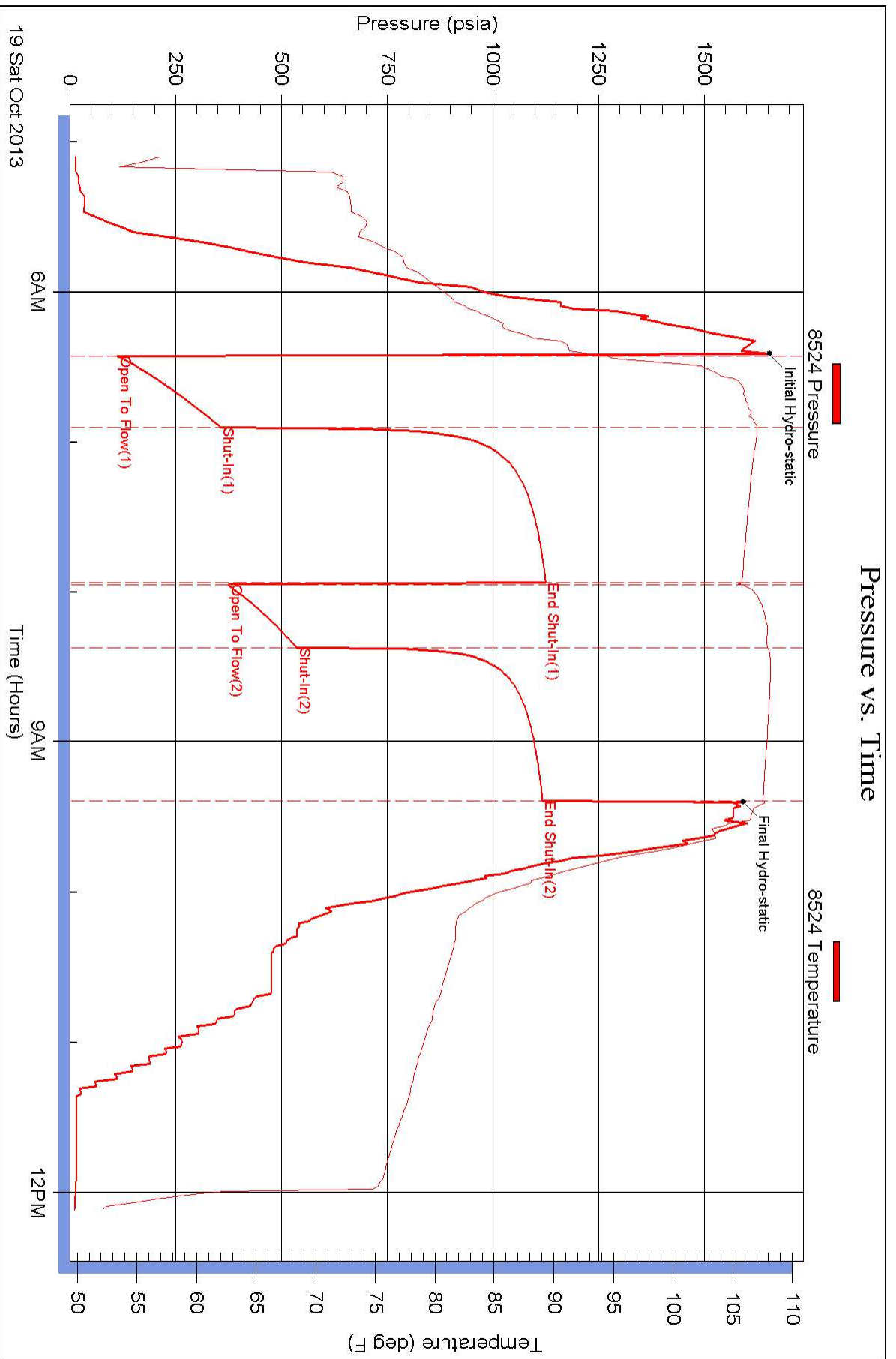
Serial #: 8524

Inside

Trans Pacific Oil Company

Kasselman #8

DST Test Number: 7

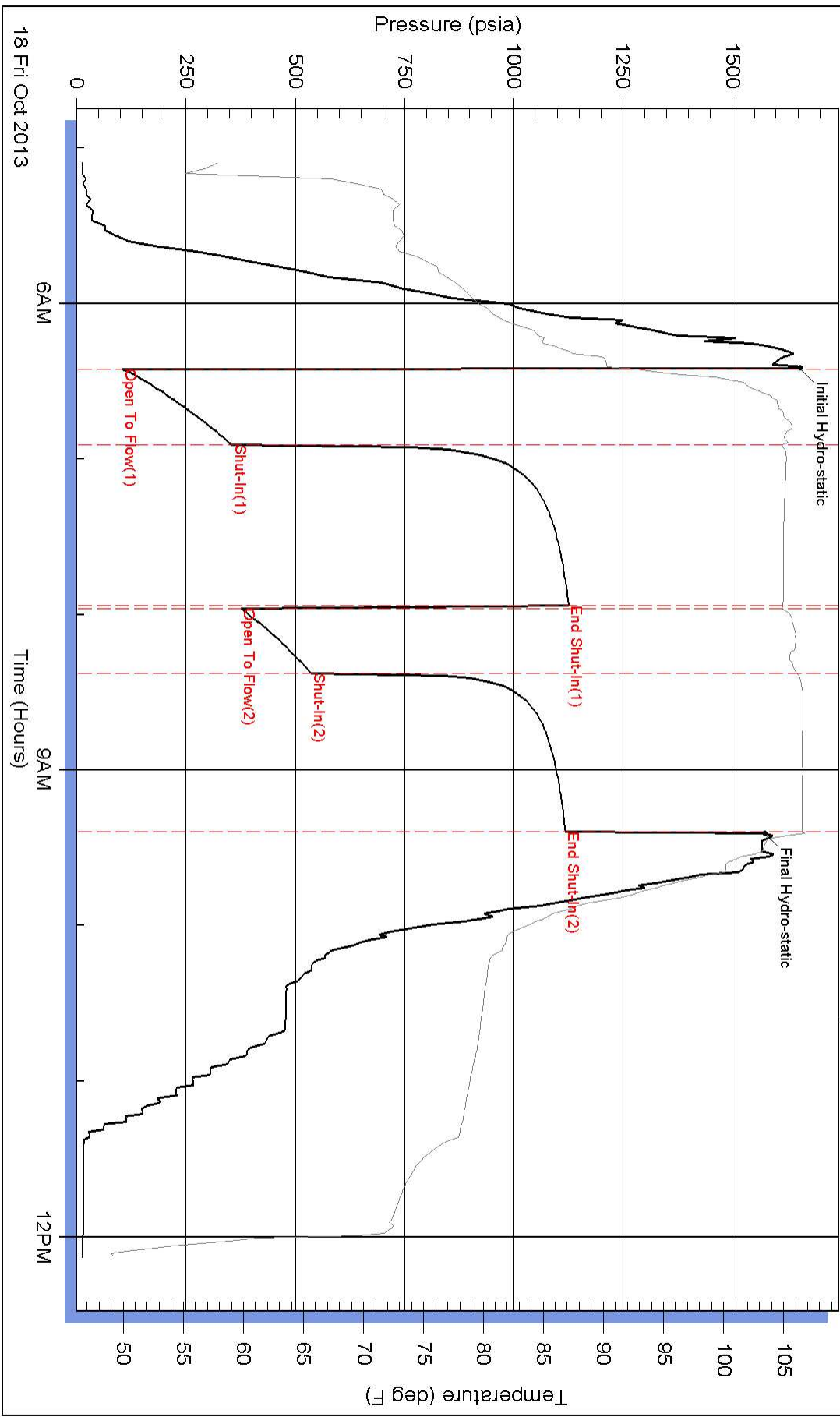


Superior Testers Enterprises LLC

Ref. No: 18571

Printed: 2013.10.19 @ 00:42:27

### Pressure vs. Time





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 18571

**DST#: 7**

ATTN: Jeff Lawler

Test Start: 2013.10.18 @ 05:05:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 11.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 9300.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
427.00	Gassy oil cut mud	4.924
0.00	Oil 3 % Gas 20% Mud 77%	0.000
305.00	Gassy oil cut muddy w ater	4.278
0.00	Oil 2% Gas 10% Mud 43% Water 45%	0.000
427.00	Oil spotted gassy w ater	5.990
0.00	Gas 20% Water 80%	0.000

Total Length: 1159.00 ft      Total Volume: 15.192 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 18571      **DST#: 7**  
 Test Start: 2013.10.18 @ 05:05:00

