



KANSAS CORPORATION COMMISSION 1093720  
OIL & GAS CONSERVATION DIVISION

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 8061  
Name: Oil Producers Inc. of Kansas  
Address 1: 1710 WATERFRONT PKWY  
Address 2:  
City: WICHITA State: KS Zip: 67206 + 6603  
Contact Person: Brian McCoy  
Phone: ( 316 ) 681-0231  
CONTRACTOR: License # 34082  
Name: Alliance Well Service Inc.  
Wellsite Geologist: Macklin M. Armstrong  
Purchaser: N/A

Designate Type of Completion:

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

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

Operator:  
Well Name:  
Original Comp. Date:    Original Total Depth:  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW

Plug Back:    Plug Back Total Depth

Commingled    Permit #:

Dual Completion    Permit #:

SWD    Permit #:

ENHR    Permit #:

GSW    Permit #:

01/28/2012	02/06/2012	02/07/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-175-22196-00-00

Spot Description:  
NE SE Sec. 4 Twp. 34 S. R. 31  East  West  
1980 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Seward  
Lease Name: Hays Well #: 1-4  
Field Name: Arkalon  
Producing Formation: 0  
Elevation: Ground: 2560 Kelly Bushing: 2613  
Total Depth: 6100 Plug Back Total Depth:  
Amount of Surface Pipe Set and Cemented at: 1503 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: 47040 ppm Fluid volume: 420 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Oil Producers Inc. of Kansas  
Lease Name: Watson #2 License #: 8061  
Quarter SW Sec. 8 Twp. 29 S. R. 15  East  West  
County: Pratt Permit #: D24324

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garrison Date: 10/23/2012



1093720

Operator Name: Oil Producers Inc. of Kansas Lease Name: Hays Well #: 1-4
Sec. 4 Twp. 34 S. R. 31 East West County: Seward

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 (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run
Electric Log Submitted Electronically (If no, Submit Copy)
List All E. Logs Run: Attached
Log Formation (Top), Depth and Datum
Name Attached Top Attached Datum Attached

CASING RECORD
New Used
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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
Table with columns: Purpose (Perforate, Protect Casing, Plug Back TD, Plug Off Zone), Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives

PERFORATION RECORD - Bridge Plugs Set/Type
Specify Footage of Each Interval Perforated
Table with columns: Shots Per Foot, PERFORATION RECORD, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), 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

DISPOSITION OF GAS: Vented Sold Used on Lease (If vented, Submit ACO-18.)
METHOD OF COMPLETION: Open Hole Perf. Dually Comp. (Submit ACO-5) Commingled (Submit ACO-4) Other (Specify)
PRODUCTION INTERVAL:

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

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





**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 02652 A

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

DATE OF JOB 1-29-12 DISTRICT 1717		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER Oil Producers		LEASE Hayes 1-4 WELL NO.								
ADDRESS		COUNTY Seward STATE KS								
CITY STATE		SERVICE CREW Robert, S. Logan, Victor								
AUTHORIZED BY Tuce JRB		JOB TYPE: Sump Pump 747								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
194450	5.5									3:10
39775 37976	5.5									5:10
30463 37974	5.5									8:08
19427 19566	5.5									9:36
										11:30
										10

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
PL10	Acorn Blank	SK	360		663.96 02
PL110	Pennant Plus	SK	150		2445 02
PC109	Calcium Chloride	lb	1799		1363.95
PC102	CollaClack	lb	125		473.60
PE253	Grade Blue Reg. 55k	EA	1		380 02
PE1453	Flapper Float Valves	EA	1		280 02
PE4556	Conduit Basket	EA	1		1050 02
PE105	Top Plug	EA	1		225 02
E101	Henry Equip Mileage	mi	30		210 02
E240	Blowdown & Mixing Plug	SK	510		714 02
E115	Bulk Delivery Plug	TM	240		384 02
CE267	Depth Change 1000 to 2000	4hr	1		1500 02
CE504	Plug Connector	Sub	1		250 02
E100	Pick up Mileage	mi	110		42 50
SC05	Service Supervisor	EA	1		175 02
T105	Data Acq. Mileage	EA	1		550 02
PC130	C-51	lb	68		1700 02

SUB TOTAL 13029.29

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.



