



**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
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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

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: \_\_\_\_\_



1121676

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	IA Operating, Inc.
Well Name	Starr Schlobohm 29-1
Doc ID	1121676

All Electric Logs Run

Geologist Well Report
Micro Log
Sonic Log
Dual Induction Log
Compensated Density Neutron Log

# 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. 769

Date	8-6-12	Sec.	29	Twp.	11	Range	20	County	Ellis	State	KS	On Location		Finish	7:30pm
Lease	Schlabach	Well No.	29-1			Location						Elisa Church 2w 2 1/4 N Plato			
Contractor	Discover #4							Owner	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.						
Type Job	P.S.A							Charge To	J.A. Operating						
Hole Size	7 7/8							T.D.	3950						
Csg.								Depth							
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Displace	Cement Amount Ordered 245 60/40 4 1/2 Gal 1/4 #FB						

**EQUIPMENT**

Pumptrk	5	No.	Cement Helper	147	Common
Bulktrk		No.	Driver	98	Poz. Mix
Bulktrk	14	No.	Driver	9	Gel.

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole 30	Salt
Mouse Hole 15	Flowseal 60#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st 3838 25 SK	Sand
2nd 1680 25 SK	Handling 234
3rd 950 100 SK	Mileage
4th 270 40 SK	
5th 40 10 SK	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	8 5/8 Plug
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage	31

X Signature *Mike D. Beck*

Tax  
Discount  
Total Charge

# 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. 995

Date	7-30-12	Sec.	11	Range	20	County	Ellis	State	Kansas	On Location		Finish	7:00 PM
Lease	Star Schindler	Well No.	29-1	Location	Ellis	9N 2W 24N							
Contractor	Kiserney Drilling Rig						Owner	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.					
Type Job	Surface						Charge To	T.A. Operating					
Hole Size	12 1/4	T.D.	222	Depth	222	Street							
Csg.	8 3/8	Depth	222	City	State								
Tbg. Size							The above was done to satisfaction and supervision of owner agent or contractor.						
Tool							Cement Amount Ordered	150 Common ECC					
Cement Left in Csg.							Displace	13 1/2 Bbl					
Meas Line							<p style="text-align: center;"><b>EQUIPMENT</b></p>						
Pumptrk	9	No.	Cementer	Steve		2 1/2 bbl							
			Helper	Steve		Common 150							
Bulktrk	14	No.	Driver	of [unclear]		Poz. Mix							
			Driver	of [unclear]		Gel. 3							
Bulktrk		No.	Driver	Louie		Calcium 5							
			Driver	Louie									
<b>JOB SERVICES &amp; REMARKS</b>													
Remarks:							Hulls						
Rat Hole							Salt						
Mouse Hole							Flowseal						
Centralizers							Kol-Seal						
Baskets							Mud CLR 48						
D/V or Port Collar							CFL-117 or CD110 CAF 38						
<p style="font-size: 2em; font-family: cursive;">Cement did Circulate</p>							Sand						
							Handling 158						
							Mileage						
<b>FLOAT EQUIPMENT</b>													
							Guide Shoe						
							Centralizer						
							Baskets						
							AFU Inserts						
							Float Shoe						
							Latch Down						
<p style="font-size: 2em; font-family: cursive;">[Signature]</p>							Pumptrk Charge Surface						
							Mileage 31						
							Tax						
							Discount						
							Total Charge						
<p>X Signature</p>													



## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21St Ste B  
Wichita KS 67205

ATTN: Julile Burrows/Jeff

### **Starr-Schlobohm 29-1**

#### **29-11s-20w Ellis,KS**

Start Date: 2012.08.03 @ 06:03:10

End Date: 2012.08.03 @ 11:37:40

Job Ticket #: 49342                      DST #: 1

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

Printed: 2012.08.09 @ 14:48:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

ATTN: Julile Burrow s/Jeff

Job Ticket: 49342

**DST#: 1**

Test Start: 2012.08.03 @ 06:03:10

## GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:10

Time Test Ended: 11:37:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

**Interval: 3540.00 ft (KB) To 3595.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3595.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 79.34 psig @ 3577.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.03

End Date:

2012.08.03

Last Calib.: 2012.08.03

Start Time: 06:03:11

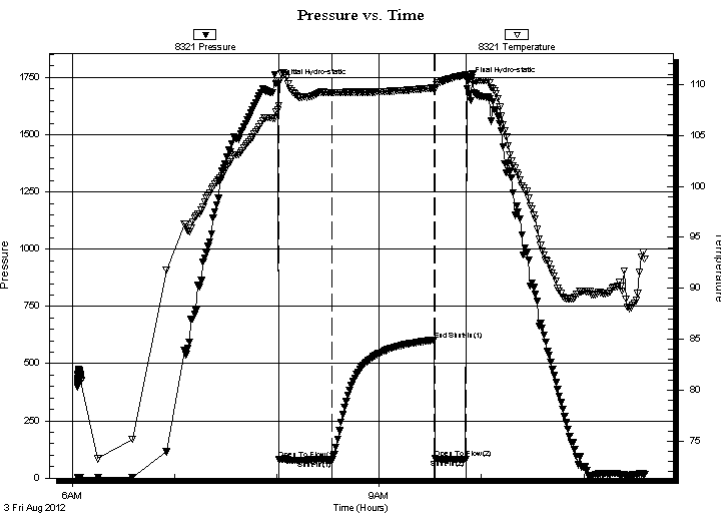
End Time:

11:35:40

Time On Btm: 2012.08.03 @ 08:00:40

Time Off Btm: 2012.08.03 @ 09:52:10

**TEST COMMENT:** IFP=Dead-flushed tool-surged then died  
ISI=Dead no blow back  
FFP=Dead no blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1721.84	107.48	Initial Hydro-static
1	81.52	107.91	Open To Flow (1)
32	79.34	109.16	Shut-In(1)
92	603.37	109.64	End Shut-In(1)
92	84.44	109.46	Open To Flow (2)
110	81.52	110.89	Shut-In(2)
112	1731.32	110.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud	0.77

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49342

**DST#: 1**

ATTN: Julile Burrow s/Jeff

Test Start: 2012.08.03 @ 06:03:10

## Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 49.44 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3540.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			3513.00	
Shut In Tool	5.00			3518.00	
Hydraulic tool	5.00			3523.00	
Jars	5.00			3528.00	
Safety Joint	3.00			3531.00	
Packer	4.00			3535.00	28.00 Bottom Of Top Packer
Packer	5.00			3540.00	
Stubb	1.00			3541.00	
Perforations	3.00			3544.00	
Change Over Sub	1.00			3545.00	
Drill Pipe	31.00			3576.00	
Change Over Sub	1.00			3577.00	
Recorder	0.00	8321	Inside	3577.00	
Recorder	0.00	8737	Outside	3577.00	
Perforations	15.00			3592.00	
Bullnose	3.00			3595.00	55.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>83.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49342

**DST#: 1**

ATTN: Julie Burrow s/Jeff

Test Start: 2012.08.03 @ 06:03:10

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud	0.770

Total Length: 75.00 ft      Total Volume: 0.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool Slid 8 feet fluid dropped about 15 feet

