



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1174815  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1174815

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 <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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Boomhower 36 3
Doc ID	1174815

All Electric Logs Run

Caliper
Composite
Density-Neutron
Induction
Micro Log

Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Boomhower 36 3
Doc ID	1174815

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4456-4464; 4473-77'	500 gals NeFe	
4	4493-4497; 4510-17'	500 gals 15% NeFe & 600 gals 15% MCA	
4	CIBP		4531
4	4536-40	500 gals 15% MCA	
4	4542-46		
	CIBP		4555
4	4565-71	250 gals 10% Acetic	





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**36-17S-29W**  
**Boomhower 36 #3**  
 Job Ticket: 55521      **DST#: 1**  
 Test Start: 2013.10.19 @ 13:20:50

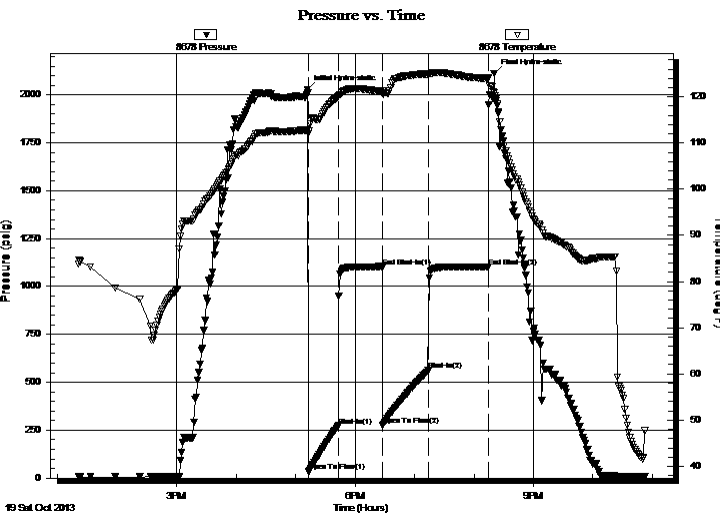
## GENERAL INFORMATION:

Formation: **Lansing H & I**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:13:05  
 Tester: Tim Phillips  
 Time Test Ended: 22:52:50  
 Unit No: 69  
 Interval: **4115.00 ft (KB) To 4180.00 ft (KB) (TVD)**  
 Reference Elevations: 2784.00 ft (KB)  
 Total Depth: 4180.00 ft (KB) (TVD)  
 2776.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

## Serial #: 8678

Press @ RunDepth: 562.39 psig @ ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.19      End Date: 2013.10.19      Last Calib.: 2013.10.19  
 Start Time: 13:20:55      End Time: 22:52:50      Time On Btm: 2013.10.19 @ 17:11:50  
 Time Off Btm: 2013.10.19 @ 20:20:20

TEST COMMENT: IFP-30-BOB in 5 min  
 ISI-45-No blow back  
 FF-45-BOB in 6 min  
 FSI-60-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.57	112.79	Initial Hydro-static
2	34.30	112.08	Open To Flow (1)
32	273.52	120.02	Shut-In(1)
76	1104.05	121.24	End Shut-In(1)
77	276.54	120.75	Open To Flow (2)
122	562.39	124.90	Shut-In(2)
183	1103.25	123.92	End Shut-In(2)
189	2112.55	120.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1200.00		16.83

