



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

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

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

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

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

Total 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**

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



1093720

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

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

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

Drill Stem Tests Taken <input 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Oil Producers Inc. of Kansas
Well Name	Hays 1-4
Doc ID	1093720

All Electric Logs Run

Dual Induction Log
Compensated Density/Neutron PE Log
Sonci Log
Geological Report

Form	ACO1 - Well Completion
Operator	Oil Producers Inc. of Kansas
Well Name	Hays 1-4
Doc ID	1093720

Tops

Name	Top	Datum
Heebner	4221	-1608
Lansing	4370	-1757
BKC	4983	-2370
Marmaton	5055	-2442
Cherokee	5251	-2638
Morrow Shale	5582	-2969
Morrow SS	5701	-3088
Miss Chester	5722	-3109
St. Gen	5993	-3380



PAGE	CUST NO	INVOICE DATE
1 of 1	1002993	01/30/2012
INVOICE NUMBER		
1717 - 90815387		

**Liberal** (620) 624-2277  
 B OIL PRODUCER'S INC OF KANSAS  
 I 1710 WATERFRONT PKWY  
 L WICHITA  
 L KS US 67206  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Hayes #1-4  
 O LOCATION  
 B COUNTY Seward  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40423743	37726		Net - 30 days	02/29/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 01/29/2012 to 01/29/2012</b>				
0040423743				
171702652A Cement-New Well Casing/Pi 01/29/2012				
8 5/8" Surface				
A-Con Blend	360.00	EA	13.95	5,022.00 T
Premium Plus Cement	150.00	EA	12.23	1,833.75 T
Calcium Chloride	1,299.00	EA	0.79	1,022.96 T
Celloflake	128.00	EA	2.78	355.20 T
C-51	68.00	EA	18.75	1,275.00 T
Guide Shoe - Regular - 8 5/8"	1.00	EA	285.00	285.00
Insert Float Valve - 8 5/8"	1.00	EA	210.00	210.00
Canvas Basket - 8 5/8"	1.00	EA	787.50	787.50
Top Rubber Cement Plug - 8 5/8"	1.00	EA	168.75	168.75
Heavy Equipment Mileage	30.00	MI	5.25	157.50
Blending & Mixing Service Charge	510.00	MI	1.05	535.50
Proppant and Bulk Delivery Charge	240.00	MI	1.20	288.00
Depth Charge; 1001' - 2000'	1.00	EA	1,125.00	1,125.00
Plug Container Utilization Charge	1.00	EA	187.50	187.50
Pickup Mileage	10.00	MI	3.19	31.88
Service Supervisor	1.00	HR	131.25	131.25
Cement Data Acquisition Monitor	1.00	EA	412.50	412.50

*Cement for 8 5/8" casing*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,829.29
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	717.92
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	14,547.21
DALLAS, TX 75284-1903	MIDLAND, TX 79702		









