

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	Dixon Operating Company, LLC
Well Name	JAS 1-34
Doc ID	1324280

All Electric Logs Run

DIL
MEL
SON
POR

Form	ACO1 - Well Completion
Operator	Dixon Operating Company, LLC
Well Name	JAS 1-34
Doc ID	1324280

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	perf	Treat w/750 gal. 15% MCA	3631-3638
3	perf	Treat w/750 gal. 15% MCA	3576-3584



Customer <b>Dixon Operating</b>	Lease No.	Date <b>10/14/2012</b>
Lease <b>JAS</b>	Well # <b>1-34</b>	
Field Order # <b>13870</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>
		Depth <b>3842</b>
		County <b>S &amp; S Pratt</b>
		State <b>KS</b>
Type Job <b>CNW / 5 1/2 casing</b>	Formation <b>TD-3850</b>	Legal Description <b>34-22-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>5 1/2</b>								
Depth <b>3842</b>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <b>89</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3804</b>	Packer Depth	From	To	Flush <b>Freshwater</b>	Gas Volume		Total Load	

Customer Representative <b>TJ Dixon</b>	Station Manager <b>Kevin Gardner</b>	Treater <b>Darin Franklin</b>
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Service Units	<b>92911</b>	<b>78982</b>	<b>86779</b>	<b>84980</b>	<b>19860</b>				
Driver Names	<b>Darin</b>	<b>Scott</b>	<b>Scott</b>	<b>McBrew</b>	<b>McBrew</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>6:00pm</b>					<b>on location / safety meeting</b>
					<b>5 1/2 casing set at 3842' 17#</b>
					<b>T-4,5,6,7,8,10,11,12,13,16,17,20</b>
					<b>B-3</b>
					<b>200SK BP2 Cement, .25% Defoamer, 10% SSF</b>
					<b>.3% Friction Reducer, 3% mass Chen, 5% Fluid</b>
					<b>Loss, 5 1/2 bbls Gilsonite, 15.0 pps, 143 vels, 5.75 water</b>
<b>10:30pm</b>					<b>Pipe on bottom &amp; break circulation</b>
<b>12:30pm</b>	<b>150</b>		<b>12</b>	<b>5</b>	<b>Pump 12 bbls mud flush</b>
	<b>150</b>		<b>5</b>	<b>5</b>	<b>Pump 5 bbls water</b>
	<b>300</b>		<b>6</b>	<b>6</b>	<b>mix 25SK Squencer cement</b>
	<b>300</b>		<b>51</b>	<b>6</b>	<b>mix 200SK BP2</b>
					<b>Shut down</b>
					<b>Wash pump &amp; lines &amp; Release Plug</b>
<b>12:52pm</b>	<b>150</b>		<b>0</b>	<b>6 1/2</b>	<b>Start displacement</b>
	<b>700</b>		<b>58</b>	<b>6 1/2</b>	<b>lift Pressure</b>
	<b>650</b>		<b>80</b>	<b>3</b>	<b>Slow Rise</b>
<b>1:07pm</b>	<b>1500</b>		<b>86</b>	<b>3</b>	<b>Bump plus</b>
					<b>Flost - Held</b>
	<b>100</b>		<b>8</b>	<b>3</b>	<b>Plus Pgs &amp; mouse hours</b>
<b>1:30pm</b>					<b>Job Complete / Darin &amp; crew</b>

Customer Dixon Operating Lease No. \_\_\_\_\_ Date 10-6-16  
 Lease JAS Well # 1-34  
 Field Order # 13439 Station Pratt Casing 8 5/8 Depth 305 County STAFFORD State KS  
 Type Job CNW 8 5/8 SURFACE Formation \_\_\_\_\_ Legal Description 34-22-17

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>8 5/8</u>	Tubing Size _____	Shots/Ft _____		ACTD <u>300 SK</u>	<u>60/40</u>	RATE <u>7.5</u>	PRESS _____	ISIP _____
Depth <u>308</u>	Depth _____	From _____	To _____	Pre Pad <u>390 CC</u>	<u>25</u>	Max <u>CF</u>		5 Min.
Volume <u>19.6</u>	Volume _____	From _____	To _____	Pad _____		Min _____		10 Min.
Max Press <u>300</u>	Max Press _____	From _____	To _____	Frac _____		Avg _____		15 Min.
Well Connection <u>PC</u>	Annulus Vol. _____	From _____	To _____			HHP Used _____		Annulus Pressure _____
Plug Depth <u>288</u>	Packer Depth _____	From _____	To _____	Flush <u>18.3</u>		Gas Volume _____		Total Load _____

Customer Representative JUAN Station Manager Kevin Goldrey Treater Mike Mattai  
 Service Units 37586 27463 19959 21010  
 Driver Names MATTAI McGraw McQuike

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY Meeting
3:00					run 8 5/8 casing
3:55					casing on bottom
4:05					Hook to casing / Break circ w. Rig
4:13	150		3	4	PUMP 3 bbl WATER
4:14	200		65	5	MIX 300 SKS 60/40 POZ
4:28					DIAP Plug
4:30	200			5	START DISPLACEMENT
4:35	200		18.3		Plug down / Shut in well
					10 bbl amt to pit
					JOB COMPLETE
					Thank You!
					MIKE MATAI
					MIKE + MIKE

# Mud-Co / Service Mud Inc.

Operator Dixon Operating Co. County Stafford State Kansas Pump 6 X 16 X 60 SPM Casing Program 8 5/8" @ 305 ft.  
 Well JAS #1-34 Location Sec 34 TWP 22S RNG 12W D.P. 4.5 in. 430 ft. 396 FT/MIN R.A. GPM 8.82 BPM 218 FT/MIN R.A.  
 Contractor Murfin #24 Sec 34 TWP 22S RNG 12W D.P. 4.5 in. 430 ft. 396 FT/MIN R.A. Total Depth 3850 ft.  
 Stockpoint Pratt, Ks. Date 10/6/2016 Engineer Rick Hughes Caller 6.25 in. 430 ft.

DATE	DEPTH	WEIGHT	See API	PV	VISCOSITY	GELS	pH	FILTRATION	TRACTION ANALYSIS	SAND	REPORT	L.C.M.	PUMP	CUMULATIVE	REMARKS AND TREATMENT				
	feet	lb/gal	@ F	@ F	Yp	10 sec / 10 min	Slip Meter	ml API	cake 32nds	Cl ppm	Ca ppm	%	Solids %	Oil %	Water %	Press. Psi	COST		
10/6	0	8.5		1	1	0/0	12.5	N/C	N/C	1,300	N/C		1.4		98.6		0	RURT	
10/7	450	8.5		1	1	0/0	12.5	N/C	N/C	94m	Hvy		8.6		91.4		2,664	Drig.	Displaced @ 2800
10/8	1936	10.3		3	5	1/1	7.0	N/C	-	5,800	40		4.7		95.3		9,517	Drig.	Bit tip @ 2800
10/9	3148	9.0		16	16	14/42	11.0	7.6	2	9,300	100		5.9		94.1		9,637	TO w/DST #1	DST #1 @ 3392
10/10	3392	9.2		68	15	32/62	10.0	9.6	2	10,4m	50		4.4		95.6		10,317	Drig.	DST #2 @ 3515
10/11	3542	9.0		57	14	28/59	10.5	8.8	2	11.4m	50		6.4		93.6		11,366	DST #4	DST #3 @ 3620
10/12	3670	9.3		65	14	38/46	11.0	9.2	2	15.6m	320		6.2		93.8		11,366	Drig.	DST #4 @ 3670
10/13	3750	9.3		56	9	36/38	9.5	14.8	4	14.2m	80		6.3		93.7		12,137	Final:	DST #5 @ 3694
10/14	3850	9.3		49	11	13/33	11.0	10.4	2										

Materials	Sacks	Amount	Materials	Sacks	Amount	Amount
C/S HULLS	85	1418.65				
CAUSTIC SODA	21	1312.92				
CO-POLY-L	1	171.12				
DRILL PAK	9	2762.10				
LIME	4	40.92				
PREMIUM GEL	329	5629.19				
SODA ASH	19	456.76				
SUPER LIG	13	345.80				
<b>TOTAL MUD COST</b>						<b>12137.46</b>
<b>TRUCKING COST</b>						<b>1309.45</b>
<b>TAXES</b>						
<b>TOTAL COST</b>						<b>13446.91</b>

MUD-CO / SERVICE MUD INC.  
 100 S. Main Suite #310  
 Wichita, Ks. 67202  
 316/264-2814 Fax: 316/264-5024  
 DRILLING MUD RECAP

Reserve Pit. Chl content ppm: 38,500  
 Estimated Volume: 800 bbls of free fluids

LTD - 3849'  
 5 DST's  
 Run Casing.





