

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

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

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	Marston Unit 1-36
Doc ID	1306615

All Electric Logs Run

Dual Compensated Porosity
Neutron Density
Microresistivity
Sonic
Gamma Ray

Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	Marston Unit 1-36
Doc ID	1306615

Tops

Name	Top	Datum
Anhydrite	1404	603
Stotler	2772	-765
Topeka	2962	-955
Heebner	3171	-1164
Toronto	3192	-1185
Lansing	3210	-1203
Stark Sh	3392	-1385
BKC	3430	-1423
Conglomerate	3461	-1454
Arbuckle	3490	-1483



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067568

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Oakley, TX

DATE <u>2/30/14</u>	SEC <u>36</u>	TWP <u>8</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00</u>	JOB FINISH <u>1:30</u>
LEASE <u>Morgan unit</u>	WELL# <u>1-36</u>	LOCATION <u>Zurich 3E TO A13 5N</u>			COUNTY <u>Hooks</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>WTRTO</u>				

CONTRACTOR <u>WW 12</u>	
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>6 7/8</u>	T.D.
CASING SIZE <u>8 5/8</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>15.73</u>	

OWNER <u>Same</u>
CEMENT
AMOUNT ORDERED <u>230 lbm 370 cc</u> <u>14 Feb 2014</u>

COMMON <u>230</u>	@	<u>17.00</u>	<u>4117.00</u>
POZMIX	@		
GEL	@		
CHLORIDE <u>649 lb</u>	@	<u>1.00</u>	<u>713.00</u>
ASC	@		
<u>Fw seal 58 lb</u>	@	<u>2.22</u>	<u>172.26</u>
	@		
	@		
	@		
	@		
	@		
	@		

TOTAL 5,003.16  
DISCOUNT 48% 2401.51

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Abel Ryan</u>
# <u>818-281</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK	
# <u>891-287</u>	DRIVER <u>Mandy Phillips</u>
BULK TRUCK	
#	DRIVER

REMARKS:

Ran Log, Circulate, Mix Cement, Displace Cement, Shut in  
Cement Bid Circulate  
Thank You  
Blanchard, Mandy

SERVICE

HANDLING <u>247 CF</u>	@	<u>2.48</u>	<u>612.56</u>
MILEAGE <u>2.25</u>	@	<u>41.16</u>	<u>920.10</u>
DEPTH OF JOB		<u>262'</u>	
PUMP TRUCK CHARGE			<u>1512.25</u>
EXTRA FOOTAGE	@		
HV MILEAGE <u>30</u>	@	<u>7.20</u>	<u>231.00</u>
LV MILEAGE <u>30</u>	@	<u>4.40</u>	<u>132.00</u>
	@		
	@		

TOTAL 3,408.51  
DISCOUNT 48% 1636.08

CHARGE TO: Day Star Petroleum  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

@		[*]
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To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

	@	[2]
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

DISCOUNT \_\_\_\_\_ % \_\_\_\_\_

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

TOTAL CHARGES 8,411.67

DISCOUNT 4,037.60 (48%) IF PAID IN 30 DAYS

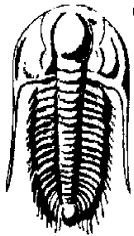
NET TOTAL 4,374.06 IF PAID IN 30 DAYS

Bid

PRINTED NAME Carter F. ...

SIGNATURE [Signature]

\_\_\_\_\_



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 64925      **DST#: 1**  
Test Start: 2016.04.02 @ 10:35:32

## GENERAL INFORMATION:

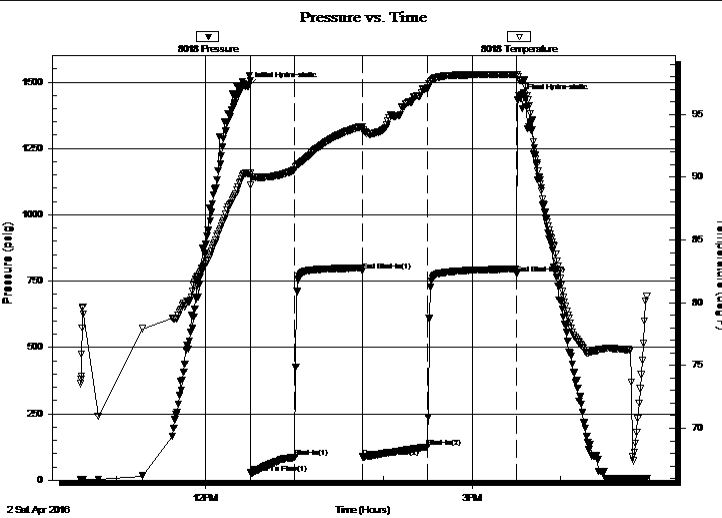
Formation: **Oread**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 12:30:27  
Time Test Ended: 16:58:26  
Interval: **3098.00 ft (KB) To 3160.00 ft (KB) (TVD)**  
Total Depth: 3160.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Reference Elevations: 2007.00 ft (KB)  
1999.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8018

Inside

Press @ Run Depth: 124.95 psig @ 3104.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.04.02      End Date: 2016.04.02      Last Calib.: 2016.04.02  
Start Time: 10:35:32      End Time: 16:58:26      Time On Btm: 2016.04.02 @ 12:28:42  
Time Off Btm: 2016.04.02 @ 15:32:26

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 3" bl  
45-ISIP-no bl  
45-FFP-w k bl thru-out surface to 1 1/2" bl  
60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.25	90.32	Initial Hydro-static
2	27.22	89.37	Open To Flow (1)
32	85.75	90.61	Shut-In(1)
77	787.65	94.05	End Shut-In(1)
78	88.08	93.78	Open To Flow (2)
121	124.95	97.06	Shut-In(2)
182	778.60	98.19	End Shut-In(2)
184	1437.79	97.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	1.52
35.00	MW 40%M60%W	0.49

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 64925      **DST#: 1**

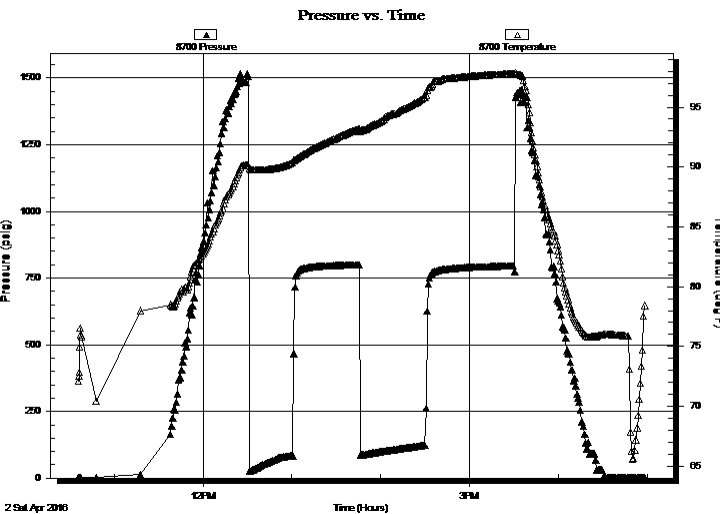
Test Start: 2016.04.02 @ 10:35:32

## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:30:27  
 Time Test Ended: 16:58:26  
**Interval: 3098.00 ft (KB) To 3160.00 ft (KB) (TVD)**  
 Total Depth: 3160.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2007.00 ft (KB)  
 1999.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8700**      **Outside**  
 Press @ Run Depth:      psig @ 3104.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2016.04.02      End Date: 2016.04.02      Last Calib.: 2016.04.02  
 Start Time: 10:35:55      End Time: 16:58:49      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/4" to 3" bl  
 45-ISIP-no bl  
 45-FFP-w k bl thru-out surface to 1 1/2" bl  
 60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water	1.52
35.00	MW 40%M60%W	0.49

