



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1206407  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

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

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- 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

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1206407

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. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

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

<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Boomhower 36 4
Doc ID	1206407

All Electric Logs Run

Caliper
Composite
Den-Neu-Micr
Induction
Microlog

# ALLIED OIL & GAS SERVICES, LLC 061839

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Cement Band 19

DATE <u>1-7-14</u>	SEC. <u>36</u>	TWP. <u>17s</u>	RANGE <u>29W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00pm</u>	JOB FINISH <u>12:00am</u>
LEASE <u>Boon haley</u>	WELL # <u>4</u>	LOCATION <u>Pigston 4 N 1/2w 51st</u>		COUNTY <u>Love</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Mallard Co #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 5 7/8 DEPTH 271

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT 16.30 bbls Freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers

# 366 HELPER Ben Newell

BULK TRUCK

# 617-170 DRIVER ALJ Guest

BULK TRUCK

# DRIVER

REMARKS:

Pump 5 bbls Freshwater Ahead

Mix 300 SKS cement

Displace - 16.30 bbls Freshwater

Flush in

Cement Did Circulate

plug Pump 11:30

Put Down

CHARGE TO: Brien Resources

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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.

PRINTED NAME X. Garza J. Garza

SIGNATURE X. Garza J. Garza

Thank You!

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 300 SKS

Class A 34 sec 2 staged

COMMON	<u>300</u>	@ <u>17.90</u>	<u>5370.00</u>
POZMIX		@	
GEL	<u>6</u>	@ <u>23.40</u>	<u>140.40</u>
CHLORIDE	<u>346</u>	@ <u>.80</u>	<u>676.80</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>325 x 2.4%</u>	@	<u>606.00</u>
MILEAGE	<u>14.82 x 3.5 x 260</u>	@	<u>1464.51</u>
TOTAL			<u>8457.71</u>

SERVICE

DEPTH OF JOB \_\_\_\_\_ 1512.25

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

MANIFOLD @ \_\_\_\_\_

HVM 3% @ 7.70 292.60

LVM 3% @ 4.40 167.20

TOTAL 1972.05

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

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

TOTAL CHARGES 10,429.76

DISCOUNT 20% = 2085.95 IF PAID IN 30 DAYS

\$8343.81



265510

TICKET NUMBER 38137  
 LOCATION Oakley Ks  
 FOREMAN Jerry V Fuzzy

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-19-14	5950	Boonhoxr 36#4	36	17s	29w	Lanc
CUSTOMER O'Brian Resc			Dighton 4 1/2 1w 5 into			
MAILING ADDRESS PO Box 6149			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Shreveport			530-7127	Michael R		
STATE LA			460	Jeff K		
ZIP CODE 71136			assist	Steven O		

JOB TYPE 2-Stage HOLE SIZE 7 7/8 HOLE DEPTH 4704 CASING SIZE & WEIGHT 4 1/2" 10.5#  
 CASING DEPTH 4701 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER D.V. top of 610 @ 2170'  
 SLURRY WEIGHT 14.7/11.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING 42.17'  
 DISPLACEMENT 74 / 34 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & rig up on Method Dr. run float equipt. stretchers 4 person 4, 5, 6, 9, 8, 9, 10, 11, 12, 13, centralizers 4, 6, 8, 10, 12, 14, 16, 19, 23, 26, 0, baskets on 7, 24, 61 D.V. tool top of 610 @ 2170' run casing to bottom. break circulation & circulate the drop ball pump thru hook up to truck mix 120SK OWC shutdown release plug wash pump & lines displac w 7 3/8 bbls 800' lift plug landed @ 1500' released ball & shot held drop ball tool top @ 1000' hook to rig & circulated 3 hrs. Pump 500 gal mod slush 30SKs RH, 20SKs MH, mix 425 SKs 60/40 89 gal 1 1/4" flo seal down 4 1/2 assy. wash pump and lines. Drop plug and displace 34 BBL water, 500' lift, 1700' close BU Tool. Cement did circulate approx 20 BBL to pit

Thanks Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
54101c	1	PUMP CHARGE	3175 <sup>00</sup>	3175 <sup>00</sup>	
5406	35	MILEAGE	535	18375	
5407A	28.9 Ton	ton mileage delivery	175	1770 <sup>30</sup>	
1126	180 sks	owc	2370	4266 <sup>00</sup>	
11104	900*	Kolscal	56	5040 <sup>00</sup>	
1131	435 sks	60/40 po2 mix	1586	7533 <sup>50</sup>	
11186	3268*	gel	27	88236	
1107	119*	flo seal	292	35343	
11446	1000 gal	mod flush	100	1,000 <sup>00</sup>	
4156	1	4 1/2 AFU float shoe	30150	30150	
4453	1	4 1/2 latch down assy	46500	46500	
4129	10	4 1/2 central izers	4850	48500	
4103	3	4 1/2 baskets	27500	82500	
4014	40	4 1/2 recip. scratchers	8200	328000	
4276	1	4 1/2 D.V Tool (N53840644-06)	420000	420000	
1142A	2 gal	KCL	4100	8200	
			Subtotal	29307.04	
			less 10% disc 293070	Subtotal	26376.34
			SALES TAX	1555.88	
			ESTIMATED TOTAL	27932.22	

completed

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources

**36-17s-29w Lane Ks**

**Boomer 34-4**

Job Ticket: 55592

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2014.01.13 @ 01:12:35

## GENERAL INFORMATION:

Formation: **Lansing 140**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:05

Time Test Ended: 09:18:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

**Interval: 4132.00 ft (KB) To 4165.00 ft (KB) (TVD)**

Total Depth: 4165.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2792.00 ft (KB)

2787.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 125.45 psig @ 4133.00 ft (KB)

Start Date: 2014.01.13

End Date: 2014.01.13

Start Time: 01:12:40

End Time: 09:18:34

Capacity: 8000.00 psig

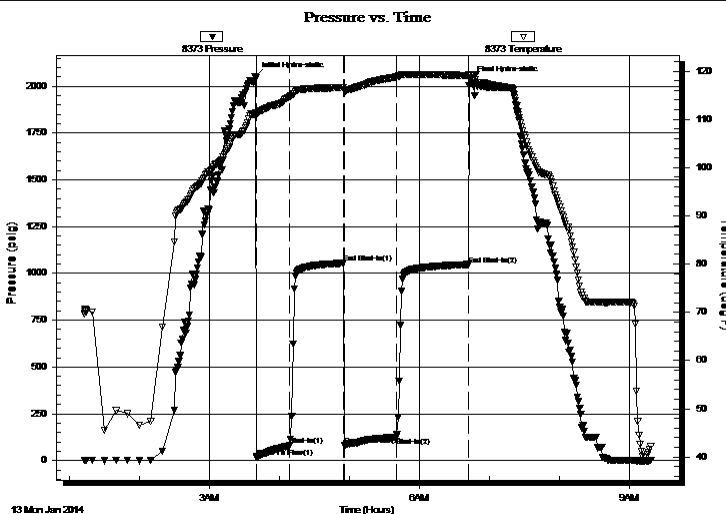
Last Calib.: 2014.01.13

Time On Btm: 2014.01.13 @ 03:39:05

Time Off Btm: 2014.01.13 @ 06:43:35

**TEST COMMENT:** IF: BOB in 24 min.  
IS: No return.  
FF: BOB in 35 min.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.00	111.05	Initial Hydro-static
1	16.34	110.74	Open To Flow (1)
30	79.05	114.67	Shut-In(1)
76	1054.50	116.51	End Shut-In(1)
77	81.97	115.99	Open To Flow (2)
121	125.45	118.75	Shut-In(2)
183	1047.02	119.10	End Shut-In(2)
185	2032.21	118.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
61.00	mw 50%w 50%m	0.30
122.00	w mco 50%o 10%w 40%m	0.60
90.00	mco 60%o 40%m	0.73