**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

### Cement Report

Customer <i>Oil Producers</i>	Lease No.	Date <i>1-29-12</i>
Lease <i>Harris Deep</i>	Well # <i>1-4</i>	Service Receipt
Casing <i>4 5/8</i>	Depth <i>1506</i>	County <i>Seward</i> State <i>KS</i>
Job Type <i>Surface</i>	Formation	Legal Description <i>4-34-31</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 5/8</i>	Tubing Size	Shots/Ft		Lead <i>360 ex A-con @ 11.4# 300 ccl 1/4# 1204 2.95 cut 1/4# 810 gal/sk</i>
Depth <i>1506</i>	Depth	From	To	Tail in <i>150 ex 11.4# @ 11.4# 290 ccl 1/4# 1204 6.33 gal/sk</i>
Volume <i>93.2</i>	Volume	From	To	
Max Press <i>1500</i>	Max Press	From	To	1.34 cut 1/4#
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>17:00</i>					<i>on loc spot truck R.U., Supt. Mtg</i>
<i>20:06</i>	<i>2500</i>				<i>Psi test</i>
<i>20:10</i>	<i>150</i>		<i>0</i>	<i>5</i>	<i>Start mixing A-con @ 11.4#</i>
<i>20:46</i>	<i>100</i>		<i>149</i>	<i>5</i>	<i>switch to tail @ 14.8#</i>
<i>20:53</i>	<i>0</i>		<i>36</i>	<i>-</i>	<i>Finished mixing. Drop Plug</i>
<i>20:54</i>	<i>0</i>		<i>0</i>	<i>5</i>	<i>start disp. washup on plug</i>
<i>21:16</i>	<i>280</i>		<i>70</i>	<i>1</i>	<i>slow Rate</i>
<i>21:36</i>	<i>300-1000</i>		<i>93</i>	<i>-</i>	<i>Plug Down</i>
<i>21:37</i>	<i>1000-0</i>				<i>Release Psi, Final hold</i>
					<i>Job Complete</i>
					<i>Thank You</i>
					<i>Chad + Crew</i>

Service Units	<i>19888</i>	<i>39223.37920</i>	<i>3416.337924</i>	<i>1987919566</i>
Driver Names	<i>C. Hinz</i>	<i>R. Cox</i>	<i>S. Chavez</i>	<i>V. Vazquez</i>

*Bob Casper* Customer Representative      *Jerry Bennett* Station Manager      *Chad Hinz* Cementer



## DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of KS**

1710 Waterfront PKWY  
Wichita KS 67206

ATTN: Brian McCoy/ Mac Arm

**Hayes # 1-4**

**4-34s-31w Seward,KS**

Start Date: 2012.02.02 @ 19:25:58

End Date: 2012.02.03 @ 06:24:13

Job Ticket #: 47453                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.15 @ 10:01:20





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 47453

**DST#: 1**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:58

Time Test Ended: 06:24:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 5074.00 ft (KB) To 5165.00 ft (KB) (TVD)**

Reference Elevations: 2613.00 ft (KB)

Total Depth: 5165.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: 636.64 psig @ 5075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.02

End Date: 2012.02.03

Last Calib.: 2012.02.03

Start Time: 19:26:03

End Time: 06:24:13

Time On Btm: 2012.02.02 @ 23:29:13

Time Off Btm: 2012.02.03 @ 02:35:13

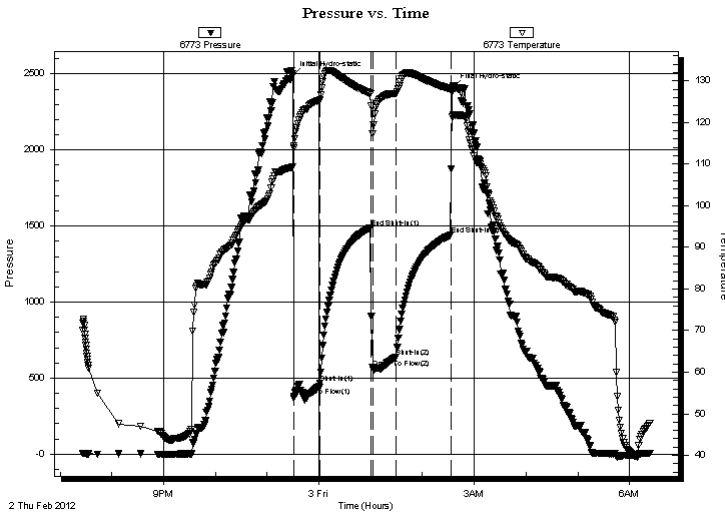
**TEST COMMENT:** IF: Strong blow BOB 1 min GTS 15 min [ see gas flow report ]

IS: Strong blow back

FF: Strong blow BOB 2 sec [ see gas flow report ]