## Tool Information

Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 45.37 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3317.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 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			3302.00	
Hydraulic Tool	5.00			3307.00	
Packer	5.00			3312.00	20.00      Bottom Of Top Packer
Packer	5.00			3317.00	
Perforations	38.00			3355.00	
Recorder	1.00	8524	Inside	3356.00	
Recorder	1.00	6839	Outside	3357.00	
Bullnose	3.00			3360.00	43.00      Bottom Packers & Anchor

**Total Tool Length: 63.00**



# DRILL STEM TEST REPORT

Trans Pacific Oil Company

**23-20s-11w Barton**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

**Kasselman #8**

Job Ticket: 18571

**DST#: 7**

ATTN: Jeff Lawler

Test Start: 2013.10.18 @ 05:05:00

## GENERAL INFORMATION:

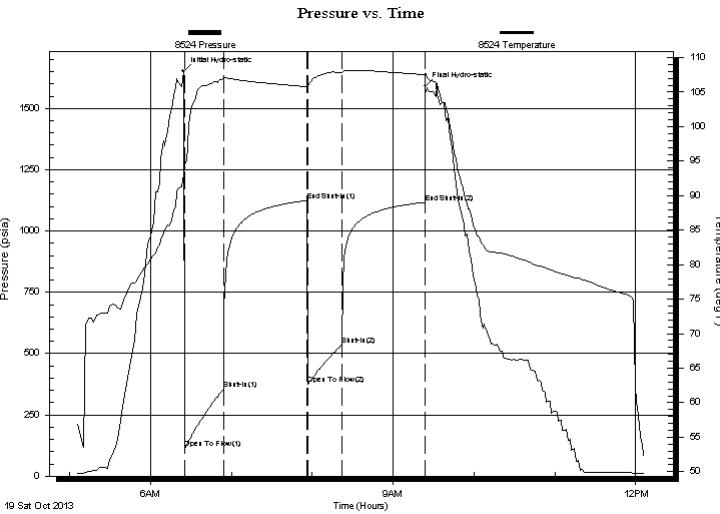
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:25:30  
 Time Test Ended: 12:07:30  
 Interval: **3317.00 ft (KB) To 3360.00 ft (KB) (TVD)**  
 Total Depth: 3360.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-42  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8524

Inside

Press @ Run Depth: 1117.15 psia @ 3356.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.19 End Date: 2013.10.19 Last Calib.: 2013.10.19  
 Start Time: 05:05:00 End Time: 12:06:30 Time On Btm: 2013.10.19 @ 06:24:30  
 Time Off Btm: 2013.10.19 @ 09:24:00

**TEST COMMENT:** 1st Open 30 minutes Strong blow blew off bottom bucket 2.5 minutes.  
 1st Shut in 60 minutes No blow back  
 2nd Open 30 minutes Strong blow built to the bottom of a 5 gallon bucket of water in 2.5 minutes.  
 2nd Shut in 60 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.95	93.01	Initial Hydro-static
1	112.67	94.43	Open To Flow (1)
30	355.20	106.99	Shut-In(1)
92	1124.31	105.77	End Shut-In(1)
93	374.59	105.92	Open To Flow (2)
118	535.15	107.91	Shut-In(2)
179	1117.15	107.53	End Shut-In(2)
180	1590.47	107.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
427.00	Gassy oil cut mud	4.92
0.00	Oil 3 % Gas 20% Mud 77%	0.00
305.00	Gassy oil cut muddy w ater	4.28
0.00	Oil 2% Gas 10% Mud 43% Water 45%	0.00
427.00	Oil spotted gassy w ater	5.99
0.00	Gas 20% Water 80%	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Trans Pacific Oil Company  
 100 South Main Suite 200  
 Wichita, Kansas 67206-3735  
 ATTN: Jeff Lawler

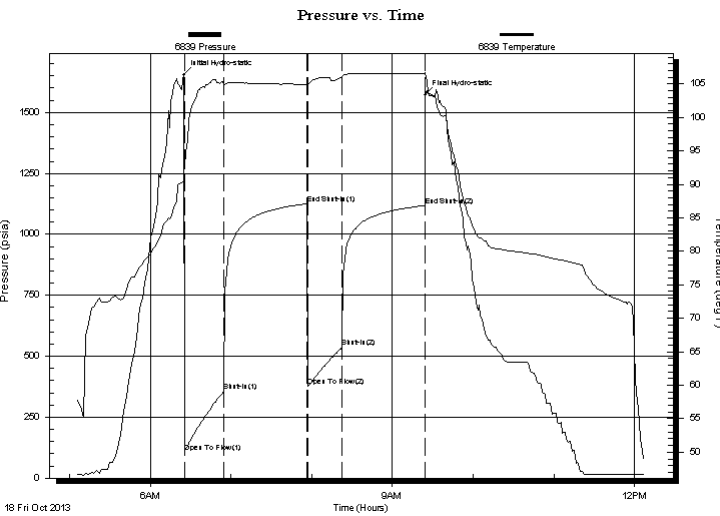
**23-20s-11w Barton**  
**Kasselman #8**  
 Job Ticket: 18571 **DST#: 7**  
 Test Start: 2013.10.18 @ 05:05:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:25:30 Tester: Dustin Ellis  
 Time Test Ended: 12:07:30 Unit No: 3315-Great Bend-42  
 Interval: **3317.00 ft (KB) To 3360.00 ft (KB) (TVD)** Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 3360.00 ft (KB) (TVD) 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6839 Outside**  
 Press @ Run Depth: 535.97 psia @ 3357.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.18 End Date: 2013.10.18 Last Calib.: 2013.10.19  
 Start Time: 05:05:00 End Time: 12:07:30 Time On Btm: 2013.10.18 @ 06:25:00  
 Time Off Btm: 2013.10.18 @ 09:24:30

**TEST COMMENT:** 1st Open 30 minutes Strong blow blew off bottom bucket 2.5 minutes.  
 1st Shut in 60 minutes No blow back  
 2nd Open 30 minutes Strong blow built to the bottom of a 5 gallon bucket of water in 2.5 minutes.  
 2nd Shut in 60 minutes Yes blow back



## PRESSURE SUMMARY

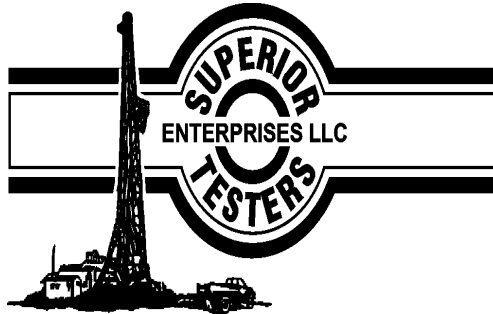
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1653.98	91.69	Initial Hydro-static
1	104.12	92.79	Open To Flow (1)
30	354.74	104.82	Shut-In(1)
92	1125.33	104.94	End Shut-In(1)
93	375.98	104.86	Open To Flow (2)
118	535.97	106.08	Shut-In(2)
179	1118.17	106.51	End Shut-In(2)
180	1572.89	106.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
427.00	Gassy oil cut mud	4.92
0.00	Oil 3 % Gas 20% Mud 77%	0.00
305.00	Gassy oil cut muddy w ater	4.28
0.00	Oil 2% Gas 10% Mud 43% Water 45%	0.00
427.00	Oil spotted gassy w ater	5.99
0.00	Gas 20% Water 80%	0.00

## Gas Rates

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



## DRILL STEM TEST REPORT

Prepared For: **Trans Pacific Oil Company**

100 South Main Suite 200  
Wichita, Kansas 67206-3735

ATTN: Jeff Lawler

### **Kasselman #8**

#### **23-20s-11w Barton**

Start Date: 2013.10.18 @ 05:05:00

End Date: 2013.10.18 @ 12:07:30

Job Ticket #: 18571                      DST #: 7

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2013.10.19 @ 00:42:26



**OPERATOR**

Company:	TRANS PACIFIC OIL CORPORTION		
Address:	100 S MAIN STE 200 WICHITA, KS 67202		
Contact Geologist:	BRYCE BIDLEMAN		
Contact Phone Nbr:	(316) 262-3596		
Well Name:	KASSELMAN #8		
Location:	W2 SW SE SW Sec. 23 - 20S - 11W	API:	15-009-25887-00-00
Pool:		Field:	CHASE - SILICA
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	KASSELMAN #8		
Surface Location:	W2 SW SE SW Sec. 23 - 20S - 11W		
Bottom Location:			
API:	15-009-25887-00-00		
License Number:	9408		
Spud Date:	10/10/2013	Time:	5:45 PM
Region:	BARTON COUNTY		
Drilling Completed:	10/18/2013	Time:	3:34 AM
Surface Coordinates:	330' FSL & 3740' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1754.00ft		
K.B. Elevation:	1764.00ft		
Logged Interval:	2200.00ft	To:	3359.00ft
Total Depth:	3360.00ft		
Formation:	LANSING - KANSAS CITY, ARBUCKLE		
Drilling Fluid Type:	FRESH WATER / CHEMICAL GEL		