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 64925

**DST#: 1**

Test Start: 2016.04.02 @ 10:35:32

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 5.60 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 91000 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	1.516
35.00	MW 40%M60%W	0.491

Total Length: 221.00 ft      Total Volume: 2.007 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

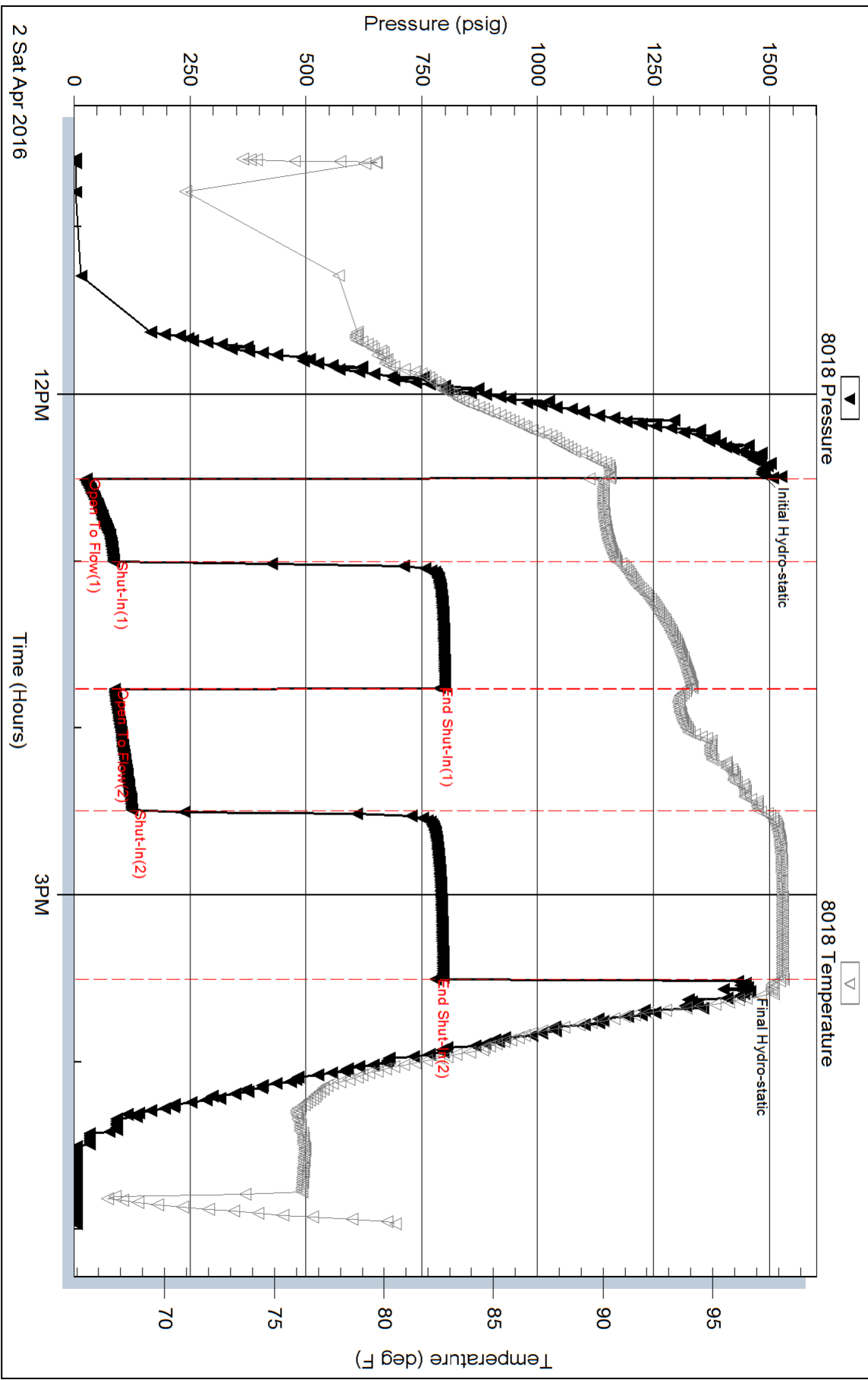
Serial #:

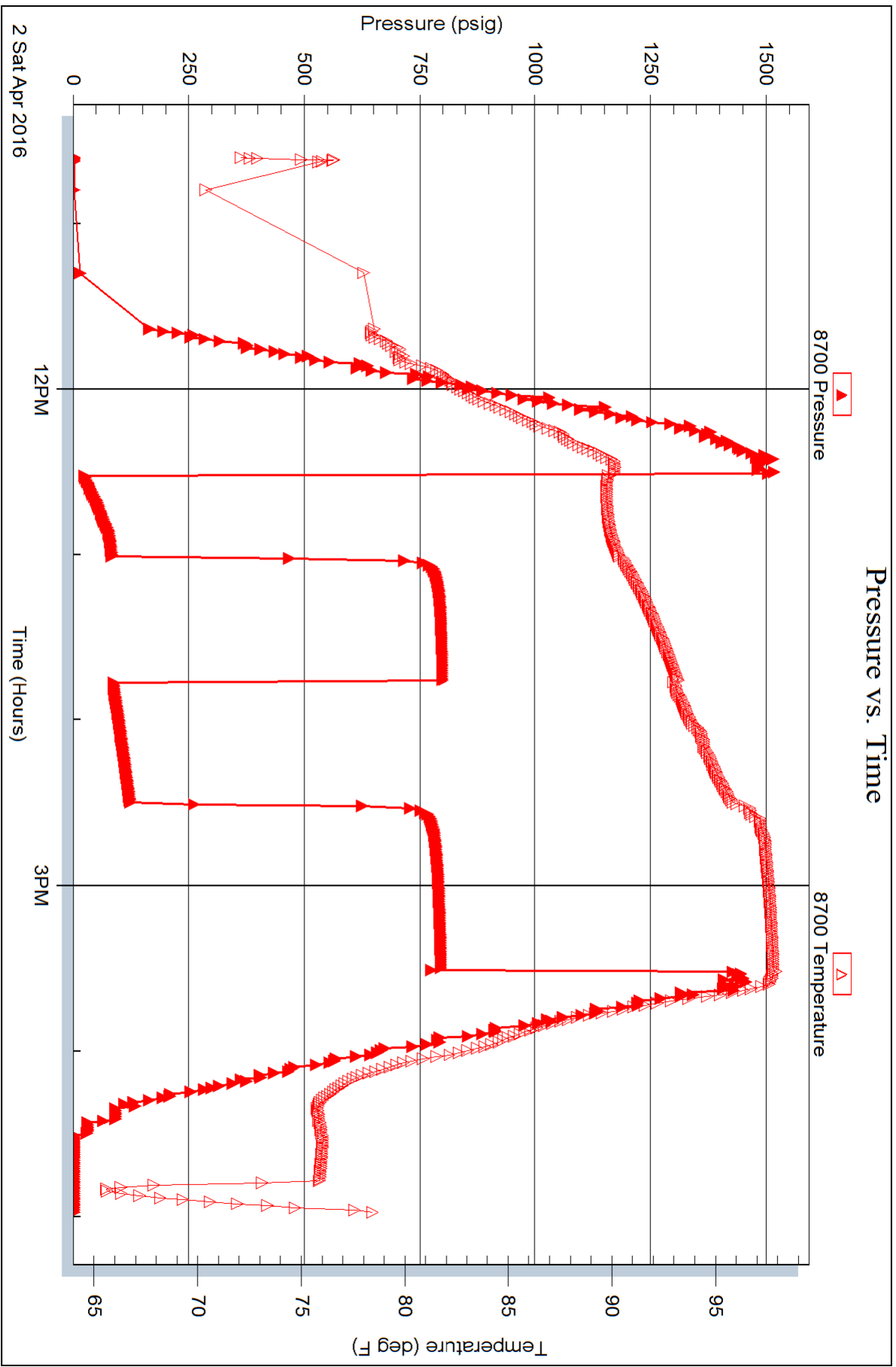
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08@73F