FS: Strong blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.59	109.31	Initial Hydro-static
2	381.44	114.37	Open To Flow (1)
32	467.89	125.38	Shut-In(1)
91	1490.42	126.93	End Shut-In(1)
93	568.26	117.33	Open To Flow (2)
120	636.64	127.00	Shut-In(2)
184	1440.72	128.01	End Shut-In(2)
186	2413.10	121.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	5060' GIP	0.00
270.00	O,W,M,G 10%oil 10%w ater 20%mud 50%	1.33
450.00	W,O,G,M 5%w ater 10%oil 20%gas 65%	5.43
810.00	WATER 100%	11.36

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	4.00	124.12
Last Gas Rate	0.13	7.00	8.01
Max. Gas Rate	0.13	7.00	8.01



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 47453

**DST#: 1**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

## Tool Information

Drill Pipe:	Length: 4693.00 ft	Diameter: 3.80 inches	Volume: 65.83 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 367.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 67.63 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	5074.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5046.00	
Shut In Tool	5.00			5051.00	
Hydraulic tool	5.00			5056.00	
Jars	5.00			5061.00	
Safety Joint	3.00			5064.00	
Packer	5.00			5069.00	29.00 Bottom Of Top Packer
Packer	5.00			5074.00	
Stubb	1.00			5075.00	
Recorder	0.00	6773	Outside	5075.00	
Recorder	0.00	8676	Outside	5075.00	
Change Over Sub	0.50			5075.50	
Drill Pipe	63.00			5138.50	
Change Over Sub	0.50			5139.00	
Perforations	23.00			5162.00	
Bullnose	3.00			5165.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 120.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 47453

**DST#: 1**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5060' GIP	0.000
270.00	O,W,M,G 10%oil 10%water 20%mud 50%gas	1.328
450.00	W,O,G,M 5%water 10%oil 20%gas 65%mud	5.429
810.00	WATER 100%	11.362