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 55424

**DST#: 1**

ATTN: Chuck Schmalz

Test Start: 2016.10.10 @ 01:38:43

## GENERAL INFORMATION:

Formation: **Lansing "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:28

Time Test Ended: 08:40:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 3318.00 ft (KB) To 3392.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3392.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8525**

**Inside**

Press@RunDepth: 95.09 psig @ 3319.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.10

End Date:

2016.10.10

Last Calib.:

2016.10.10

Start Time: 01:38:44

End Time:

08:40:28

Time On Btm:

2016.10.10 @ 03:42:58

Time Off Btm:

2016.10.10 @ 06:52:58

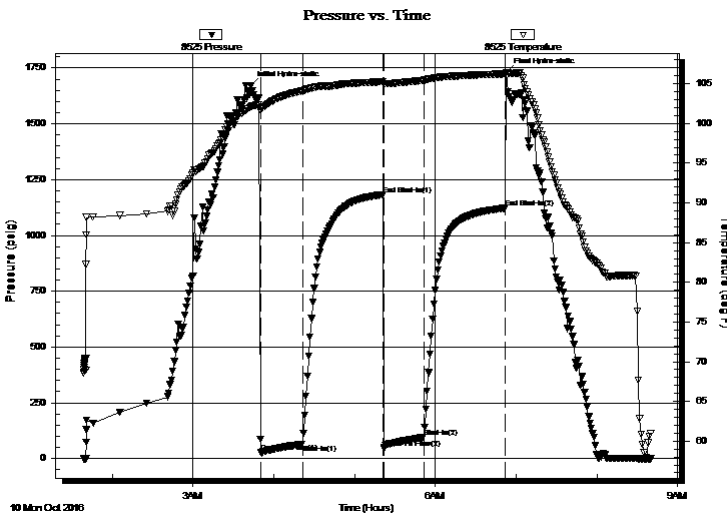
TEST COMMENT: IF: Strong Blow , BOB in 2 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 16 minutes, TSTM, Caught Sample

FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.64	102.12	Initial Hydro-static
8	27.70	102.02	Open To Flow (1)
39	65.65	104.12	Shut-In(1)
99	1182.59	105.27	End Shut-In(1)
100	45.43	105.01	Open To Flow (2)
129	95.09	105.43	Shut-In(2)
190	1123.05	106.25	End Shut-In(2)
190	1730.64	106.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3188 GIP	0.00
130.00	GCM 10%G 90%M	0.64

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 55424

**DST#: 1**

ATTN: Chuck Schmaltz

Test Start: 2016.10.10 @ 01:38:43

## GENERAL INFORMATION:

Formation: **Lansing "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:50:28

Time Test Ended: 08:40:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 3318.00 ft (KB) To 3392.00 ft (KB) (TVD)**

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1850.00 ft (KB)

1839.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6806** **Outside**

Press@RunDepth: psig @ 3319.00 ft (KB)

Start Date: 2016.10.10

End Date:

2016.10.10

Capacity: 8000.00 psig

Last Calib.:

2016.10.10

Start Time: 01:32:44

End Time:

08:39:58

Time On Btm:

Time Off Btm:

## TEST COMMENT:

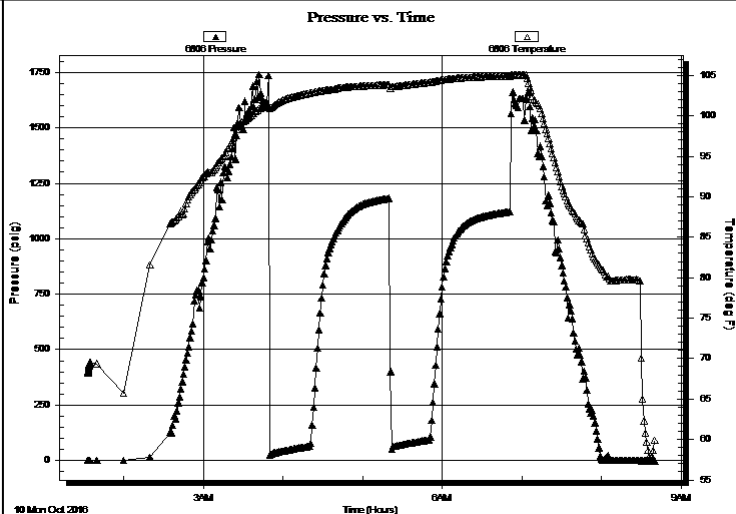
IF: Strong Blow , BOB in 2 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 16 minutes, TSTM, Caught Sample

FS: No Blow Back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3188 GIP	0.00
130.00	GCM 10%G 90%M	0.64

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 55424

**DST#: 1**

ATTN: Chuck Schmaltz

Test Start: 2016.10.10 @ 01:38:43

### 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: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3188 GIP	0.000
130.00	GCM 10%G 90%M	0.639

Total Length: 130.00 ft      Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

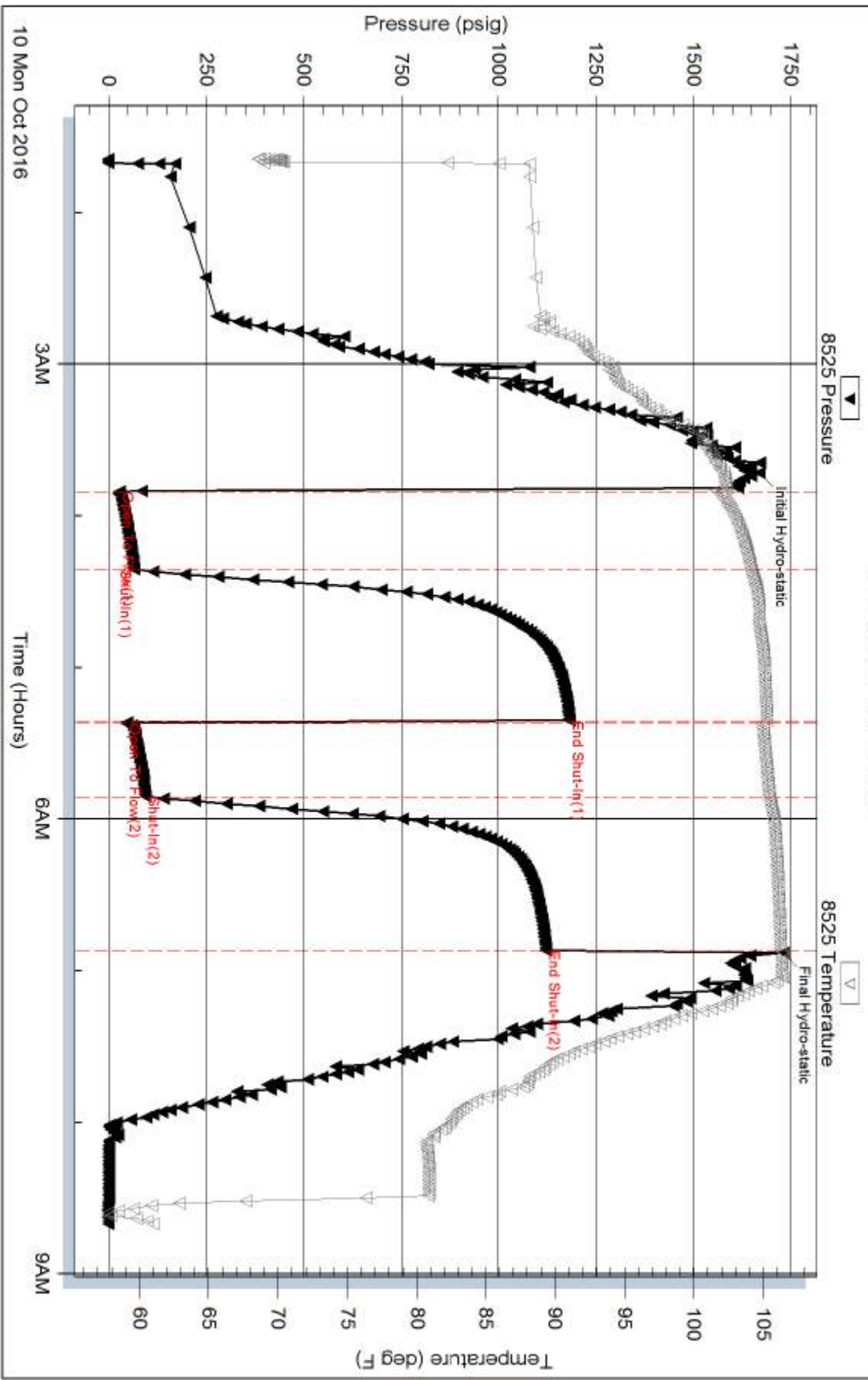
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