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O'Brien Resources

**36-17s-29w Lane Ks**

**Boomer 34-4**

Job Ticket: 55592

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2014.01.13 @ 01:12:35

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	mw 50%w 50%m	0.300
122.00	w mco 50%o 10%w 40%m	0.600
90.00	mco 60%o 40%m	0.725

Total Length: 273.00 ft      Total Volume: 1.625 bbl

Num Fluid Samples: 0

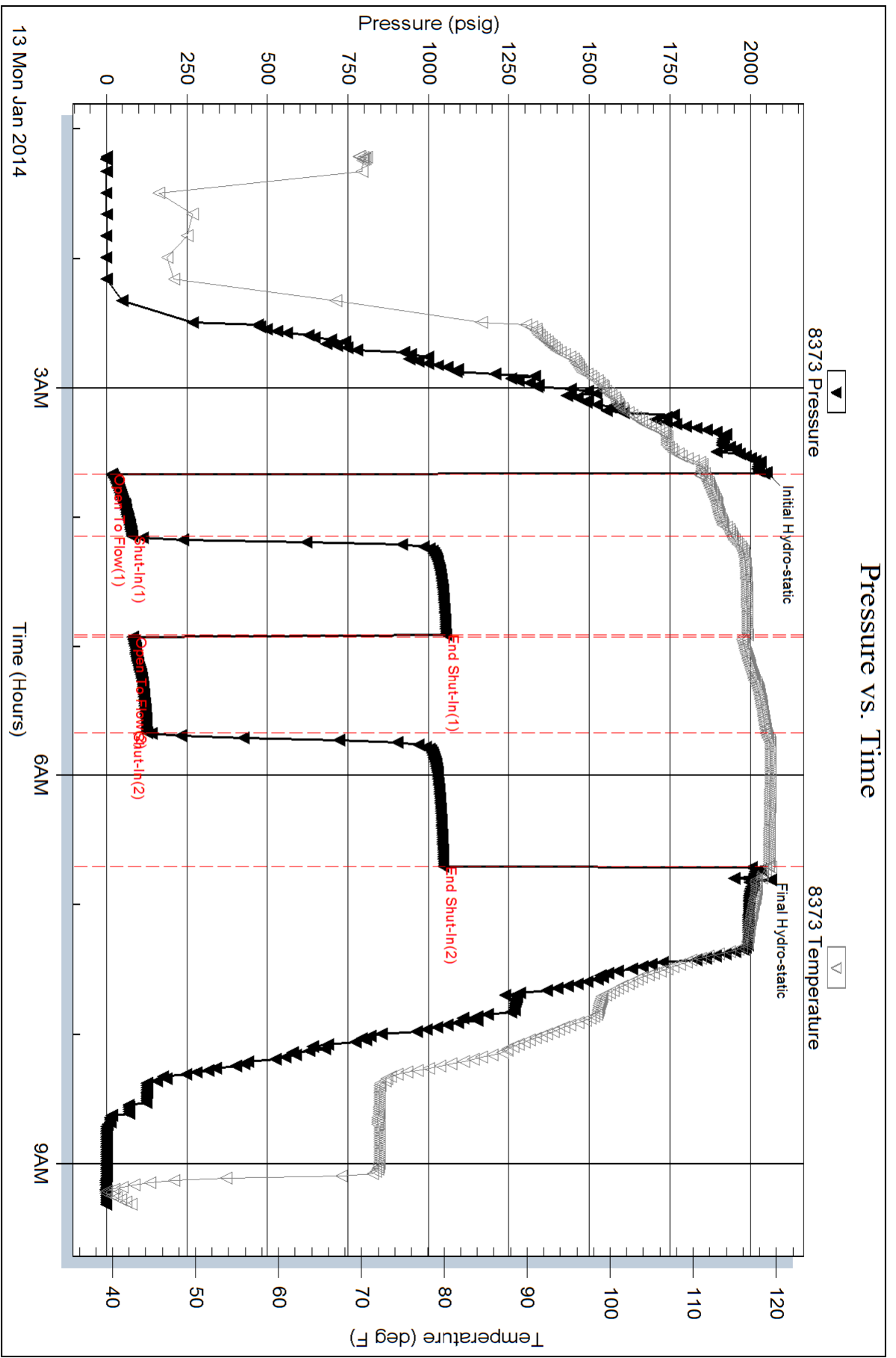
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .26@32=70000







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
P.O. Box 6149  
Shreveport LA  
71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**

**Boomer 34-4**

Job Ticket: 56728

**DST#: 2**

Test Start: 2014.01.13 @ 17:45:15

## GENERAL INFORMATION:

Formation: **Lansing 160**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:15

Time Test Ended: 01:24:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

**Interval: 4171.00 ft (KB) To 4200.00 ft (KB) (TVD)**

Reference Elevations: 2792.00 ft (KB)

Total Depth: 4200.00 ft (KB) (TVD)

2787.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8846 Outside**

Press @ Run Depth: 443.36 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.13

End Date:

2014.01.14

Last Calib.:

2014.01.14

Start Time: 17:45:15

End Time:

01:24:45

Time On Btm:

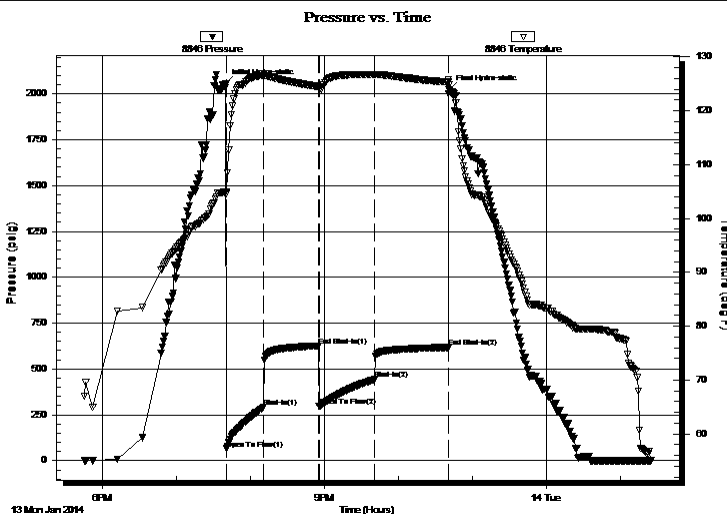
2014.01.13 @ 19:39:45

Time Off Btm:

2014.01.13 @ 22:40:45

**TEST COMMENT:** IF:BOB in 4 min.  
IS:No return blow  
FF:BOB in 8 min.  
FS:Built to weak surface blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.44	104.98	Initial Hydro-static
1	64.31	104.70	Open To Flow (1)
31	290.92	126.54	Shut-In(1)
76	625.82	124.48	End Shut-In(1)
76	295.71	124.34	Open To Flow (2)
121	443.36	126.71	Shut-In(2)
181	617.63	125.32	End Shut-In(2)
181	2024.89	124.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
242.00	sw 100%sw	1.19
248.00	mcw 20%m 80%w	3.48
248.00	w cm 50%w 50%m	3.48
248.00	ocw m 2%o 48%w 50%m	3.48
2.00	free oil	0.03

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources  
P.O. Box 6149  
Shreveport LA  
71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**  
**Boomer 34-4**  
Job Ticket: 56728      **DST#: 2**  
Test Start: 2014.01.13 @ 17:45:15

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 23000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