### Pressure vs. Time







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc  
 522 N. Main St.  
 PO Box 560  
 Eureka, Ks 67045-0506  
 ATTN: Matt Osborn, Brad Rin

**36-8s-19w Rooks**  
**Marston Unit #1-36**  
 Job Ticket: 65451 **DST#: 2**  
 Test Start: 2016.04.03 @ 01:20:11

## GENERAL INFORMATION:

Formation: **LKC "A"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:04:21  
 Time Test Ended: 05:57:20  
 Interval: **3203.00 ft (KB) To 3224.00 ft (KB) (TVD)**  
 Total Depth: 3224.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2007.00 ft (KB)  
 1999.00 ft (CF)  
 KB to GR/CF: 8.00 ft

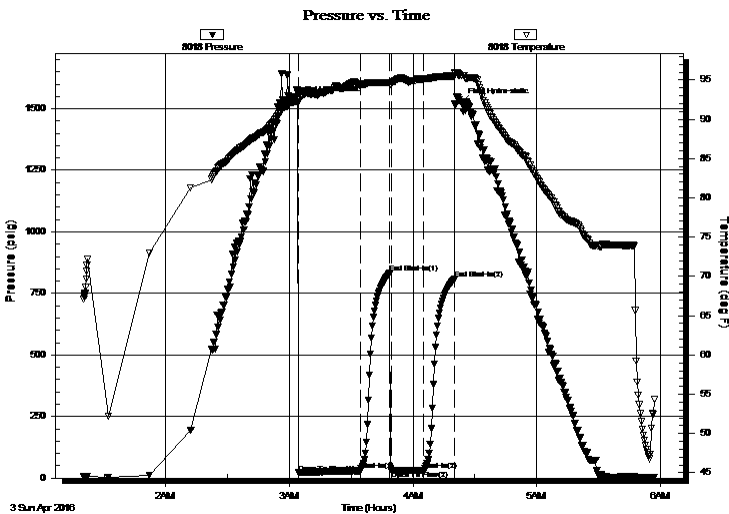
## Serial #: 8018

Inside

Press @ Run Depth: 32.99 psig @ 3204.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.04.03 End Date: 2016.04.03 Last Calib.: 2016.04.03  
 Start Time: 01:20:11 End Time: 05:57:20 Time On Btm: 2016.04.03 @ 03:01:21  
 Time Off Btm: 2016.04.03 @ 04:23:36

TEST COMMENT: 30-IFP-surface bl died in 25min  
 15-ISIP-no bl  
 15-FFP-no bl  
 15-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.39	92.18	Initial Hydro-static
3	21.51	92.10	Open To Flow (1)
33	31.96	94.45	Shut-In(1)
48	831.72	94.69	End Shut-In(1)
48	31.82	94.48	Open To Flow (2)
64	32.99	95.12	Shut-In(2)
79	807.16	95.51	End Shut-In(2)
83	1524.67	95.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