## 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**

P.O. Box 6149  
Shreveport, LA 71136

**Boomhower 36 #3**

Job Ticket: 55521

**DST#: 1**

ATTN: Kurt

Test Start: 2013.10.19 @ 13:20:50

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1200.00		16.833

Total Length: 1200.00 ft      Total Volume: 16.833 bbl

Num Fluid Samples: 0

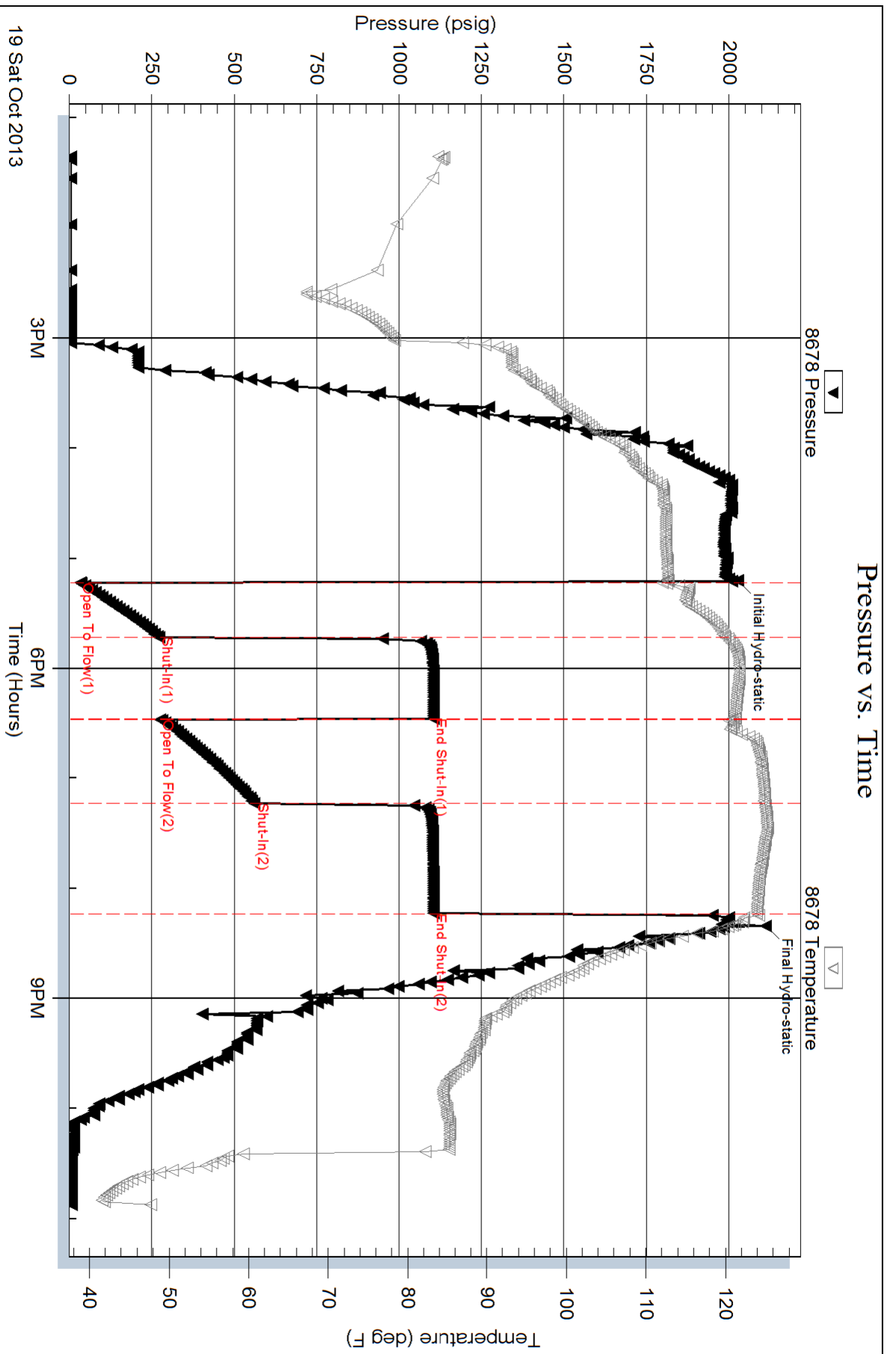
Num Gas Bombs: 0

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

**36-17S-29W**  
**Boomhower 36 #3**  
Job Ticket: 55522      **DST#: 2**  
Test Start: 2013.10.20 @ 07:10:00

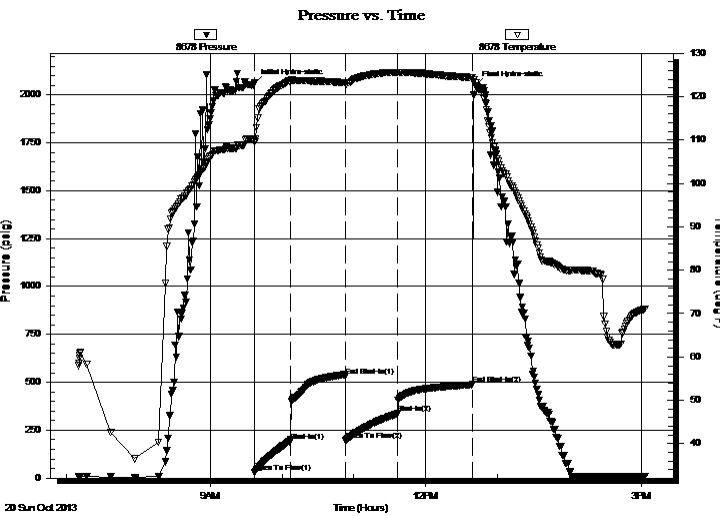
## GENERAL INFORMATION:

Formation: **Lansing J**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 09:37:15  
Time Test Ended: 15:03:30  
Interval: **4185.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
Total Depth: 4220.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Tim Phillips  
Unit No: 69  
Reference Elevations: 2784.00 ft (KB)  
2776.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8678

Press @ Run Depth: 336.58 psig @                      ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.20      End Date: 2013.10.20      Last Calib.: 2013.10.20  
Start Time: 07:10:05      End Time: 15:03:29      Time On Btm: 2013.10.20 @ 09:37:00  
Time Off Btm: 2013.10.20 @ 12:41:45

TEST COMMENT: IFP-30-BOB in 6 min  
ISP-45- No Blow Back  
FF-45-BOB in 12 min.  
FSI-60-No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.36	110.37	Initial Hydro-static
1	31.36	109.67	Open To Flow (1)
30	192.87	123.67	Shut-In(1)
76	532.71	123.19	End Shut-In(1)
76	197.73	123.02	Open To Flow (2)
120	336.58	125.57	Shut-In(2)
182	488.96	124.35	End Shut-In(2)
185	2047.45	123.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCO 2%O, 98%M	0.21
785.00	MW 5%M, 95%W	11.01
0.00	Resistance .14, Temp 57= 60,000 ppm Cf	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

**36-17S-29W**

P.O. Box 6149  
Shreveport, LA 71136

**Boomer 36 #3**

Job Ticket: 55522

**DST#: 2**

ATTN: Kurt

Test Start: 2013.10.20 @ 07:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	MCO 2%O, 98%M	0.210
785.00	MW 5%M, 95%W	11.011
0.00	Resistance .14, Temp 57= 60,000 ppm Chlo	0.000

Total Length: 800.00 ft

Total Volume: 11.221 bbl

Num Fluid Samples: 0

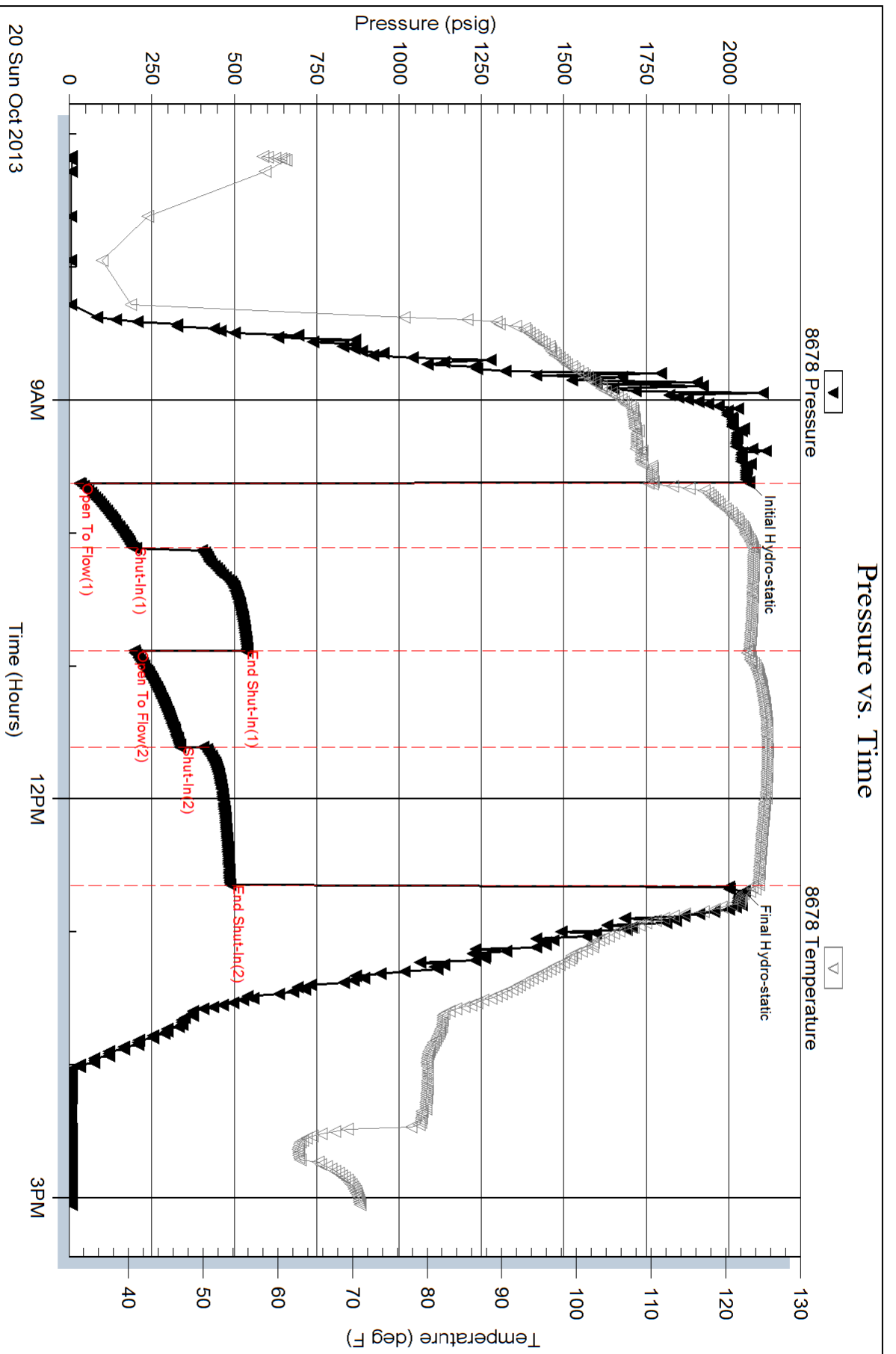
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**36-17S-29W**  
**Boomer 36 #3**  
 Job Ticket: 55523      **DST#: 3**  
 Test Start: 2013.10.20 @ 23:35:00

## GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:46:45  
 Tester: Tim Phillips  
 Time Test Ended: 10:59:00  
 Unit No: 69  
 Interval: **4218.00 ft (KB) To 4260.00 ft (KB) (TVD)**  
 Reference Elevations: 2784.00 ft (KB)  
 Total Depth: 4260.00 ft (KB) (TVD)  
 2776.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

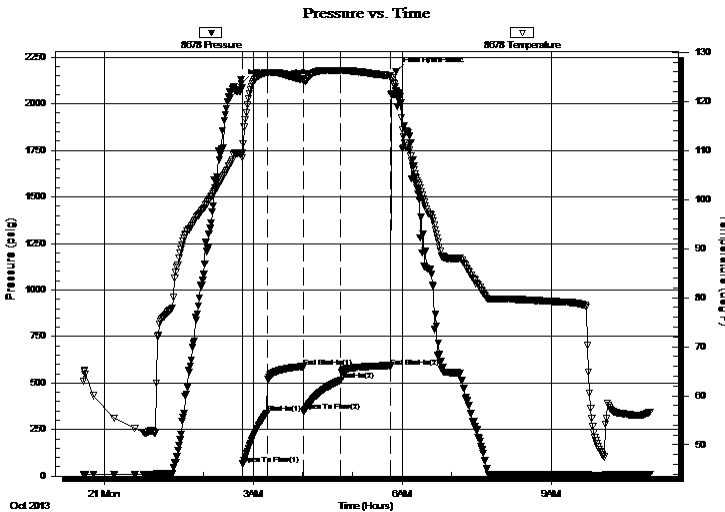
## Serial #: 8678

Inside

Press @ Run Depth: 515.02 psig @ 4219.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.20      End Date: 2013.10.21      Last Calib.: 2013.10.21  
 Start Time: 23:35:05      End Time: 10:59:00      Time On Btm: 2013.10.21 @ 02:45:30  
 Time Off Btm: 2013.10.21 @ 05:52:30

TEST COMMENT: IFP-30-BOB in 4 min  
 ISI-45-No Blow Back  
 FF-45-BOB in 6 min  
 FSI-60-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.64	109.28	Initial Hydro-static
2	65.37	108.49	Open To Flow (1)
32	340.27	125.84	Shut-In(1)
76	586.85	124.38	End Shut-In(1)
76	348.61	124.26	Open To Flow (2)
121	515.02	126.24	Shut-In(2)
181	587.74	125.20	End Shut-In(2)
187	2174.74	122.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
580.00	GMCOV 5%M, 25%O, 30%G, 40%W	8.14
625.00	MCWO 10%M, 30%W, 60%O	8.77
0.00	GIP 1240 ft	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 LLC  
 P.O. Box 6149  
 Shreveport, LA 71136  
 ATTN: Kurt