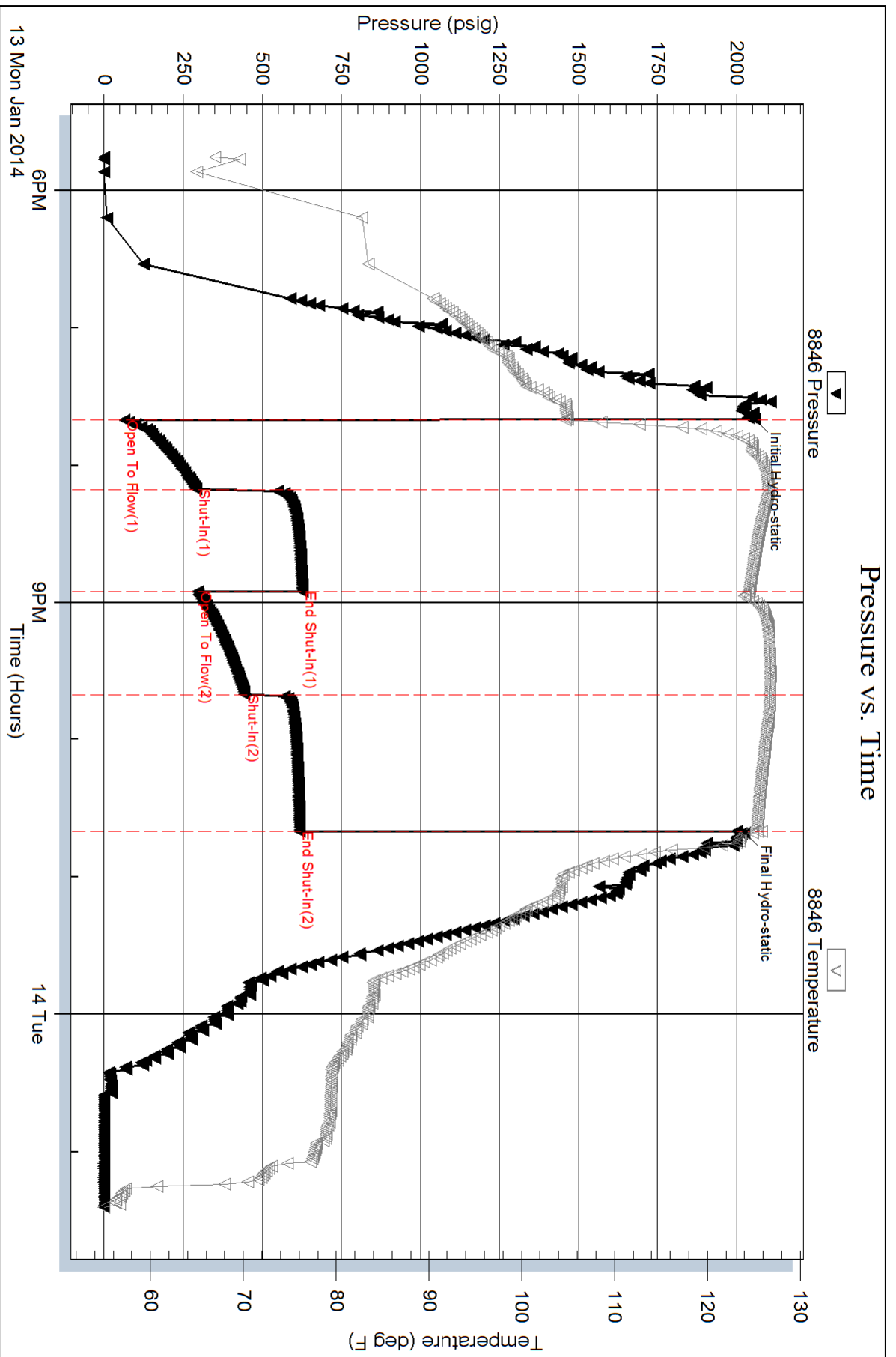
Length ft	Description	Volume bbl
242.00	sw 100%sw	1.190
248.00	mcw 20%m 80%w	3.479
248.00	w cm 50%w 50%m	3.479
248.00	ocw m 2%o 48%w 50%m	3.479
2.00	free oil	0.028

Total Length: 988.00 ft      Total Volume: 11.655 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW= .575@43.9=23,000 ppm





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
 P.O. Box 6149  
 Shreveport LA 71136  
 ATTN: Kurt Talbott

**36-17s-29w Lane, KS**  
**Boomhower #34-4**  
 Job Ticket: 55593 **DST#: 3**  
 Test Start: 2014.01.14 @ 11:00:12

## GENERAL INFORMATION:

Formation: **Lansing 180**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:47:42  
 Time Test Ended: 17:38:42  
 Interval: **4207.00 ft (KB) To 4240.00 ft (KB) (TVD)**  
 Total Depth: 4240.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2792.00 ft (KB)  
 2787.00 ft (CF)  
 KB to GR/CF: 5.00 ft

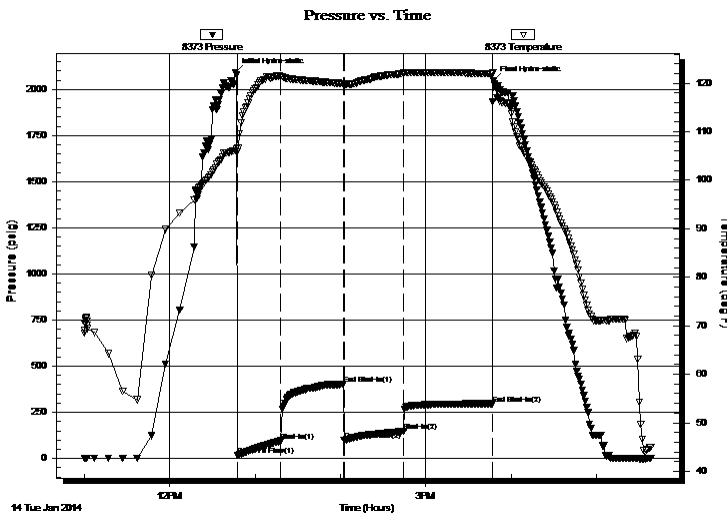
## Serial #: 8373

Inside

Press @ Run Depth: 147.01 psig @ 4208.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.01.14 End Date: 2014.01.14 Last Calib.: 2014.01.14  
 Start Time: 11:00:17 End Time: 17:38:41 Time On Btm: 2014.01.14 @ 12:46:12  
 Time Off Btm: 2014.01.14 @ 15:47:42

TEST COMMENT: IF: 1/4 blow built to 8.  
 IS: No return.  
 FF: Surface blow built to 4.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.97	106.04	Initial Hydro-static
2	16.37	105.93	Open To Flow (1)
32	95.29	121.36	Shut-In(1)
76	403.26	119.94	End Shut-In(1)
77	98.46	119.70	Open To Flow (2)
119	147.01	122.07	Shut-In(2)
181	297.32	121.89	End Shut-In(2)
182	2045.33	120.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
124.00	mcw 80%w 20%m	0.66

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources

**36-17s-29w Lane,KS**

P.O. Box 6149  
Shreveport LA 71136

**Boomhower #34-4**

Job Ticket: 55593

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2014.01.14 @ 11:00:12

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 90%w 10%m	0.610
124.00	mcw 80%w 20%m	0.664