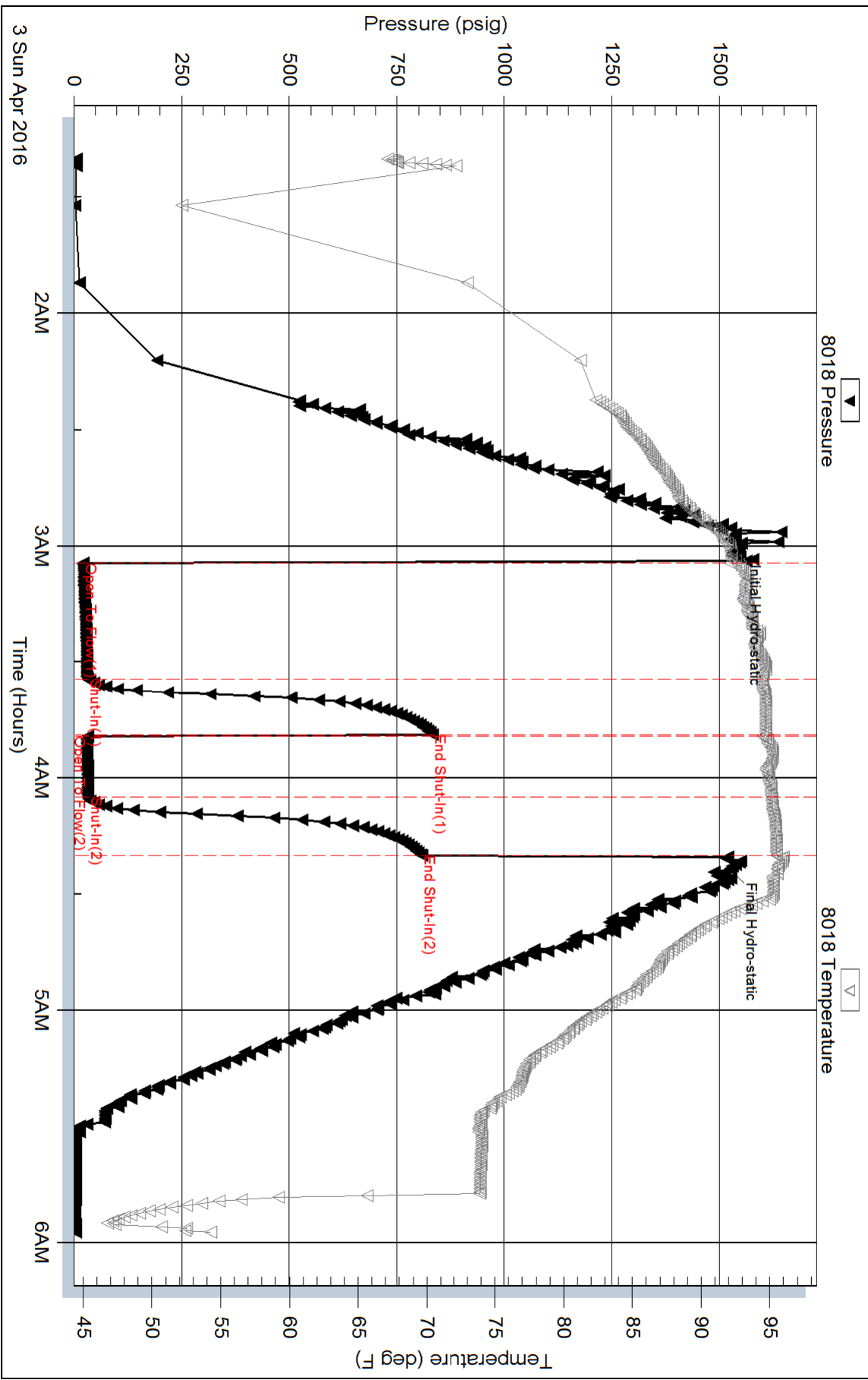
\* Recovery from multiple tests

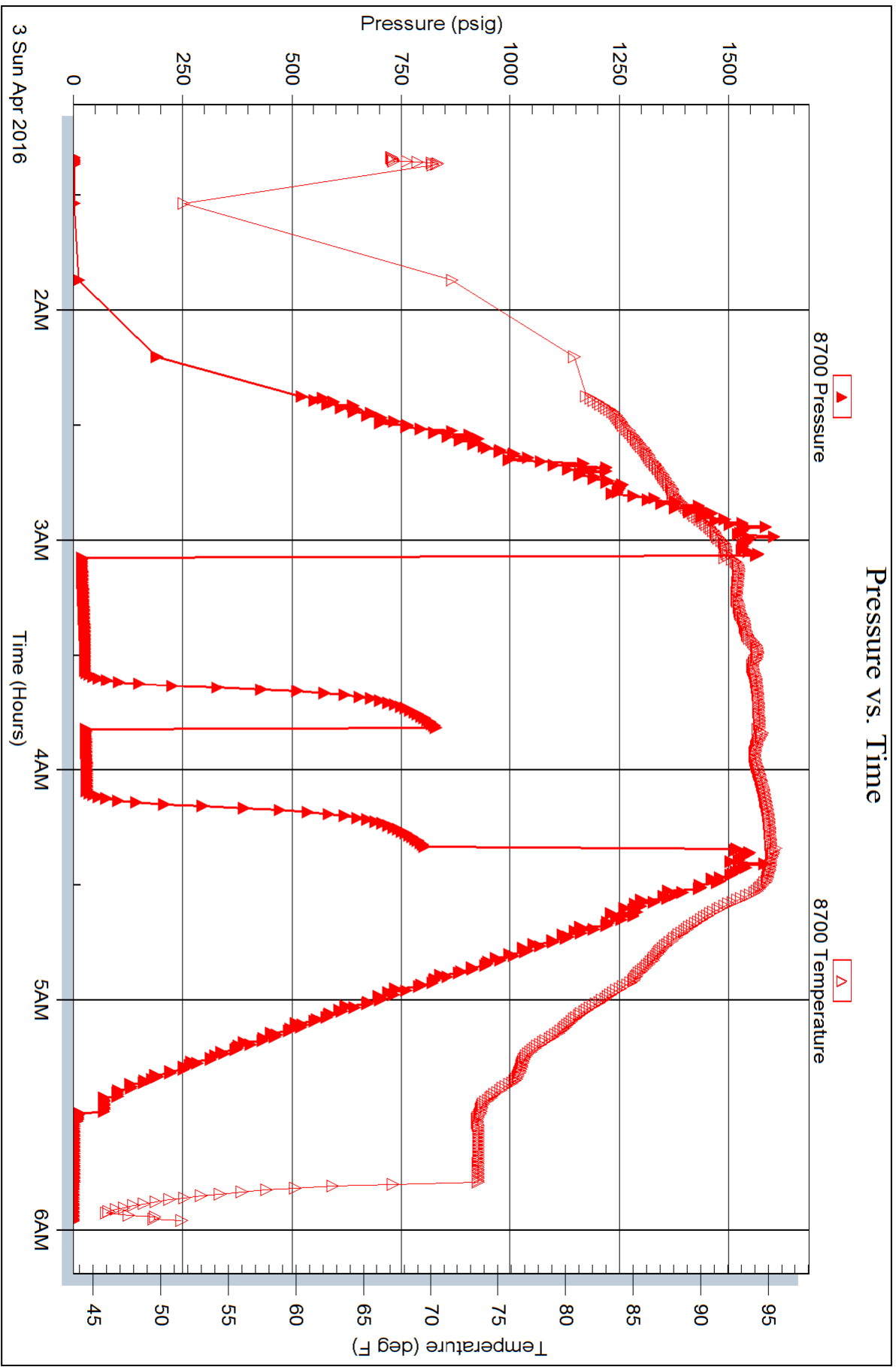
## Gas Rates

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



### Pressure vs. Time









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65452

**DST#: 3**

Test Start: 2016.04.03 @ 14:35:36

## GENERAL INFORMATION:

Formation: **Toronto-LKC A-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:04:46  
 Time Test Ended: 19:21:15  
 Interval: **3171.00 ft (KB) To 3282.00 ft (KB) (TVD)**  
 Total Depth: 3282.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2007.00 ft (KB)  
 1999.00 ft (CF)  
 KB to GR/CF: 8.00 ft

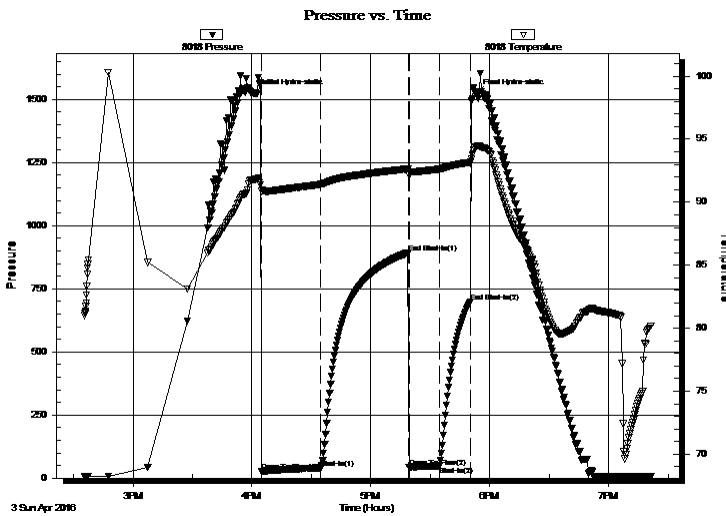
## Serial #: 8018

**Inside**

Press @ Run Depth: 48.78 psig @ 3176.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.04.03 End Date: 2016.04.03 Last Calib.: 2016.04.03  
 Start Time: 14:35:36 End Time: 19:21:15 Time On Btm: 2016.04.03 @ 16:01:31  
 Time Off Btm: 2016.04.03 @ 17:53:16

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 3/4" bl  
 45-ISIP-no bl  
 15-FFP-no bl  
 15-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.48	91.82	Initial Hydro-static
4	26.73	90.86	Open To Flow (1)
34	40.54	91.41	Shut-In(1)
78	893.62	92.65	End Shut-In(1)
78	43.37	92.13	Open To Flow (2)
93	48.78	92.62	Shut-In(2)
109	698.21	93.16	End Shut-In(2)
112	1523.54	94.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud w / show of oil	0.20

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Daystar Petroleum, Inc  
522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

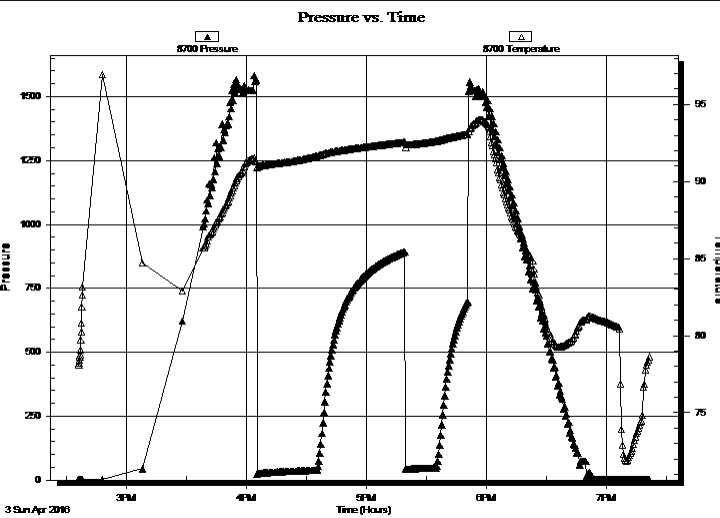
**36-8s-19w Rooks**  
**Marston Unit #1-36**  
Job Ticket: 65452      **DST#: 3**  
Test Start: 2016.04.03 @ 14:35:36

