



KANSAS CORPORATION COMMISSION 1085040  
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 # \_\_\_\_\_

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: \_\_\_\_\_



1085040

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
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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	Ernst, Fred A.
Well Name	Witt 3
Doc ID	1085040

Tops

Name	Top	Datum
Anhydrite	1752	1783
Topeka	3155	
Heebner	3356	
Toronto	3378	
Lansing	3394	3589
Reagan Sand	3634	
Granite	3662	
TD		3667



## DRILL STEM TEST REPORT

Prepared For: **Fred A Ernst Oil Co**

1104 N Main St  
Russell KS 67665

ATTN: Richard Bell

**Witt #3**

**3-6s-20w Rooks,KS**

Start Date: 2012.05.22 @ 21:35:00

End Date: 2012.05.23 @ 04:05:00

Job Ticket #: 47296                      DST #: 1

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

Printed: 2012.05.24 @ 08:46:41

Fred A Ernst Oil Co  
3-6s-20w Rooks,KS  
Witt #3  
DST # 1  
LKC " H & I "  
2012.05.22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Fred A Ernst Oil Co  
 1104 N Main St  
 Russell KS 67665  
 ATTN: Richard Bell

**3-6s-20w Rooks,KS**

**Witt #3**

Job Ticket: 47296

**DST#: 1**

Test Start: 2012.05.22 @ 21:35:00

## GENERAL INFORMATION:

Formation: **LKC "H & I"**

Deviated: No Whipstock: 2161.00 ft (KB)

Time Tool Opened: 00:00:45

Time Test Ended: 04:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

**Interval: 3494.00 ft (KB) To 3540.00 ft (KB) (TVD)**

Total Depth: 3540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2161.00 ft (KB)

2156.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Inside**

Press @ Run Depth: 21.34 psig @ 3505.00 ft (KB)

Start Date: 2012.05.22

End Date: 2012.05.23

Start Time: 21:35:02

End Time: 04:04:30

Capacity: 8000.00 psig

Last Calib.: 2012.05.23

Time On Btm: 2012.05.23 @ 00:00:30

Time Off Btm: 2012.05.23 @ 02:00:45

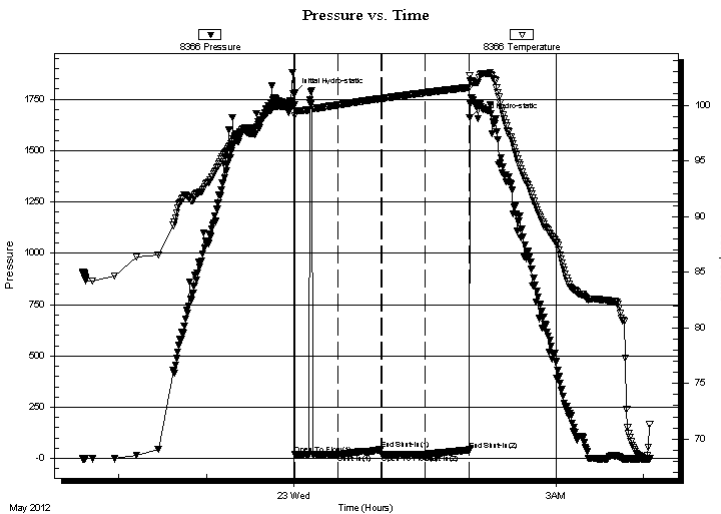
**TEST COMMENT:** 30-IFP- Good Surge No Return Flushed at 10 min Surface Blow Died in 4 min

30-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.34	100.02	Initial Hydro-static
1	18.92	99.08	Open To Flow (1)
30	21.34	100.02	Shut-In(1)
60	44.86	100.61	End Shut-In(1)
60	21.02	100.60	Open To Flow (2)
90	21.34	101.12	Shut-In(2)
120	42.22	101.59	End Shut-In(2)
121	1662.64	102.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fred A Ernst Oil Co

**3-6s-20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47296

**DST#: 1**

ATTN: Richard Bell

Test Start: 2012.05.22 @ 21:35:00

## Tool Information

Drill Pipe:	Length: 3459.00 ft	Diameter: 3.80 inches	Volume: 48.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3494.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 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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Change Over Sub	1.00			3467.00	
Shut In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Jars	5.00			3482.00	
Safety Joint	2.00			3484.00	
Packer	5.00			3489.00	28.00 Bottom Of Top Packer
Packer	5.00			3494.00	
Stubb	1.00			3495.00	
Perforations	9.00			3504.00	
Change Over Sub	1.00			3505.00	
Recorder	0.00	8366	Inside	3505.00	
Recorder	0.00	8289	Outside	3505.00	
Blank Spacing	31.00			3536.00	
Change Over Sub	1.00			3537.00	
Bullnose	3.00			3540.00	46.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Fred A Ernst Oil Co

**3-6s-20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47296

**DST#: 1**

ATTN: Richard Bell

Test Start: 2012.05.22 @ 21:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