Serial #: 8321

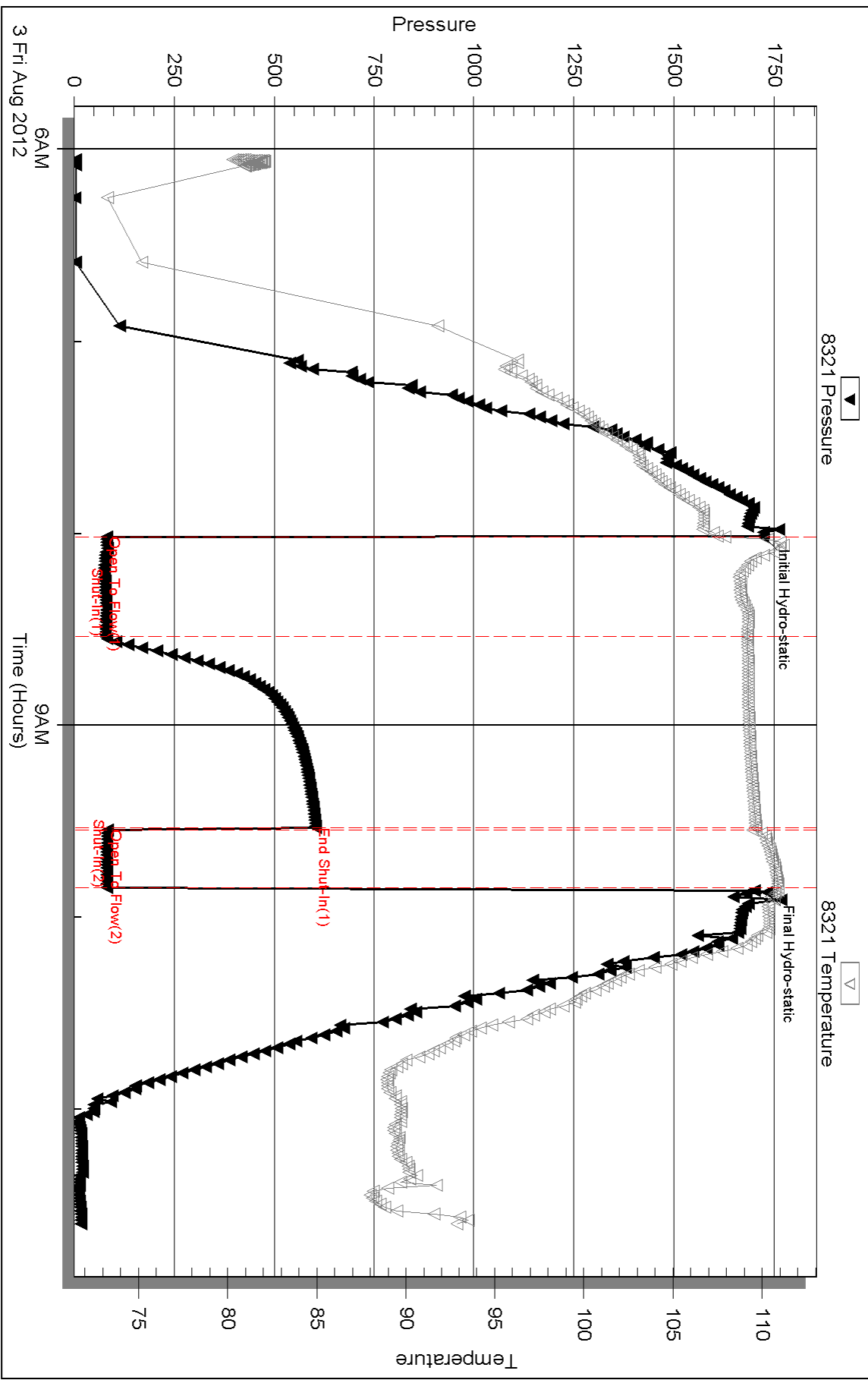
Inside

IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 1

### Pressure vs. Time

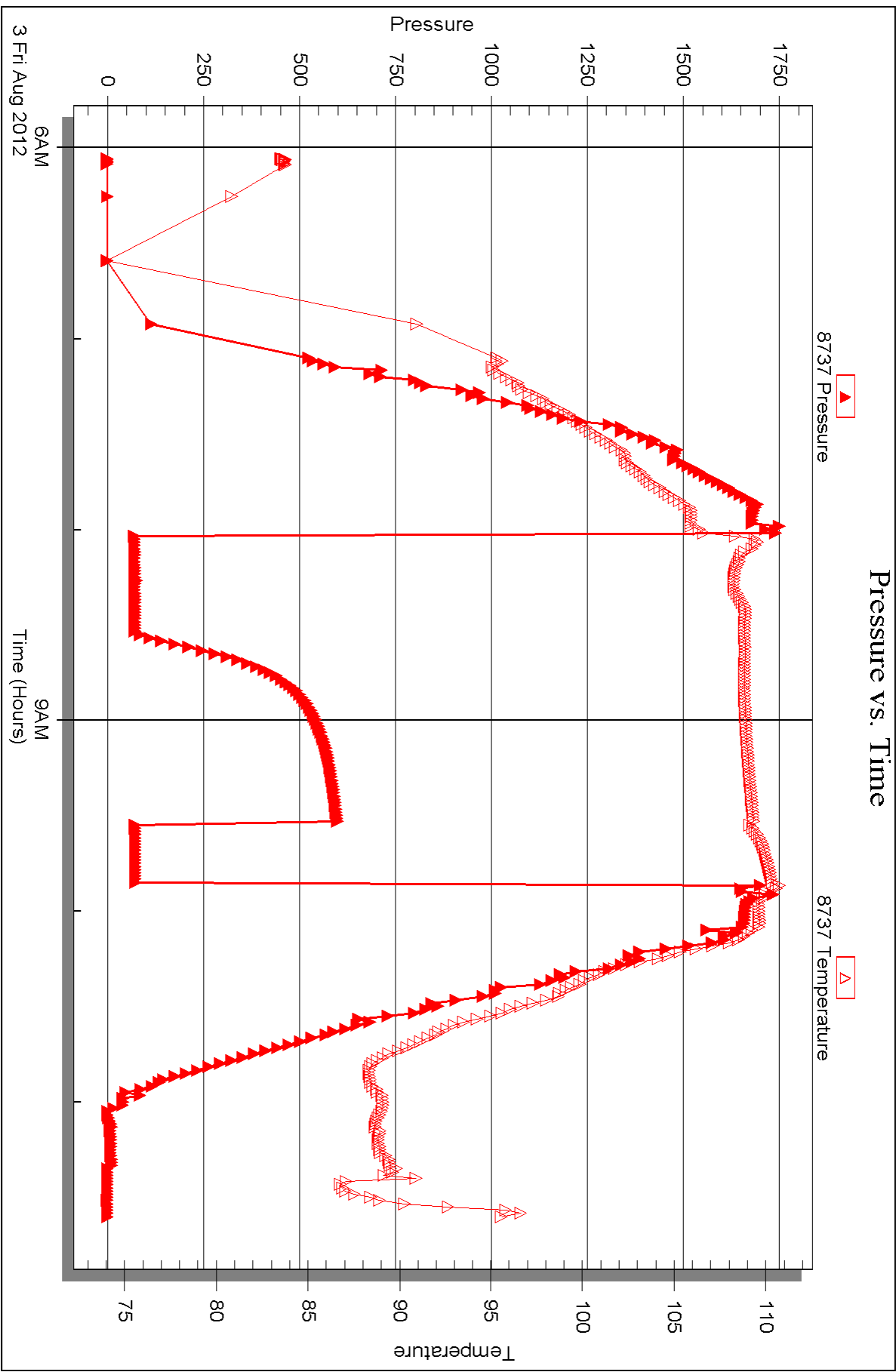


Serial #: 8737

Outside IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49342

Printed: 2012.08.09 @ 14:48:24



## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21St Ste B  
Wichita KS 67205