**BASIC**  
ENERGY SERVICES  
Liberal, Kansas

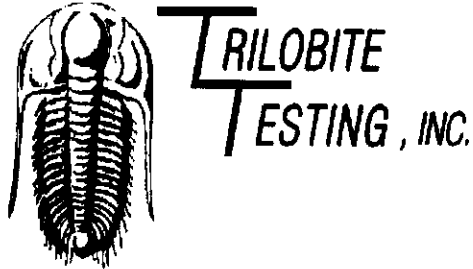
### Cement Report

Customer <u>Oil Producers</u>		Lease No.		Date <u>1-29-12</u>	
Lease <u>Harris Reef</u>		Well # <u>1-4</u>		Service Receipt	
Casing <u>4 5/8</u>	Depth <u>1506</u>	County <u>Seaward</u>		State <u>KS</u>	
Job Type <u>Gun Case</u>		Formation		Legal Description <u>4-34-31</u>	
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>
Casing size <u>4 5/8</u>	Tubing Size	<b>Shots/Ft</b>		Lead <u>360 ex A-100</u>	
Depth <u>1506</u>	Depth	From	To	211.4# 37.2 gal/100'	
Volume <u>93.7</u>	Volume	From	To	2.95 cut 100'	
Max Press <u>1500</u>	Max Press	From	To	810 gal/100'	
Well Connection <u>P.C.</u>	Annulus Vol.	From	To	Tail in <u>150 ex main</u>	
Plug Depth	Packer Depth	From	To	211.5# 29.0 gal/100'	
				14# 701-1 6.5 gal/100'	
				1.34 cut 100'	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
17:00					on loc spot truck P.U., Sept 10/12
20:06	2500				psi test
20:10	150		0	5	Start mixing A-100 @ 11.4 #
20:45	100		149	5	switch to tail @ 14.5 #
20:55	0		36	-	Finished mixing, Drop Plug
20:56	0		0	5	start disp. washup in plug
21:16	280		70	1	slow Retd
21:36	300 (100)		93	-	Plug Down
21:37	1000-0				Release Psi, Fluid Held
					Job Complete
					Thank You
					Chuck + Crew
Service Units	19958	372357720	2116337724	1452919566	
Driver Names	P. Hill	R. Col	S. Chouff	V. Vargoff	

Bob Company  
Customer Representative

James Bennett  
Station Manager

Chuck Hill  
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

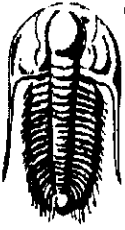
PO Box 362 Hays, KS 67601

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

Printed: 2012.02.15 @ 10:01:20

Oil Producers Inc of KS  
4-34s-31w Seward,KS  
Hayes # 1-4  
DST # 1  
Marmaton  
2012.02.02





**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:

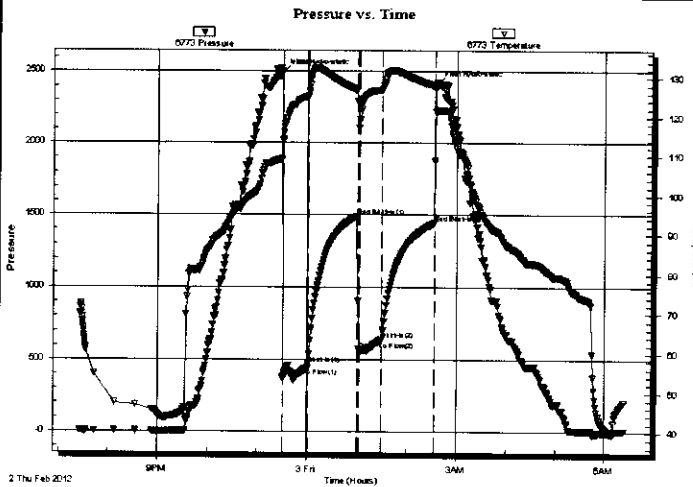
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:30:58  
 Time Test Ended: 06:24:13  
 Interval: **5074.00 ft (KB) To 5165.00 ft (KB) (TVD)**  
 Total Depth: 5165.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hble (Initial)  
 Tester: Chris Staats  
 Unit No: 47  
 Reference Elevations: 2613.00 ft (KB)  
 2606.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6773