**SURFACE CO-ORDINATES**

Well Type:	Vertical		
Longitude:	-98.5108987	Latitude:	38.2908833
N/S Co-ord:	330' FSL		
E/W Co-ord:	3740' FEL		

**LOGGED BY**



Company:	SOLUTIONS CONSULTING, INC.		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785)259-3737		
Logged By:	Geologist	Name:	JEFF LAWLER

**CONTRACTOR**

Contractor:	PICKERELL DRILLING COMPANY, INC.		
Rig #:			
Rig Type:	MUD ROTARY		
Spud Date:	10/10/2013	Time:	5:45 PM
TD Date:	10/18/2013	Time:	3:34 AM
Rig Release:	10/19/2013	Time:	7:00 AM

**ELEVATIONS**

K.B. Elevation:	1764.00ft	Ground Elevation:	1754.00ft
K.B. to Ground:	10.00ft		

**NOTES**

DUE TO LACK OF ECONOMICAL RECOVERY ON ALL DRILL STEM TESTS DECISION WAS MADE BY THE OPERATOR TO PLUG AND ABANDON THE KASSELMAN #8.

**WELL COMPARISON SHEET**

FORMATION	KASSELMAN #8				KASSELMAN #1				P&A 1-87				DONNA #1-23				JOELENE #1												
	1764		1754		1762		1762		N2 SE SW 23-20-11		1759		1753		1767		1767												
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.								
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM							
ANHYDRITE TOP	486	1278	495	1269	465	1297	-	19	-	28	475	1284	-	6	-	15	454	1299	-	21	-	30	462	1305	-	27	-	36	
BASE	498	1266															474	1279	-	13			485	1282	-	16			
TARKIO LIME	2366	-602			2352	-590	-	12																					
TOPEKA	2619	-855	2623	-859	2603	-841	-	14	-	18							2592	-839	-	16	-	20							
HEEBNER SHALE	2882	-1118	2885	-1121	2868	-1106	-	12	-	15	2873	-1114	-	4	-	7	2861	-1108	-	10	-	13	2874	-1107	-	11	-	14	
TORONTO	2899	-1135	2901	-1137	2884	-1122	-	13	-	15	2895	-1136	+	1	-	1	2876	-1123	-	12	-	14	2889	-1122	-	13	-	15	
DOUGLAS SHALE	2914	-1150	2917	-1153	2902	-1140	-	10	-	13							2892	-1139	-	11	-	14	2905	-1138	-	12	-	15	
DOUGLAS SAND	2956	-1192	2964	-1200	2953	-1191	-	1	-	9																			
BROWN LIME	3010	-1246	3011	-1247	2998	-1236	-	10	-	11	3000	-1241	-	5	-	6	2985	-1232	-	14	-	15	2996	-1229	-	17	-	18	
LKC	3028	-1264	3037	-1273	3024	-1262	-	2	-	11	3023	-1264	+	0	-	9	3012	-1259	-	5	-	14	3021	-1254	-	10	-	19	
STARK	3225	-1461	3214	-1450	3213	-1451	-	10	+	1							3203	-1450	-	11	+	0							
BKC	3263	-1499	3261	-1497	3262	-1500	+	1	+	3							3252	-1499	+	0	+	2							
ARBUCKLE	3280	-1516	3281	-1517	3266	-1504	-	12	-	13	3269	-1510	-	6	-	7	3254	-1501	-	15	-	16	3271	-1504	-	12	-	13	
TOTAL DEPTH	3359	-1595	3360	-1596	3270	-1508	-	87	-	88	3284	-1525	-	70	-	71							3311	-1544	-	51	-	52	

**DST #1 DOUGLAS SAND 2905' - 2985'**

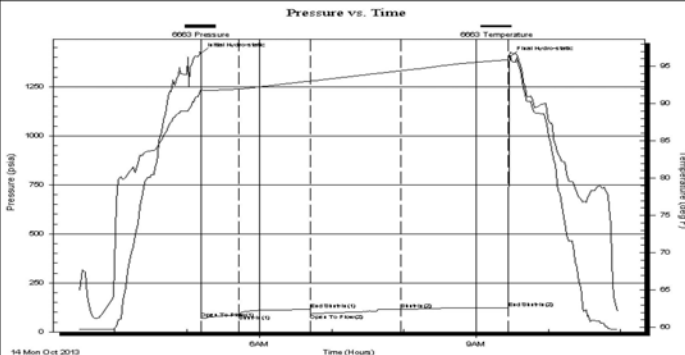
	<b>DRILL STEM TEST REPORT</b>	
	Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b> <b>Kasselman #8</b> Job Ticket: 17091 <b>DST#: 1</b> Test Start: 2013.10.14 @ 00:00:00

**GENERAL INFORMATION:**

Formation: **Douglas Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **2905.00 ft (KB) To 2985.00 ft (KB) (TVD)**  
 Total Depth: 2985.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6663 Inside**  
 Press@RunDepth: 121.14 psia @ 2980.96 ft (KB)  
 Start Date: 2013.10.14      End Date: 2013.10.14  
 Start Time: 03:30:00      End Time: 10:58:00  
 Capacity: 5000.00 psia  
 Last Calib.: 2013.10.14  
 Time On Btm: 2013.10.14 @ 05:11:30  
 Time Off Btm: 2013.10.14 @ 09:28:30

**TEST COMMENT:** 1st Shut-In 30 Minutes Fair blow built to the bottom of a 5 gallon bucket in 21 minutes  
 1st Shut-In 60 Minutes- No blow back  
 2nd Opening 75 minutes-Weak steady 2 inch blow for 55 minutes then decreased to a weak surface blow  
 2nd Shut-In 90 Minutes-No blow back



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1424.08	91.90	Initial Hydro-static
1	68.40	91.78	Open To Flow (1)
32	86.49	91.95	Shut-In(1)
91	115.09	93.02	End Shut-In(1)
91	90.30	93.02	Open To Flow (2)
166	114.33	94.40	Shut-In(2)
256	121.14	95.87	End Shut-In(2)
257	1404.33	96.88	Final Hydro-static


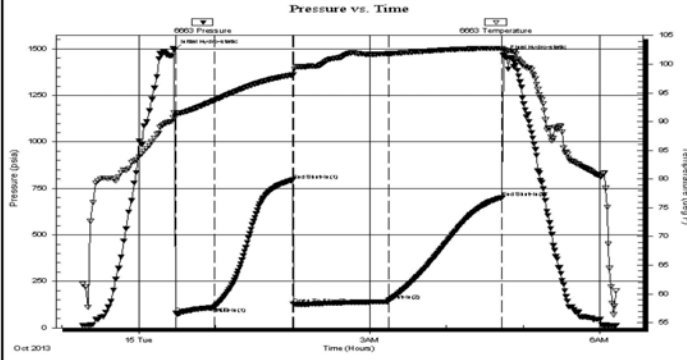
**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	420 feet of gas in the pipe	0.00
70.00	Drilling mud	0.00