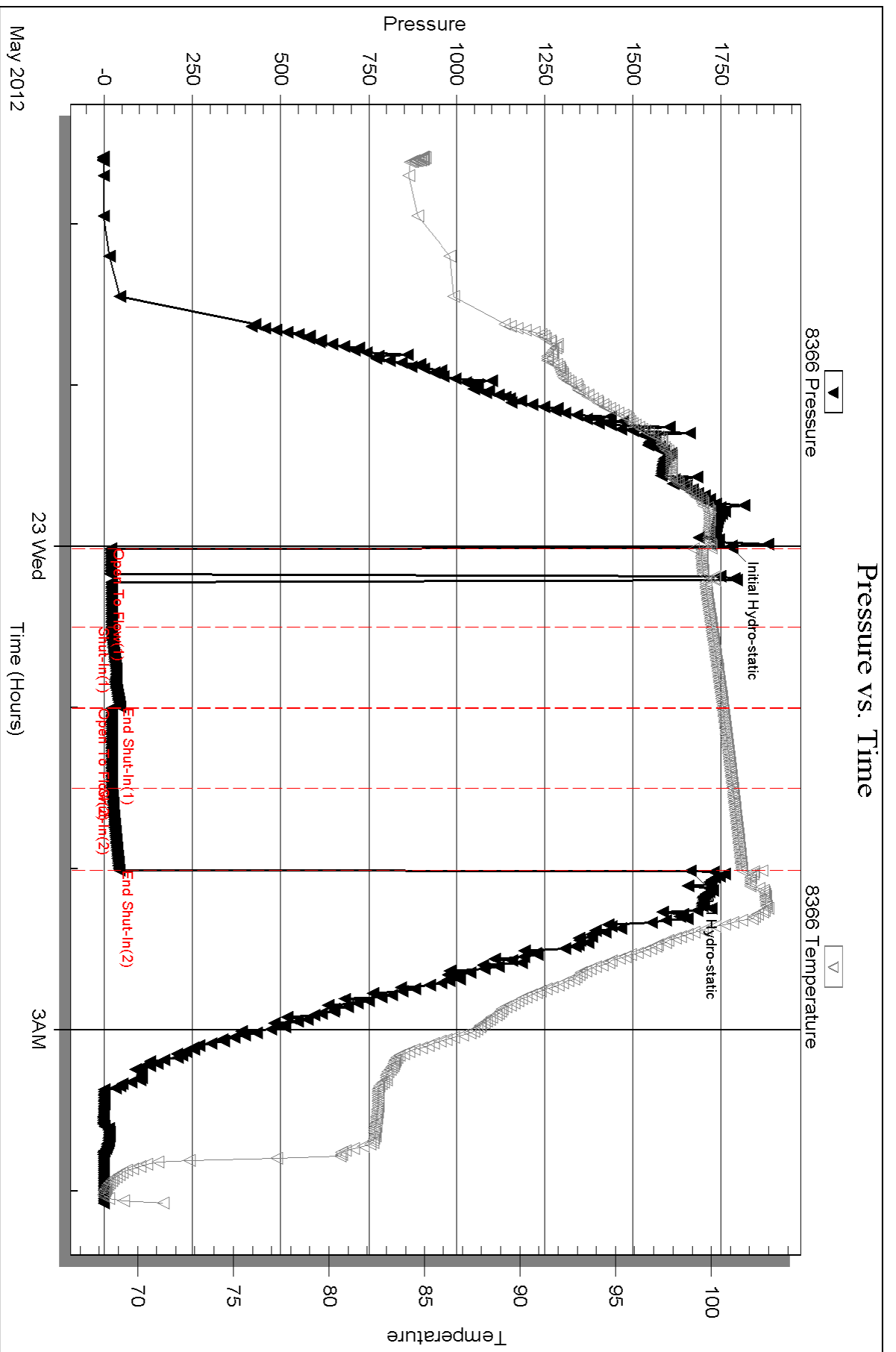
Serial #: 8366

Inside

Fred A Ernst Oil Co

Well #3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47296

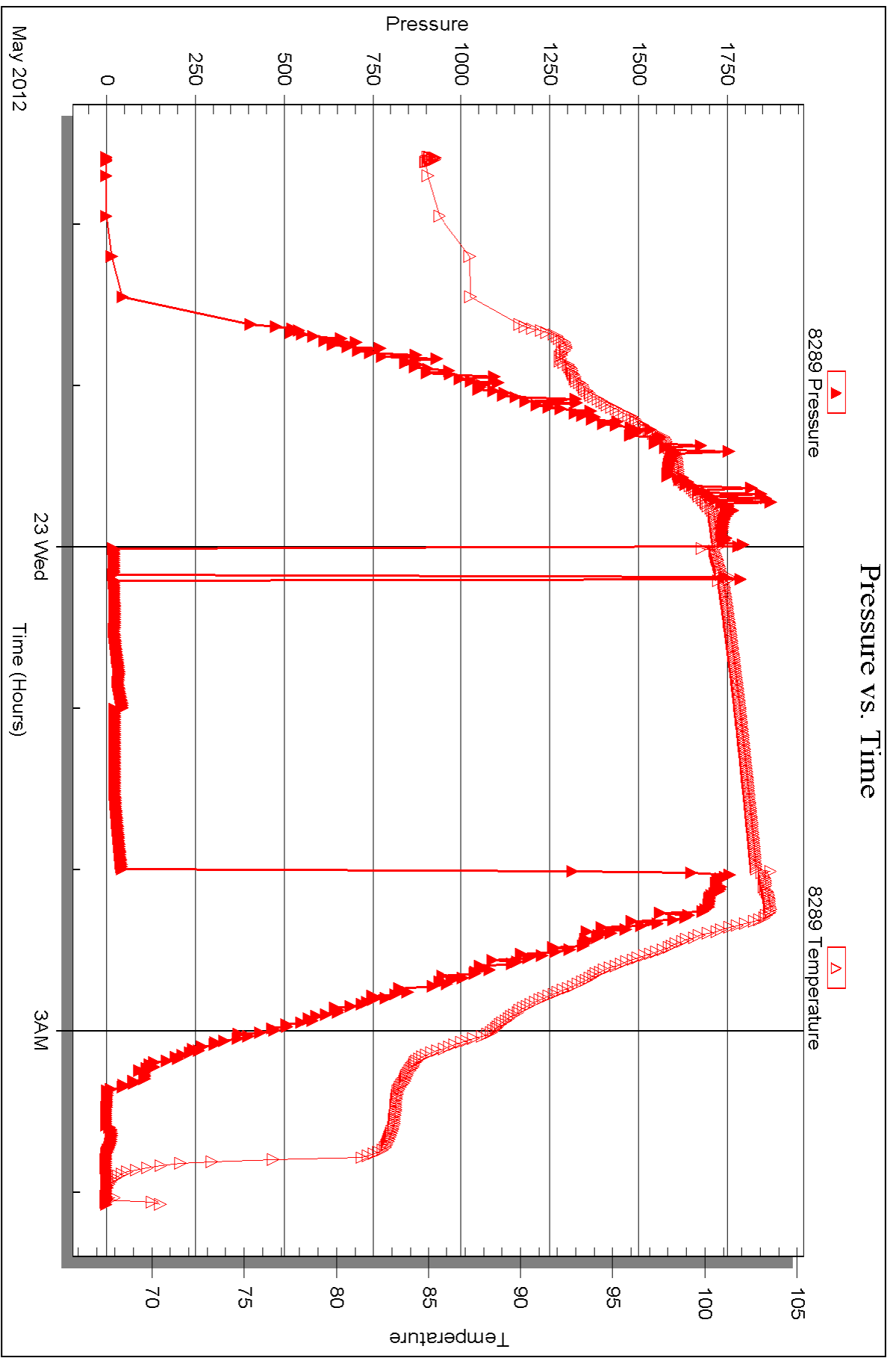
Printed: 2012.05.24 @ 08:46:43

Serial #: 8289

Outside Fred A Ernst Oil Co

Well #3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47296

Printed: 2012.05.24 @ 08:46:44



## DRILL STEM TEST REPORT

Prepared For: **Fred A Ernst Oil Co**

1104 N Main St  
Russell KS 67665

ATTN: Richard Bell

**Witt #3**

**3-6s-20w Rooks,KS**

Start Date: 2012.05.23 @ 14:15:00

End Date: 2012.05.23 @ 19:37:00

Job Ticket #: 47297                      DST #: 2

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

Printed: 2012.05.24 @ 08:46:03

Fred A Ernst Oil Co  
3-6s-20w Rooks,KS  
Witt #3  
DST # 2  
LKC " J & K "  
2012.05.23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Fred A Ernst Oil Co  
 1104 N Main St  
 Russell KS 67665  
 ATTN: Richard Bell

**3-6s-20w Rooks,KS**

**Witt #3**

Job Ticket: 47297

**DST#: 2**

Test Start: 2012.05.23 @ 14:15:00

## GENERAL INFORMATION:

Formation: **LKC " J & K "**

Deviated: No Whipstock: 2161.00 ft (KB)

Time Tool Opened: 16:22:30

Time Test Ended: 19:37:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

**Interval: 3540.00 ft (KB) To 3579.00 ft (KB) (TVD)**

Total Depth: 3579.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2161.00 ft (KB)

2156.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Inside**

Press @ Run Depth: 13.55 psig @ 3544.00 ft (KB)