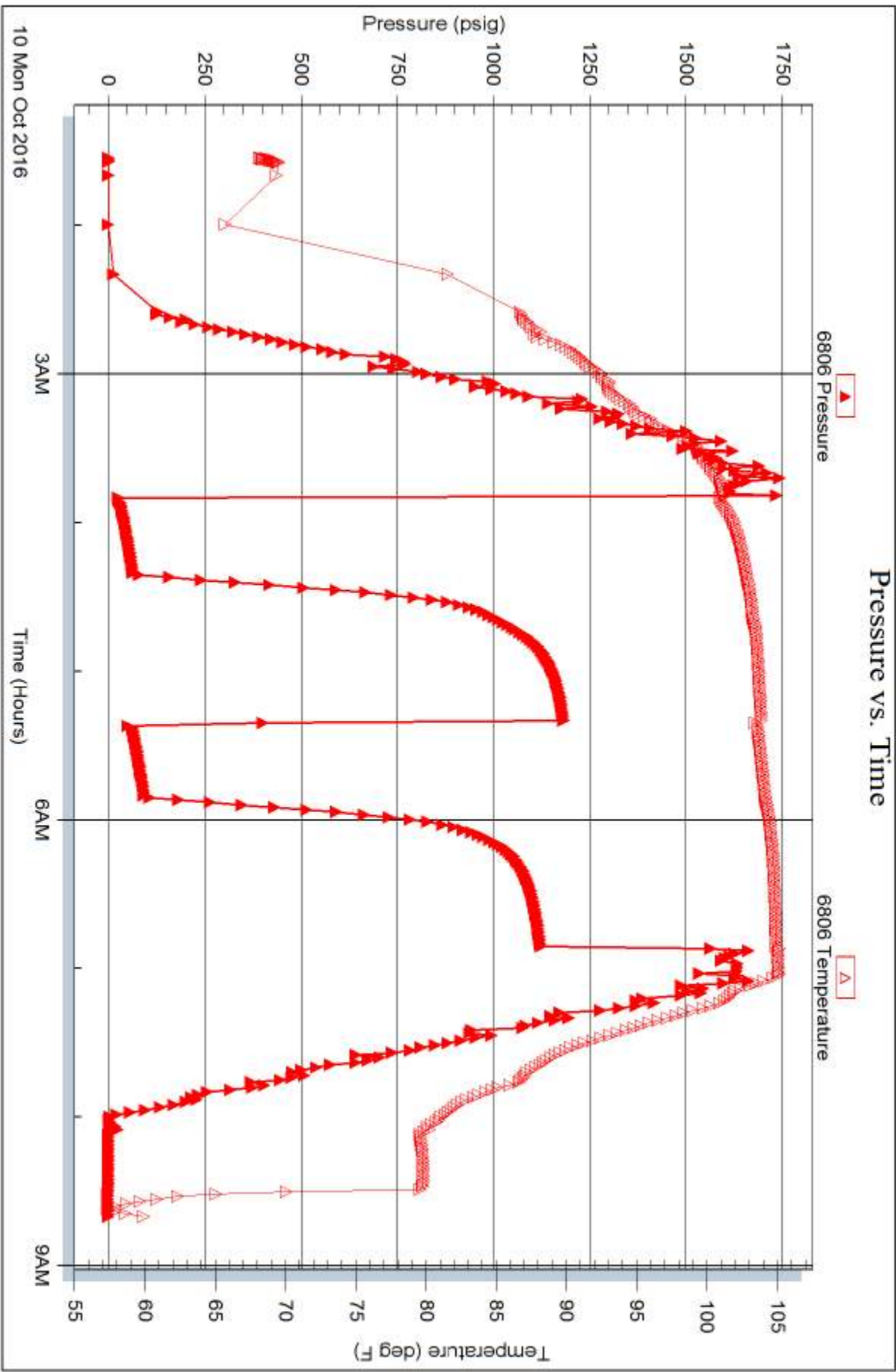


Serial #: 6806

Outside Dixon Operating CO

Jas 1-34

DST Test Number: 1





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 55425

**DST#: 2**

ATTN: Chuck Schmaltz

Test Start: 2016.10.10 @ 20:50:04

## GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:28:49

Time Test Ended: 03:45:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3431.00 ft (KB) To 3515.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3515.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8525 Inside**

Press@RunDepth: 39.83 psig @ 3432.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.10

End Date:

2016.10.11

Last Calib.: 2016.10.11

Start Time: 20:50:05

End Time:

03:45:49

Time On Btm: 2016.10.10 @ 22:23:19

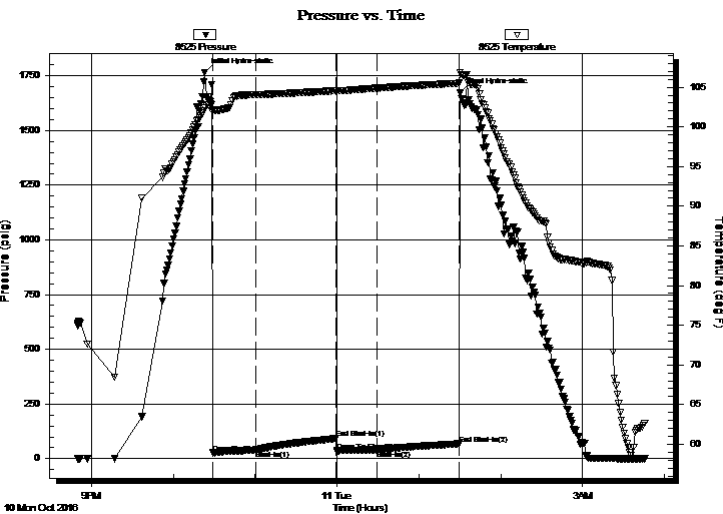
Time Off Btm: 2016.10.11 @ 01:30:19

TEST COMMENT: IF: Fair Blow , BOB in 17 minutes

IS: No Blow Back

FF: Fair Blow , Built to 7 inches

FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.30	102.41	Initial Hydro-static
6	26.84	101.93	Open To Flow (1)
38	40.25	104.05	Shut-In(1)
96	92.03	104.56	End Shut-In(1)
97	34.98	104.53	Open To Flow (2)
127	39.83	104.89	Shut-In(2)
186	68.00	105.50	End Shut-In(2)
187	1670.71	106.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1260 GIP	0.00
20.00	GCM 10%G 90%M	0.10

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 55425

**DST#: 2**

ATTN: Chuck Schmaltz

Test Start: 2016.10.10 @ 20:50:04

## GENERAL INFORMATION:

Formation: **Lansing "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:28:49