Total Length: 248.00 ft      Total Volume: 1.274 bbl

Num Fluid Samples: 0

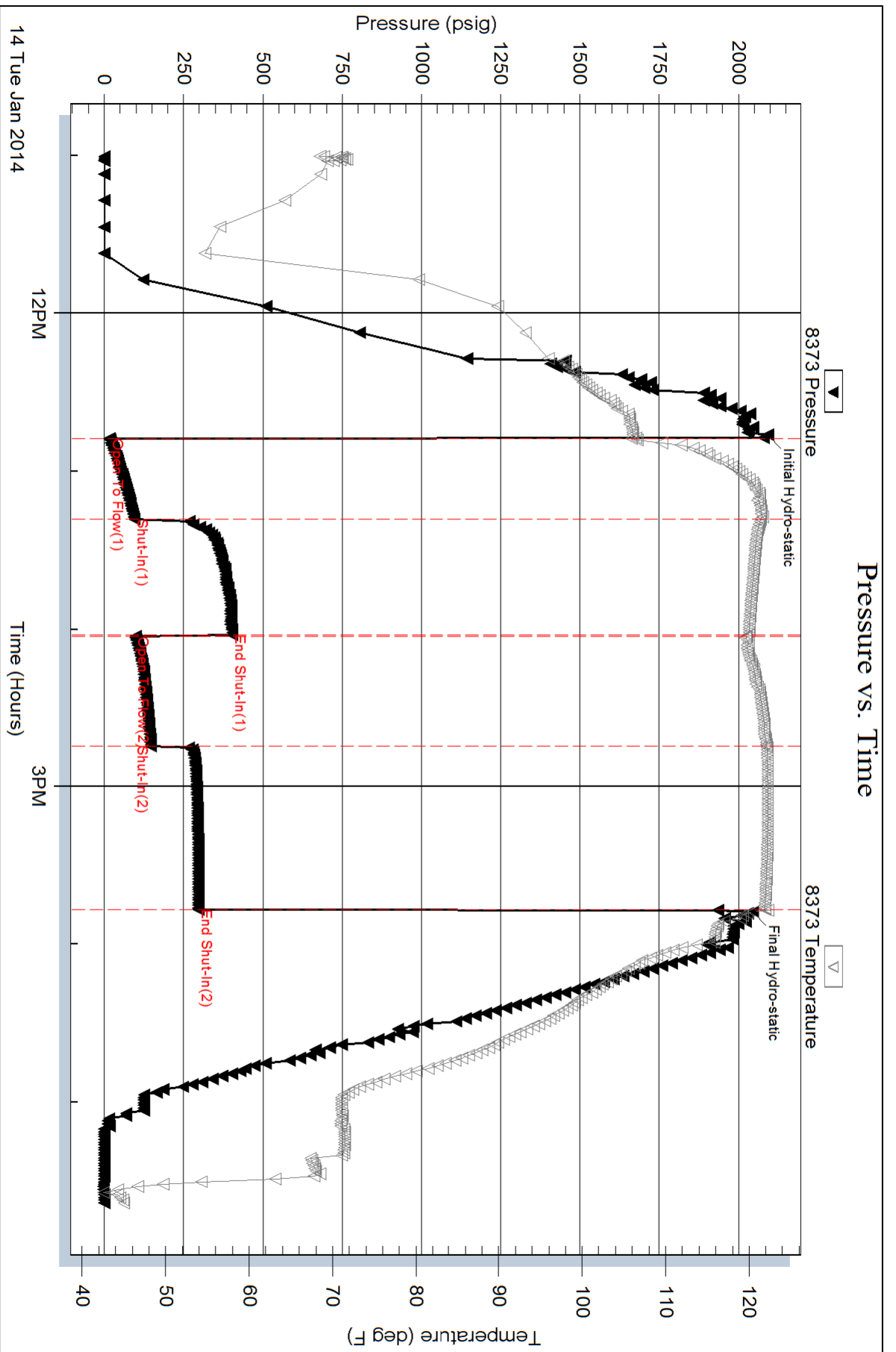
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .20@42=66000





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
 P.O. Box 6149  
 Shreveport LA  
 71136  
 ATTN: Kurt Talbott

**36-17s-29w Lane Ks**

**Boomer 34-4**

Job Ticket: 55594      **DST#: 4**  
 Test Start: 2014.01.15 @ 03:14:21

## GENERAL INFORMATION:

Formation: **200**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:25:21  
 Time Test Ended: 10:49:51  
 Interval: **4232.00 ft (KB) To 4275.00 ft (KB) (TVD)**  
 Total Depth: 4275.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2792.00 ft (KB)  
 2787.00 ft (CF)  
 KB to GR/CF: 5.00 ft

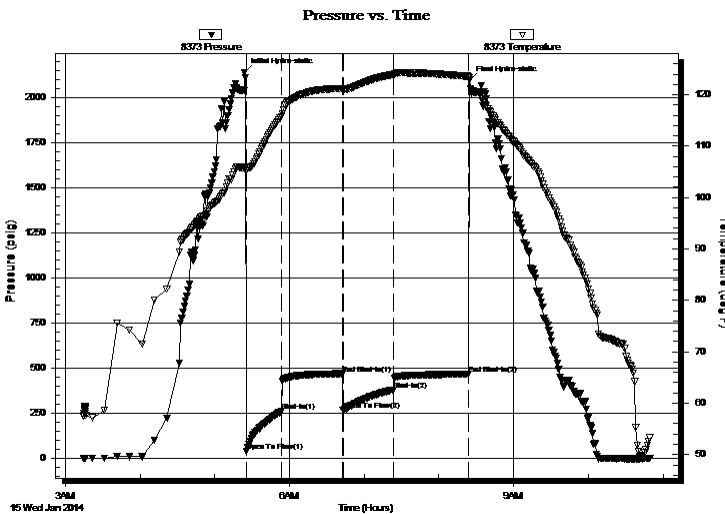
## Serial #: 8373

Inside

Press @ Run Depth: 380.26 psig @ 4233.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.01.15      End Date: 2014.01.15      Last Calib.: 2014.01.15  
 Start Time: 03:14:26      End Time: 10:49:50      Time On Btm: 2014.01.15 @ 05:23:51  
 Time Off Btm: 2014.01.15 @ 08:24:21

TEST COMMENT: IF: BOB in 4 min.  
 IS: No return.  
 FF: BOB in 12 min.  
 FS: Surface blow built to 2.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.13	105.70	Initial Hydro-static
2	41.49	105.46	Open To Flow (1)
30	261.46	115.75	Shut-In(1)
79	469.74	121.19	End Shut-In(1)
79	265.71	121.09	Open To Flow (2)
120	380.26	123.90	Shut-In(2)
180	467.05	123.57	End Shut-In(2)
181	2094.69	123.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mcw 95%w 5%m	1.27
186.00	mcw 90%w 10%m	2.61
186.00	ocmw 5%o 85%w 10%m	2.61
155.00	ocmw 10%o 60%w 30%m	2.17
31.00	go 10%g 90%o	0.43
0.00	62 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O'Brien Resources  
P.O. Box 6149  
Shreveport LA  
71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**  
**Boomer 34-4**  
Job Ticket: 55594      **DST#: 4**  
Test Start: 2014.01.15 @ 03:14:21

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 59000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.00 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2200.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