Start Date: 2012.05.23

End Date: 2012.05.23

Start Time: 14:15:02

End Time: 19:36:45

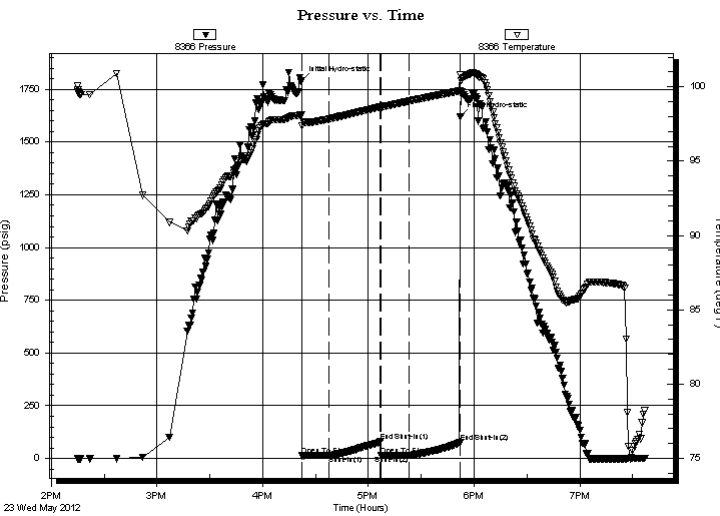
Capacity: 8000.00 psig

Last Calib.: 2012.05.23

Time On Btm: 2012.05.23 @ 16:22:15

Time Off Btm: 2012.05.23 @ 17:52:15

**TEST COMMENT:** 15-IFP- Good Surge No Return Blow  
 30-ISIP- No Blow  
 15-FFP- No Blow  
 30-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.00	98.11	Initial Hydro-static
1	12.79	97.39	Open To Flow (1)
16	13.73	97.83	Shut-In(1)
45	82.50	98.65	End Shut-In(1)
45	14.01	98.61	Open To Flow (2)
61	13.55	99.03	Shut-In(2)
90	75.45	99.73	End Shut-In(2)
90	1620.99	100.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Oil Spec Mud	0.03

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fred A Ernst Oil Co

**3-6s-20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47297

**DST#: 2**

ATTN: Richard Bell

Test Start: 2012.05.23 @ 14:15:00

## Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.80 inches	Volume: 49.81 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	49000.00 lb
			<u>Total Volume: 49.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3540.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	60.00 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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Change Over Sub	1.00			3520.00	
Shut In Tool	5.00			3525.00	
Hydraulic tool	5.00			3530.00	
Packer	5.00			3535.00	21.00 Bottom Of Top Packer
Packer	5.00			3540.00	
Stubb	1.00			3541.00	
Perforations	2.00			3543.00	
Change Over Sub	1.00			3544.00	
Recorder	0.00	8366	Inside	3544.00	
Recorder	0.00	8289	Outside	3544.00	
Blank Spacing	31.00			3575.00	
Change Over Sub	1.00			3576.00	
Bullnose	3.00			3579.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Fred A Ernst Oil Co

**3-6s-20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47297

**DST#: 2**

ATTN: Richard Bell

Test Start: 2012.05.23 @ 14:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Oil Spec Mud	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