**Gas Rates**

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

**DST #2 LKC A - F 3015' - 3105'**


	<b>DRILL STEM TEST REPORT</b>																																
Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b>  <b>Kasselman #8</b> Job Ticket: 17092 <b>DST#: 2</b> Test Start: 2013.10.15 @ 00:00:00																																
<b>GENERAL INFORMATION:</b>																																	
Formation: <b>Kansas City "A-F"</b> Deviated: No Whipstock:      ft (KB) Time Tool Opened: 00:00:00 Time Test Ended: 00:00:00	Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No: 3335-45																																
Interval: <b>3015.00 ft (KB) To 3105.00 ft (KB) (TVD)</b> Total Depth: 3105.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 1764.00 ft (KB) 1754.00 ft (CF) KB to GR/CF: 10.00 ft																																
<b>Serial #: 6663      Inside</b> Press@RunDepth: 701.99 psia @ 3100.98 ft (KB) Start Date: 2013.10.14      End Date: 2013.10.15 Start Time: 23:15:00      End Time: 06:12:30	Capacity: 5000.00 psia Last Calib.: 2013.10.15 Time On Btm: 2013.10.15 @ 00:27:30 Time Off Btm: 2013.10.15 @ 04:45:00																																
<b>TEST COMMENT:</b> 1st Opening 30 Minutes Weak building blow built to 11 1/2 inches into the water (1/2 inch from the bottom) 1st Shut-In 60 Minutes-No blow back 2nd Opening 75 Minutes-Weak building blow built to the bottom of a 5 gallon bucket in 28 minutes 2nd Shut-In 90 Minutes-No blow back																																	
	<b>PRESSURE SUMMARY</b>																																
	Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation																													
	0	1494.31	91.53	Initial Hydro-static																													
	1	79.68	90.88	Open To Flow (1)																													
	32	112.30	93.72	Shut-In (1)																													
	93	795.47	98.14	End Shut-In (1)																													
	93	129.02	98.20	Open To Flow (2)																													
	168	148.80	101.85	Shut-In (2)																													
	256	701.99	102.78	End Shut-In (2)																													
	258	1467.60	102.50	Final Hydro-static																													
<b>Recovery</b>	<b>Gas Rates</b>																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Length (ft)</th> <th style="width:65%;">Description</th> <th style="width:20%;">Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>300 feet of gas in the pipe</td> <td>0.00</td> </tr> <tr> <td>50.00</td> <td>Oil and gas cut mud</td> <td>0.25</td> </tr> <tr> <td>0.00</td> <td>10%Gas 5%Oil 80%Mud 5%Water</td> <td>0.00</td> </tr> <tr> <td>58.00</td> <td>Heavy Oil and Gas Cut Mud</td> <td>0.29</td> </tr> <tr> <td>0.00</td> <td>10%Gas 35%Oil 45%Mud 10%Water</td> <td>0.00</td> </tr> <tr> <td>58.00</td> <td>Heavy Oil and Gas cut Mud</td> <td>0.73</td> </tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	0.00	300 feet of gas in the pipe	0.00	50.00	Oil and gas cut mud	0.25	0.00	10%Gas 5%Oil 80%Mud 5%Water	0.00	58.00	Heavy Oil and Gas Cut Mud	0.29	0.00	10%Gas 35%Oil 45%Mud 10%Water	0.00	58.00	Heavy Oil and Gas cut Mud	0.73	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:20%;">Choke (inches)</th> <th style="width:20%;">Pressure (psia)</th> <th style="width:30%;">Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)				
Length (ft)	Description	Volume (bbl)																															
0.00	300 feet of gas in the pipe	0.00																															
50.00	Oil and gas cut mud	0.25																															
0.00	10%Gas 5%Oil 80%Mud 5%Water	0.00																															
58.00	Heavy Oil and Gas Cut Mud	0.29																															
0.00	10%Gas 35%Oil 45%Mud 10%Water	0.00																															
58.00	Heavy Oil and Gas cut Mud	0.73																															
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)																														

Superior Testers Enterprises LLC

Ref. No: 17092

Printed: 2013.10.15 @ 06:39:12

**DST #3 LKC H - J 3147' - 3220'**

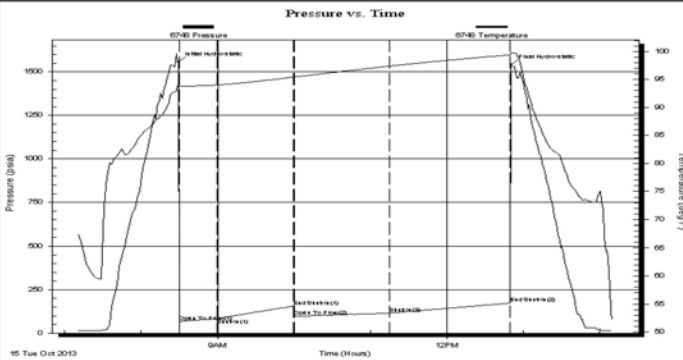
	<b>DRILL STEM TEST REPORT</b>		
Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b>  <b>Kasselman #8</b> Job Ticket: 17093 <b>DST#: 3</b> Test Start: 2013.10.15 @ 00:00:00		
<b>GENERAL INFORMATION:</b>			
Formation: <b>Kansas City "h-I &amp; J"</b> Deviated: No Whipstock:      ft (KB) Time Tool Opened: 00:00:00 Time Test Ended: 00:00:00	Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No: 3335		

Interval: 3147.00 ft (KB) To 3220.00 ft (KB) (TVD)  
 Total Depth: 3220.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6748 Outside**  
 Press@RunDepth: 172.60 psia @ 3216.61 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.15 End Date: 2013.10.15 Last Calib.: 2013.10.16  
 Start Time: 07:10:00 End Time: 14:10:00 Time On Btm: 2013.10.15 @ 08:29:30  
 Time Off Btm: 2013.10.15 @ 12:50:30

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to 4 inches into the water  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes-Weak steady 2 inch blow for 50 minutes then decreased and died after 65 minutes  
 2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1555.65	94.09	Initial Hydro-static
1	65.03	93.77	Open To Flow (1)
31	82.67	94.01	Shut-In(1)
91	155.88	95.42	End Shut-In(1)
91	98.14	95.42	Open To Flow (2)
166	115.78	97.38	Shut-In(2)
260	172.60	99.38	End Shut-In(2)
261	1541.67	99.74	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	Drilling Mud	0.34

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 17093 Printed: 2013.10.16 @ 02:13:44

### DST #4 ARBUCKLE 3258' - 3285'

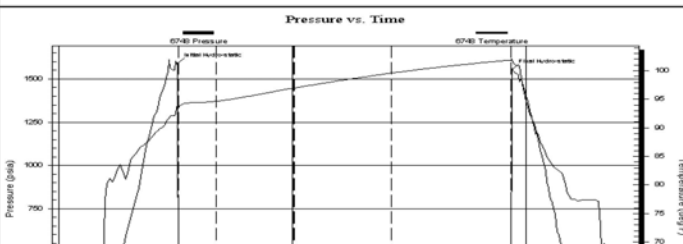


**DRILL STEM TEST REPORT**  
 Trans Pacific Oil Company **23-20s-11w Barton**  
 100 South Main Suite 200 **Kasselman #8**  
 Wichita, Kansas 67206-3735 Job Ticket: 17094 **DST#: 4**  
 ATTN: Jeff Lawler Test Start: 2013.10.16 @ 00:00:00

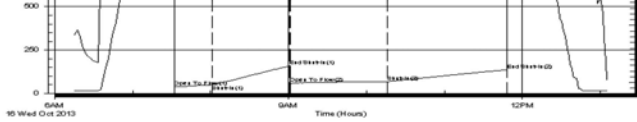
**GENERAL INFORMATION:**  
 Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 3335  
 Interval: **3258.00 ft (KB) To 3285.00 ft (KB) (TVD)** Reference Elevations: 1764.00 ft (KB)  
 Total Depth: 3285.00 ft (KB) (TVD) 1754.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 6748 Outside**  
 Press@RunDepth: 136.00 psia @ 3282.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.16 End Date: 2013.10.16 Last Calib.: 2013.10.17  
 Start Time: 06:15:00 End Time: 13:06:23 Time On Btm: 2013.10.16 @ 07:31:23  
 Time Off Btm: 2013.10.16 @ 11:48:53

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 2 1/2 inches into the water  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 75 Minutes Weak building blow built to the bottom of a 5 gallon bucket in 72 minutes  
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1591.34	93.85	Initial Hydro-static
1	38.05	93.46	Open To Flow (1)
30	49.04	94.67	Shut-In(1)
90	158.34	96.98	End Shut-In(1)
90	57.90	96.96	Open To Flow (2)
165	66.93	99.60	Shut-In(2)
257	136.00	101.88	End Shut-In(2)
258	1555.44	102.08	Final Hydro-static



**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
60.00	heavy oil and gas cut mud	0.30
0.00	30%Gas 20%Oil 50%Mud	0.00