**Outside**

Press@RunDepth: 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

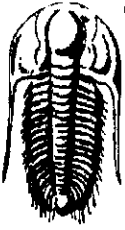
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.59	109.31	Initial Hydro-static
2	381.44	114.37	Open To Flow (1)
32	467.89	125.38	Shut-In(1)
91	1490.42	126.93	End Shut-In(1)
93	568.26	117.33	Open To Flow (2)
120	636.64	127.00	Shut-In(2)
184	1440.72	128.01	End Shut-In(2)
186	2413.10	121.52	Final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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	5060' GIP	0.00
270.00	O,W,M,G 10%oil 10%water 20%mud 50%	1.33
450.00	W,O,G,M 5%water 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

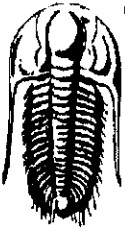
### Tool Information

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	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:

bbl

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

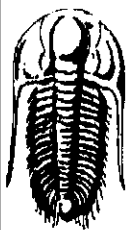
Num Gas Bombs: 0

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

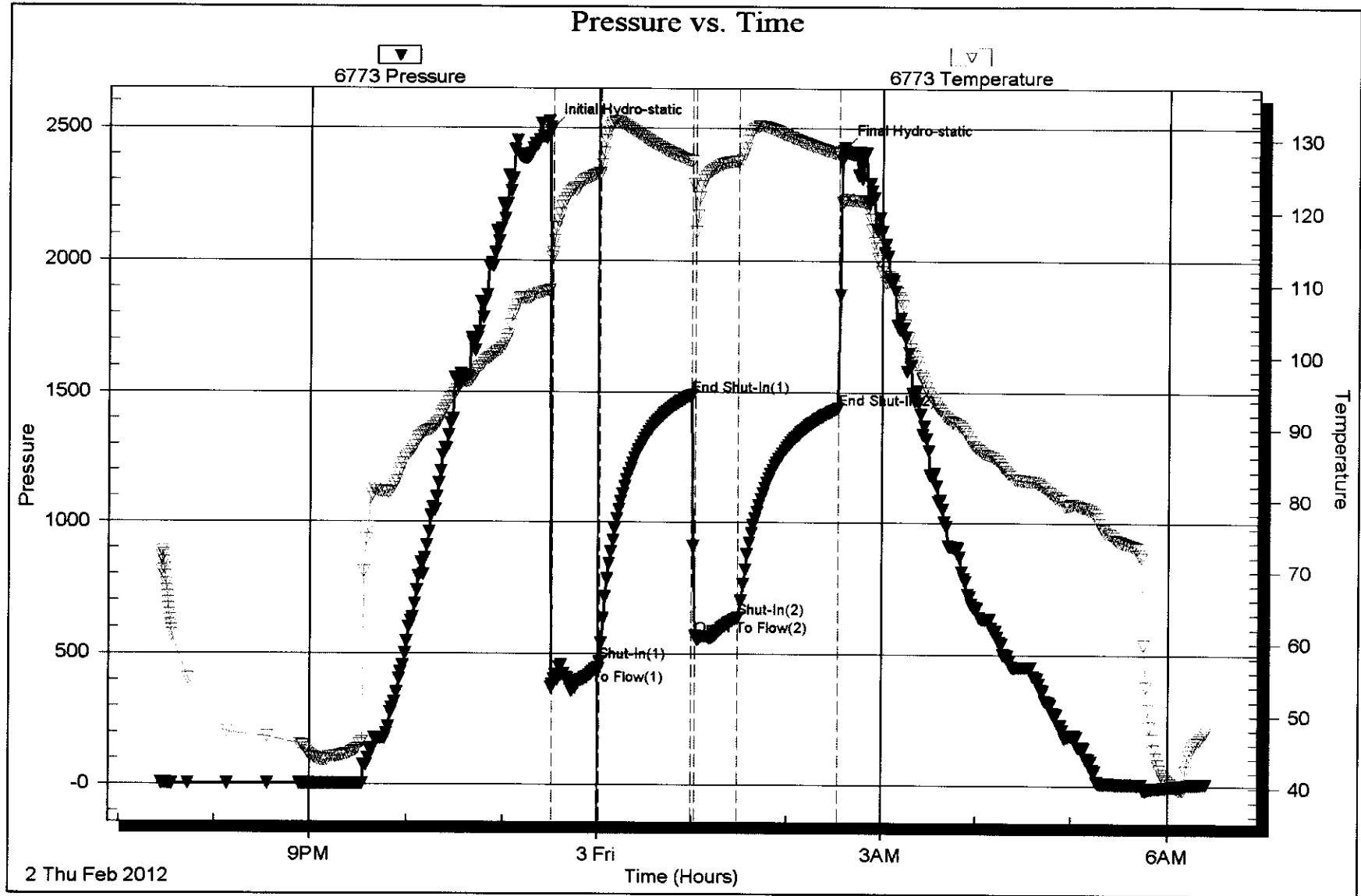
Temperature: 59 (deg F)