**GENERAL INFORMATION:**

Formation: **Toronto-LKC A-D**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 16:04:46  
Time Test Ended: 19:21:15  
Interval: **3171.00 ft (KB) To 3282.00 ft (KB) (TVD)**  
Total Depth: 3282.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Reference Elevations: 2007.00 ft (KB)  
1999.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8700      Outside**  
Press @ Run Depth:                      psig @ 3176.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.04.03      End Date: 2016.04.03      Last Calib.: 2016.04.03  
Start Time: 14:35:56      End Time: 19:21:35      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/2" to 3/4" bl  
45-ISIP-no bl  
15-FFP-no bl  
15-FSIP-no bl



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
40.00	Mud w / show of oil	0.20

\* Recovery from multiple tests

**Gas Rates**

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

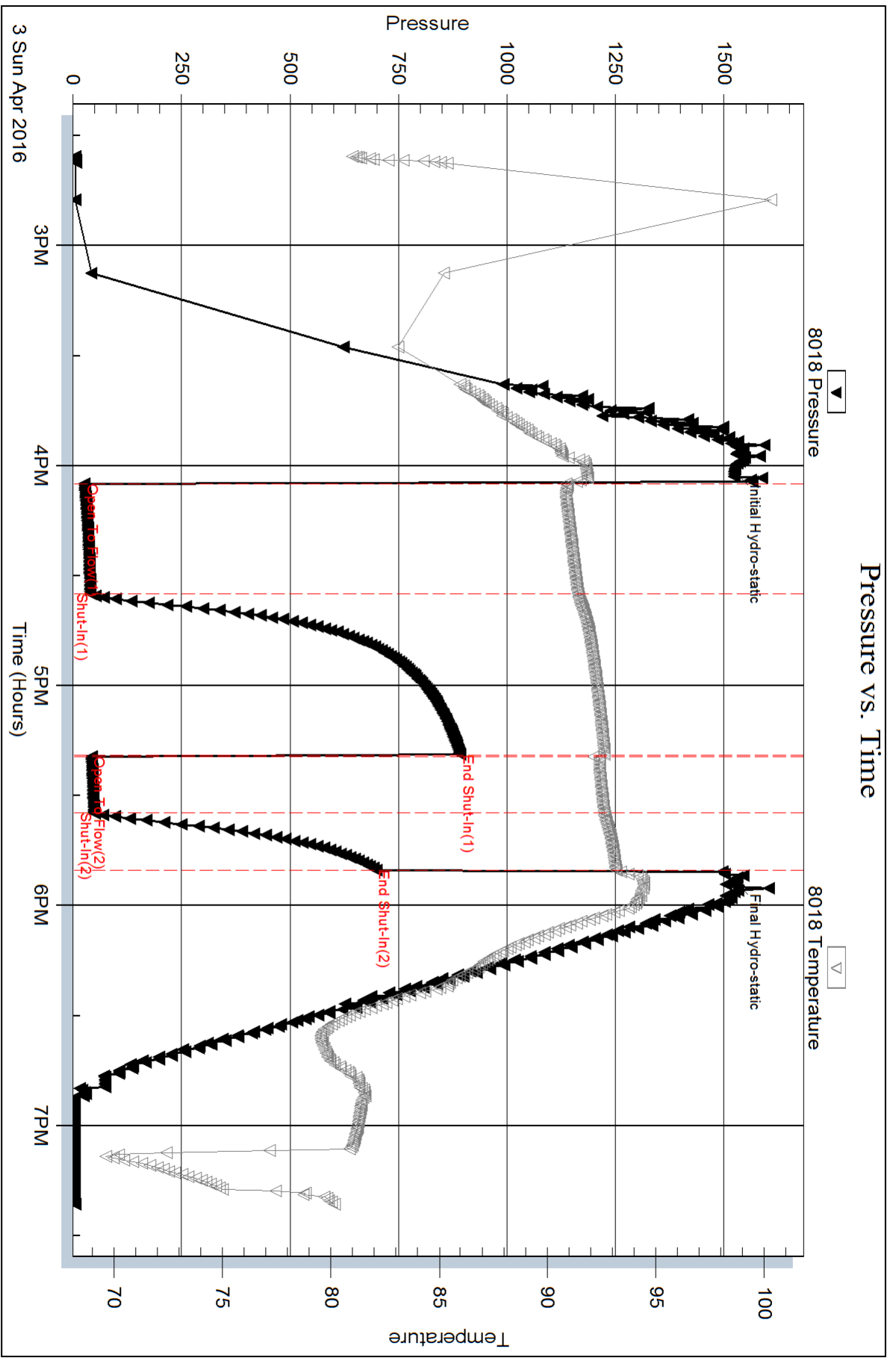
Serial #: 8018

Inside

Daystar Petroleum, Inc

Marston Unit #1-36

DST Test Number: 3

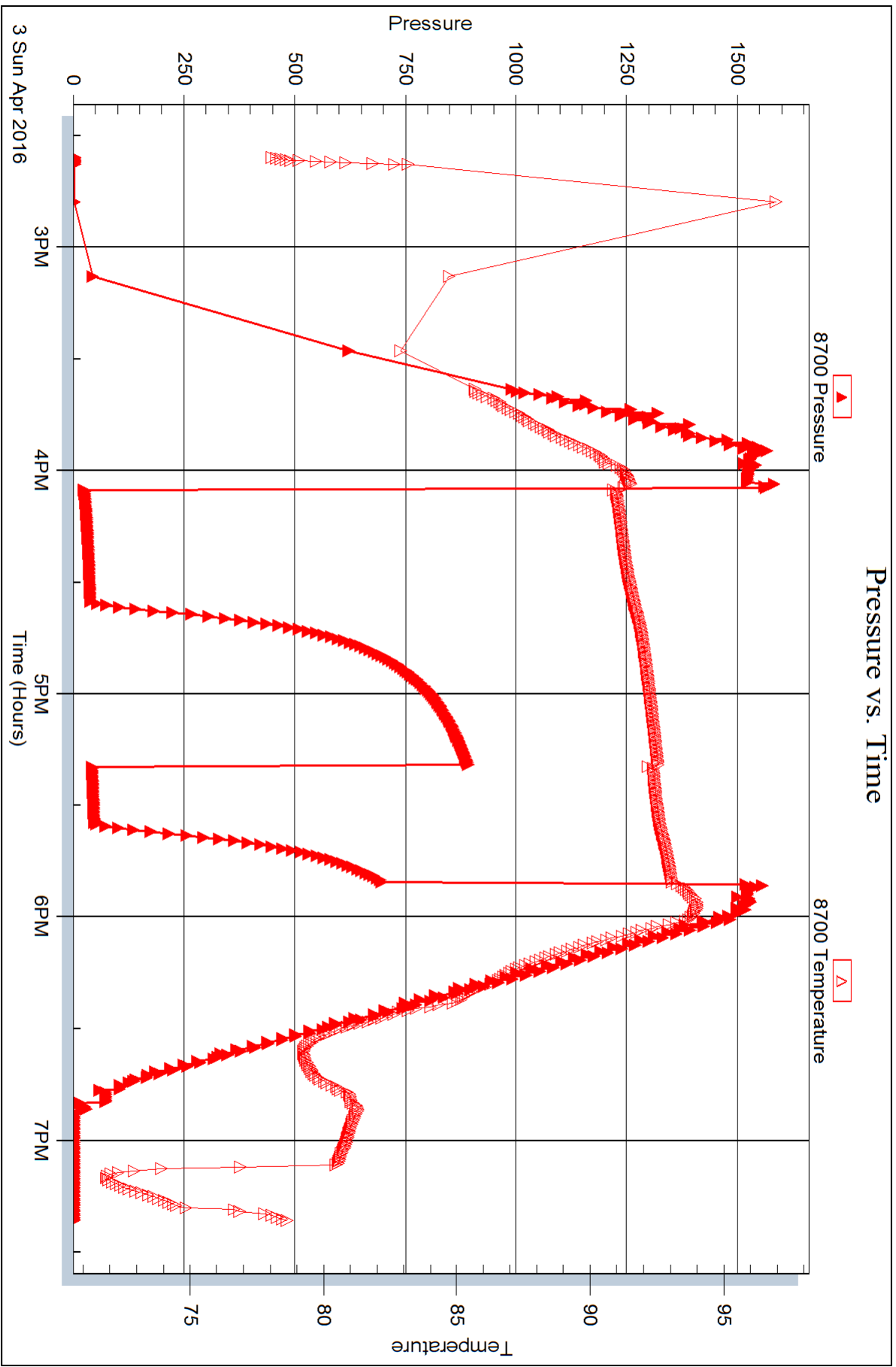


Serial #: 8700

Outside Daystar Petroleum, Inc

Marston Unit #1-36

DST Test Number: 3





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65453 **DST#: 4**

Test Start: 2016.04.04 @ 01:25:41

## GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:17:21

Time Test Ended: 08:06:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

**Interval: 3274.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1999.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 299.45 psig @ 3275.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.04.04

End Date:

2016.04.04

Last Calib.: 2016.04.04

Start Time: 01:25:41

End Time:

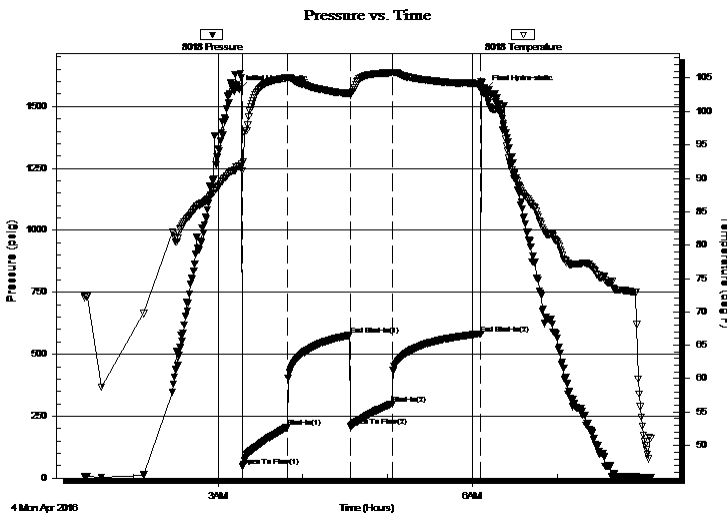
08:06:35

Time On Btm: 2016.04.04 @ 03:14:51

Time Off Btm: 2016.04.04 @ 06:09:20

**TEST COMMENT:** 30-IFP-w k to strg in 5 min  
45-ISIP-no bl  
30-FFP- w k to strg in 25 min  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.67	91.81	Initial Hydro-static
3	45.82	91.18	Open To Flow (1)
34	205.10	105.02	Shut-In(1)
79	576.87	102.64	End Shut-In(1)
79	208.56	102.44	Open To Flow (2)
109	299.45	105.79	Shut-In(2)
171	582.67	104.13	End Shut-In(2)
175	1566.58	102.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
500.00	Water	5.92
90.00	MW 25%M75%W	1.26

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65453

**DST#: 4**

Test Start: 2016.04.04 @ 01:25:41

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 7.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: deg API  
Water Salinity: 71000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	Water	5.921
90.00	MW 25%M75%W	1.262

Total Length: 590.00 ft      Total Volume: 7.183 bbl

Num Fluid Samples: 0

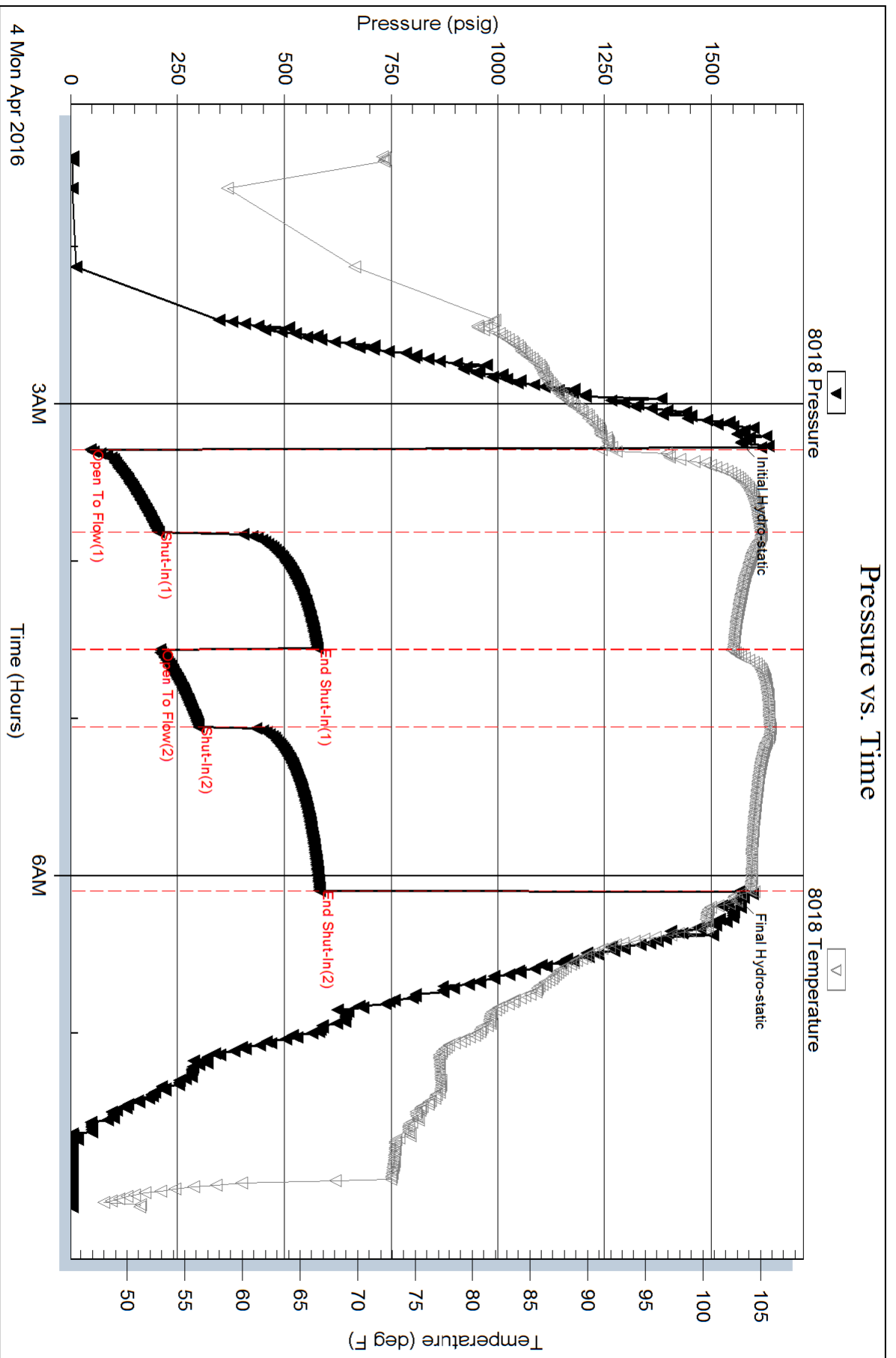
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @67F





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65454

**DST#: 5**

Test Start: 2016.04.04 @ 13:40:50

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:32:30

Time Test Ended: 18:32:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

**Interval: 3305.00 ft (KB) To 3325.00 ft (KB) (TVD)**

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3325.00 ft (KB) (TVD)