**Gas Rates**

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

Superior Testers Enterprises LLC

Ref. No: 17094

Printed: 2013.10.17 @ 01:16:53

**ROCK TYPES**

Dolprim	Lmst fw7>	Carbon Sh	Shcol
Dolsec	shale, gry	shale, red	Ss

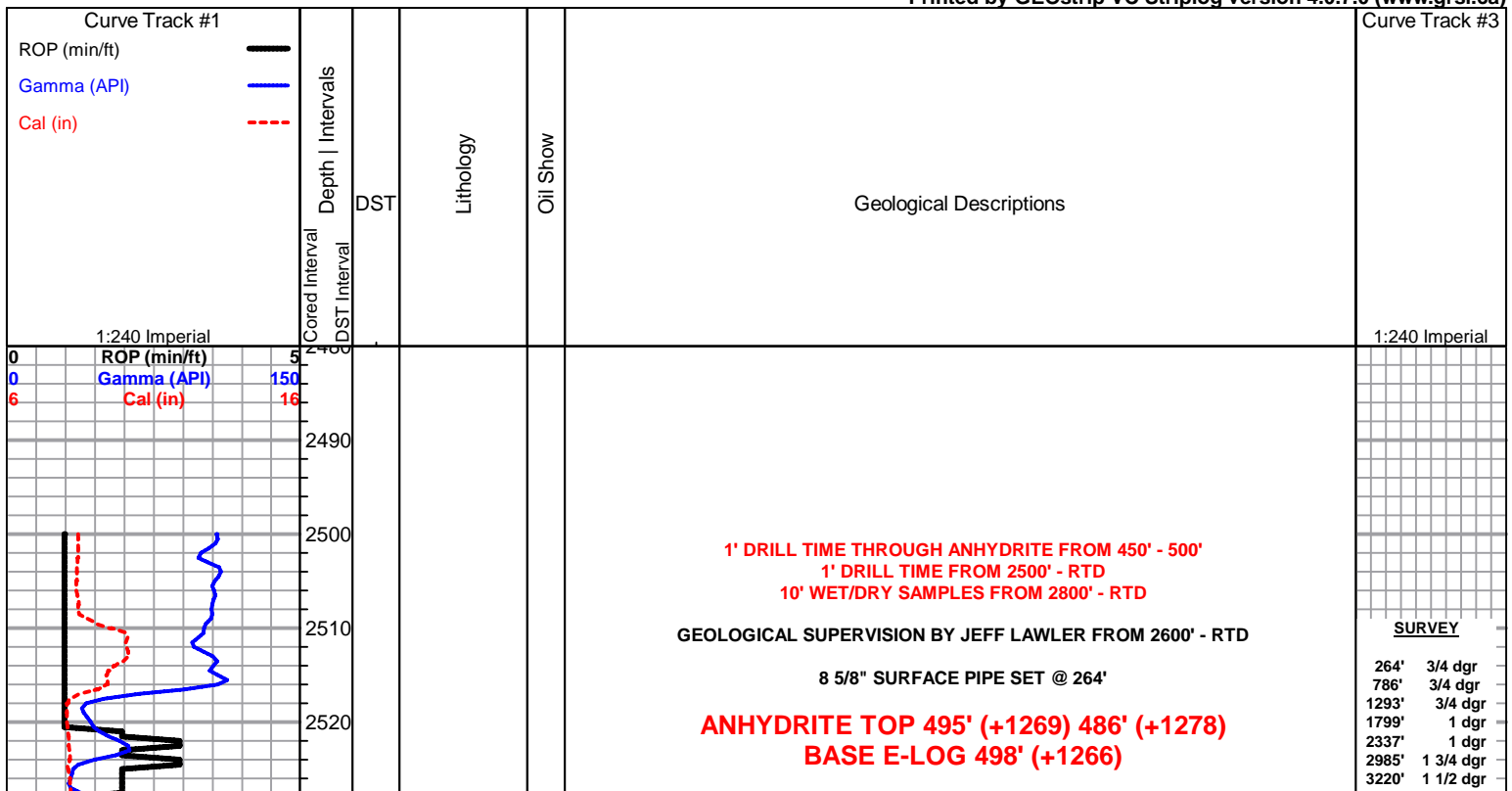
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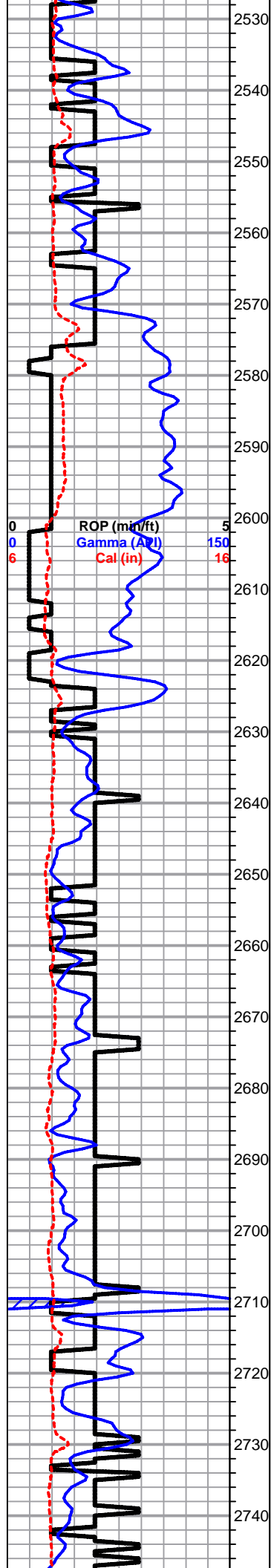
<b>FOSSIL</b>	<b>STRINGER</b>
◊ Oolite	red shale
⚙ Oomoldic	

**OTHER SYMBOLS**

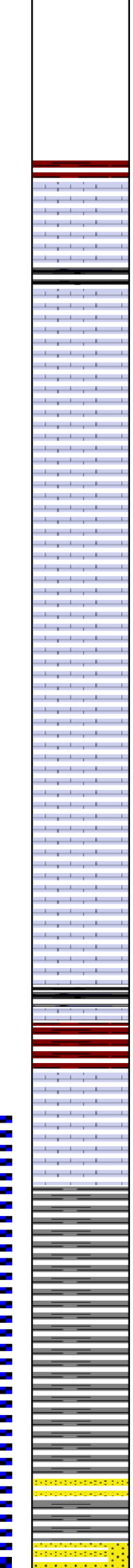
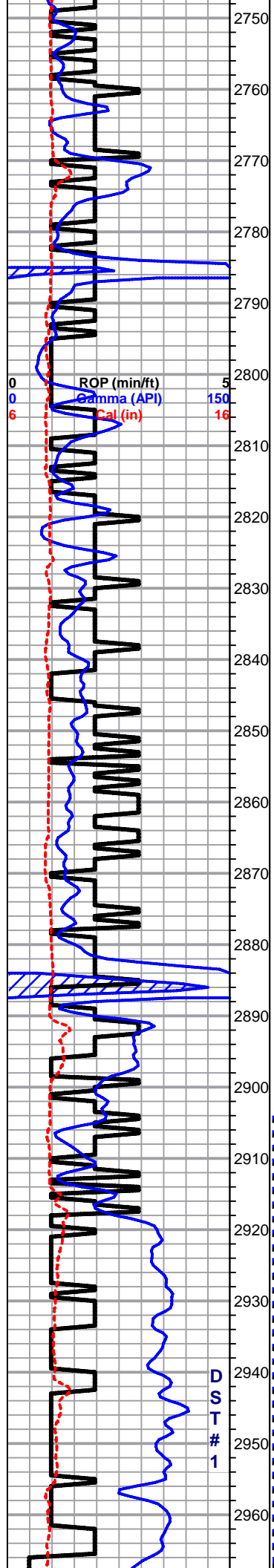
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Daily Report	DST Int
Digital Photo	DST alt
Document	
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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TOPEKA 2623' (-859) E-LOG 2619' (-855)



Lm- Cream Tan, VF-FXLN, dense, fsl & sl oolitic, poorly dev. w/ sctrd XLN porosity

Sh- Black Maroon Lt Gray, dense, well compacted, carbonaceous, gritty & earthy, soft limey, calcareous

Lm- Cream Tan, FXLN, dense, fsl & oolitic, poorly dev. w/ micro XLN & XLN porosity, few w/ sctrd secondary recrystallized XLN porosity, well cemented, barren

Lm- Cream Off White, FXLN, fsl, sl oolitic, poorly dev. w/ micro XLN & XLN porosity, few pcs gritty sl dolomitic ls w/ sctrd lt mottling, 1-2 PCS W/ WK SPOTTY STN, NSFO, NO ODR, VRY SL GSY SHEEN

Lm- White Off White, FXLN, well cemented, few sl chalky in part, fsl & oolitic, densely packed, XLN & sctrd vry fn ppt porosity, vry clean & barren

Lm- Cream Tan Off White, FXLN, dense, vry well cemented, massive cherty ls w/ reworked appearance, poor vis. porosity, barren

Lm- Cream Buff Off White, mix of Vf Grn, dense, mud supported matrix w/o vis. porosity & VF-FXLN, dense, well cemented, poorly dev. w/ minimal vis. porosity, all barren

Lm- Off White Cream, Vf Grn VFXLN, dense well cemented mix, all clean w/ minimal vis. porosity, barren

Lm- Buff Cream, FXLN, fsl, dense, well cemented, poorly dev. w/ micro XLN & XLN porosity, some w/ sl sctrd mottling, barren

Lm- Cream Off White, FXLN, fsl, dense, well cemented, mostly tight w/ minimal vis. & micro XLN porosity, barren