Time Test Ended: 03:45:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3431.00 ft (KB) To 3515.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3515.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6806 Outside**

Press@RunDepth: psig @ 3432.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.10 End Date: 2016.10.11

Last Calib.: 2016.10.11

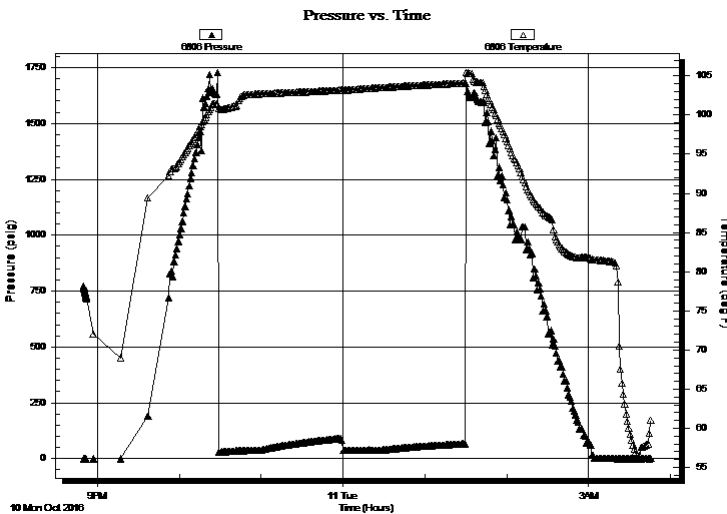
Start Time: 20:50:05 End Time: 03:45:49

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Fair Blow , BOB in 17 minutes  
IS: No Blow Back  
FF: Fair Blow , Built to 7 inches  
FS: No Blow Back

## PRESSURE SUMMARY



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

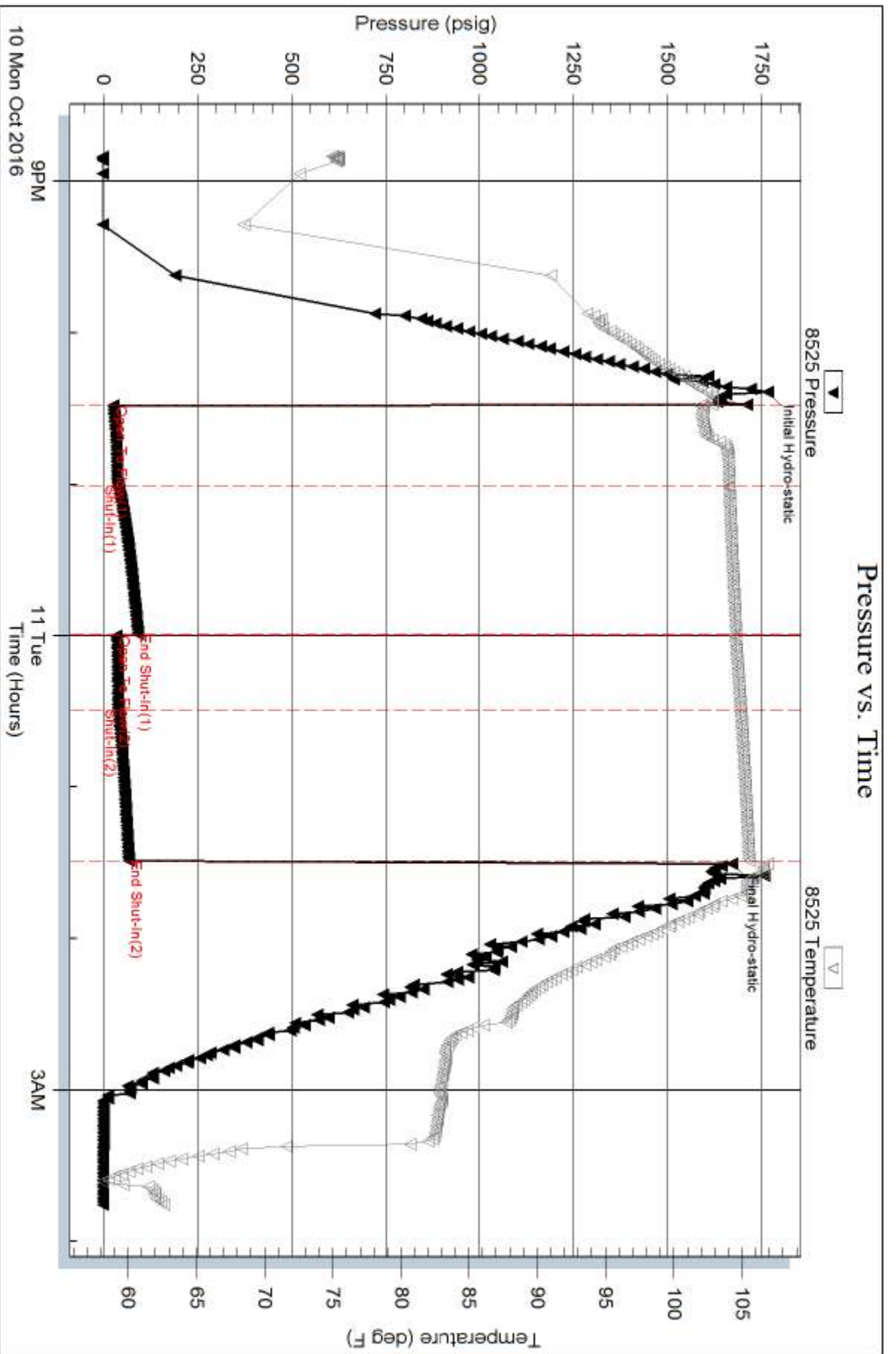
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1260 GIP	0.00
20.00	GCM 10%G 90%M	0.10