ATTN: Julile Burrows/Jeff

### **Starr-Schlobohm 29-1**

#### **29-11s-20w Ellis,KS**

Start Date: 2012.08.04 @ 04:50:29

End Date: 2012.08.04 @ 12:02:29

Job Ticket #: 49343                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.09 @ 14:47:15

IA Operating Inc  
29-11s-20w Ellis,KS  
Starr-Schlobohm 29-1  
DST # 2  
LKC H-I-J  
2012.08.04



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

ATTN: Julile Burrow s/Jeff

Job Ticket: 49343

**DST#: 2**

Test Start: 2012.08.04 @ 04:50:29

## GENERAL INFORMATION:

Formation: **LKC H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:43:59

Time Test Ended: 12:02:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3668.00 ft (KB) To 3735.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3735.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 103.78 psig @ 3705.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.04

End Date:

2012.08.04

Last Calib.: 2012.08.04

Start Time: 04:50:30

End Time:

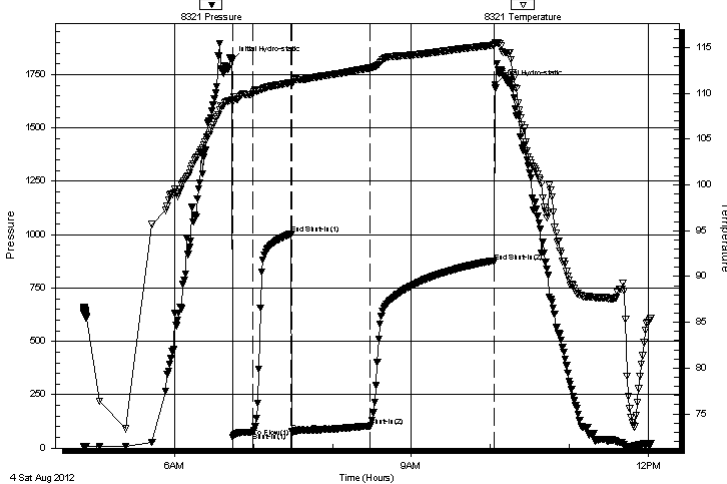
12:02:29

Time On Btm: 2012.08.04 @ 06:43:29

Time Off Btm: 2012.08.04 @ 10:03:29

**TEST COMMENT:** IFP=Fair blow built to 9 in  
ISI=Dead no blow back  
FFP=Good blow BOB in 13 1/2 min  
FSI=Weak surface blow back died out in 6 min

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1816.76	109.26	Initial Hydro-static
1	51.18	108.99	Open To Flow (1)
16	74.45	109.91	Shut-In(1)
45	1003.67	111.17	End Shut-In(1)
46	75.70	111.07	Open To Flow (2)
105	103.78	112.79	Shut-In(2)
200	872.15	115.27	End Shut-In(2)
200	1701.06	115.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	OCGM 10%G 55%O 35%M	1.49
53.00	Gassy Oil 25%G 75%O	0.74
0.00	419-GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49343

**DST#: 2**

ATTN: Julile Burrows/Jeff

Test Start: 2012.08.04 @ 04:50:29

## Tool Information

Drill Pipe:	Length: 3635.00 ft	Diameter: 3.80 inches	Volume: 50.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 51.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3668.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	95.00 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			3641.00	
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	3.00			3659.00	
Packer	4.00			3663.00	28.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Stubb	1.00			3669.00	
Perforations	3.00			3672.00	
Change Over Sub	1.00			3673.00	
Drill Pipe	31.00			3704.00	
Change Over Sub	1.00			3705.00	
Recorder	0.00	8321	Inside	3705.00	
Recorder	0.00	8737	Outside	3705.00	
Perforations	27.00			3732.00	
Bullnose	3.00			3735.00	67.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49343

**DST#: 2**

ATTN: Julile Burrow s/Jeff

Test Start: 2012.08.04 @ 04:50:29

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	OCGM 10%G 55%O 35%M	1.485
53.00	Gassy Oil 25%G 75%O	0.743
0.00	419-GIP	0.000