**HEEBNER 2885' (-1121) E-LOG 2882' (-1118)** Sh- Black Lt Gray, fissile, carbonaceous, soft, silty & calcareous

Sh- Maroon Lt Gray Lm Green, gritty & earthy, silty, calcareous

**TORONTO 2901' (-1137) E-LOG 2899' (-1135)** Lm- Cream Off White, FXLN, fsl, poorly dev., sl mottled, sctrd micro XLN porosity, few pcs w/ secondary recrystallized porosity, barren

Lm- White, VFXLN, dense, vry clean, mostly well cemented, chalky in part, some w/ recrystallization inclusions, poor vis. porosity, BLK DO STN, FLAKEY, NSFO, NO ODR

**DOUGLAS SHALE 2917' (-1153) E-LOG 2914' (-1150)** Sh- Maroon Brown Lt Gray, gritty & earthy, dense & blocky, soft, silty & calcareous

Sh- A/A w/ increasing amount of maroon

Sh- Lt Gray, soft, silty, calcareous, some micaceous, some sl sandy lime

Sh- Gray Maroon- gummy argillaceous clumps & wash

**DOUGLAS SAND 2964' (-1200) E-LOG 2956' (-1192)** Ss- Semi-Clear Frosted, Fn-Med Grn, mix of sl unconsolidated & chaly. mod. certed. skld w/ glauconite, sctrd intergranular porosity

SHORT TRIP  
SURVEY 1 3/4 dgr  
STRAP +0.44'

DST #1  
DOUGLAS SAND  
2905' - 2985'

mix of sh unconsolidated & shaley, mod. sorted, skld w/ glauconite, scrd intergranular porosity, & consolidated Med Grn, sorted, sub-angular, mod dev. clean, LT BRWN STN, NSFO, BRT YLW FLOR UNON CRUSH, SOME W/ STRM WET CUT, FR ODR, SL OIL SCUM ON TOP OF WET CUP

**40" SMPL-** Ss- Frosted, Fn Grn, consolidated & well sorted, sub-angular, lt skld w/ glauconite, constant intergranular porosity, SAT DRK STN, FR SFO, FR ODR, BRT YLW FLOR & STRM WET CUT, FR OIL SCUM ON WET CUP

Sh- Lt Gray, soft, silty, calcareous

**BROWN LIME 3011' (-1247) E-LOG 3010' (-1246)** Lm- Tan, FXLN, dense, well cemented, fsl, poorly dec. w/ XLN porosity, barren

Sh- Maroon Brown, gritty & earthy, dense & blocky

**LKC 3037' (-1273) E-LOG 3028' (-1264)** Lm- Cream Tan, FXLN, dense, mostly well cemented & tight, scrd micro XLN & XLN porosity, few pcs of dense mud supported matrix, chalky in part

Lm- Cream Off White, FXLN, dense, well cemented, fsl & poorly dev. scrd XLN porosity, some w/ scrd secondary recrystallization porosity, WK SPOTTY STN, NSFO, TR GSY SHEEN, NO ODR

Sh-Lt Gray, silty & calcareous, gummy lm green wash

Lm- Cream Off White, FXLN, dense, poorly dev. oolitic, well cemented, mostly tight w/ scrd XLN porosity, SCTRDR WK BLK STN, NSFO, FNT ODR

Lm- Buff Tan, FXLN, fsl & oolitic, sl dev. w/ scrd XLN & vry fn ppt interoolitic porosity, sl bioclastic, WK SPOTTY BLK STN, FLAKEY, SL GSY SHEEN, FNT ODR

Lm- Cream Off White, VFXLN, dense, sl cherty ls, vry well cemented, mostly tight w/ scrd micro XLN porosity, barren

Lm- Cream Tan, FXLN, sl fsl, massive, vry well cemented, poorly dev. w/ minimal vis. porosity, barren

Lm- Buff Tan, FXLN, densely packed oolites, poorly dev & vry well cemented, mostly tight w/ micro XLN & scrd XLN porosity, barren

Lm- Cream Off White, Vf Grn-FXLN, dense, poorly dev. oolitic, oolitic to chalky sl oolitic, poor vis. porosity, barren

Lm- Cream Tan, FXLN, dense, vry well cemented, oolitic / sl oomoldic w/ scrd vry partial skeletal dissolution, scrd XLN & fn ppt porosity, SCTRDR DRK BRWN STN, TR SFO, GSY SHEEN, STRNG SULPHURIC ODR, FR OIL SCUM ON WET CUP, some soft white chalk pcs

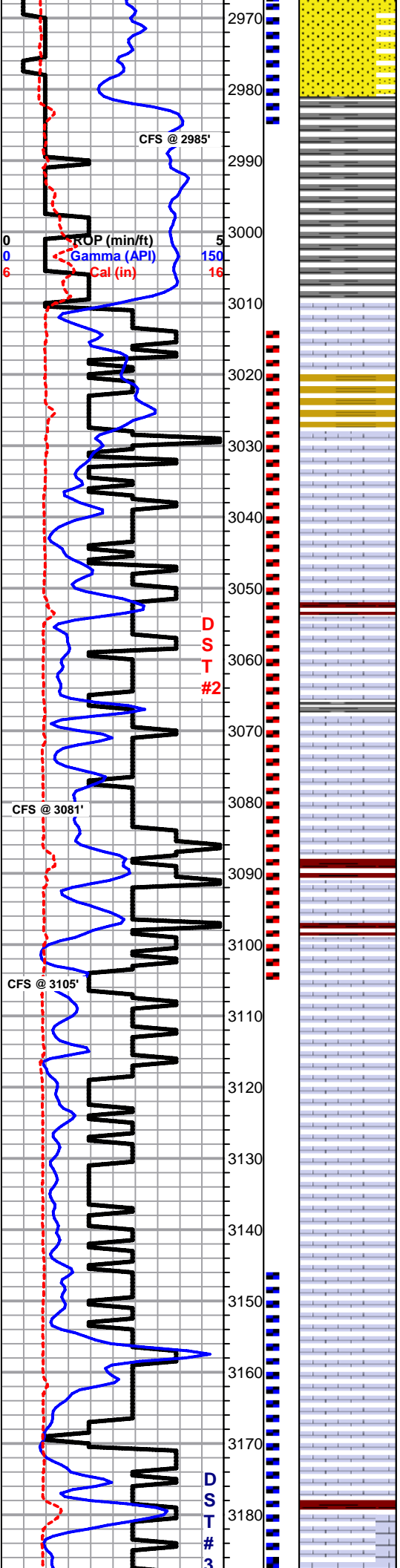
Lm- Cream Tan, Vf-Fn Grn, dense, loosely cemented, poorly dev. intergranular vis. porosity, chalky in part, barren

Sh- Black Maroon Lt Gray, fissile, soft, carbonaceous, silty, soft, & calcareous, gritty & earthy

Lm- Cream Off White, FXLN, fsl & oolitic/oomoldic, mod dev. w/ scrd fn ppt & scrd small vuggy porosity w/ recrystallization amongst vugs, partial skeletal dissolution, no intermoldic connectivity, SCTRDR LT BRWN STN, SFO, SOME W/ GSY BUBBLES, FR-GD ODR

Sh- Maroon Lm Green, dense & blocky

Lm- Tan, VFXLN, dense, sl gritty dolomitic ls, mostly tight w/ micro XLN & scrd vry fn ppt porosity, SCTRDR DRK STN, NSFO, FNT ODR



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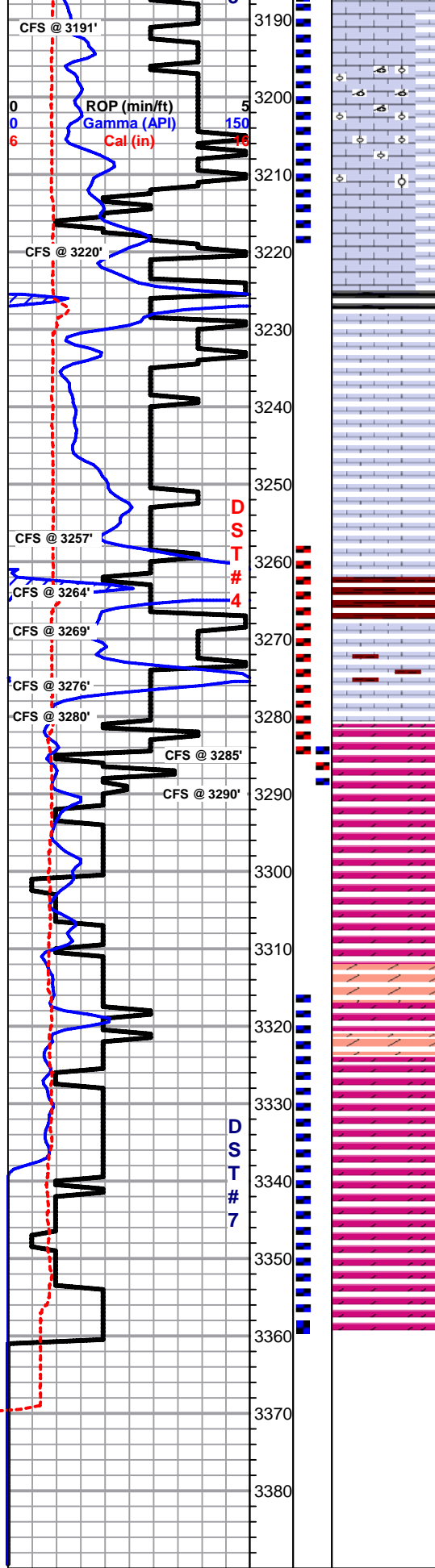
D  
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DST #2  
LKC A - F  
3015' - 3105'