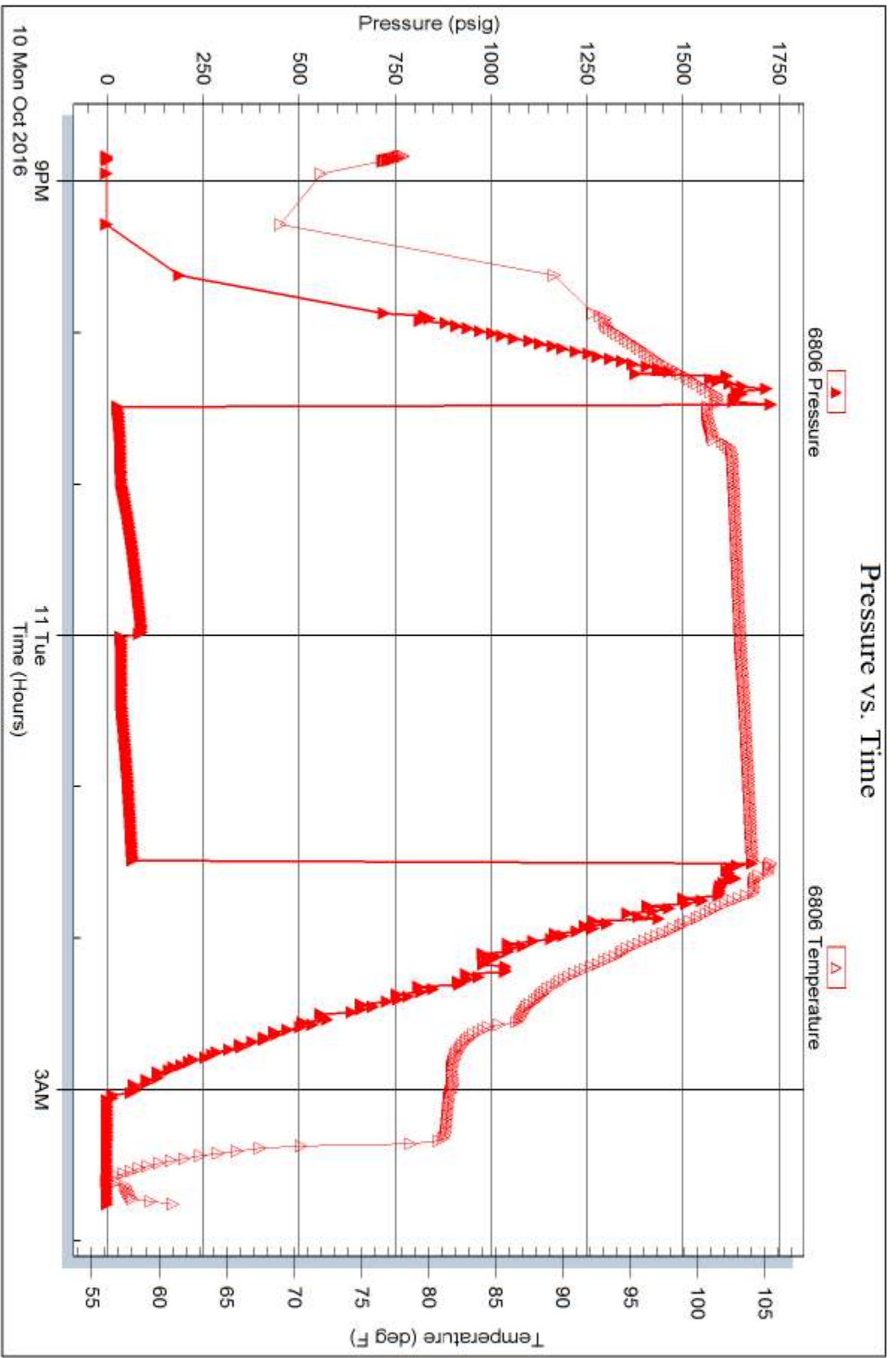
## Gas Rates

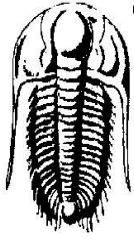
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

\* Recovery from multiple tests









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57951

**DST#: 3**

ATTN: Chuck Schmalz

Test Start: 2016.10.11 @ 13:29:38

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:09:53

Time Test Ended: 20:56:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3535.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8525 Inside**

Press@RunDepth: 52.50 psig @ 3536.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.11

End Date:

2016.10.11

Last Calib.:

2016.10.11

Start Time: 13:29:39

End Time:

20:56:08

Time On Btm:

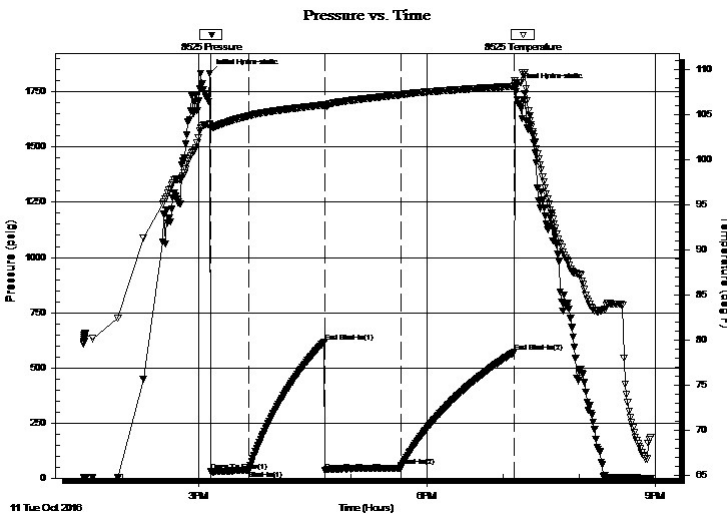
2016.10.11 @ 15:08:53

Time Off Btm:

2016.10.11 @ 19:09:23

**TEST COMMENT:** IF: Strong Blow , BOB in 3 minutes  
IS: No Blow Back  
FF: Strong Blow , BOB Immediate  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.69	103.90	Initial Hydro-static
1	28.78	103.51	Open To Flow (1)
31	37.35	104.84	Shut-In(1)
91	617.86	106.05	End Shut-In(1)
91	32.78	105.90	Open To Flow (2)
151	52.50	107.18	Shut-In(2)
240	570.27	108.13	End Shut-In(2)
241	1768.81	108.45	Final Hydro-static

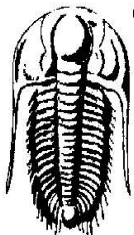
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	215 GIP	0.00
60.00	SGCM 5%G 95%M	0.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57951

**DST#: 3**

ATTN: Chuck Schmaltz

Test Start: 2016.10.11 @ 13:29:38

### GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:09:53

Time Test Ended: 20:56:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3535.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6806 Outside**

Press@RunDepth: psig @ 3536.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.11 End Date: 2016.10.11

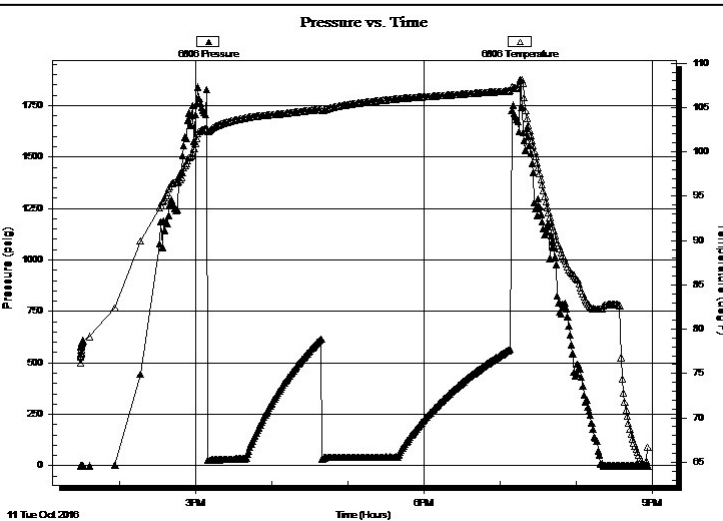
Last Calib.: 2016.10.11

Start Time: 13:29:39 End Time: 20:56:23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes  
IS: No Blow Back  
FF: Strong Blow , BOB Immediate  
FS: No Blow Back



### PRESSURE SUMMARY

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

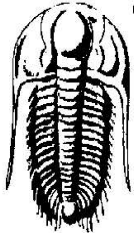
### Recovery

Length (ft)	Description	Volume (bbl)
0.00	215 GIP	0.00
60.00	SGCM 5%G 95%M	0.30

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57951

**DST#: 3**

ATTN: Chuck Schmaltz

Test Start: 2016.10.11 @ 13:29:38

## 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: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	215 GIP	0.000
60.00	SGCM 5%G 95%M	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