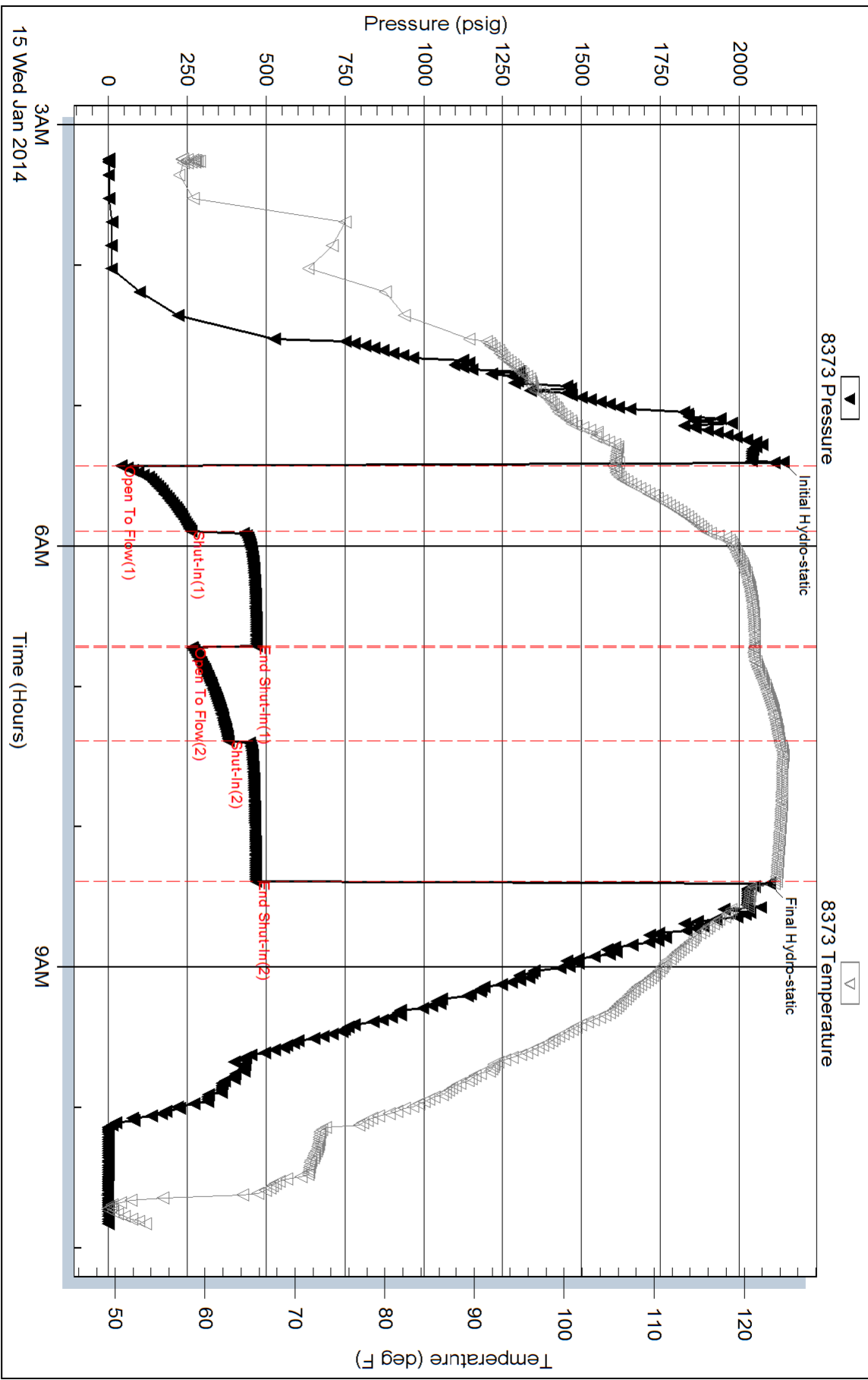
Recovery Table

Length ft	Description	Volume bbl
248.00	mcw 95%w 5%m	1.274
186.00	mcw 90%w 10%m	2.609
186.00	ocmw 5%o 85%w 10%m	2.609
155.00	ocmw 10%o 60%w 30%m	2.174
31.00	go 10%g 90%o	0.435
0.00	62 GIP	0.000

Total Length: 806.00 ft      Total Volume: 9.101 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 34@50=35  
    .20@46=59000



### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

O Brien Resources  
P.O. Box 6149  
Shreveport LA 71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**  
**Boomhower #36-4**  
Job Ticket: 55595 **DST#: 5**  
Test Start: 2014.01.16 @ 00:12:34

## GENERAL INFORMATION:

Formation: **Pleasanton Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:37:04  
Time Test Ended: 08:57:34  
Interval: **4321.00 ft (KB) To 4349.00 ft (KB) (TVD)**  
Total Depth: 4349.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 60  
Reference Elevations: 2792.00 ft (KB)  
2787.00 ft (CF)  
KB to GR/CF: 5.00 ft

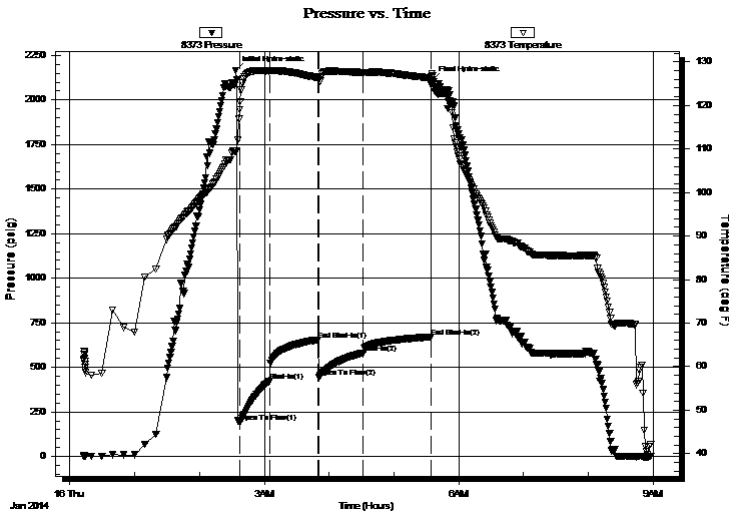
## Serial #: 8373

Inside

Press@RunDepth: 581.22 psig @ 4322.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.16 End Date: 2014.01.16 Last Calib.: 2014.01.16  
Start Time: 00:12:39 End Time: 08:57:34 Time On Btm: 2014.01.16 @ 02:33:34  
Time Off Btm: 2014.01.16 @ 05:35:04

TEST COMMENT: IF: BOB in 1 min.  
IS: BOB in 5 min.  
FF: BOB in 2 min.  
FS: BOB in 12 min. Gas to Surface.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.11	109.51	Initial Hydro-static
4	192.29	118.97	Open To Flow (1)
31	421.75	127.93	Shut-In(1)
76	654.82	126.38	End Shut-In(1)
77	445.78	125.64	Open To Flow (2)
118	581.22	127.53	Shut-In(2)
181	670.20	126.31	End Shut-In(2)
182	2109.68	127.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 10%g 80%o 10%m	0.61
1116.00	go 40%g 60%o	14.58
403.00	go 30%g 70%o	5.65

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources

**36-17s-29w Lane Ks**

P.O. Box 6149  
Shreveport LA 71136

**Boomer #36-4**

Job Ticket: 55595

**DST#: 5**

ATTN: Kurt Talbott

Test Start: 2014.01.16 @ 00:12:34

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 10%g 80%o 10%m	0.610
1116.00	go 40%g 60%o	14.580
403.00	go 30%g 70%o	5.653

Total Length: 1643.00 ft      Total Volume: 20.843 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