Total Length: 179.00 ft

Total Volume: 2.228 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

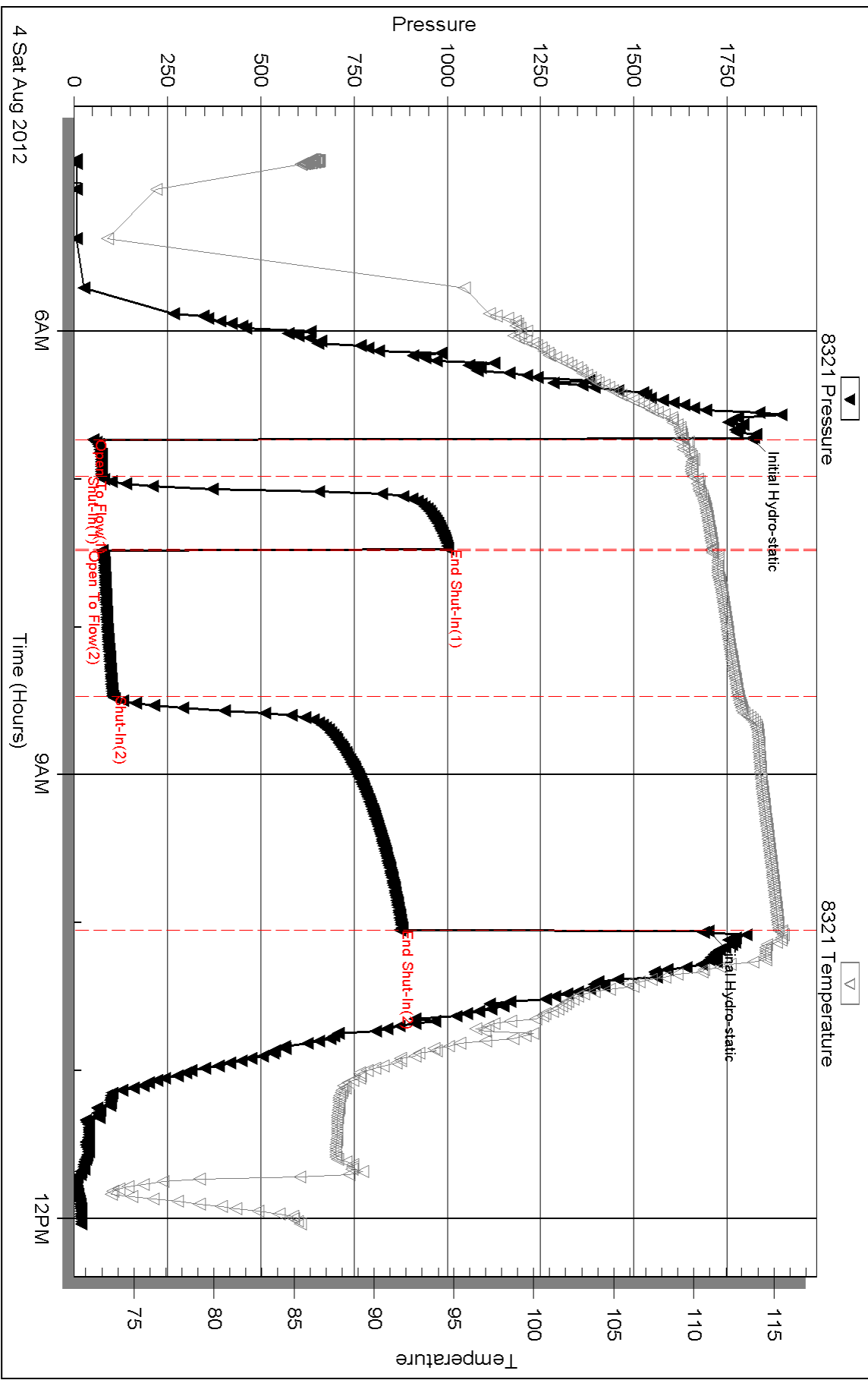
Inside

IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49343

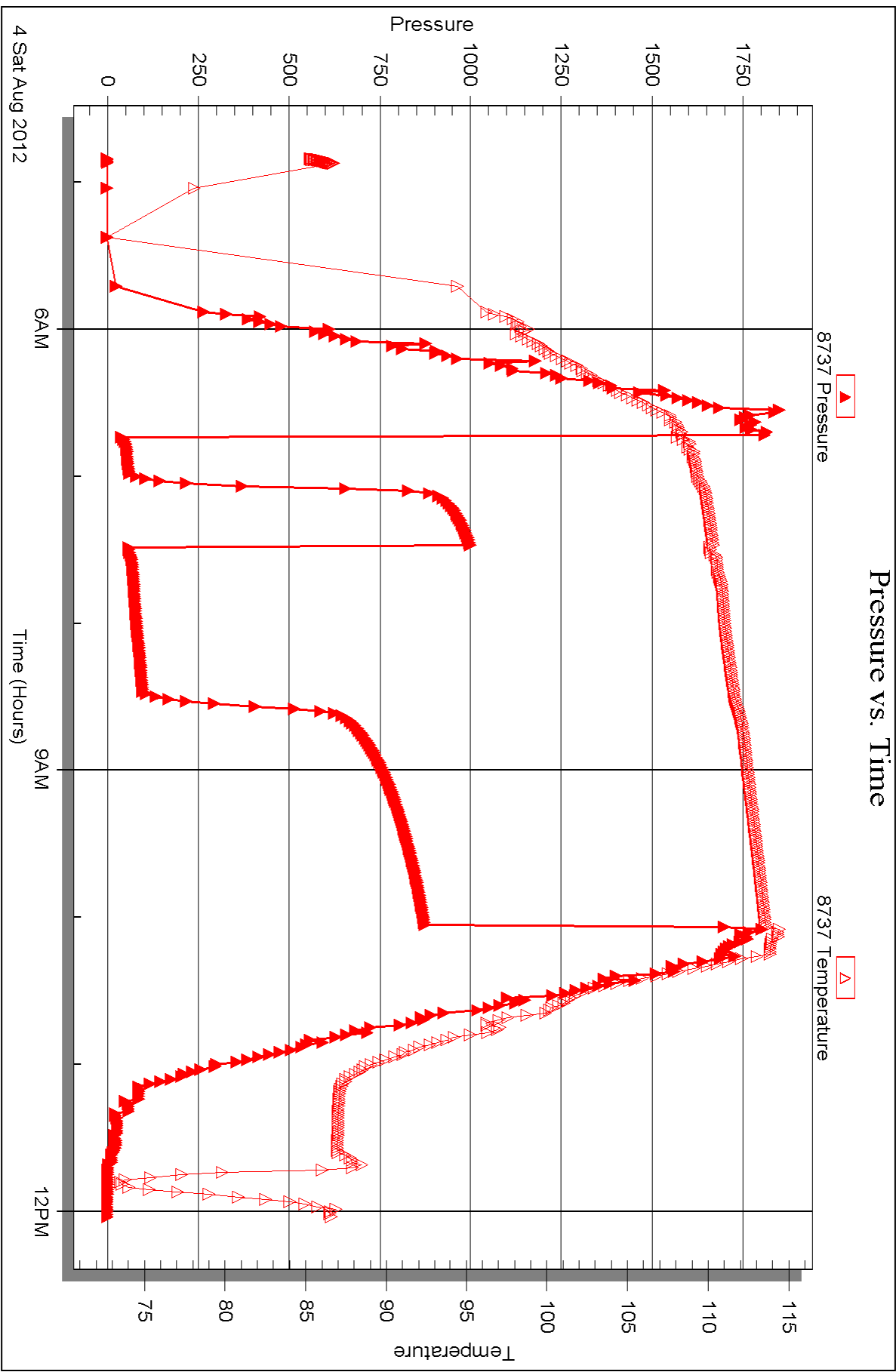
Printed: 2012.08.09 @ 14:47:18

Serial #: 8737

Outside IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21St Ste B  
Wichita KS 67205

ATTN: Julile Burrows/Jeff

### **Starr-Schlobohm 29-1**

#### **29-11s-20w Ellis,KS**

Start Date: 2012.08.04 @ 19:10:37

End Date: 2012.08.05 @ 02:23:07

Job Ticket #: 49344                      DST #: 3

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

Printed: 2012.08.09 @ 14:45:45



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

ATTN: Julile Burrow s/Jeff

Job Ticket: 49344

**DST#: 3**

Test Start: 2012.08.04 @ 19:10:37

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:56:07

Time Test Ended: 02:23:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3733.00 ft (KB) To 3765.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3765.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8737 Outside**

Press @ Run Depth: 63.98 psig @ 3737.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.04

End Date:

2012.08.05

Last Calib.:

2012.08.05

Start Time: 19:10:38

End Time:

02:24:07

Time On Btm:

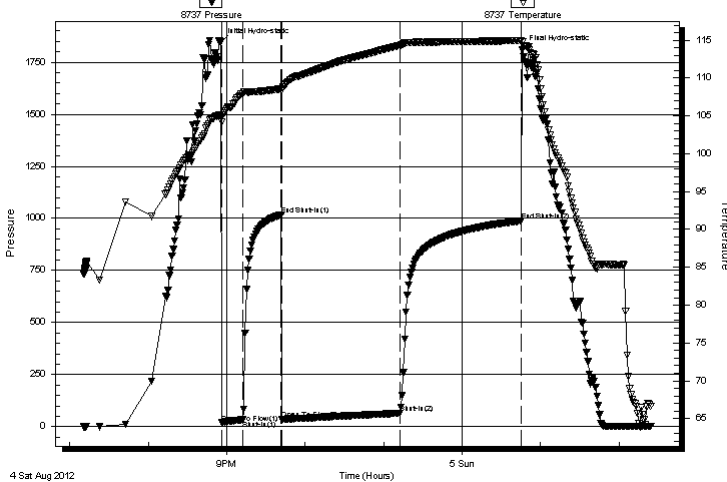
2012.08.04 @ 20:55:37

Time Off Btm:

2012.08.05 @ 00:46:07

**TEST COMMENT:** IFP=Dead no blow  
ISI=Dead no blow back  
FFP=Weak built to 3 1/8 in  
FSI=Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.47	105.16	Initial Hydro-static
1	18.46	104.17	Open To Flow (1)
17	32.36	107.97	Shut-In(1)
46	1016.90	108.57	End Shut-In(1)
47	36.23	108.36	Open To Flow (2)
137	63.98	114.30	Shut-In(2)
230	988.55	114.98	End Shut-In(2)
231	1812.27	114.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
84.00	MW 25%M 75%W	0.90
20.00	WM with oil spots	0.28

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49344

**DST#: 3**

ATTN: Julie Burrows/Jeff

Test Start: 2012.08.04 @ 19:10:37

## Tool Information

Drill Pipe:	Length: 3697.00 ft	Diameter: 3.80 inches	Volume: 51.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 52.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3733.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3706.00	
Shut In Tool	5.00			3711.00	
Hydraulic tool	5.00			3716.00	
Jars	5.00			3721.00	
Safety Joint	3.00			3724.00	
Packer	4.00			3728.00	28.00 Bottom Of Top Packer
Packer	5.00			3733.00	
Stubb	1.00			3734.00	
Perforations	3.00			3737.00	
Recorder	0.00	8321	Inside	3737.00	
Recorder	0.00	8737	Outside	3737.00	
Perforations	25.00			3762.00	
Bullnose	3.00			3765.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49344

**DST#: 3**

ATTN: Julile Burrow s/Jeff

Test Start: 2012.08.04 @ 19:10:37

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
84.00	MW 25%M 75%W	0.896
20.00	WM with oil spots	0.281

Total Length: 104.00 ft

Total Volume: 1.177 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

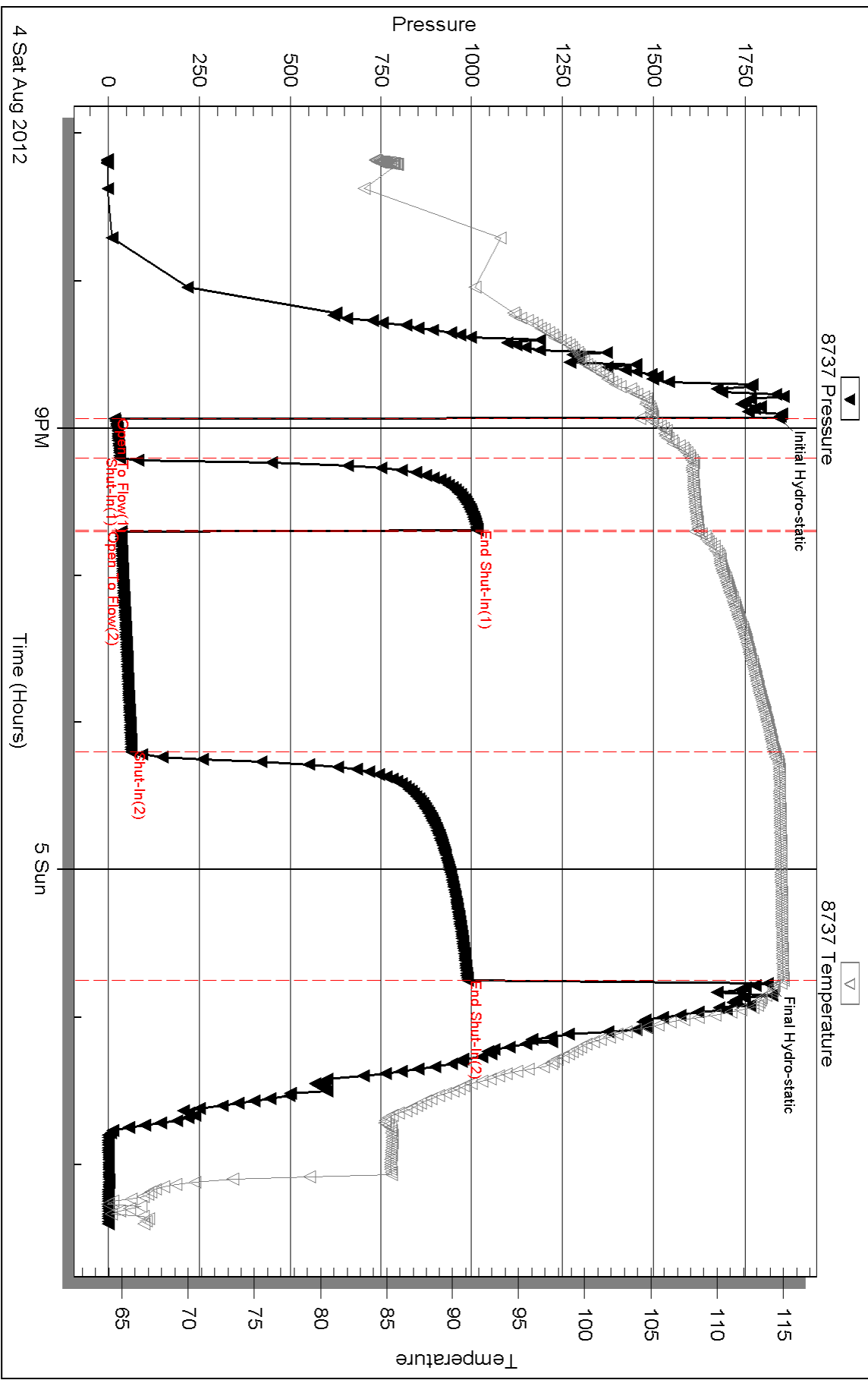
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time