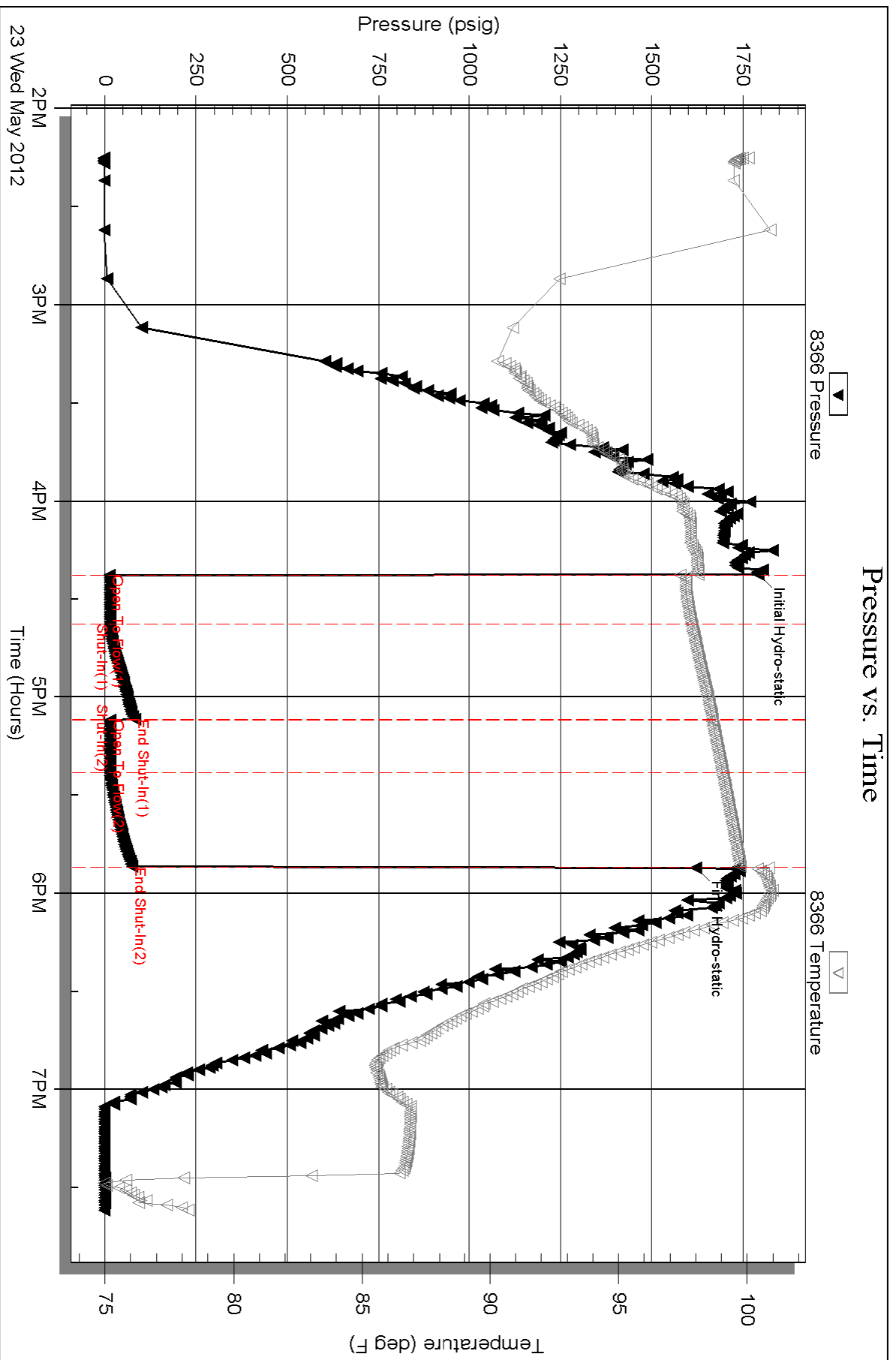
Inside

Fred A Ernst Oil Co

Well #3

DST Test Number: 2

### Pressure vs. Time



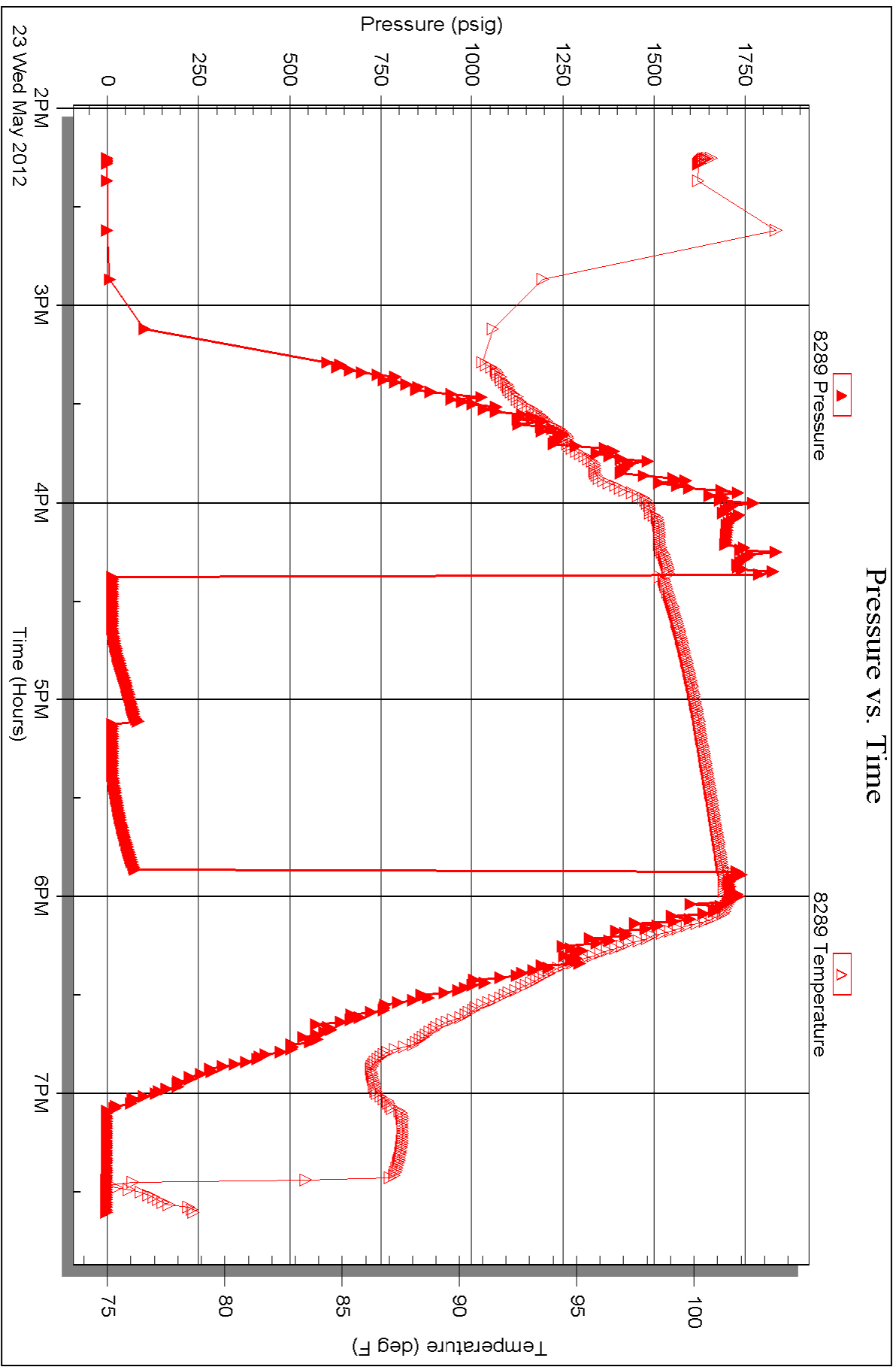


Serial #: 8289

Outside Fred A Ernst Oil Co

Well #3

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Fred A Ernst Oil Co**

1104 N Main St  
Russell KS 67665

ATTN: Richard Bell

**Witt #3**

**3 6s 20w Rooks,KS**

Start Date: 2012.05.24 @ 04:35:09

End Date: 2012.05.24 @ 11:05:39

Job Ticket #: 47298                      DST #: 3

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

Printed: 2012.05.25 @ 11:55:51



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Fred A Ernst Oil Co  
 1104 N Main St  
 Russell KS 67665  
 ATTN: Richard Bell

**3 6s 20w Rooks,KS**

**Witt #3**

Job Ticket: 47298

**DST#: 3**

Test Start: 2012.05.24 @ 04:35:09

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: 2161.00 ft (KB)

Time Tool Opened: 07:00:54

Time Test Ended: 11:05:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3627.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Reference Elevations: 2161.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

2156.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Inside**

Press @ RunDepth: 20.77 psig @ 3630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.24

End Date:

2012.05.24

Last Calib.: 2012.05.24

Start Time: 04:35:11

End Time:

11:05:39

Time On Btm: 2012.05.24 @ 07:00:39

Time Off Btm: 2012.05.24 @ 09:34:09

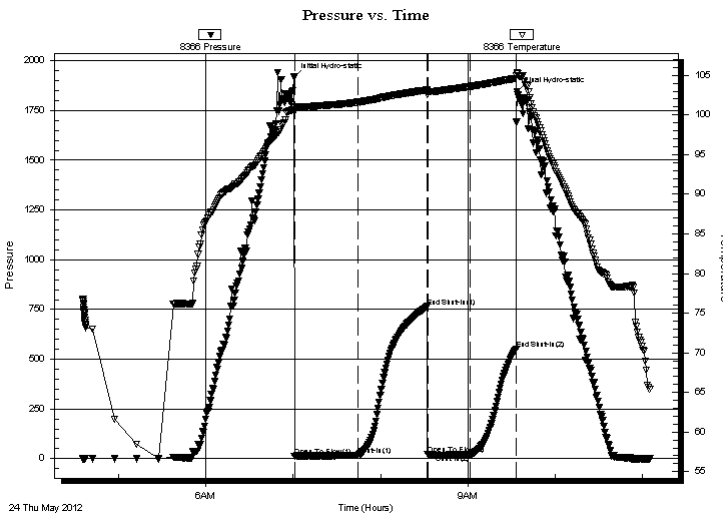
TEST COMMENT: IFP-Weak Blow , Built to 1 7/8"

ISI-Dead

IFP-Dead

FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.95	101.02	Initial Hydro-static
1	13.39	100.47	Open To Flow (1)
44	16.55	101.61	Shut-In(1)
92	764.48	103.14	End Shut-In(1)
92	22.63	102.63	Open To Flow (2)
121	20.77	103.58	Shut-In(2)
153	550.23	104.61	End Shut-In(2)
154	1844.78	105.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Free Oil	0.02
16.00	OCM-15%O-85%M	0.08