SURVEY 1 1/2 dgr

DST #3  
LKC H-J  
3147' - 3220'





porosity, SCTRDRK STN, NSFO, FNT ODR

Lm- Cream Off White, FXLN, dense, fsl, well cemented, sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & oolitic w/ some sctrd oomoldic vugs, mod well dev., sctrd fn ppt porosity, well cemented, DRK BRWN STN, FR SFO, SOME GSY BUBBLES, GD-STRNG SULPHURIC ODR, transgressing into densely packed oolitic ls w/ minimal vis. porosity & oolitic biomicrite w/o vis porosity & barren

Lm- Cream Tan, FXLN, dense, vry well cemented, sctrd XLN porosity, TR LT STN, NO SFO, FNT-FR ODR

**STARK SHALE 3214: (-1450) E-LOG 3225' (-1461)** Sh- Black Maroon, silty, sl trashy, carbonaceous, gritty & earthy

Lm- Cream Off White, FXLN, dense, loosely cemented, sl chalky in part, sctrd-mostly consistant vry fn ppt & dense fenestral porosity, DRK STN, SL FLAKEY, NSFO, FR-STRNG ODR

Lm- Tan, VFXLN, dense, vry well cemented, sub-lighographic, no vis. porosity

Lm- Cream Off White, Vf-Fn Grn, dense mud supported matrix, no vis. porosity, barren, chalky in part

**BKC 3261' (-1497) E-LOG 3263' (-1499)** Sh- Maroon Lm Green Lt Gray, gritty & earthy, limey wash, silty & fsl, calcareous

Sh/Chert- limey calcareous, pebbly & fsl lm green & lt gray, some dense & blocky, waxy lm green, few pcs of salmon & translucent fresh bedded chert

**3276'** - Sh- gummy wsh & sl sandy lime Lm- Tan, trashy, sl fsl conglomerate ls, no vis. porosity

**3280'** - Lm- Tan, VFXLN, dense, vry well cemented, massive, vry tight, few pcs w/ micro XLN recrystallization porosity

**ARBUCKLE 3281' (-1517) E-LOG 3280' (-1516)** Dol- White Cream, VF-FXLN, dense, vry well cemented, sub-sucrosic, consistant XLN porosity, LT SCTRDRK STN, FEW GLOBULES OF FREE OIL, STRNG PUNGANT SULPHURIC ODR, much barren porosity

**3290'** - Dol- Cream Off White, VF-Med XLN, mix of vry dense cherty dolomite w/o vis. porosity, barren, FXLN A/A, some w/ barren porosity, some w/ STN A/A, & Med XLN, well dev. & sucrosic w/ consistant ppt porosity, LT BRWN STN, SL SFO, STRNG PUNGANT ODR

Dol- White Cream, F-Med XLN, mix of sub-sucrosic poorly dev. FXLN, vry well cemented & tight w/ micro XLN porosity, barren, & well dev. sucrosic med XLN w/ consistant ppt interXLN porosity, SCTRDRK STN, SL FLAKEY, NSFO, STRNG ODR

Dol/Chert- Cream Tan, VF-Med XLN, mod. dev. sub-sucrosic, tight w/o micro XLN - fnt ppt porosity, ALL W/ SCTRDRK TO SUB-SAT STN, FLAKEY GSY STN, STRNG ODR, few pcs of oolitic smokey white/white fresh bedded oolitic chert

Dol- Cream Tan, VFXLN, dense, vry well cemented, massive cherty dolomite, some sl unconsolidated w/ white siliceous cementation, mod well dev., few pcs w/ cavernous vuggy porosity, sl recrystallization w/in vugs, SCTRDRK TO SUB-SAT STN, FR-GD SFO, STRNG ODR

Dol- Cream Tan, Med-Crs XLN, well dev. w/ GD ppt porosity, euhedral rhombs, friable, sl sctrd white Cal. cementation, few pcs sl limey dolomite, few pcs of cherty dol. A/A transistioning into more dolomitic chert, ALL W/ SCTRDRK STN, PR-FR SFO, STRNG ODR

Dol- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. w/ micro XLN porosity, mostly barren

**RTD 3360' (-1596) LTD 3359' (-1595) @ 03:34 10/18/2013**

DST #5 ARB.jpg

DST #6 ARB.jpg

DST #7 ARB.jpg

**DST #4  
ARBUCKLE  
3258' - 3285'**

**DST #5  
ARBUCKLE  
3284' - 3290'**

**DST #6  
ARBUCKLE  
3285' - 3290'**

**DST #7  
ARBUCKLE  
3316' - 3359'**

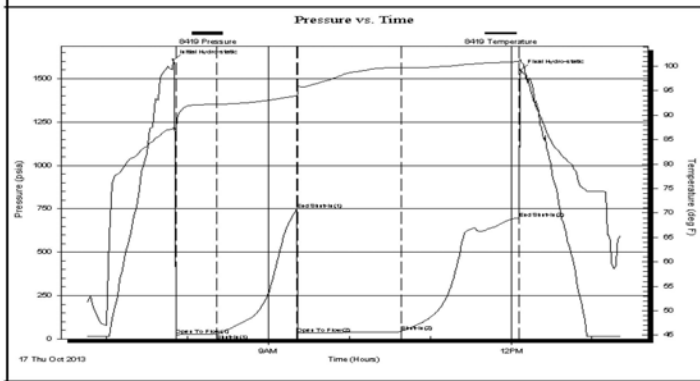
	<b>DRILL STEM TEST REPORT</b>	
	Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b> <b>Kasselman #8</b> Job Ticket: 17095 <b>DST#: 5</b> Test Start: 2013.10.17 @ 00:00:00

**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 00:00:00	Unit No: 3335
Time Test Ended: 00:00:00	Reference Elevations: 1764.00 ft (KB)
<b>Interval: 3284.00 ft (KB) To 3290.00 ft (KB) (TVD)</b>	1754.00 ft (CF)
Total Depth: 3290.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

<b>Serial #: 8419</b>	<b>Inside</b>	Capacity: 5000.00 psia
Press@RunDepth: 697.70 psia @ 3286.00 ft (KB)	2013.10.17	Last Calib.: 2013.10.17
Start Date: 2013.10.17	End Date:	Time On Btm: 2013.10.17 @ 07:49:30
Start Time: 06:45:00	End Time: 13:21:30	Time Off Btm: 2013.10.17 @ 12:07:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak building blow built to 5 inches into the water  
 1st Shut-In 60 Minutes-Weak blow back  
 2nd Opeing 75 Minutes- Weak building blow built to the bottom of a 5 gallon bucket in 50 minutes  
 2nd Shut-In 90 Minutes Wesk blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1608.84	87.33	Initial Hydro-static
2	22.82	86.98	Open To Flow (1)
32	28.65	92.26	Shut-In(1)
92	745.69	93.96	End Shut-In(1)
93	32.28	95.72	Open To Flow (2)
169	42.43	99.82	Shut-In(2)
257	697.70	101.00	End Shut-In(2)
258	1550.91	101.30	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	500 feet of gas in the pipe	0.00
55.00	Heavy oil and gas cut mud	0.27
0.00	5%Gas 55%Oil 40%Mud	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

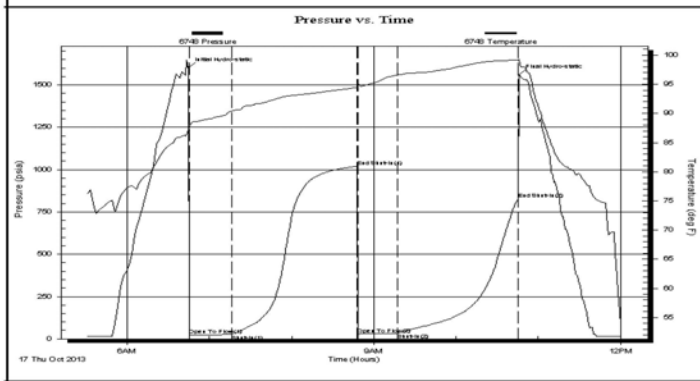
	<b>DRILL STEM TEST REPORT</b>	
	Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b> <b>Kasselman #8</b> Job Ticket: 17096 <b>DST#: 6</b> Test Start: 2013.10.17 @ 00:00:00