1999.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 29.40 psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.04.04

End Date:

2016.04.04

Last Calib.: 2016.04.04

Start Time: 13:40:50

End Time:

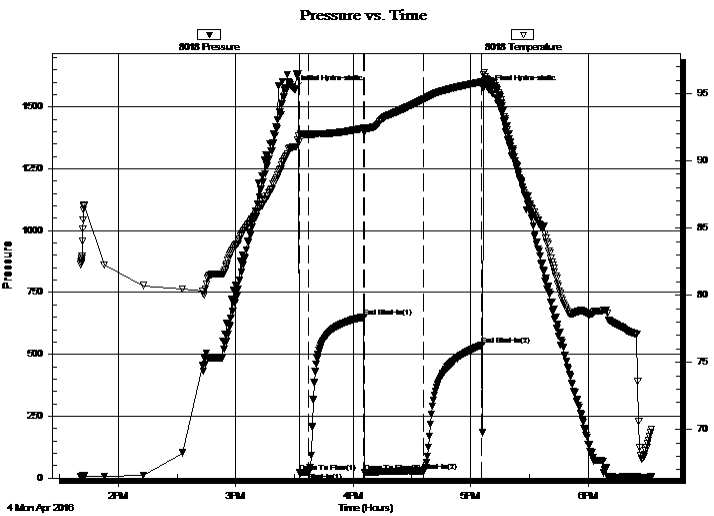
18:32:29

Time On Btm: 2016.04.04 @ 15:30:00

Time Off Btm: 2016.04.04 @ 17:09:15

**TEST COMMENT:** 3-IFP-surface bl thru-out  
30-ISIP-no bl  
30-FFP-surface bl, died in 16min  
30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1571.50	91.03	Initial Hydro-static
3	21.82	91.41	Open To Flow (1)
8	23.40	92.00	Shut-In(1)
36	650.79	92.43	End Shut-In(1)
36	23.87	92.10	Open To Flow (2)
66	29.40	94.58	Shut-In(2)
96	537.87	95.88	End Shut-In(2)
100	1571.47	95.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

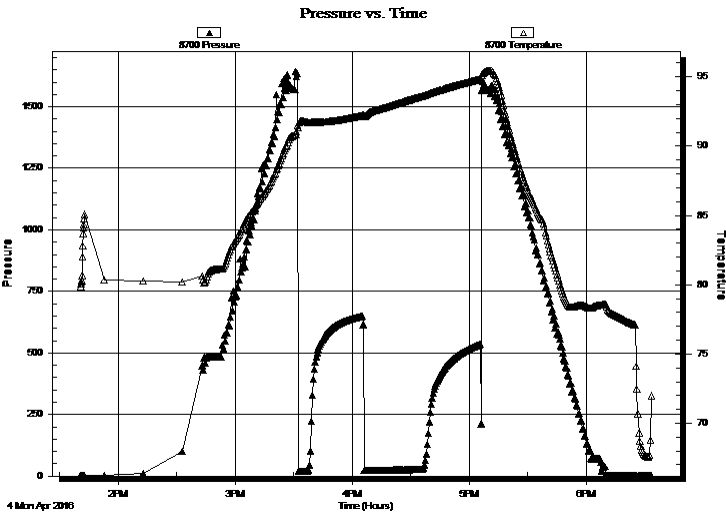
Job Ticket: 65454      **DST#: 5**  
Test Start: 2016.04.04 @ 13:40:50

## GENERAL INFORMATION:

Formation: <b>LKC "G"</b>			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 15:32:30		Tester: Ray Schwager	
Time Test Ended: 18:32:29		Unit No: 77	
<b>Interval: 3305.00 ft (KB) To 3325.00 ft (KB) (TVD)</b>		Reference Elevations: 2007.00 ft (KB)	
Total Depth: 3325.00 ft (KB) (TVD)		1999.00 ft (CF)	
Hole Diameter: 7.85 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft	

<b>Serial #: 8700</b>	<b>Outside</b>				
Press @ Run Depth:	psig @	3306.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2016.04.04	End Date:	2016.04.04	Last Calib.:	2016.04.04
Start Time:	13:40:57	End Time:	18:33:36	Time On Btm:	
				Time Off Btm:	

**TEST COMMENT:** 3-IFP-surface bl thru-out  
30-ISIP-no bl  
30-FFP-surface bl, died in 16min  
30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

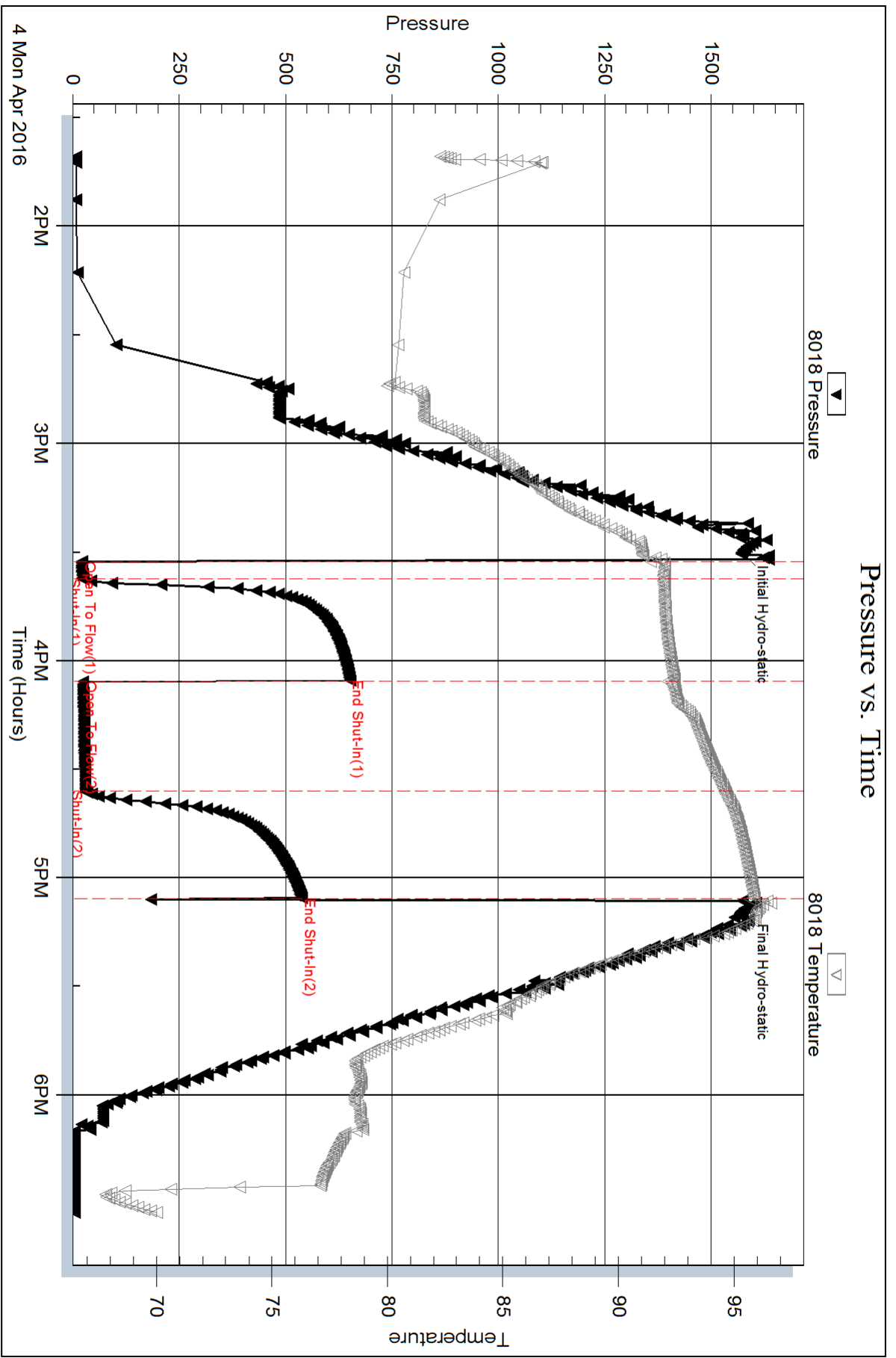
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