Total Length: 1530.00 ft

Total Volume: 18.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 47453

**DST#: 1**

ATTN: Brian McCoy/ Mac Arm

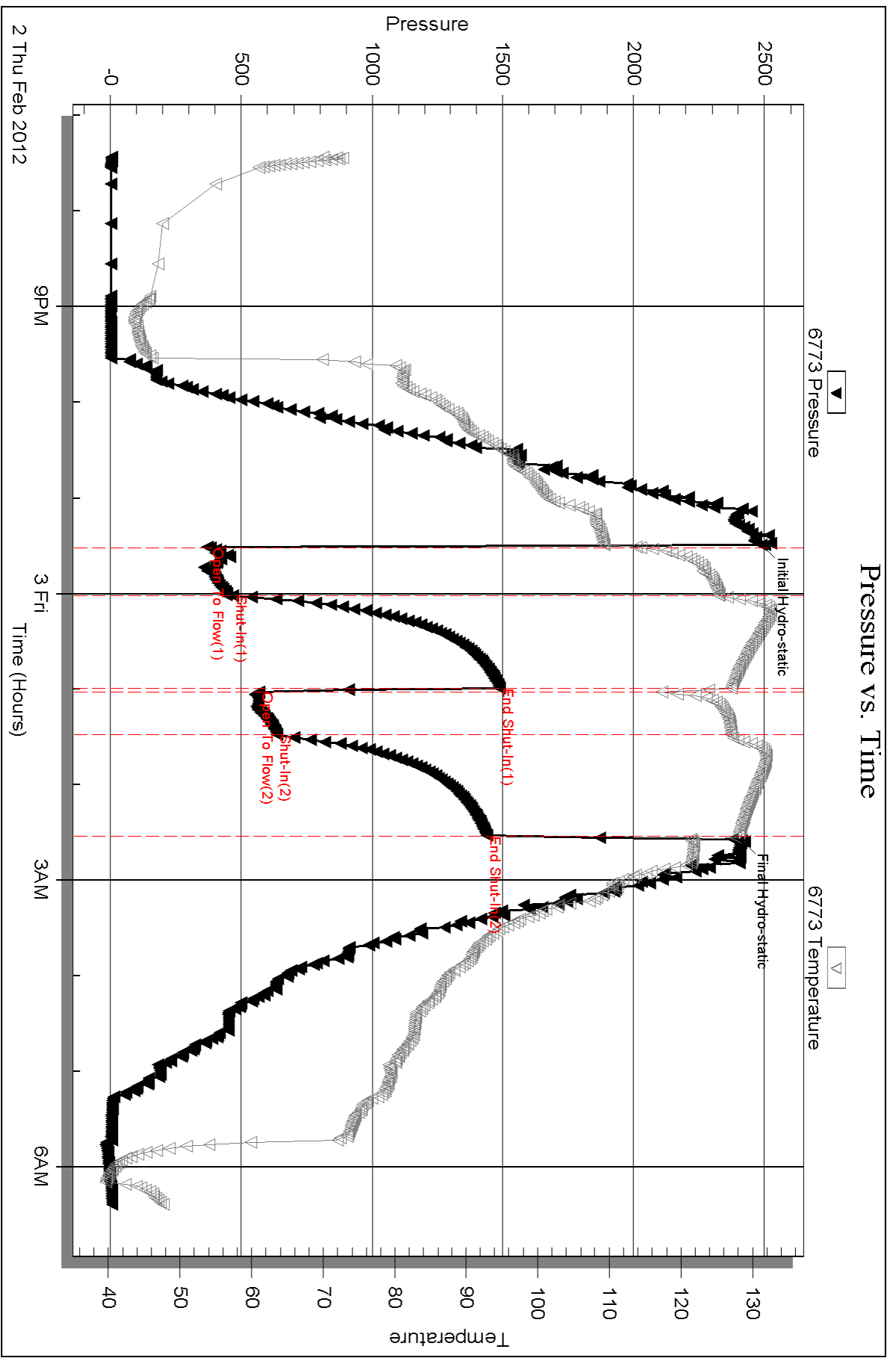
Test Start: 2012.02.02 @ 19:25:58

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.50	4.00	124.12
1	20	0.50	4.00	124.12
1	25	0.50	5.00	130.87
1	30	0.50	3.00	117.38
2	10	0.13	2.00	6.14
2	20	0.13	7.00	8.01





## DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of KS**

1710 Waterfront PKWY  
Wichita KS 67206

ATTN: Brian McCoy/ Mac Arm

**Hayes # 1-4**

**4-34s-31w Seward,KS**

Start Date: 2012.02.04 @ 09:00:00

End Date: 2012.02.04 @ 18:27:00

Job Ticket #: 41236                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.15 @ 10:00:32





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 41236

**DST#: 2**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.04 @ 09:00:00

## GENERAL INFORMATION:

Formation: **Morrow/Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:00

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 58

**Interval: 5665.00 ft (KB) To 5735.00 ft (KB) (TVD)**

Reference Elevations: 2613.00 ft (KB)

Total Depth: 5735.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6772 Outside**

Press @ Run Depth: 57.22 psig @ 5667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.04

End Date:

2012.02.04

Last Calib.:

2012.02.04

Start Time: 09:00:05

End Time:

18:27:00

Time On Btm:

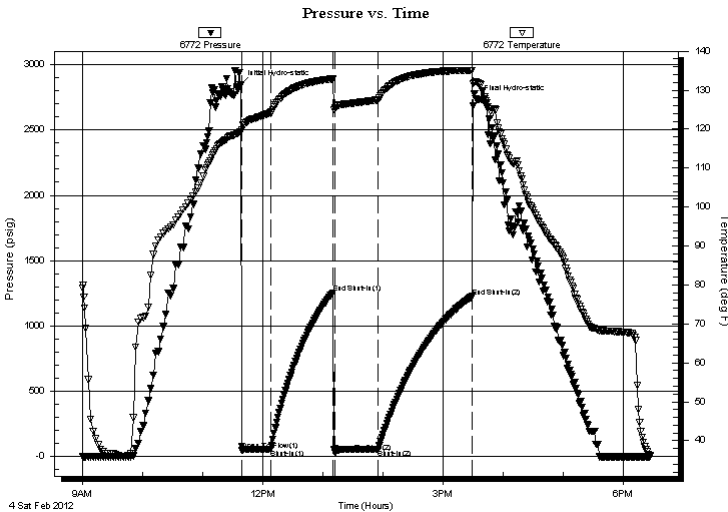
2012.02.04 @ 11:37:30

Time Off Btm:

2012.02.04 @ 15:33:45

**TEST COMMENT:** IF- Strong blow BOB ASAO, NO GTS.  
IS- No blow back.  
FF- Strong blow BOB, ASAO, GTS 1min, TSTM.  
FS- No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2843.04	119.37	Initial Hydro-static
2	50.61	119.92	Open To Flow (1)
30	55.79	124.06	Shut-In(1)
93	1255.08	132.88	End Shut-In(1)
95	36.30	125.45	Open To Flow (2)
138	57.22	127.49	Shut-In(2)
232	1224.32	135.05	End Shut-In(2)
237	2730.88	132.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	100% mud	0.91

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 41236

**DST#: 2**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.04 @ 09:00:00

## Tool Information

Drill Pipe:	Length: 5286.00 ft	Diameter: 3.80 inches	Volume: 74.15 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: 25000.00 lb
Drill Collar:	Length: 367.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 75.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	5665.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5639.00	
Shut In Tool	5.00			5644.00	
Hydraulic tool	5.00			5649.00	
Jars	5.00			5654.00	
Safety Joint	2.00			5656.00	
Packer	5.00			5661.00	27.00 Bottom Of Top Packer
Packer	4.00			5665.00	
Stubb	1.00			5666.00	
Perforations	1.00			5667.00	
Recorder	0.00	8355	Inside	5667.00	
Recorder	0.00	6772	Outside	5667.00	
Change Over Sub	1.00			5668.00	
Drill Pipe	62.00			5730.00	
Change Over Sub	1.00			5731.00	
Perforations	1.00			5732.00	
Bullnose	3.00			5735.00	70.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>97.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Oil Producers Inc of KS

**4-34s-31w Seward,KS**

1710 Waterfront PKWY  
Wichita KS 67206

**Hayes # 1-4**

Job Ticket: 41236

**DST#: 2**

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.04 @ 09:00:00

## 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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	100% mud	0.910