**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 00:00:00	Unit No: 3335
Time Test Ended: 00:00:00	Reference Elevations: 1764.00 ft (KB)
<b>Interval: 3285.00 ft (KB) To 3290.00 ft (KB) (TVD)</b>	1754.00 ft (CF)
Total Depth: 3290.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

<b>Serial #: 6748</b>	<b>Outside</b>	Capacity: 5000.00 psia
Press@RunDepth: 827.38 psia @ 3287.00 ft (KB)	2013.10.17	Last Calib.: 2013.10.18
Start Date: 2013.10.17	End Date: 2013.10.17	Time On Btm: 2013.10.17 @ 06:44:30
Start Time: 05:30:00	End Time: 12:01:00	Time Off Btm: 2013.10.17 @ 10:46:00

**TEST COMMENT:** 1st Opening 30 Minutes Very weak surface blow through out  
 1st Shut-In 90 Minutes -no blow back  
 2nd Opening 30 Minutes weabuilding blow built to 34 inches into the waterk  
 2nd Shut-In 90 Minutes no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1603.27	87.23	Initial Hydro-static
1	22.61	87.84	Open To Flow (1)
32	25.72	90.39	Shut-In(1)
123	1018.91	94.46	End Shut-In(1)
124	28.64	95.14	Open To Flow (2)
153	32.99	96.57	Shut-In(2)
242	827.38	99.16	End Shut-In(2)
242	1560.49	99.30	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	Gas in the pipe	0.44
15.00	Oil and gas cut mud	0.07
0.00	2%Gas 18%Oil 80%Mud	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

	<b>DRILL STEM TEST REPORT</b>	
	Trans Pacific Oil Company 100 South Main Suite 200 Wichita, Kansas 67206-3735 ATTN: Jeff Lawler	<b>23-20s-11w Barton</b> <b>Kasselman #8</b> Job Ticket: 18571 <b>DST#: 7</b> Test Start: 2013.10.18 @ 05:05:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 06:25:30  
 Time Test Ended: 12:07:30

**Interval: 3317.00 ft (KB) To 3360.00 ft (KB) (TVD)**  
 Total Depth: 3360.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-42

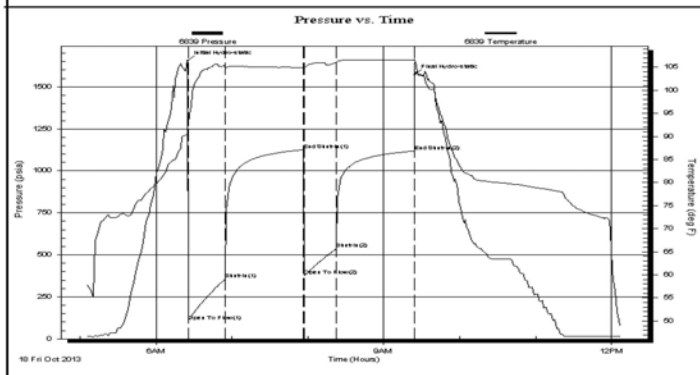
Reference Elevations: 1764.00 ft (KB)  
 1754.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6839      Outside**

Press@RunDepth: 535.97 psia @ 3357.00 ft (KB)  
 Start Date: 2013.10.18      End Date: 2013.10.18  
 Start Time: 05:05:00      End Time: 12:07:30

Capacity: 5000.00 psia  
 Last Calib.: 2013.10.19  
 Time On Btm: 2013.10.18 @ 06:25:00  
 Time Off Btm: 2013.10.18 @ 09:24:30

**TEST COMMENT:** 1st Open 30 minutes Strong blow blew off bottom bucket 2.5 minutes.  
 1st Shut in 60 minutes No blow back  
 2nd Open 30 minutes Strong blow built to the bottom of a 5 gallon bucket of water in 2.5 minutes.  
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1653.98	91.69	Initial Hydro-static
1	104.12	92.79	Open To Flow (1)
30	354.74	104.82	Shut-In(1)
92	1125.33	104.94	End Shut-In(1)
93	375.98	104.86	Open To Flow(2)
118	535.97	106.08	Shut-In(2)
179	1118.17	106.51	End Shut-In(2)
180	1572.89	106.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
427.00	Gassy oil cut mud	4.92
0.00	Oil 3 % Gas 20% Mud 77%	0.00
305.00	Gassy oil cut muddy water	4.28
0.00	Oil 2% Gas 10% Mud 43% Water 45%	0.00
427.00	Oil spotted gassy water	5.99
0.00	Gas 20% Water 80%	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



# ALLIED OIL & GAS SERVICES, LLC 054809

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell 145

DATE <u>10-19-13</u>	SEC <u>23</u>	TWP. <u>20</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 pm</u>
LEASE <u>Kasselman</u>		WELL# <u>8</u>	LOCATION <u>Great Bend KS 55 1346</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>new</u>					

CONTRACTOR <u>Pickrell Drilling #1</u>	OWNER _____
TYPE OF JOB <u>PTA</u>	CEMENT AMOUNT ORDERED <u>210 60/40 4/2 gel 1/4 #Flt</u>
COLE SIZE <u>7 7/8</u> T.D. <u>3360</u>	
CASING SIZE _____ DEPTH _____	
TUBING SIZE _____ DEPTH _____	
DRILL PIPE <u>4 1/2</u> <u>16.6</u> DEPTH <u>3260</u>	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>126</u> @ <u>17.90</u> <u>2255.40</u>
WEAS. LINE _____ SHOE JOINT _____	POZMIX <u>84</u> @ <u>9.35</u> <u>785.40</u>
CEMENT LEFT IN CSG. _____	GEL <u>7.22</u> @ <u>23.40</u> <u>168.95</u>
PERFS. _____	CHLORIDE @ _____
DISPLACEMENT _____	ASC @ _____
	<u>Flt seal 2 50"</u> @ <u>2.97</u> <u>148.50</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Glenn G</u>
	HELPER <u>Robert V</u>
BULK TRUCK	DRIVER <u>Woody O</u>
BULK TRUCK	DRIVER <u>Jos G</u>
BULK TRUCK	DRIVER _____

HANDLING <u>225.37</u> @ <u>2.48</u> <u>558.91</u>
MILEAGE <u>178,904</u> @ <u>2.60</u> <u>465.15</u>
TOTAL <u>4382.31</u>

REMARKS:

p1 50sk @ 3260

p2 25sk @ 490

p3 80sk @ 300

p4 10sk @ 40

30sk in Rathole

15sk in Maars hole

Thank you!!

CHARGE TO: Trans Pac

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB _____	<u>3260</u>
PUMP TRUCK CHARGE _____	<u>2600.47</u>
EXTRA FOOTAGE @ _____	
MILEAGE <u>19 HUNT</u> @ <u>7.70</u> <u>146.30</u>	
MANIFOLD @ _____	
<u>19 LUMI</u> @ <u>4.40</u> <u>83.60</u>	
TOTAL <u>2830.37</u>	

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.

PRINTED NAME Mike Kern

SIGNATURE [Signature]

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

TOTAL CHARGES 7212.68

DISCOUNT 1442.54 IF PAID IN 30 DAYS

net \$ 5770.14

***Trans Pacific Oil***  
***100 S. Main, Suite 200***  
***Wichita, Kansas 67202***

**Well:** Kasselman 8

**STR:** 23-20S-11W

**Cty:** Barton

**State:** Kansas

Log Tops:

Topeka	2619' (- 855) -14'
Heebner	2883' (-1119) -13'
Douglas Sand	2966' (-1202) -11'
Brown Lime	3010' (-1246) -10'
Lansing	3036' (-1272) -10'
Stark	3225' (-1461) -11'
BKC	3274' (-1510) -10'
Arbuckle	3277' (-1513) - 9'
RTD	3360' (-1596)

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



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 05, 2013

Glenna Lowe  
Trans Pacific Oil Corporation  
100 S MAIN STE 200  
WICHITA, KS 67202-3735

Re: ACO1  
API 15-009-25887-00-00  
KASSELMAN 8  
SW/4 Sec.23-20S-11W  
Barton County, Kansas

Dear Production Department:

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

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

Respectfully,  
Glenna Lowe