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fred A Ernst Oil Co

**3 6s 20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47298

**DST#: 3**

ATTN: Richard Bell

Test Start: 2012.05.24 @ 04:35:09

## Tool Information

Drill Pipe:	Length: 3587.00 ft	Diameter: 3.80 inches	Volume: 50.32 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	54000.00 lb
			<u>Total Volume: 50.46 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3627.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	30.00 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			3607.00	
Shut In Tool	5.00			3612.00	
Hydraulic tool	5.00			3617.00	
Packer	5.00			3622.00	21.00 Bottom Of Top Packer
Packer	5.00			3627.00	
Stubb	1.00			3628.00	
Perforations	2.00			3630.00	
Recorder	0.00	8366	Inside	3630.00	
Recorder	0.00	8289	Outside	3630.00	
Perforations	3.00			3633.00	
Bullnose	3.00			3636.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 30.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Fred A Ernst Oil Co

**3 6s 20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47298

**DST#: 3**

ATTN: Richard Bell

Test Start: 2012.05.24 @ 04:35:09

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Free Oil	0.020
16.00	OCM-15%O-85%M	0.079

Total Length: 20.00 ft      Total Volume: 0.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

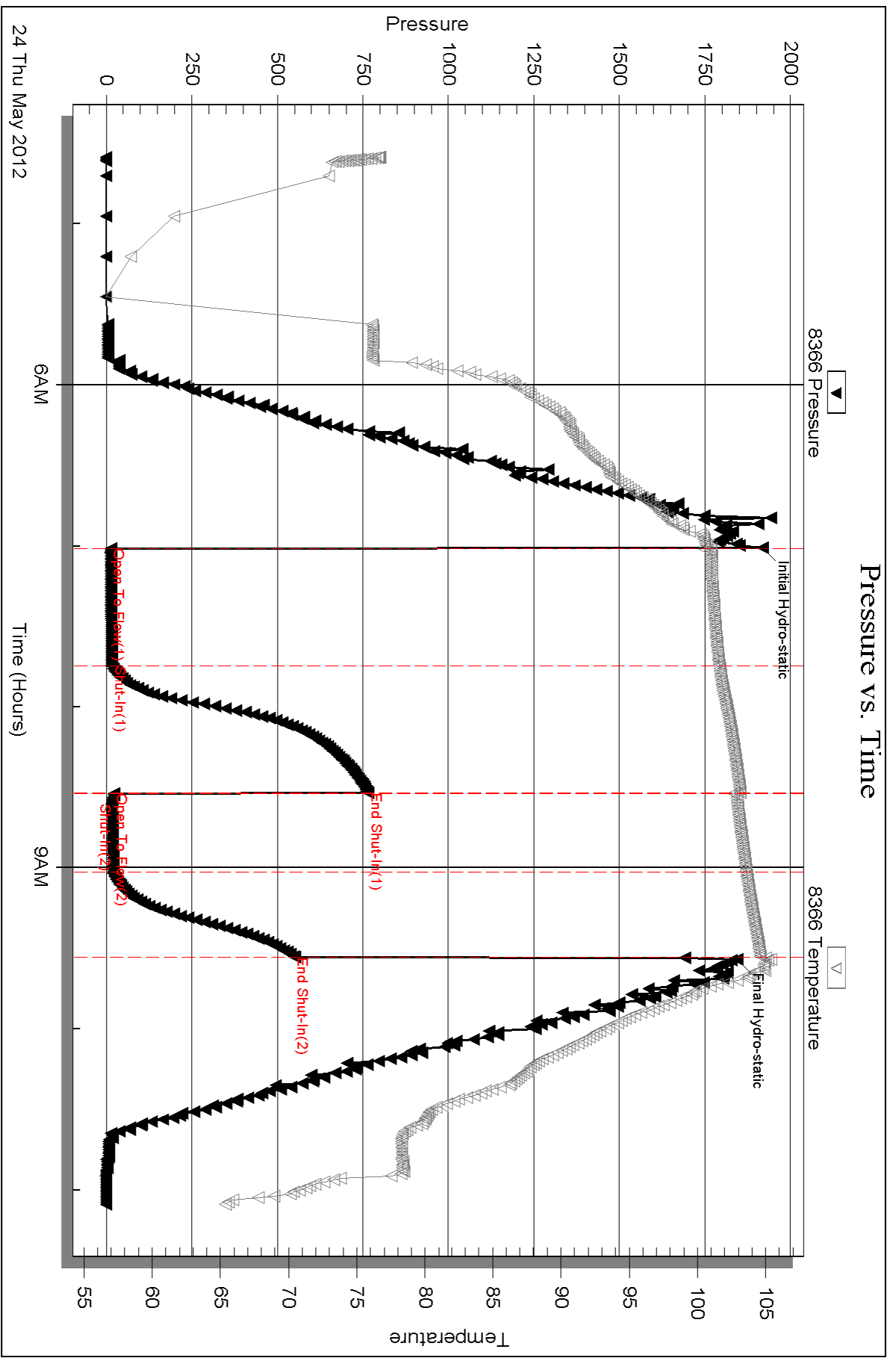
Serial #: 8366

Inside

Fred A Ernst Oil Co

Well #3

DST Test Number: 3

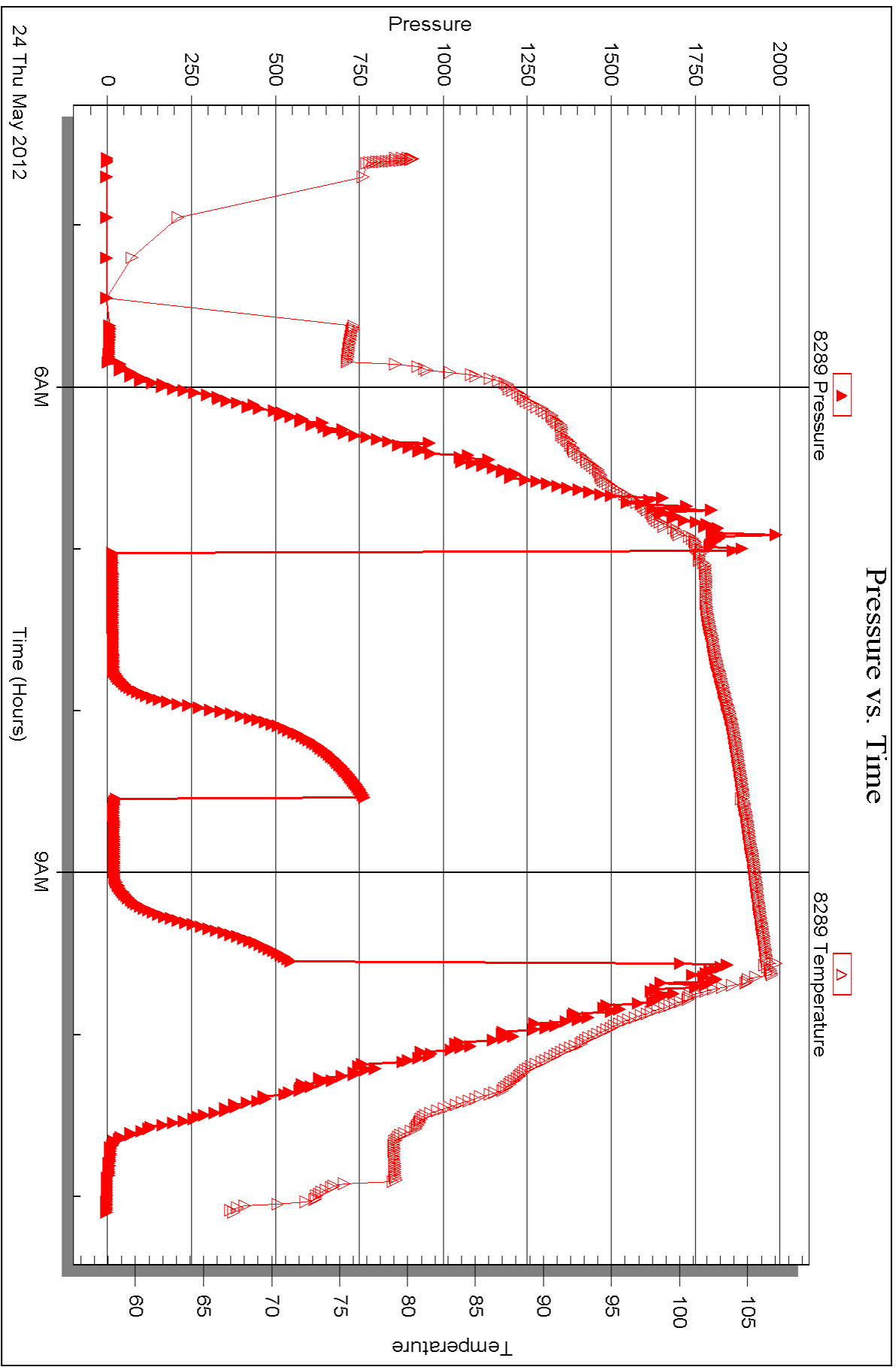


Serial #: 8289

Outside Fred A Ernst Oil Co

Well #3

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **Fred A Ernst Oil Co**

1104 N Main St  
Russell KS 67665

ATTN: Richard Bell

**Witt #3**

**3 6s 20w Rooks,KS**

Start Date: 2012.05.24 @ 16:55:33

End Date: 2012.05.24 @ 21:14:03

Job Ticket #: 47299                      DST #: 4

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

Printed: 2012.05.25 @ 11:54:38



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Fred A Ernst Oil Co

**3 6s 20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47299

**DST#: 4**

ATTN: Richard Bell

Test Start: 2012.05.24 @ 16:55:33

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: 2161.00 ft (KB)