Total Length: 185.00 ft

Total Volume: 0.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

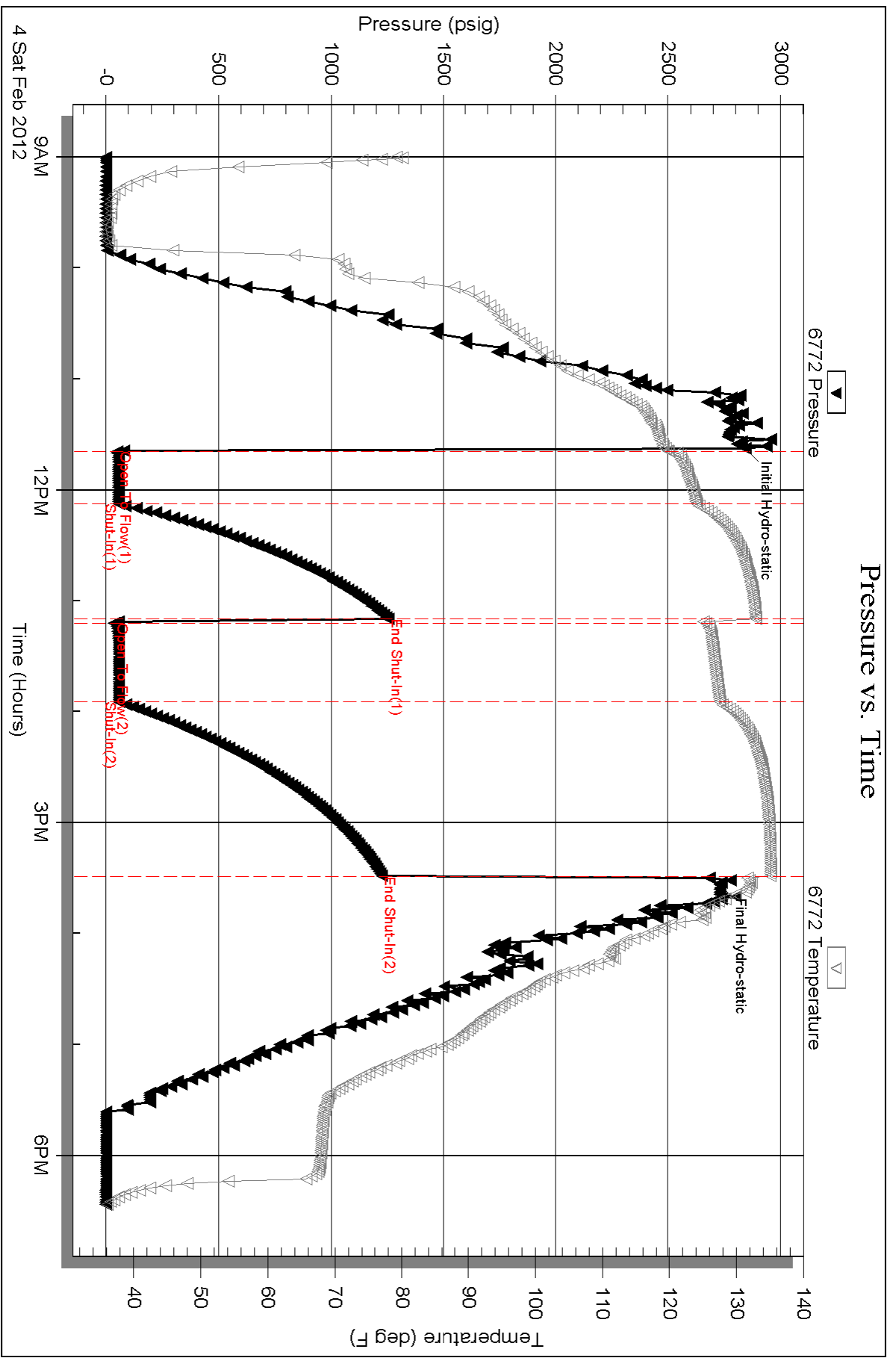
Recovery Comments:

Serial #: 6772

Outside Oil Producers Inc of KS

Hayes # 1-4

DST Test Number: 2



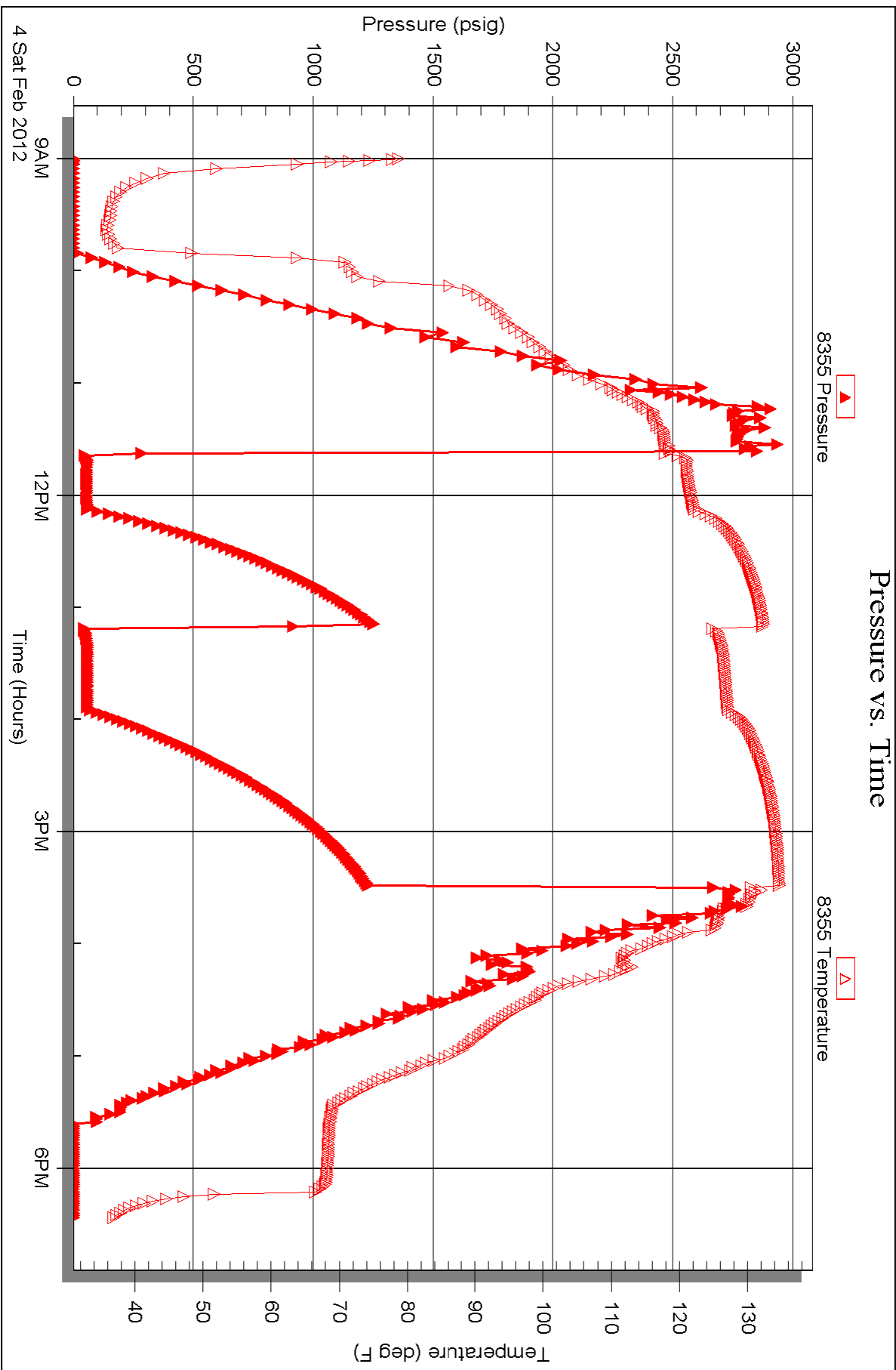
Serial #: 8355

Inside

Oil Producers Inc of KS

Hayes # 1-4

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 10 2012

## Test Ticket

NO. 47453

4/10

Well Name & No. Hayes #1-4 Test No. 1 Date 2-2-12  
 Company Oil Producers INC OF KS Elevation 2613 KB 2606 GL  
 Address 1710 waterfront PKWY Wichita KS 67206  
 Co. Rep / Geo. Brian McCoy / Mac Armstrong Rig Duke #6  
 Location: Sec. 4 Twp. 34S Rge. 31W Co. Seward State KS

Interval Tested 5074 - 5165 Zone Tested Marmaton  
 Anchor Length 91' Drill Pipe Run 4693 Mud Wt. 9.0  
 Top Packer Depth 5069 Drill Collars Run 367 Vis 57  
 Bottom Packer Depth 5074 Wt. Pipe Run 0 WL 8.4  
 Total Depth 5165 Chlorides 2800 ppm System LCM 9#