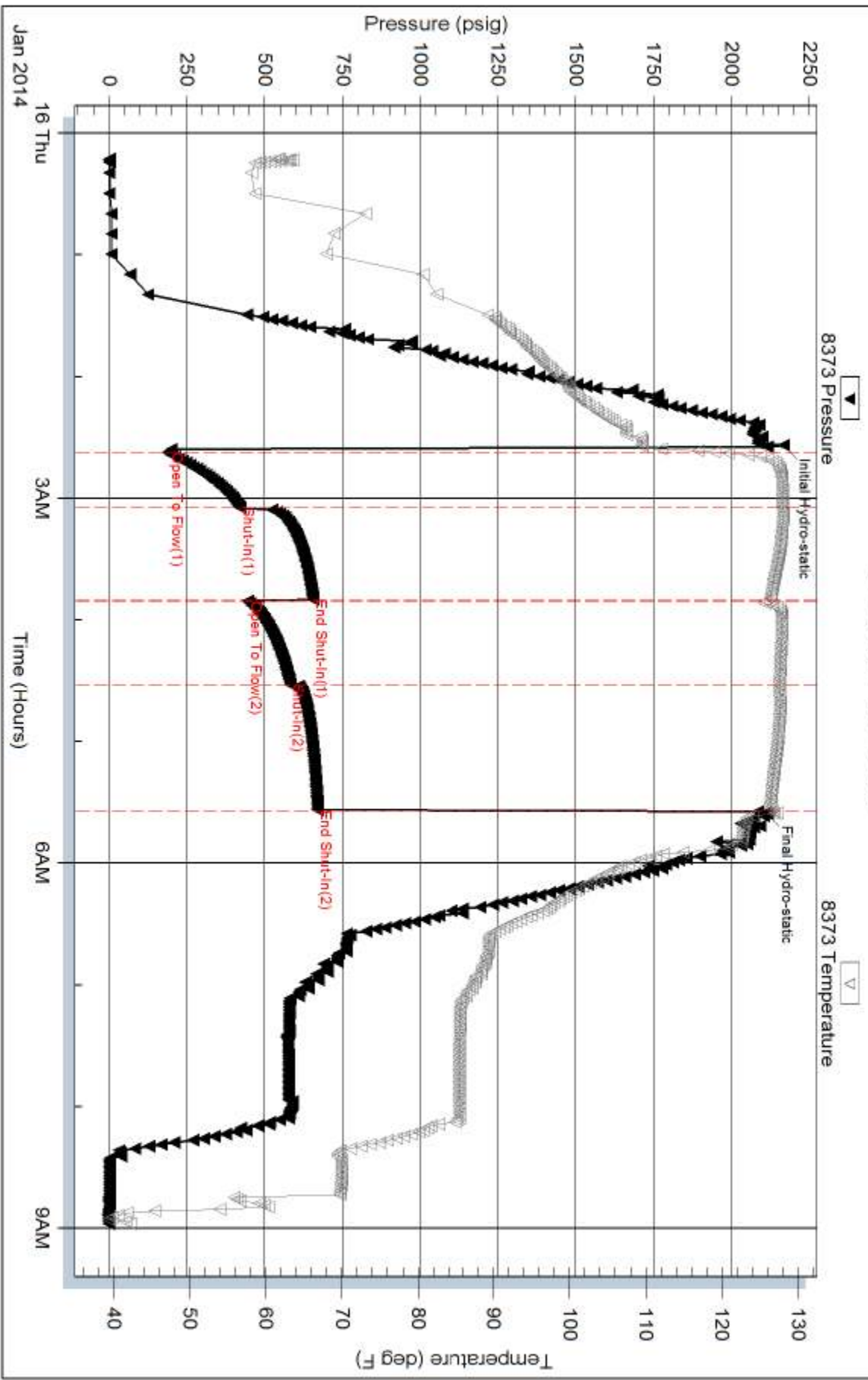
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36@40=38

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
 P.O. Box 6149  
 Shreveport LA  
 71136  
 ATTN: Kurt Talbott

**36-17s-29w Lane Ks**

**Boomer 34-4**

Job Ticket: 55596

**DST#: 6**

Test Start: 2014.01.16 @ 23:44:59

## GENERAL INFORMATION:

Formation: **Altamont pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:21:29  
 Time Test Ended: 06:25:59  
 Interval: **4371.00 ft (KB) To 4475.00 ft (KB) (TVD)**  
 Total Depth: 4475.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2792.00 ft (KB)  
 2787.00 ft (CF)  
 KB to GR/CF: 5.00 ft

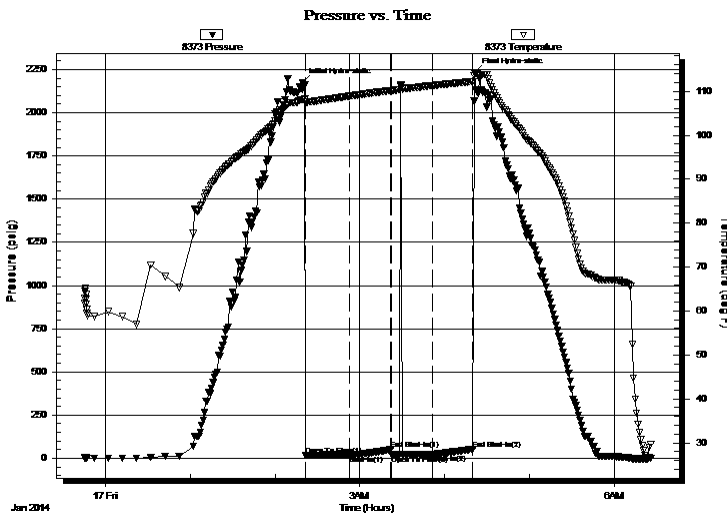
**Serial #: 8373**

**Inside**

Press @ Run Depth: 25.04 psig @ 4372.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.01.16 End Date: 2014.01.17 Last Calib.: 2014.01.17  
 Start Time: 23:45:04 End Time: 06:25:58 Time On Btm: 2014.01.17 @ 02:19:29  
 Time Off Btm: 2014.01.17 @ 04:21:29

**TEST COMMENT:** IF: Surface blow died in 8 min.  
 IS: No return.  
 FF: No blow. Flushed tool surface blow died in 10 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.96	108.14	Initial Hydro-static
2	18.36	107.57	Open To Flow (1)
33	19.92	108.88	Shut-In(1)
63	50.73	110.16	End Shut-In(1)
63	20.10	110.15	Open To Flow (2)
92	25.04	111.27	Shut-In(2)
121	53.45	112.24	End Shut-In(2)
122	2233.47	114.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources

**36-17s-29w Lane Ks**

P.O. Box 6149  
Shreveport LA  
71136

**Boomer 34-4**

Job Ticket: 55596

**DST#: 6**

ATTN: Kurt Talbott

Test Start: 2014.01.16 @ 23:44:59

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

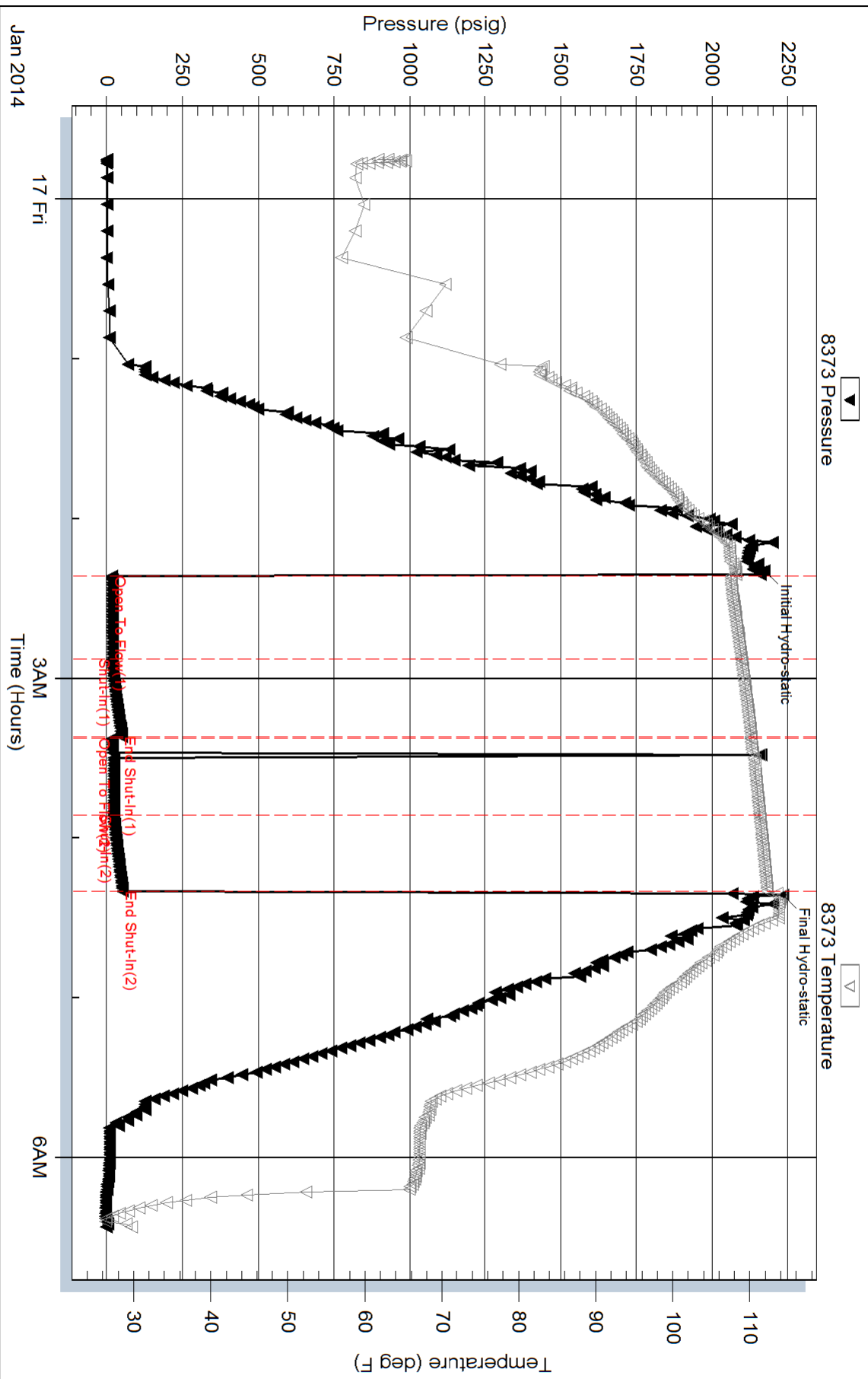
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
 P.O. Box 6149  
 Shreveport LA  
 71136  
 ATTN: Kurt Talbott