Time Tool Opened: 18:48:18

Time Test Ended: 21:14:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

**Interval: 3625.00 ft (KB) To 3638.00 ft (KB) (TVD)**

Reference Elevations: 2161.00 ft (KB)

Total Depth: 3638.00 ft (KB) (TVD)

2156.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Inside**

Press @ Run Depth: 19.15 psig @ 3626.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.24

End Date:

2012.05.24

Last Calib.:

2012.05.24

Start Time: 16:55:35

End Time:

21:14:03

Time On Btm:

2012.05.24 @ 18:48:03

Time Off Btm:

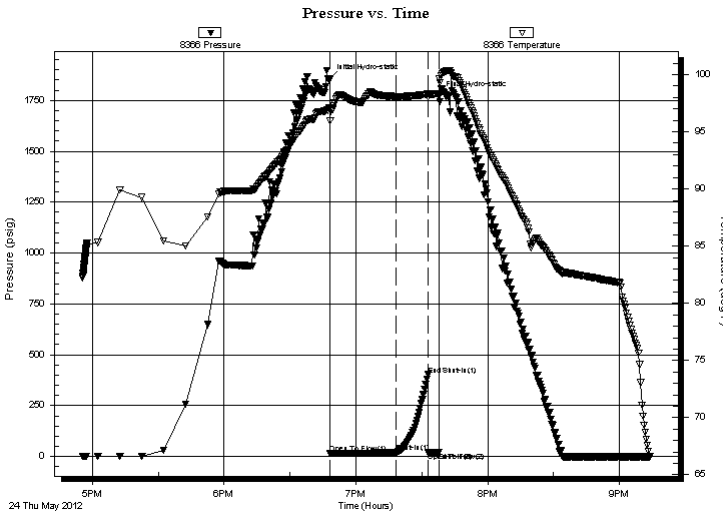
2012.05.24 @ 19:38:03

TEST COMMENT: IFP-Weak Blow ,Built to 1-1/2"

ISI-Dead

FFP-WeakBlow ,Pull Tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.73	97.09	Initial Hydro-static
1	16.45	95.99	Open To Flow (1)
30	19.15	98.10	Shut-In(1)
45	402.21	98.31	End Shut-In(1)
45	22.53	98.08	Open To Flow (2)
50	21.59	98.34	Shut-In(2)
50	1772.82	99.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM-10%O-90%M	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fred A Ernst Oil Co

**3 6s 20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47299

**DST#: 4**

ATTN: Richard Bell

Test Start: 2012.05.24 @ 16:55:33

## Tool Information

Drill Pipe:	Length: 3587.00 ft	Diameter: 3.80 inches	Volume: 50.32 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3625.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	34.00 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			3605.00	
Shut In Tool	5.00			3610.00	
Hydraulic tool	5.00			3615.00	
Packer	5.00			3620.00	21.00 Bottom Of Top Packer
Packer	5.00			3625.00	
Stubb	1.00			3626.00	
Recorder	0.00	8366	Inside	3626.00	
Recorder	0.00	8289	Outside	3626.00	
Perforations	9.00			3635.00	
Bullnose	3.00			3638.00	13.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>34.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Fred A Ernst Oil Co

**3 6s 20w Rooks,KS**

1104 N Main St  
Russell KS 67665

**Witt #3**

Job Ticket: 47299

**DST#: 4**

ATTN: Richard Bell

Test Start: 2012.05.24 @ 16:55:33

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM-10%O-90%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8366