Blow Description IF: STRONG blow BOB 1min GTS 15min see gas flow report  
ISF: STRONG blow back  
FF: STRONG blow BOB 2 sec see gas flow report  
FSF: STRONG blow back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>5060' GTP</u>				
Rec <u>270'</u>	Feet of <u>O, W, M, G</u>	<u>50</u> %gas	<u>10</u> %oil	<u>10</u> %water	<u>20</u> %mud
Rec <u>450'</u>	Feet of <u>W, O, G, M</u>	<u>20</u> %gas	<u>10</u> %oil	<u>5</u> %water	<u>65</u> %mud
Rec <u>810</u>	Feet of <u>W</u>	%gas	%oil	<u>100</u> %water	%mud

Rec Total 1530' BHT 1250 Gravity ✓ API RW 47 @ 25 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic 2488  Test 1325' T-On Location 19:00  
 (B) First Initial Flow 381  Jars 250' T-Started 19:25  
 (C) First Final Flow 467  Safety Joint 75' T-Open 23:30  
 (D) Initial Shut-In 1490  Circ Sub \_\_\_\_\_ T-Pulled 2:35  
 (E) Second Initial Flow 568  Hourly Standby \_\_\_\_\_ T-Out 6:00  
 (F) Second Final Flow 636  Mileage 130RT 182' Comments \_\_\_\_\_  
 (G) Final Shut-In 1440  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2413  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1832'  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1832'

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

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





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 07 2012

## Test Ticket

NO. 041236

Well Name & No. Hayes 1-4 BY: \_\_\_\_\_ Test No. 2 Date 2-4-12  
 Company Oil Producers Inc. Elevation 2624 KB 2613 GL  
 Address 1710 Waterfront Pkwy Wichita KS 67206  
 Co. Rep / Geo. Mac Armstrong Rig Duke #6  
 Location: Sec. 4 Twp. 34 Rge. 31 Co. Seward State KS

Interval Tested 5665 5735 Zone Tested Morrow MISS  
 Anchor Length 70 Drill Pipe Run 5286 Mud Wt. 9.2  
 Top Packer Depth 5660 Drill Collars Run 367 Vis 58  
 Bottom Packer Depth 5665 Wt. Pipe Run 0 WL 8.4  
 Total Depth 5735 Chlorides 2800 ppm System LCM 8  
 Blow Description IF - Strong blow BOB ASAO No BTS.  
ZSI - No blow back  
FF - Strong blow BOB ASAO BTS 1min. TSTM  
FST No blow back

Rec	Feet of	%gas	%oil	%water	%mud
185'				100%	

Rec Total 185 BHT 2843 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic	<u>2843</u>	<input type="checkbox"/> Test	<u>1325</u> <u>11WS</u>	T-On Location	<u>400 Am</u>
(B) First Initial Flow	<u>51</u>	<input type="checkbox"/> Jars	<u>250</u>	T-Started	<u>900 Am</u>
(C) First Final Flow	<u>36</u>	<input type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1115 Am</u>
(D) Initial Shut-In	<u>1255</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>300 PM</u>
(E) Second Initial Flow	<u>36</u>	<input type="checkbox"/> Hourly Standby	<u>300</u>	T-Out	<u>600 PM</u>
(F) Second Final Flow	<u>57</u>	<input type="checkbox"/> Mileage	<u>130RT/182</u>	Comments	
(G) Final Shut-In	<u>1224</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2731</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	<u>350</u>
		<input type="checkbox"/> Shale Packer	<u>250</u>	<input type="checkbox"/> Ruined Packer	
Initial Open	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>350</u>
Final Flow	<u>45</u>	<input type="checkbox"/> Day Standby		Total	<u>2732</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>2382</u>		

Approved By Mac Armstrong Our Representative [Signature]

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