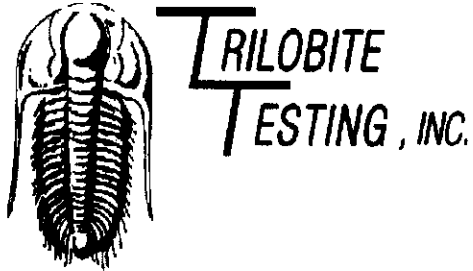
Relative Density: 0.65

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

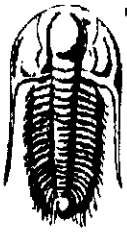
Job Ticket #: 41236                      DST #: 2

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@RunDepth: 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

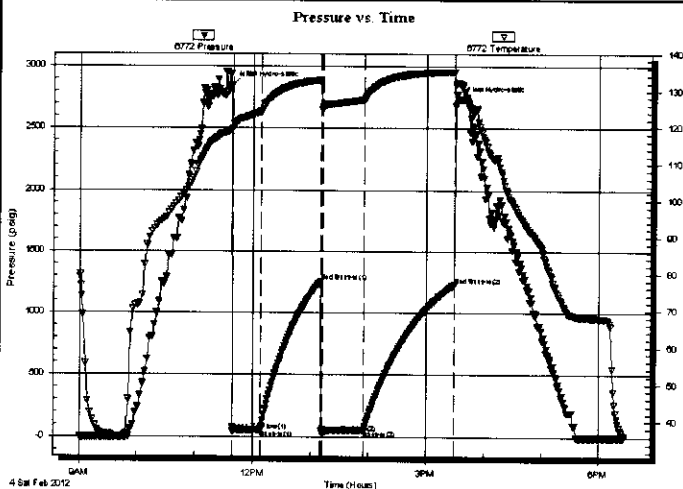
Start Time: 09:00:05

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

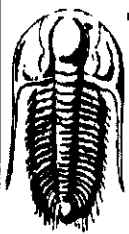
Length (ft)	Description	Volume (bbl)
185.00	100% mud	0.91

### 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

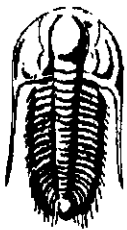
### Tool Information

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
		Total Volume: 75.95 bbl		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:

bbf

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 bbf
185.00	100% mud	0.910

Total Length: 185.00 ft

Total Volume: 0.910 bbf

Num Fluid Samples: 0

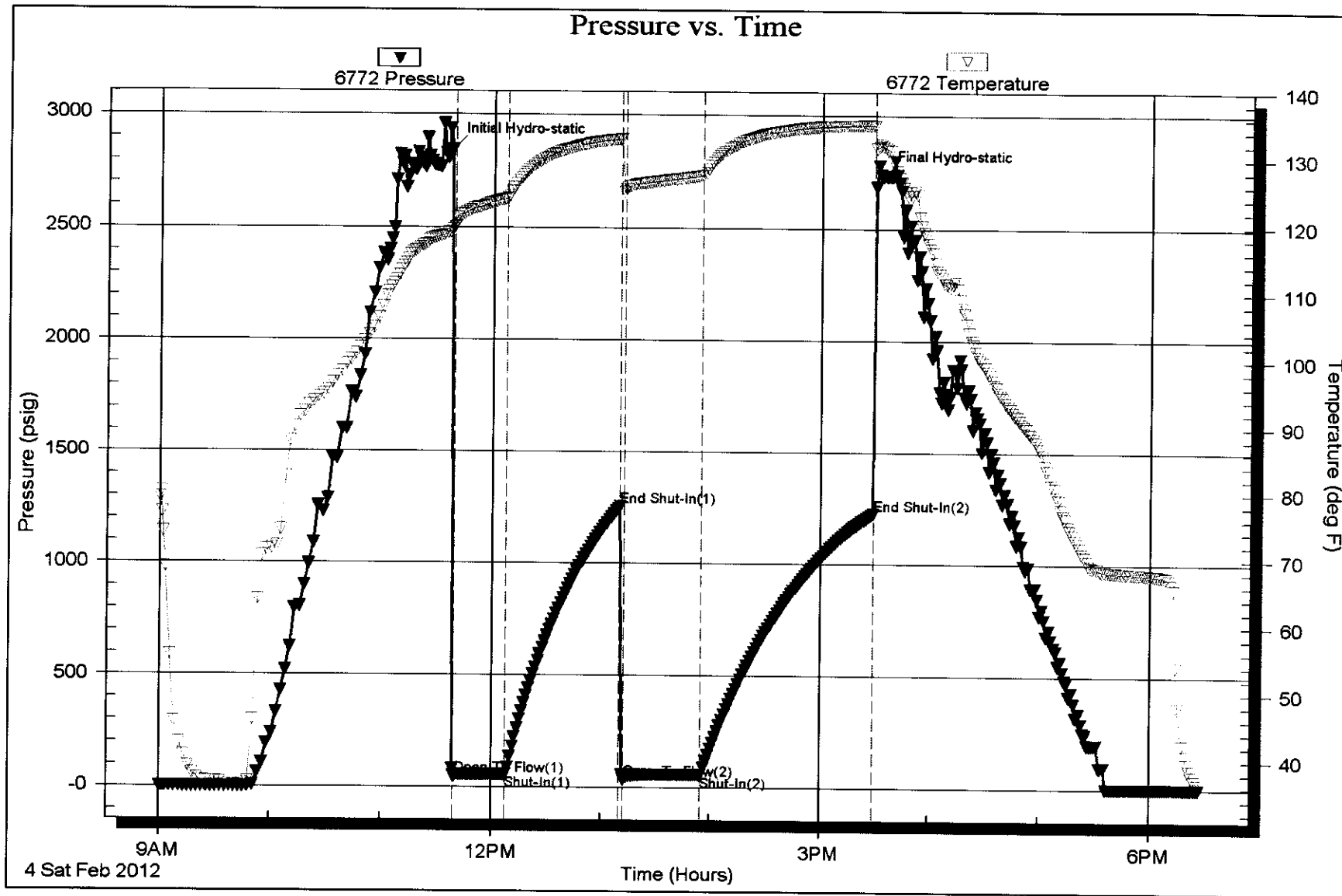
Num Gas Bombs: 0

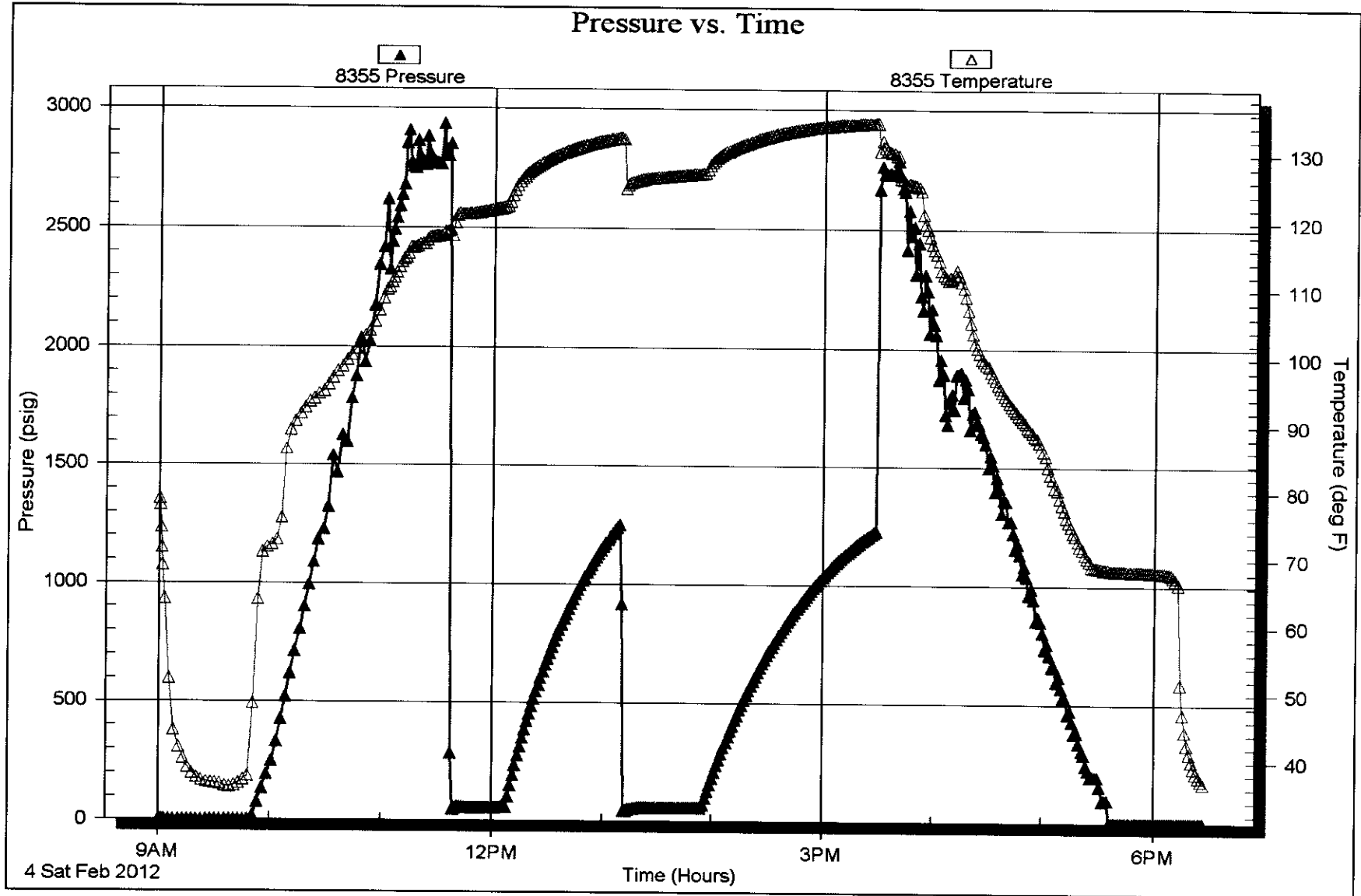
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

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## Test Ticket

NO. 47453

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 469.3 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 1/min 6TS 15min see gas flow report  
ISI: STRONG blow back  
FF: STRONG blow BOB 2 sec see gas flow report  
FSI: 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 12.5° 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 1.82' Comments \_\_\_\_\_  
 (G) Final Shut-In 1440  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2413  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 8  
 Day Standby \_\_\_\_\_ Total 1832'  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 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.



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## 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  
FSI No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>185'</u>				<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 185 BHT 2843 Gravity 1325 API RW 11.25 @ 11.25 °F Chlorides 2800 ppm

(A) Initial Hydrostatic 2843  Test 1325 T-On Location 400 Am  
 (B) First Initial Flow 51  Jars 250 T-Started 900 Am  
 (C) First Final Flow 36  Safety Joint 75 T-Open 1115 Am  
 (D) Initial Shut-In 1255  Circ Sub \_\_\_\_\_ T-Pulled 300 PM  
 (E) Second Initial Flow 36  Hourly Standby 300 T-Out 600 PM  
 (F) Second Final Flow 57  Mileage 120 RT 182 Comments \_\_\_\_\_  
 (G) Final Shut-In 1224  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2731  Straddle \_\_\_\_\_  Ruined Shale Packer 350  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 350  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 2732  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 90 Sub Total 2362

Approved By Marklin M. Armstrong Our Representative [Signature]

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