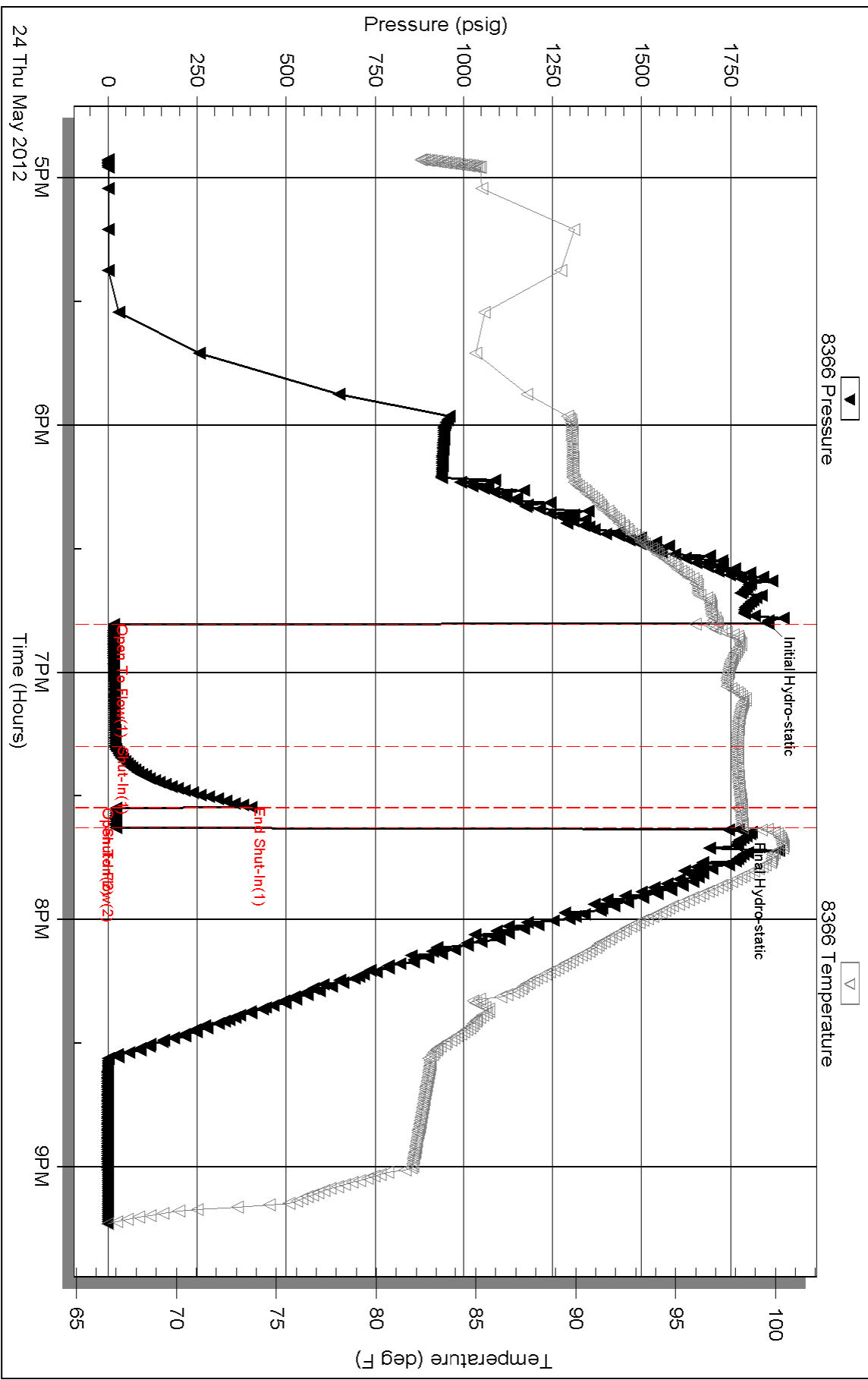
Inside

Fred A Ernst Oil Co

Well #3

DST Test Number: 4

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47299

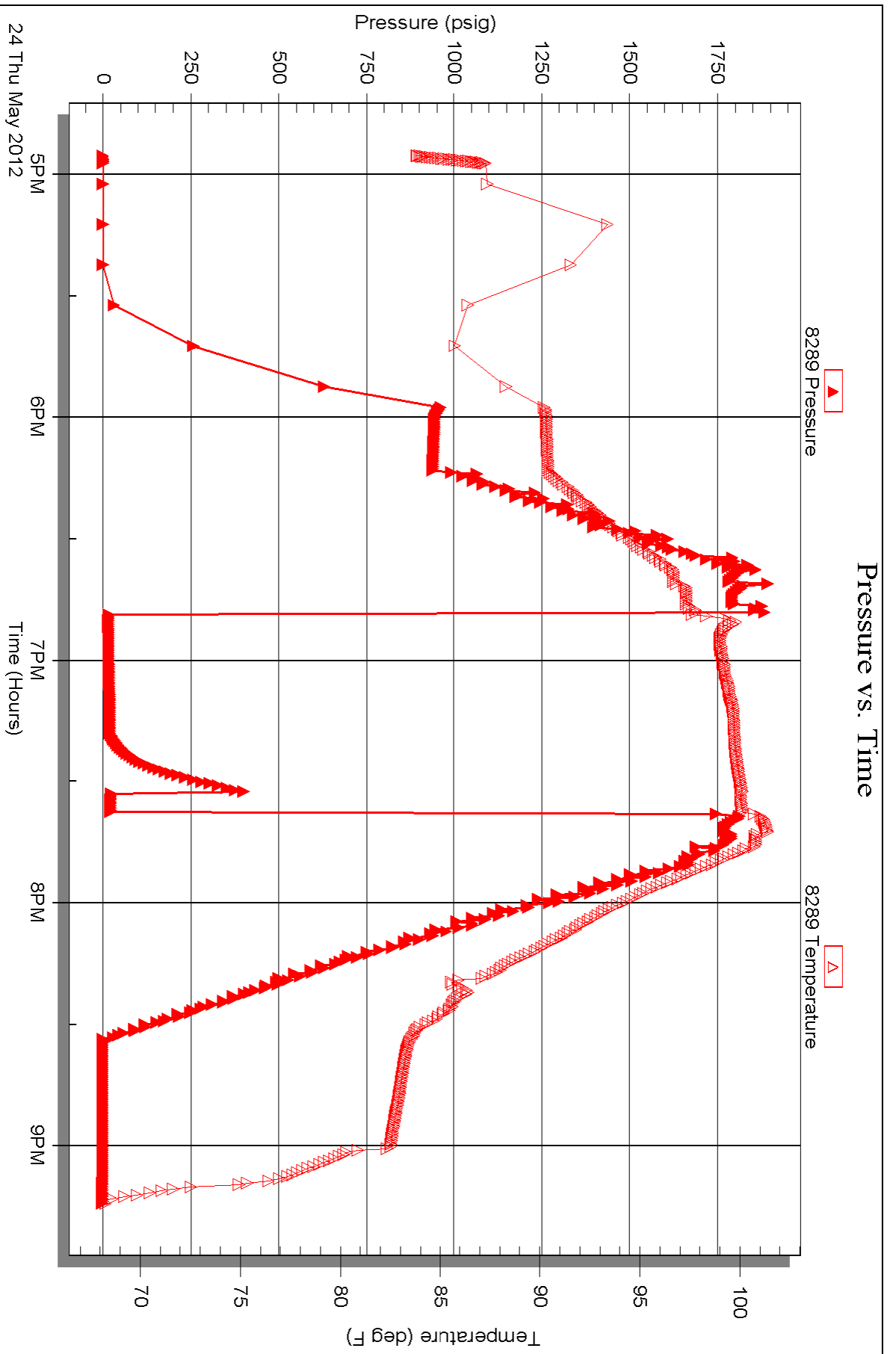
Printed: 2012.05.25 @ 11:54:40

Serial #: 8289

Outside Fred A Ernst Oil Co

Well #3

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47296

4/10

Well Name & No. Witt #3 Test No. 1 Date 5-22-12  
 Company Fred A. Ernst Oil Co. Elevation 2161 KB 2156 GL  
 Address 1104 N. Main St Russell Ks 67665  
 Co. Rep / Geo. Richard Bell 421-7179 Rig American Eagle #3  
 Location: Sec. 3 Twp. 6<sup>s</sup> Rge. 20<sup>w</sup> Co. Rooks State Ks