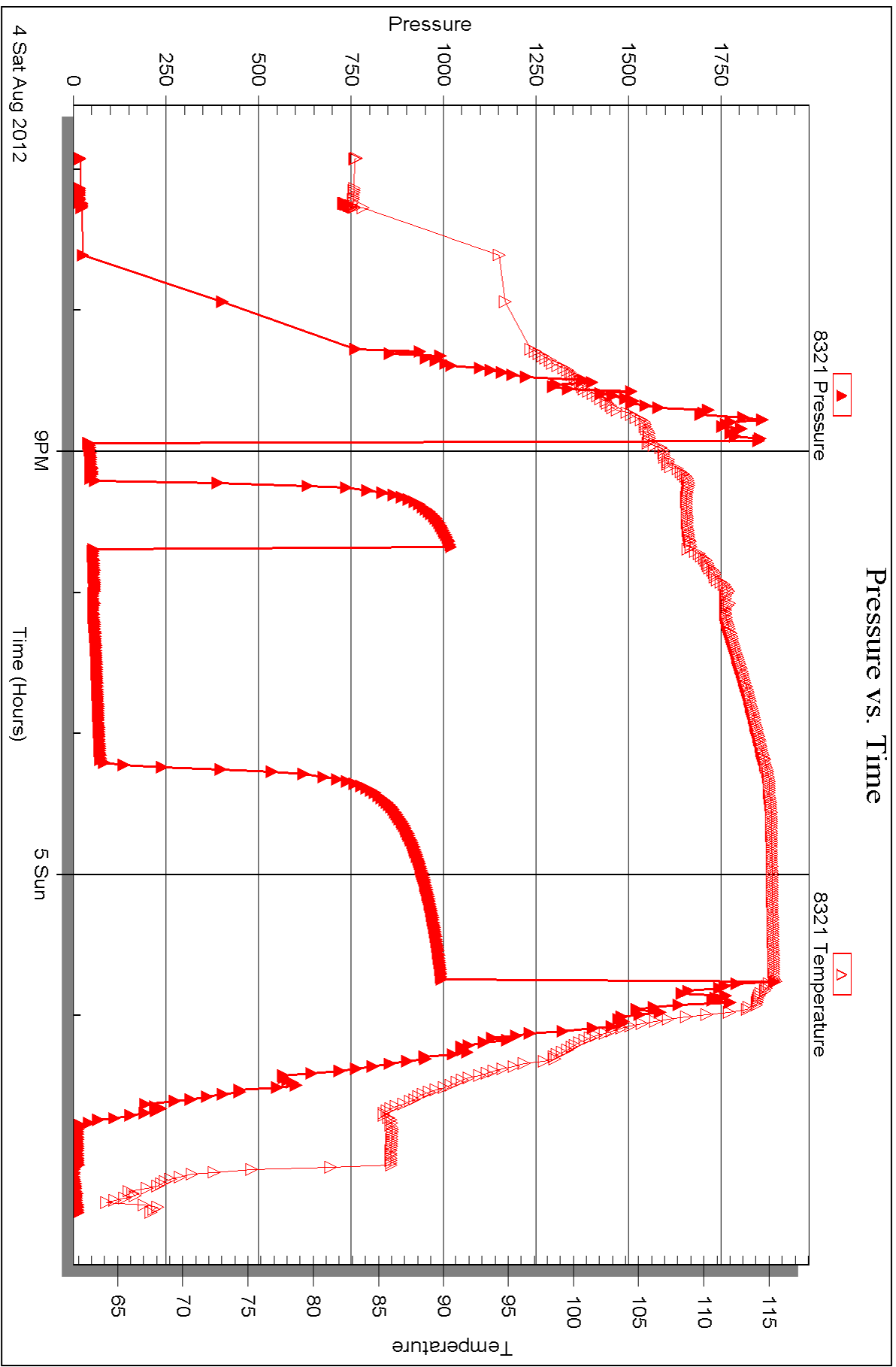
Serial #: 8321

Inside

IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **IA Operating Inc**

9915 W 21St Ste B  
Wichita KS 67205

ATTN: Julile Burrows/Jeff

### **Starr-Schlobohm 29-1**

#### **29-11s-20w Ellis,KS**

Start Date: 2012.08.05 @ 14:34:52

End Date: 2012.08.05 @ 21:43:22

Job Ticket #: 49345                      DST #: 4

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

Printed: 2012.08.09 @ 14:45:06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

IA Operating Inc

29-11s-20w Ellis,KS

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

ATTN: Julile Burrow s/Jeff

Job Ticket: 49345

**DST#: 4**

Test Start: 2012.08.05 @ 14:34:52

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:10:52

Time Test Ended: 21:43:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3835.00 ft (KB) To 3865.00 ft (KB) (TVD)**

Reference Elevations: 2255.00 ft (KB)

Total Depth: 3865.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 784.45 psig @ 3838.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.05

End Date:

2012.08.05

Last Calib.:

2012.08.05

Start Time:

14:34:53

End Time:

21:43:22

Time On Btm:

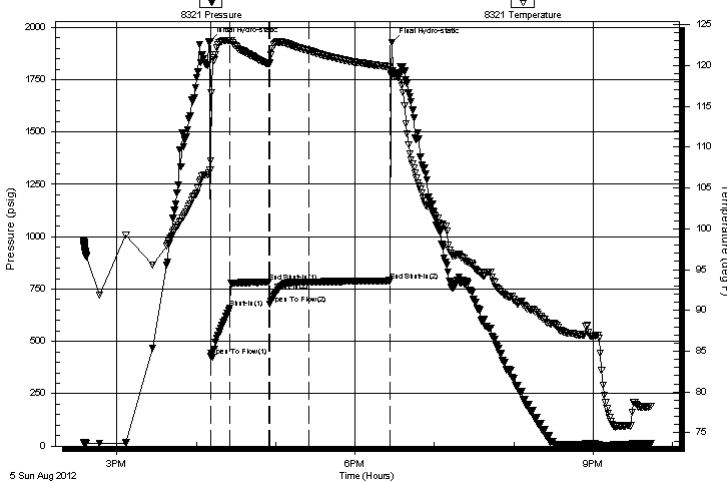
2012.08.05 @ 16:10:22

Time Off Btm:

2012.08.05 @ 18:27:52

**TEST COMMENT:** IFP=Strong blow BOB in 45 sec  
ISI=Dead no blow back  
FFP=Strong blow BOB in 1 min  
FSI=Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.90	107.17	Initial Hydro-static
1	428.43	108.29	Open To Flow (1)
15	660.08	123.06	Shut-In(1)
45	785.08	120.22	End Shut-In(1)
45	678.89	120.30	Open To Flow (2)
75	784.45	121.82	Shut-In(2)
136	789.57	119.85	End Shut-In(2)
138	1927.16	118.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
693.00	SOCMW 10%M 5%O 85%W	9.44
378.00	GOCMW 10%G 15%O 10%M 65%W	5.30
759.00	OCMW 20%O 5%M 75%W	10.65

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49345

**DST#: 4**

ATTN: Julie Burrows/Jeff

Test Start: 2012.08.05 @ 14:34:52

## Tool Information

Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 53.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3835.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	58.00 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			3808.00	
Shut In Tool	5.00			3813.00	
Hydraulic tool	5.00			3818.00	
Jars	5.00			3823.00	
Safety Joint	3.00			3826.00	
Packer	4.00			3830.00	28.00 Bottom Of Top Packer
Packer	5.00			3835.00	
Stubb	1.00			3836.00	
Perforations	2.00			3838.00	
Recorder	0.00	8321	Inside	3838.00	
Recorder	0.00	8737	Outside	3838.00	
Perforations	24.00			3862.00	
Bullnose	3.00			3865.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

IA Operating Inc

**29-11s-20w Ellis,KS**

9915 W 21st Ste B  
Wichita KS 67205

**Starr-Schlobohm 29-1**

Job Ticket: 49345

**DST#: 4**

ATTN: Julile Burrow s/Jeff

Test Start: 2012.08.05 @ 14:34:52

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
693.00	SOCMW 10%M 5%O 85%W	9.439
378.00	GOCMW 10%G 15%O 10%M 65%W	5.302
759.00	OCMW 20%O 5%M 75%W	10.647

Total Length: 1830.00 ft      Total Volume: 25.388 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