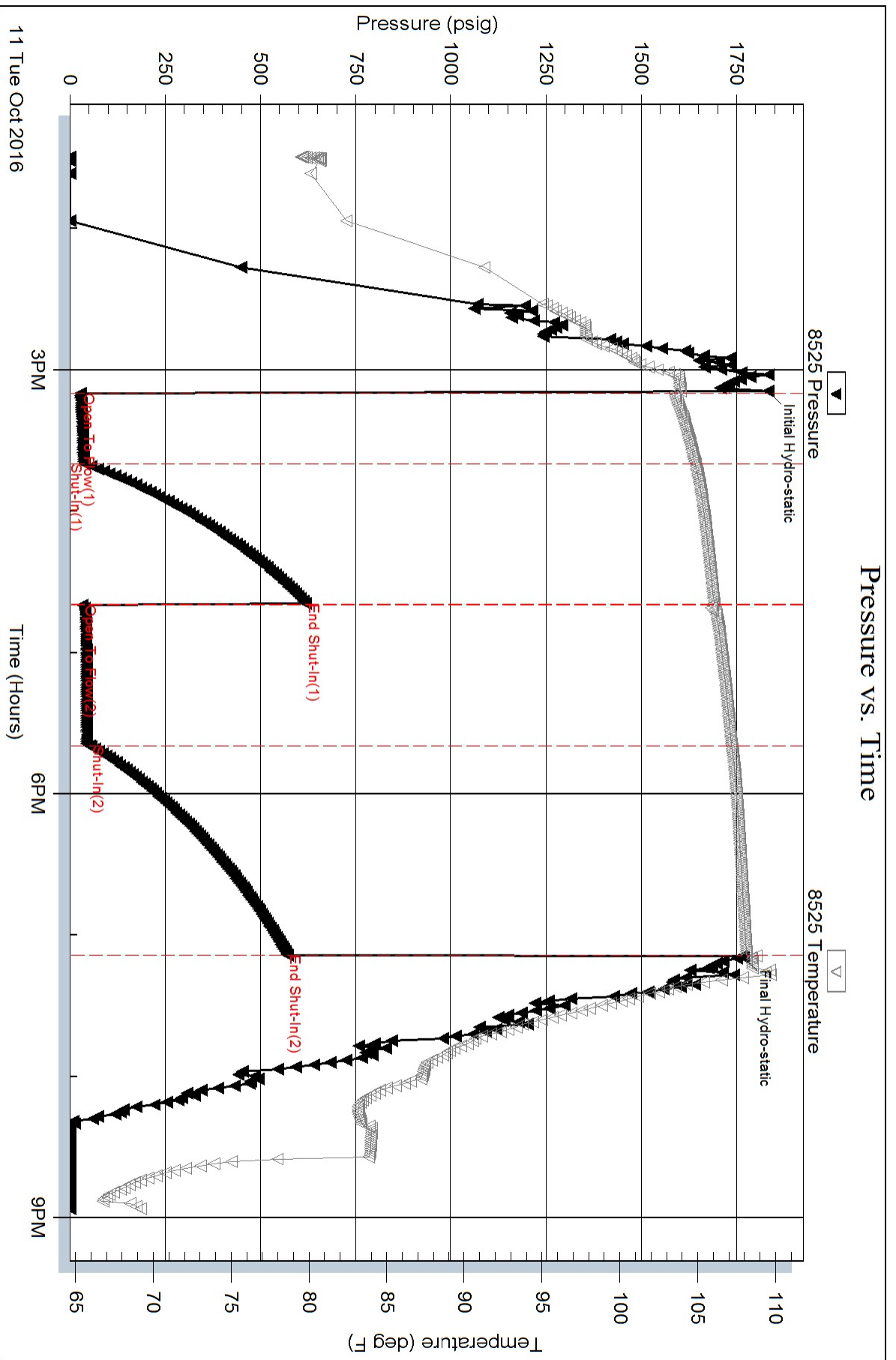
Num Gas Bombs: 0

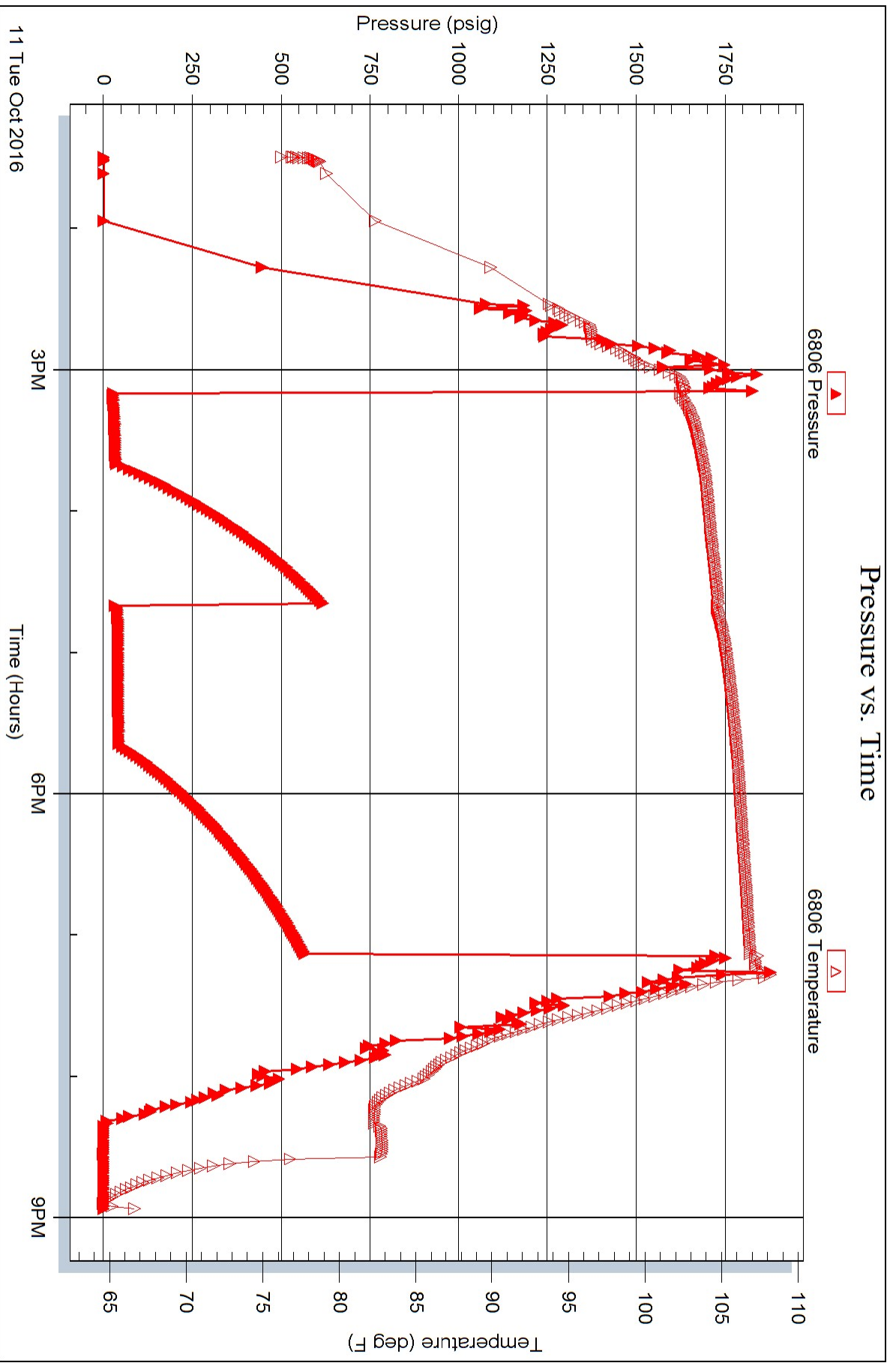
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57952

**DST#: 4**

ATTN: Chuck Schmaltz

Test Start: 2016.10.12 @ 03:21:52

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:53:07

Time Test Ended: 12:51:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3611.00 ft (KB) To 3670.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8525 Inside**

Press@RunDepth: 370.07 psig @ 3612.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.12

End Date:

2016.10.12

Last Calib.:

2016.10.12

Start Time: 03:21:53

End Time:

12:51:07

Time On Btm:

2016.10.12 @ 05:52:22

Time Off Btm:

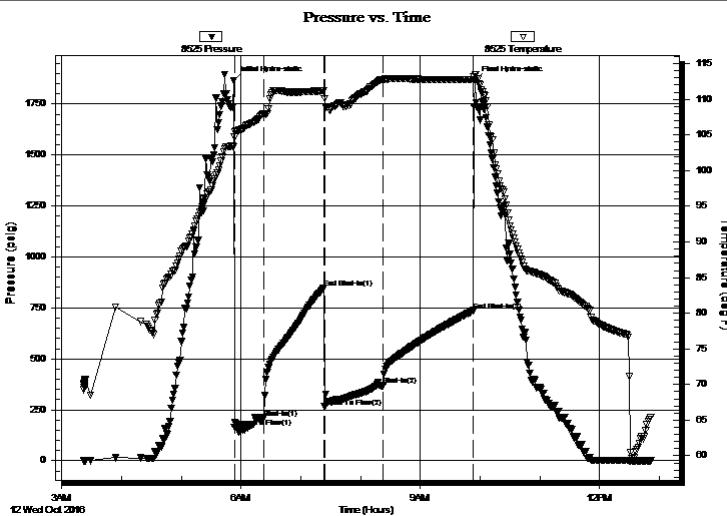
2016.10.12 @ 09:54:52

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes, GTS in 27 minutes

IS: Blow Back Built to 9 inches

FF: Strong Blow , GTS Immediate, BOB in 2 minutes, Gauged & Caught Sample

FS: BOB Blow Back in 2 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.73	103.35	Initial Hydro-static
1	164.85	104.69	Open To Flow (1)
31	209.36	107.96	Shut-In(1)
91	847.39	111.21	End Shut-In(1)
92	264.43	110.13	Open To Flow (2)
151	370.07	112.74	Shut-In(2)
241	736.86	112.73	End Shut-In(2)
243	1863.92	113.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
888.00	GMCO 30%G 10%M 60%O	9.95
150.00	Clean Oil	2.10