Interval Tested 3494-3540 Zone Tested LKC "H+I"  
 Anchor Length 46 Drill Pipe Run 3459 Mud Wt. 9.5  
 Top Packer Depth 3489 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3494 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3540 Chlorides 1000 ppm System LCM 1.5

Blow Description IFP - Good Surge No Return - Flushed at 10min Surface Blow Died 4min  
ISIP - No Blow  
FFP - No Blow  
FSTP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>				

Rec Total 2 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1781  Test 1150 T-On Location 19:10  
 (B) First Initial Flow 18  Jars 250 T-Started 21:35  
 (C) First Final Flow 21  Safety Joint 75 T-Open 00:01  
 (D) Initial Shut-In 44  Circ Sub \_\_\_\_\_ T-Pulled 02:01  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 04:05  
 (F) Second Final Flow 21  Mileage 134 RT 207.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 42  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1662  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1682.70  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1682.70

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Tribolite 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

## Test Ticket

NO. 47297

Well Name & No. Witt # 3 Test No. 2 Date 5-23-12  
 Company Fred A Ernst Oil Co Elevation 2161 KB 2156 GL  
 Address 1104 N. MAIN Russell Ks 67665  
 Co. Rep / Geo. Rich Bell Rig American Eagle #3  
 Location: Sec. 3 Twp. 6<sup>s</sup> Rge. 20<sup>w</sup> Co. ROOKS State KS

Interval Tested 3540 - 3579 Zone Tested LKC "J & K"  
 Anchor Length 39 Drill Pipe Run 3551 Mud Wt. 9.5  
 Top Packer Depth 3535 Drill Collars Run ⊘ Vis 71  
 Bottom Packer Depth 3540 Wt. Pipe Run ⊘ WL 8.8  
 Total Depth 3579 Chlorides 2000 ppm System LCM 1

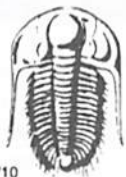
Blow Description IFP - Good Surge No Return - No Blow  
ISIP - No Blow  
FFP - No Blow  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Oil Spec Mud.</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 99 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 1150 \_\_\_\_\_ T-On Location 13:20  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 14:15  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 16:23  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 17:53  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 19:37  
 (F) Second Final Flow \_\_\_\_\_  Mileage 207.70 \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15 \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30 \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1357.70  
 Final Flow 15 \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 \_\_\_\_\_ Sub Total 1357.70

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



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47298

4/10

Well Name & No. W1H #3 Test No. 3 Date 5-24-12  
 Company Fred A Ernst Oil Company Elevation 2161 KB 2156 GL  
 Address 1104 N. Main Street, Russell, KS. 67665  
 Co. Rep / Geo. Richard Bell Rig American Eagle #3  
 Location: Sec. 3 Twp. 6s Rge. 20w Co. Rooks State Ks

Interval Tested 3627-3634 Zone Tested Reagan Sand  
 Anchor Length 9' Drill Pipe Run 3587 Mud Wt. 9.5  
 Top Packer Depth 3622 Drill Collars Run 0 Vis 71  
 Bottom Packer Depth 3627 Wt. Pipe Run 0 WL 8.77  
 Total Depth 3636 Chlorides 2,000 ppm System LCM  
 Blow Description IFP-Weak Blow, Built to 1 7/8"  
ISI-Dead  
FFP-Dead  
FSI-Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>Free oil</u>				
<u>16</u>	<u>OCM</u>		<u>15</u>		<u>85</u>

Rec Total 20 BHT 105° Gravity 21 API RW @ °F Chlorides ppm  
 (A) Initial Hydrostatic 1918  Test 1150 T-On Location 4:21  
 (B) First Initial Flow 13  Jars T-Started 4:33  
 (C) First Final Flow 17  Safety Joint T-Open 7:01  
 (D) Initial Shut-In 764  Circ Sub T-Pulled 9:31  
 (E) Second Initial Flow 23  Hourly Standby T-Out 11:08  
 (F) Second Final Flow 21  Mileage 207.70 Comments  
 (G) Final Shut-In 550  Sampler  
 (H) Final Hydrostatic 1845  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total 0  
 Day Standby Total 1357.70  
 Accessibility MP/DST Disc't  
 Sub Total 1357.70

Approved By \_\_\_\_\_ Our Representative Jason McLenner

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Thank you





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47299

4/10

Well Name & No. Witt #3 Test No. 4 Date 5-24-12  
 Company Fred A. Ernst Oil Company Elevation 2161 KB 2156 GL  
 Address 1104 N. Main Street, Russell, KS. 67665  
 Co. Rep / Geo. Richard Bell Rig American Eagle #3  
 Location: Sec. 3 Twp. 6s Rge. 20w Co. Rooks State KS

Interval Tested 3625-3638 Zone Tested Reagan Sand  
 Anchor Length 13' Drill Pipe Run 3587 Mud Wt. 9.4  
 Top Packer Depth 3620 Drill Collars Run 0 Vis 62  
 Bottom Packer Depth 3625 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3638 Chlorides 1,000 ppm System LCM 1#  
 Blow Description IFP-Weak Blow, Built to 1 1/2"  
ISI-Dead  
FFP-Weak Blow, Pull Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OEM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 100° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1856  Test 1150 T-On Location 16:40  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 16:53  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 18:47  
 (D) Initial Shut-In 402  Circ Sub \_\_\_\_\_ T-Pulled 19:57  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 21:11  
 (F) Second Final Flow 22  Mileage 207.70 Comments \_\_\_\_\_  
 (G) Final Shut-In X  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1772  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1686.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1686.60

Approved By \_\_\_\_\_ Our Representative Jason McJannet *Thank you*

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.





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 658

Date: <u>5-17-12</u>	Sec. <u>3</u>	Twp. <u>6</u>	Range <u>20</u>	County <u>Rooks</u>	State <u>KS</u>	On Location	Finish <u>3:15 PM</u>
Lease <u>Witt</u>	Well No. <u>3</u>		Location <u>Legans Wildcat Dream PO 1E 13/4 S</u>				
Contractor <u>American Eagle #3</u>				Owner <u>Finto</u>			
Type Job <u>Surface</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>	T.D. <u>252</u>		Charge To <u>Fred First Oil</u>				
Csg. <u>8 5/8</u>	Depth <u>249</u>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <u>15'</u>	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <u>14' 12 3/4</u>		Cement Amount Ordered <u>170 Cem 3% 11 2% 6el</u>				

**EQUIPMENT**

Pumptrk <u>9</u>	No.	Cementers <u>Chris</u>	Common <u>170</u>
		Helper	
Bulktrk	No.	Driver <u>inert</u>	Poz. Mix
		Driver	
Bulktrk <u>13</u>	No.	Driver <u>nick</u>	Gel. <u>3</u>
		Driver	

**JOB SERVICES & REMARKS**

Remarks:	Calcium <u>6</u>
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>8 5/8 on bottom. Fst. Circulation.</u>	CFL-117 or CD110 CAF 38
<u>Mix 10% 5% 10% Displace.</u>	Sand
<u>Cement Circulated!</u>	Handling <u>179</u>
	Mileage

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge <u>Surface</u>	
Mileage <u>68</u>	

X Signature: <u>Bruce Paul Rubin</u>	Tax
	Discount
	Total Charge