**36-17s-29w Lane Ks**

**Boomer 36-4**

Job Ticket: 55597

**DST#: 7**

Test Start: 2014.01.17 @ 17:26:44

## GENERAL INFORMATION:

Formation: **Ft. Scott Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:25:14

Time Test Ended: 00:51:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4470.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 2792.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

2787.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 126.32 psig @ 4471.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.17

End Date:

2014.01.18

Last Calib.:

2014.01.18

Start Time:

17:26:49

End Time:

00:51:43

Time On Btm:

2014.01.17 @ 19:24:44

Time Off Btm:

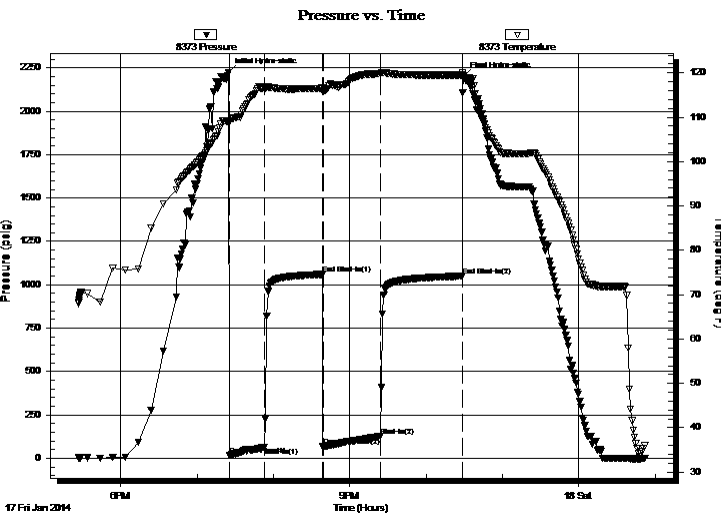
2014.01.17 @ 22:29:14

TEST COMMENT: IF: 1/4 blow built to 4.

IS: No return.

FF: Surface blow built to 4 1/2.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.78	109.25	Initial Hydro-static
1	16.00	108.77	Open To Flow (1)
28	63.65	116.52	Shut-In(1)
74	1059.85	116.54	End Shut-In(1)
75	68.08	116.02	Open To Flow (2)
119	126.32	119.87	Shut-In(2)
184	1050.34	119.50	End Shut-In(2)
185	2198.68	119.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocm 10%o 90%m	0.61
124.00	ocm 5%o 95%m	0.66

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources

**36-17s-29w Lane Ks**

P.O. Box 6149  
Shreveport LA  
71136

**Boomer 36-4**

Job Ticket: 55597

**DST#: 7**

ATTN: Kurt Talbott

Test Start: 2014.01.17 @ 17:26:44

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	ocm 10%o 90%m	0.610
124.00	ocm 5%o 95%m	0.664

Total Length: 248.00 ft      Total Volume: 1.274 bbf

Num Fluid Samples: 0

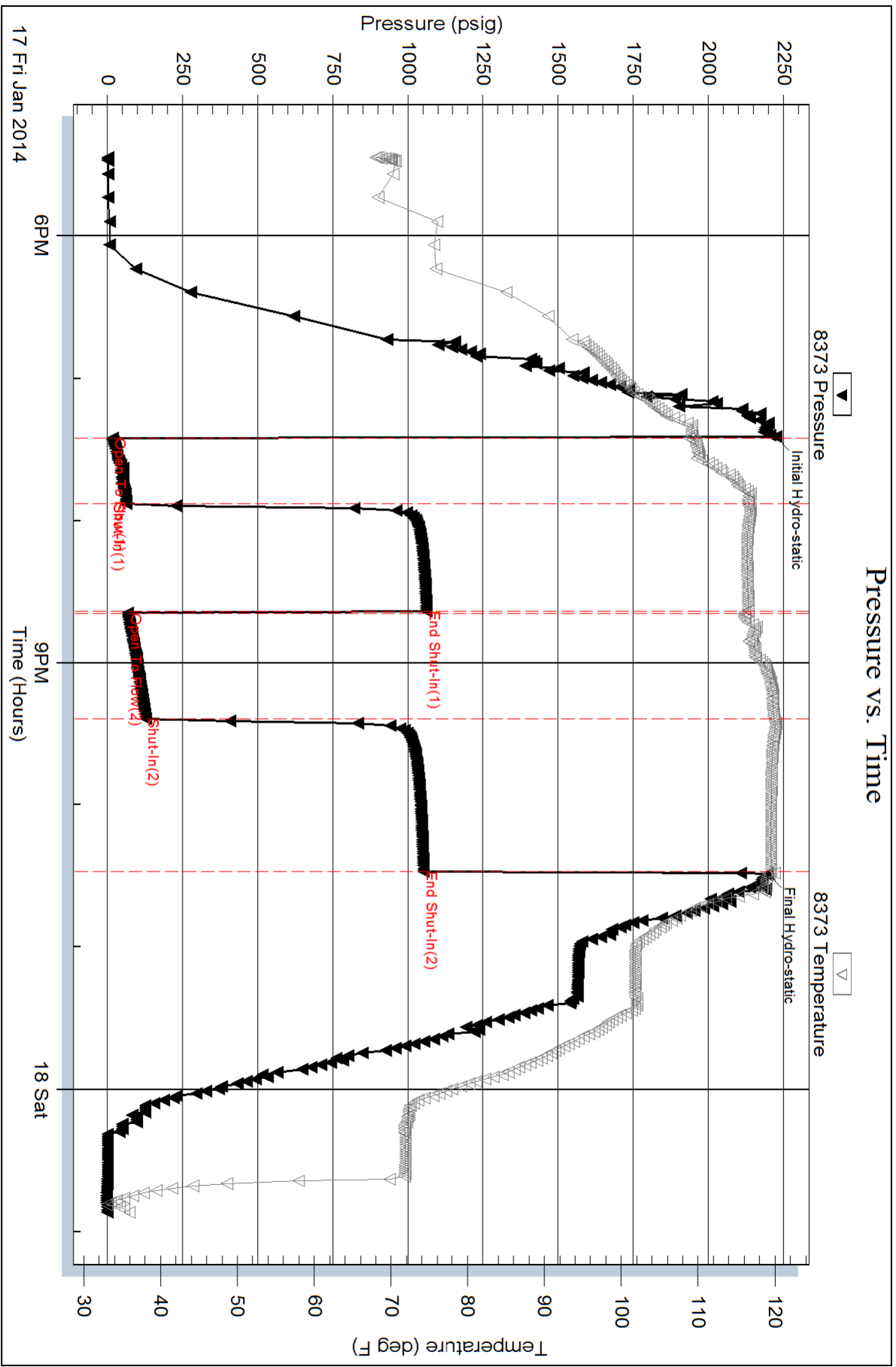
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources  
P.O. Box 6149  
Shreveport LA  
71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**