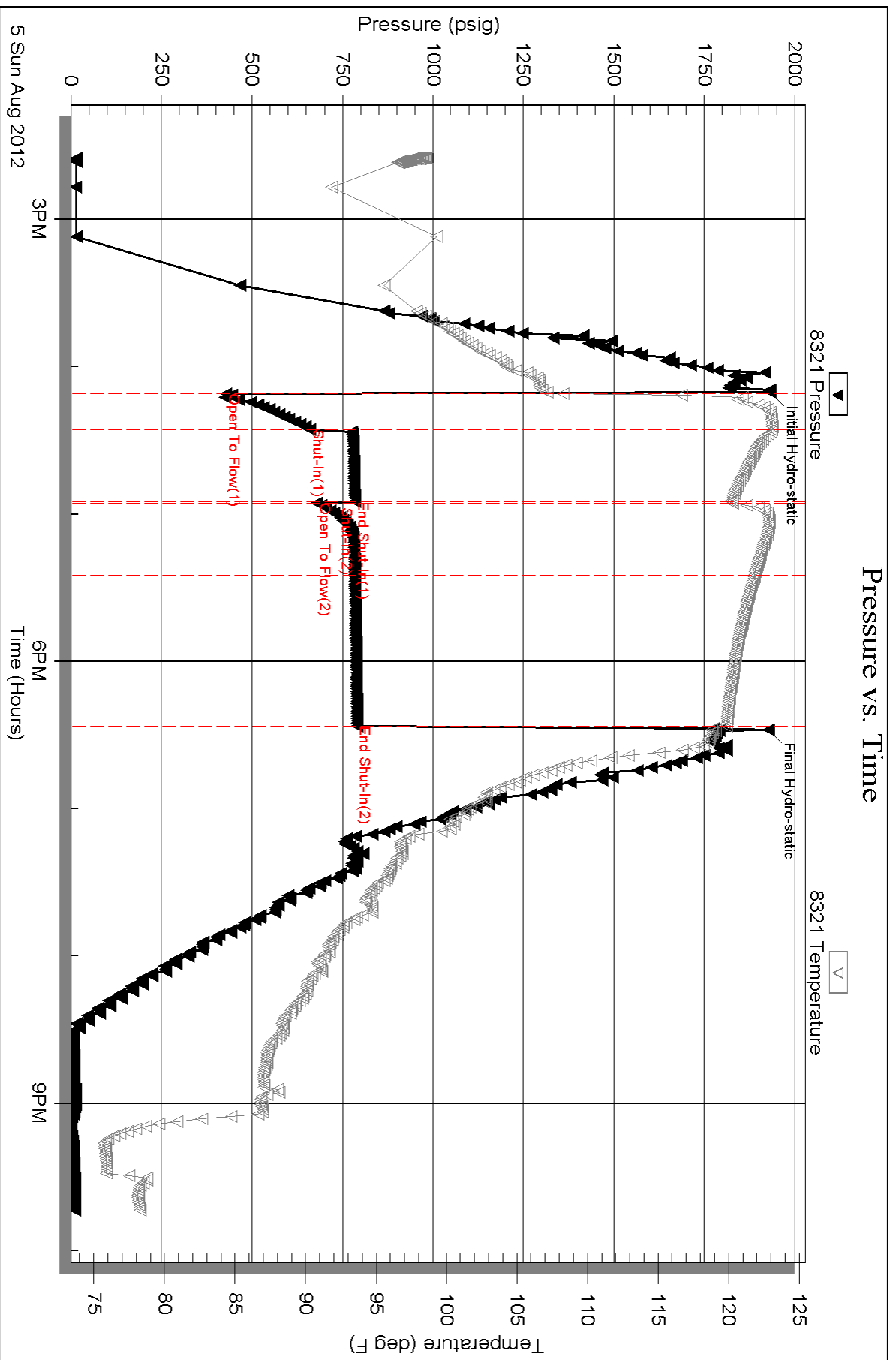
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



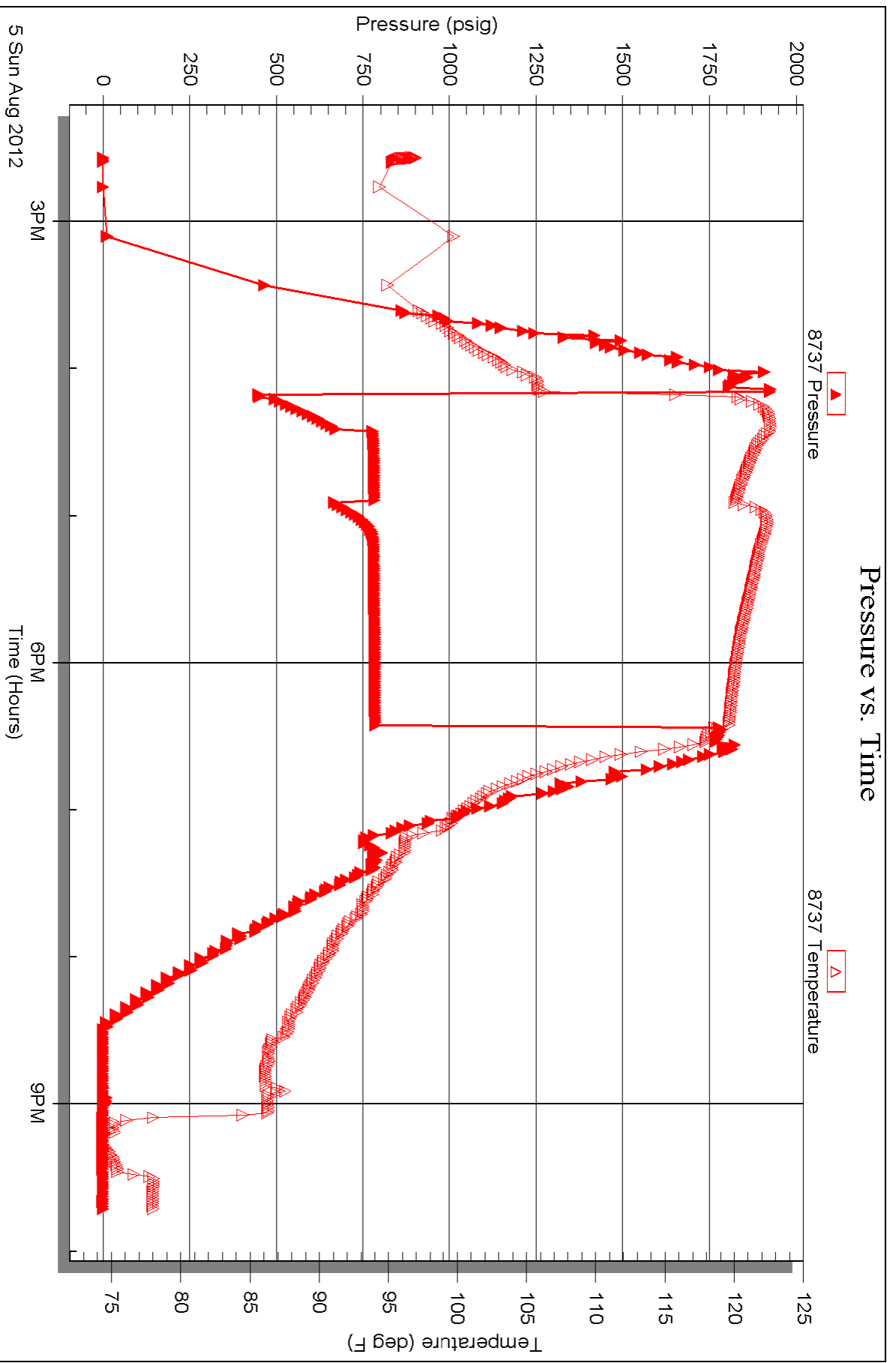


Serial #: 8737

Outside IA Operating Inc

Starr-Schlobohm 29-1

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49342

Well Name & No. Starr Schlobohm 29-1 Test No. 1 Date 8-3-12  
 Company IA Operating INC Elevation 2255 KB 2247 GL  
 Address 9915 W 21 ST STE B WICHITA KS 67205  
 Co. Rep / Geo. BOB STOLZLE Rig Discovery #4  
 Location: Sec. 29 Twp. 11 S Rge. 20 W Co. ELLIS State KS