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	4.00	29.19
Max. Gas Rate	0.25	4.00	29.19

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57952

**DST#: 4**

ATTN: Chuck Schmaltz

Test Start: 2016.10.12 @ 03:21:52

### GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:53:07

Time Test Ended: 12:51:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3611.00 ft (KB) To 3670.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6806 Outside**

Press@RunDepth: psig @ 3612.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.12

End Date:

2016.10.12

Last Calib.:

2016.10.12

Start Time: 03:21:53

End Time:

12:52:07

Time On Btm:

Time Off Btm:

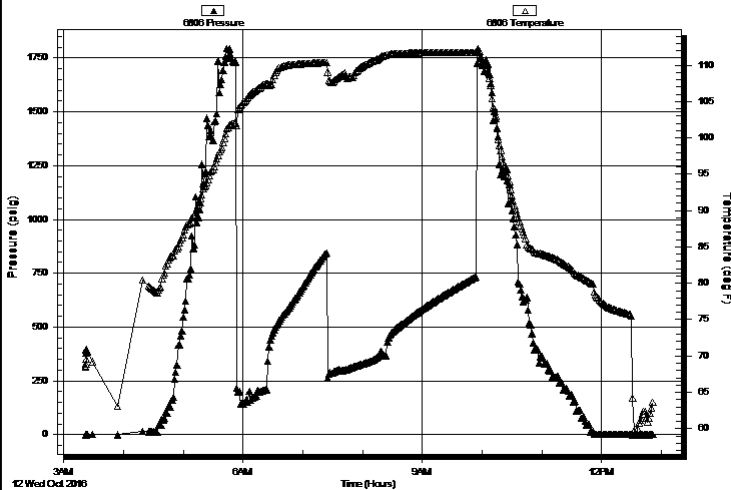
**TEST COMMENT:** IF: Strong Blow , BOB in 2 minutes, GTS in 27 minutes

IS: Blow Back Built to 9 inches

FF: Strong Blow , GTS Immediate, BOB in 2 minutes, Gauged & Caught Sample

FS: BOB Blow Back in 2 minutes

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
888.00	GMCO 30%G 10%M 60%O	9.95
150.00	Clean Oil	2.10

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	4.00	29.19
Max. Gas Rate	0.25	4.00	29.19

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57952

**DST#: 4**

ATTN: Chuck Schmaltz

Test Start: 2016.10.12 @ 03:21:52

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
888.00	GMCO 30%G 10%M 60%O	9.951
150.00	Clean Oil	2.104

Total Length: 1038.00 ft      Total Volume: 12.055 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

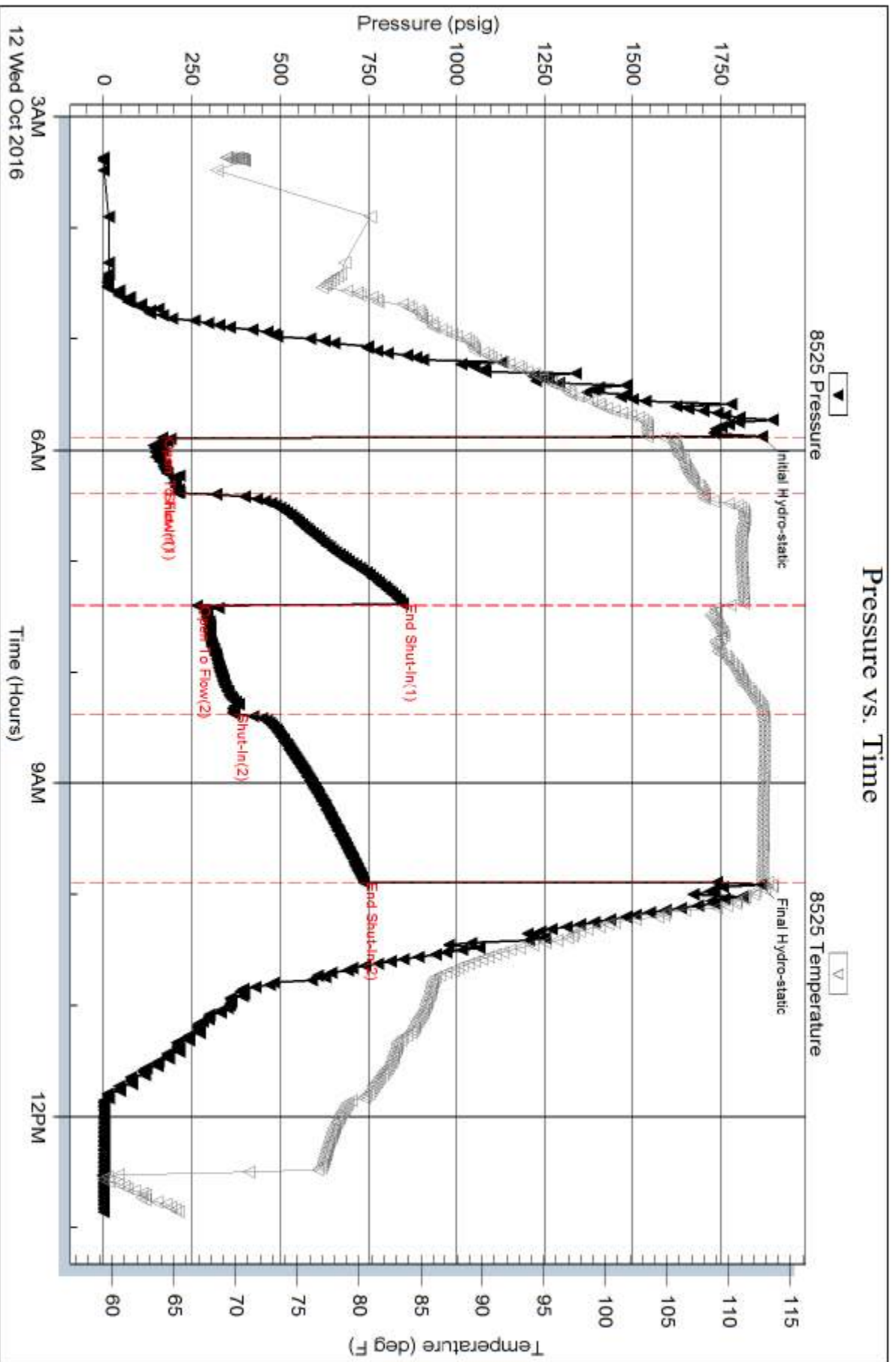
Serial #:

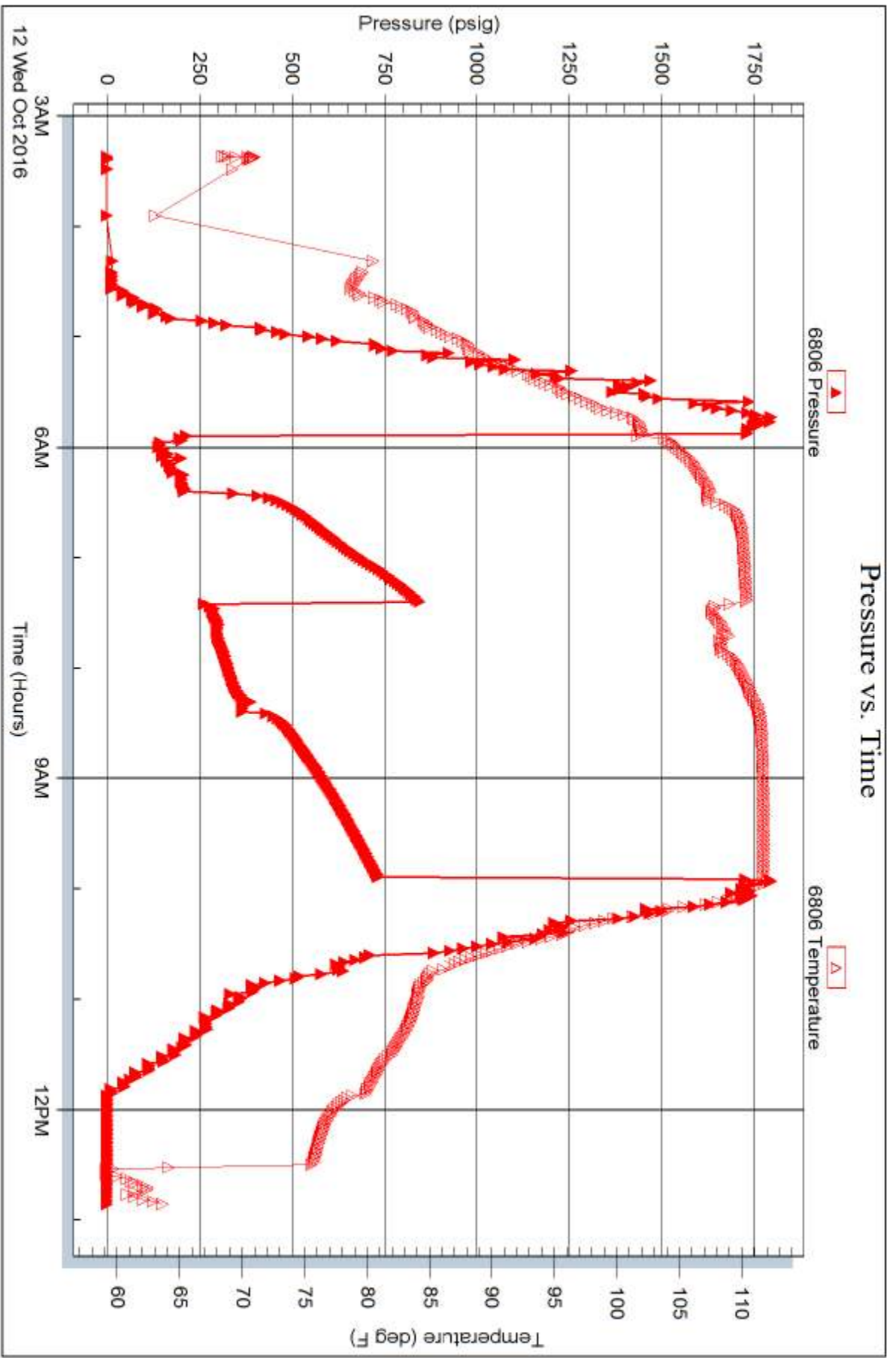
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity was 37.2 @ 58 degrees

### Pressure vs. Time







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57953

**DST#: 5**

ATTN: Chuck Schmaltz

Test Start: 2016.10.12 @ 19:59:38

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:38

Time Test Ended: 04:15:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 3671.00 ft (KB) To 3720.00 ft (KB) (TVD)**

Reference Elevations: 1850.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

1839.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8525 Inside**

Press@RunDepth: 656.81 psig @ 3672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.12

End Date:

2016.10.13

Last Calib.: 1899.12.30

Start Time: 19:59:39

End Time:

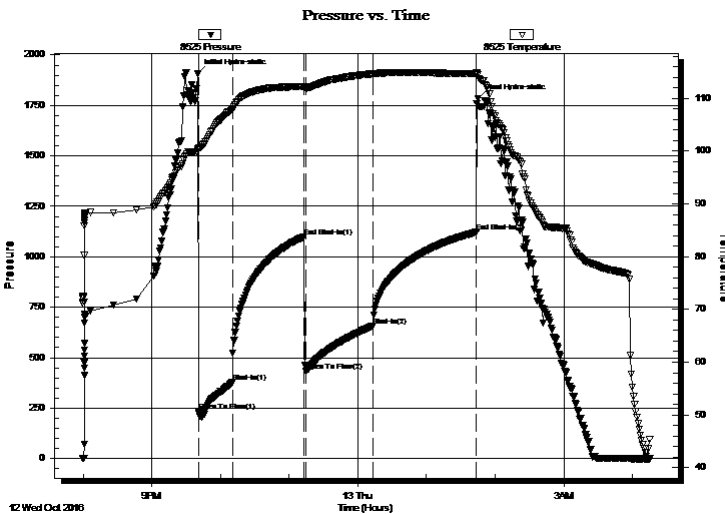
04:15:08

Time On Btm: 2016.10.12 @ 21:39:53

Time Off Btm: 2016.10.13 @ 01:44:53

**TEST COMMENT:** IF: Strong Blow , BOB in 1 minute  
IS: Weak Surface Blow Back  
FF: Strong Blow , BOB in 90 seconds  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.13	100.24	Initial Hydro-static
1	233.45	100.43	Open To Flow (1)
31	378.22	107.93	Shut-In(1)
94	1100.04	112.18	End Shut-In(1)
95	434.59	111.99	Open To Flow (2)
153	656.81	114.64	Shut-In(2)
244	1122.08	114.63	End Shut-In(2)
245	1782.40	114.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
945.00	Water	10.75
378.00	MCW 14%M 86%W	5.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57953

**DST#: 5**

ATTN: Chuck Schmaltz

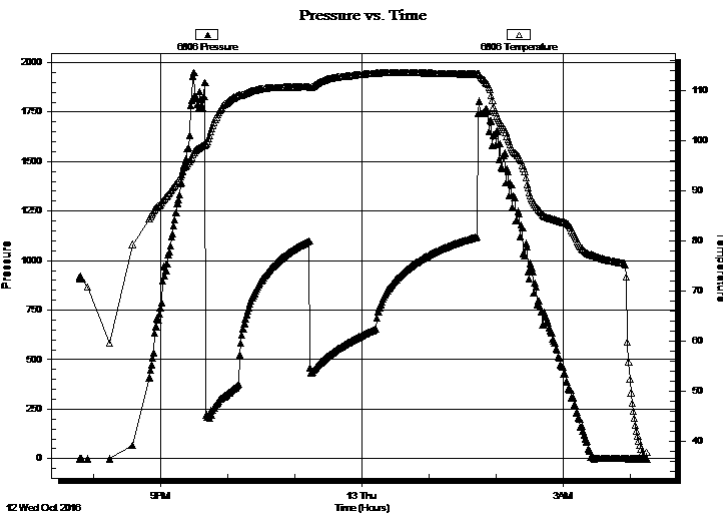
Test Start: 2016.10.12 @ 19:59:38

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:40:38  
 Time Test Ended: 04:15:08  
 Interval: **3671.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Total Depth: 3720.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1850.00 ft (KB)  
 1839.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6806 Outside**  
 Press@RunDepth: psig @ 3672.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.10.12 End Date: 2016.10.13 Last Calib.: 2016.10.13  
 Start Time: 19:47:39 End Time: 04:15:08 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow , BOB in 1 minute  
 IS: Weak Surface Blow Back  
 FF: Strong Blow , BOB in 90 seconds  
 FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
945.00	Water	10.75
378.00	MCW 14%M 86%W	5.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dixon Operating CO

**34-22S-12W Stafford**

8100 E 22nd Ste 200  
Wichita, KS 67226

**Jas 1-34**

Job Ticket: 57953

**DST#: 5**

ATTN: Chuck Schmaltz

Test Start: 2016.10.12 @ 19:59:38

### 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:

48000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
945.00	Water	10.751
378.00	MCW 14%M 86%W	5.302

Total Length: 1323.00 ft      Total Volume: 16.053 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .2 @ 54 degrees