\* Recovery from multiple tests

## Gas Rates

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

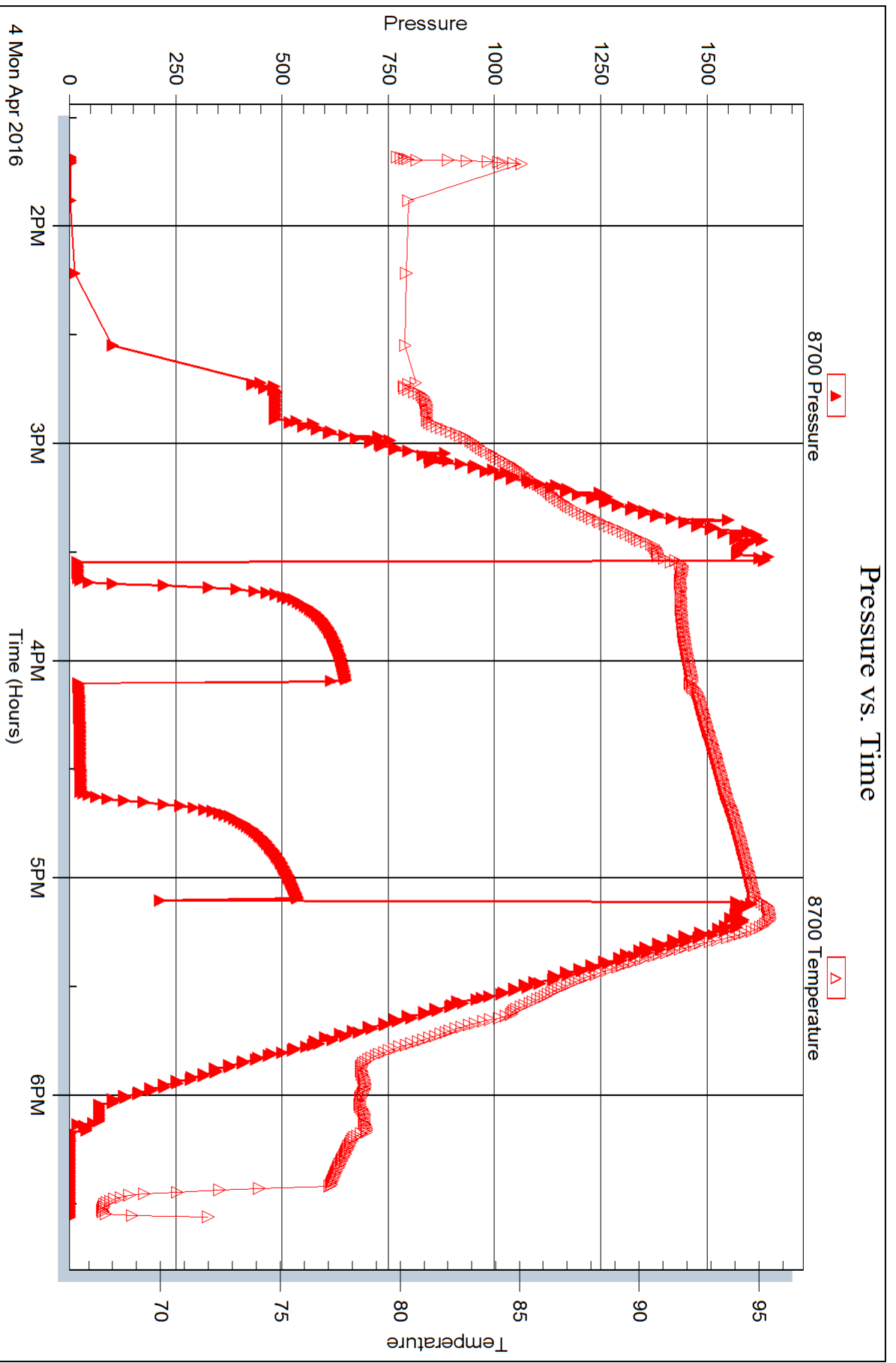


Serial #: 8700

Outside Daystar Petroleum, Inc

Marston Unit #1-36

DST Test Number: 5





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65455 **DST#: 6**  
Test Start: 2016.04.05 @ 09:40:12

## GENERAL INFORMATION:

Formation: **LKC H-L**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:32:37  
Time Test Ended: 15:23:21  
Interval: **3326.00 ft (KB) To 3435.00 ft (KB) (TVD)**  
Total Depth: 3435.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Reference Elevations: 2007.00 ft (KB)  
1999.00 ft (CF)  
KB to GR/CF: 8.00 ft

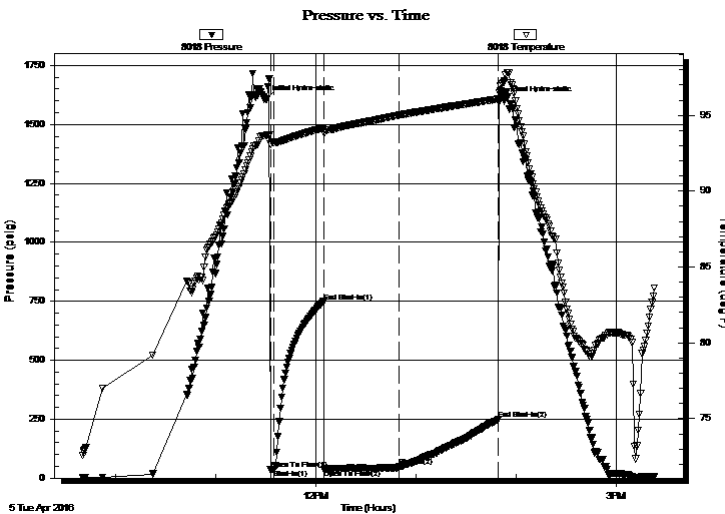
## Serial #: 8018

Inside

Press@RunDepth: 48.42 psig @ 3332.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.04.05 End Date: 2016.04.05 Last Calib.: 2016.04.05  
Start Time: 09:40:12 End Time: 15:23:21 Time On Btm: 2016.04.05 @ 11:29:37  
Time Off Btm: 2016.04.05 @ 13:52:37

TEST COMMENT: 2-IFP-w k bl thru-out 3/4"bl  
30-ISIP-no bl  
45-FFP-no bl 1st 22min, then surface bl for 18 min, died end of 40min  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.66	93.67	Initial Hydro-static
3	35.57	93.10	Open To Flow (1)
6	38.00	93.18	Shut-In(1)
35	749.36	94.17	End Shut-In(1)
36	38.99	93.83	Open To Flow (2)
81	48.42	95.01	Shut-In(2)
140	248.74	96.08	End Shut-In(2)
143	1599.20	97.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 2%O98%M	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Daystar Petroleum, Inc

**36-8s-19w Rooks**

522 N. Main St.  
PO Box 560  
Eureka, Ks 67045-0506  
ATTN: Matt Osborn, Brad Rin

**Marston Unit #1-36**

Job Ticket: 65455

**DST#: 6**

Test Start: 2016.04.05 @ 09:40:12

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 2% O98%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