**Boomer 36-4**

Job Ticket: 55598

**DST#: 8**

Test Start: 2014.01.18 @ 10:15:45

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:15:45

Time Test Ended: 17:40:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4526.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Total Depth: 4560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2792.00 ft (KB)

2787.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 23.83 psig @ 4527.00 ft (KB)

Start Date: 2014.01.18

End Date:

2014.01.18

Start Time: 10:15:50

End Time:

17:40:44

Capacity: 8000.00 psig

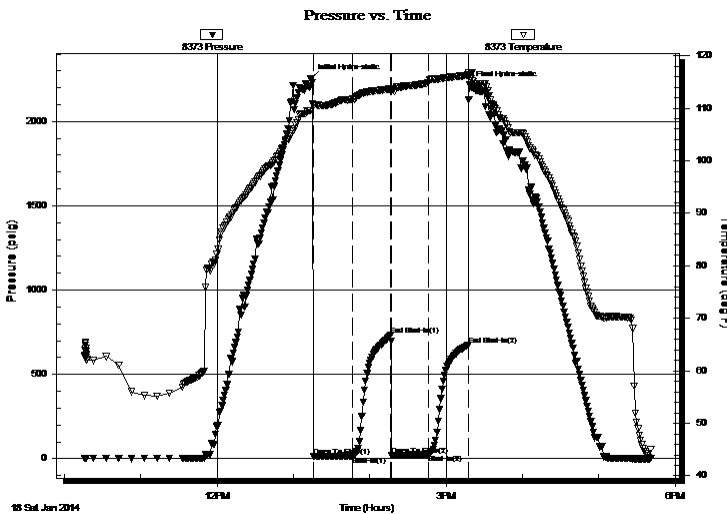
Last Calib.: 2014.01.18

Time On Btm: 2014.01.18 @ 13:13:45

Time Off Btm: 2014.01.18 @ 15:18:15

**TEST COMMENT:** IF: Surface blow died in 6 min.  
IS: No return.  
FF: No blow flushed tool no blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2255.90	109.47	Initial Hydro-static
2	13.73	110.62	Open To Flow (1)
33	17.04	111.71	Shut-In(1)
63	732.63	113.67	End Shut-In(1)
64	18.35	113.43	Open To Flow (2)
92	23.83	114.93	Shut-In(2)
124	674.43	116.28	End Shut-In(2)
125	2214.78	116.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

O Brien Resources  
P.O. Box 6149  
Shreveport LA  
71136  
ATTN: Kurt Talbott

**36-17s-29w Lane Ks**  
**Boomhower 36-4**  
Job Ticket: 55598      **DST#: 8**  
Test Start: 2014.01.18 @ 10:15:45

## Mud and Cushion Information

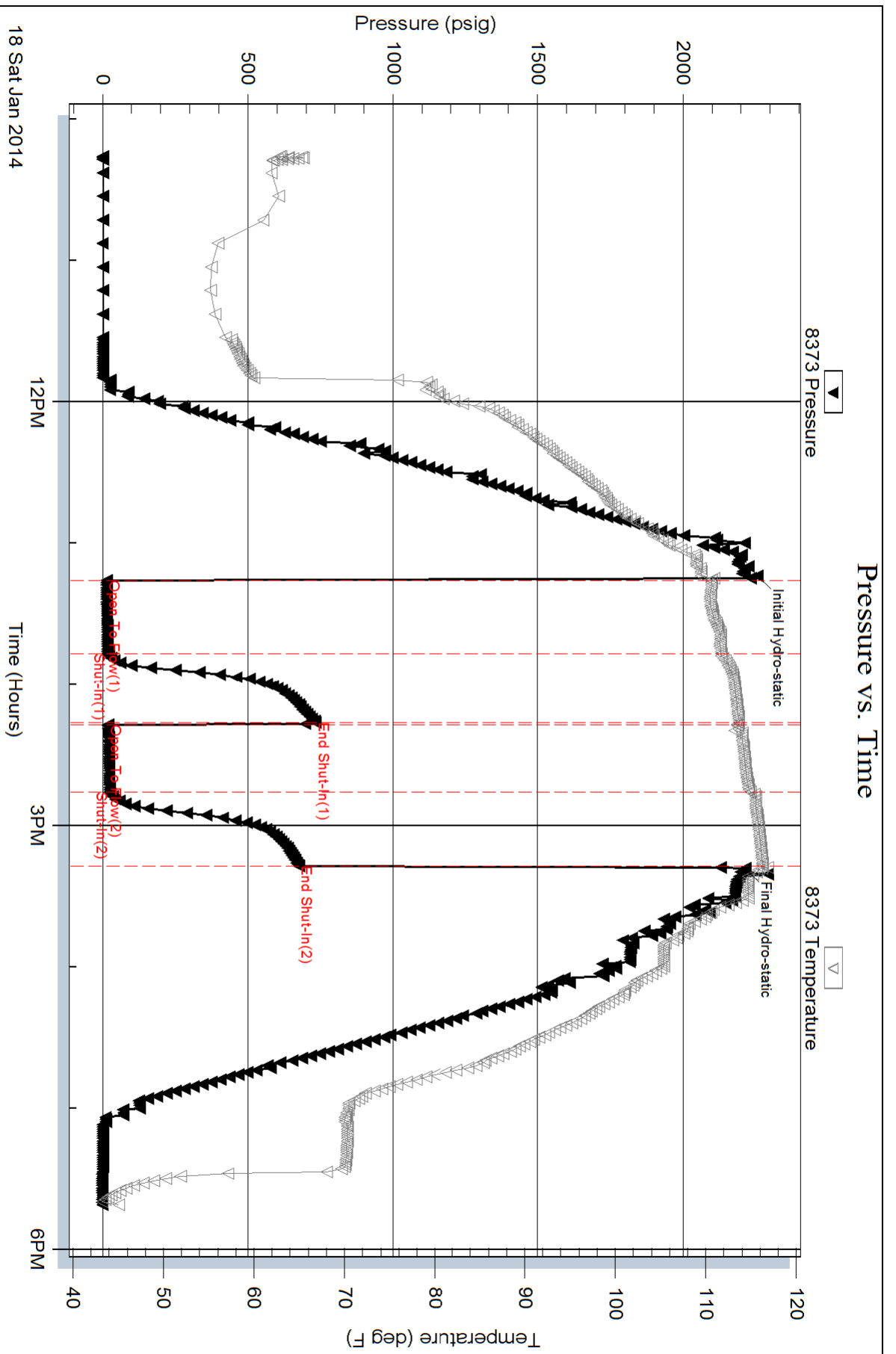
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%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:



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

July 01, 2014

Heather Haynes  
O'Brien Resources, LLC  
PO BOX 6149  
SHREVEPORT, LA 71136

Re: ACO-1  
API 15-101-22481-00-00  
Boomhower 36 4  
NW/4 Sec.36-17S-29W  
Lane County, Kansas

Dear Heather Haynes:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 01/07/2014 and the ACO-1 was received on June 26, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department