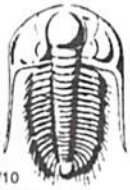
Interval Tested 3540-3595 Zone Tested LKC-A-C  
 Anchor Length 55 Drill Pipe Run 3514 Mud Wt. 8.7  
 Top Packer Depth 3535 Drill Collars Run 31 Vis 49  
 Bottom Packer Depth 3540 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3595 Chlorides 1300 ppm System LCM 3  
 Blow Description IP-Dead Fished Tool Surged Then Died  
IS-Dead No Blow Back  
FP-Dead No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>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 75 BHT 111 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1722</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>5:21</u>
(B) First Initial Flow <u>82</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>6:03</u>
(C) First Final Flow <u>79</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>8:03</u>
(D) Initial Shut-In <u>603</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:53</u>
(E) Second Initial Flow <u>84</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:37</u>
(F) Second Final Flow <u>82</u>	<input checked="" type="checkbox"/> Mileage <u>52 RT</u> 80.60	Comments <u>Tool Set 8 Feet</u>
(G) Final Shut-In	<input type="checkbox"/> Sampler	<u>Fluid Tripped about 15 Feet</u>
(H) Final Hydrostatic <u>1731</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>600</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>20</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In	<input type="checkbox"/> Day Standby	Total <u>1555.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1555.60</u>	

Approved By \_\_\_\_\_ Our Representative Jeff Brown  
 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. 49343

Well Name & No. Starr Schlobhm 29-1 Test No. 2 Date 8-4-12  
 Company IA Operating INC Elevation 2255 KB 2247 GL  
 Address 915 W 21ST STE B WICHITA KS 67205  
 Co. Rep / Geo. BOB STOLZLE Rig Discovery #4  
 Location: Sec. 29 Twp. 11S Rge. 20W Co. ELLIS State KS

Interval Tested 3668-3735 Zone Tested LKC-H-I-I  
 Anchor Length 67 Drill Pipe Run 3635 Mud Wt. 9.0  
 Top Packer Depth 3663 Drill Collars Run 31 Vis 50  
 Bottom Packer Depth 3668 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3735 Chlorides 1300 ppm System LCM 3

Blow Description FF Fair Blow Built TO 9 IN  
IF-Dead NO Blow Back  
FF Good Blow BOB IN 13 1/2 min  
FSI-Weak surface Blow Back Died out in 6 min

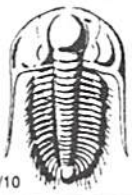
Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>MC GO</u>	<u>10</u>	<u>55</u>	<u>35</u>	<u></u>
<u>53</u>	<u>GASSY oil</u>	<u>25</u>	<u>75</u>	<u></u>	<u></u>
<u></u>	<u>419-GIP</u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

Rec Total 179 BHT 115 Gravity 30 API RW  @  °F Chlorides  ppm

(A) Initial Hydrostatic 1817  Test 1150 T-On Location 4:32  
 (B) First Initial Flow 51  Jars 250 T-Started 4:50  
 (C) First Final Flow 74  Safety Joint 75 T-Open 6:44  
 (D) Initial Shut-In 1004  Circ Sub T-Pulled 9:59  
 (E) Second Initial Flow 76  Hourly Standby T-Out 12:02  
 (F) Second Final Flow 104  Mileage 80.60 Comments   
 (G) Final Shut-In 872  Sampler   
 (H) Final Hydrostatic 1701  Straddle   Ruined Shale Packer   
 Shale Packer   Ruined Packer   
 Extra Packer   Extra Copies   
 Extra Recorder  Sub Total 0  
 Day Standby  Total 1555.60  
 Accessibility  MP/DST Disc't   
 Sub Total 1555.60

Approved By  Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49344

Well Name & No. Starr schlobhm 29-1 Test No. 3 Date 8-4-12  
 Company IA Operating INC Elevation 2255 KB 2247 GL  
 Address 9915 W 21ST STE B Wichita KS 67205  
 Co. Rep / Geo. BOB STOLZLE Rig Discovery #4  
 Location: Sec. 29 Twp. 11s Rge. 20w Co. ELLIS State KS

Interval Tested 3733-3765 Zone Tested LKC-K  
 Anchor Length 32 Drill Pipe Run 3697 Mud Wt. 8.9  
 Top Packer Depth 3728 Drill Collars Run 31 Vis 201  
 Bottom Packer Depth 3733 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3765 Chlorides 1300 ppm System LCM 3  
 Blow Description FP-Dead NO Blow  
1st-Dead NO Blow Back  
FP-Weak Blow Built TO 3/8 IN  
FSI-Dead NO Blow Back

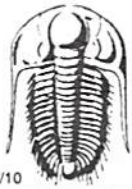
Rec	Feet of	%gas	%oil	%water	%mud
<u>84</u>	<u>MW</u>			<u>75</u>	<u>25</u>
<u>20</u>	<u>WM WITH OIL SPOTS</u>			<u>20</u>	<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 104 BHT 115 Gravity \_\_\_\_\_ API RW 267 @ 58.5° F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>1843</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>19:04</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>19:10</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:57</u>
(D) Initial Shut-In <u>1017</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>00:42</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:23</u>
(F) Second Final Flow <u>64</u>	<input checked="" type="checkbox"/> Mileage <u>80.60</u>	Comments _____
(G) Final Shut-In <u>989</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1812</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>90</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1555.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1555.60</u>	

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49345

Well Name & No. Starr schlobhm 29-1 Test No. 4 Date 8-5-12  
 Company IA Operating INC Elevation 2255 KB 2247 GL  
 Address 9915 W 21st St B Wichita KS 67205  
 Co. Rep / Geo. Bob Stolze Rig Discovery #4  
 Location: Sec. 29 Twp. 11S Rge. 20W Co. ELLIS State KS

Interval Tested 3835-3865 Zone Tested Arbuckle  
 Anchor Length 30 Drill Pipe Run 3794 Mud Wt. 9.0  
 Top Packer Depth 3830 Drill Collars Run 31 Vis 55  
 Bottom Packer Depth 3835 Wt. Pipe Run 0 WL 6.2  
 Total Depth 3865 Chlorides 1300 ppm System LCM 3  
 Blow Description IFP-Strong Blow BOB IN 45 sec  
ISI-Dead No Blow Back  
AF-Strong Blow BOB IN 1 min  
FSI-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>693</u>	<u>50cmw</u>	<u>5</u>	<u>85</u>	<u>10</u>	<u>0</u>
<u>378</u>	<u>60cmw</u>	<u>10</u>	<u>15</u>	<u>65</u>	<u>10</u>
<u>759</u>	<u>0cmw</u>	<u>20</u>	<u>75</u>	<u>5</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1830 BHT 120 Gravity \_\_\_\_\_ API RW 268 @ 78.5 °F Chlorides 23,000 ppm

(A) Initial Hydrostatic <u>1933</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:19</u>
(B) First Initial Flow <u>428</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:34</u>
(C) First Final Flow <u>660</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:10</u>
(D) Initial Shut-In <u>785</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:25</u>
(E) Second Initial Flow <u>679</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>21:43</u>
(F) Second Final Flow <u>784</u>	<input checked="" type="checkbox"/> Mileage <u>80.60</u>	Comments _____
(G) Final Shut-In <u>790</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1927</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>40</u>	<input type="checkbox"/> Day Standby _____	Total <u>1555.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1555.60</u>	

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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