**36-17S-29W**  
**Boomer 36 #3**  
 Job Ticket: 55523      **DST#: 3**  
 Test Start: 2013.10.20 @ 23:35:00

## 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:	60000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

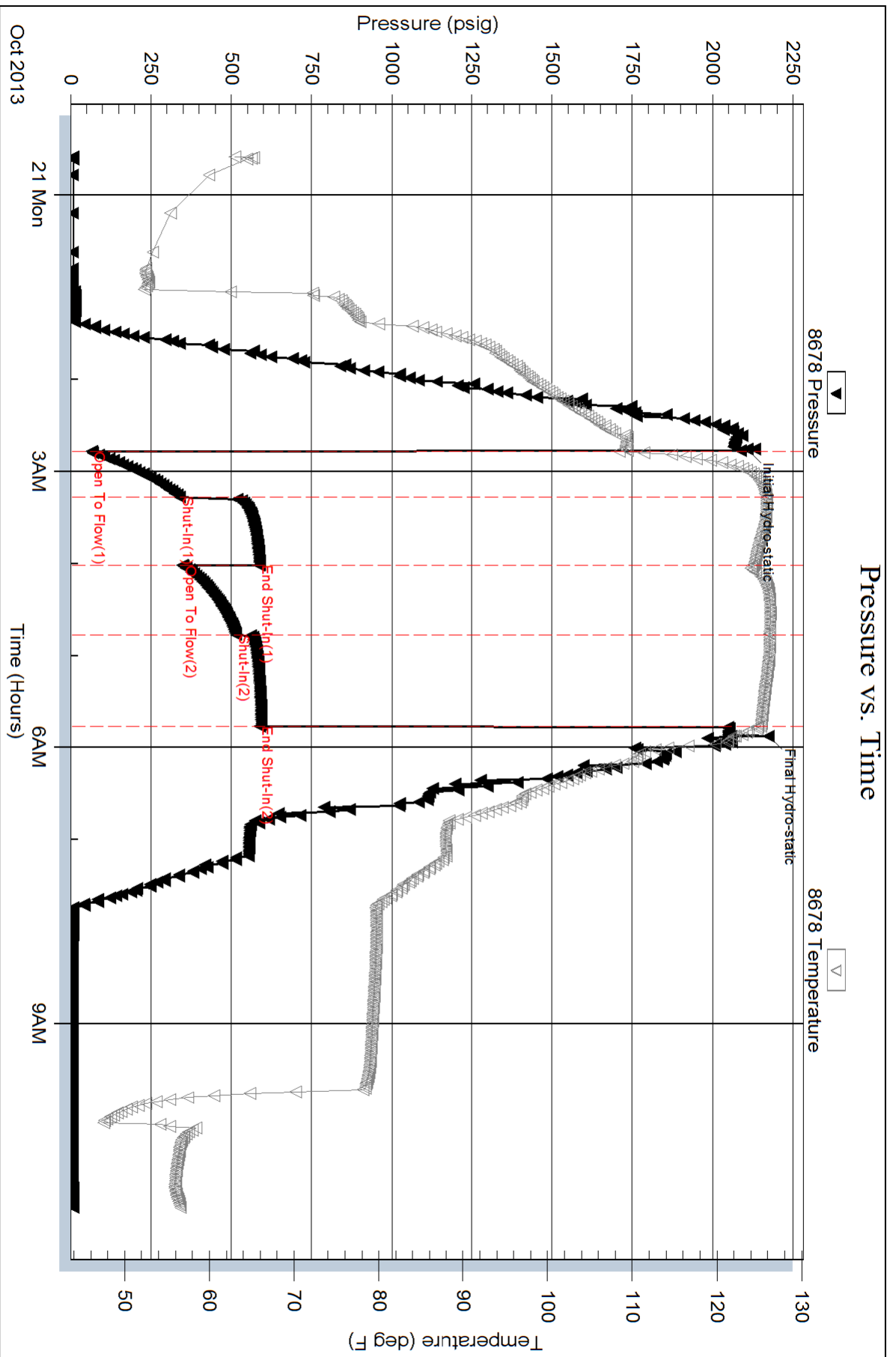
Length ft	Description	Volume bbl
580.00	GMCOV 5%M, 25%O, 30%G, 40%W	8.136
625.00	MCWO 10%M, 30%W, 60%O	8.767
0.00	GIP 1240 ft	0.000

Total Length: 1205.00 ft      Total Volume: 16.903 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Can not separate oil for gravity  
 RW= .14 @ 59 degrees = 60000 salinity





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**36-17S-29W**  
**Boomer 36 #3**  
 Job Ticket: 53324      **DST#: 4**  
 Test Start: 2013.10.21 @ 19:54:00

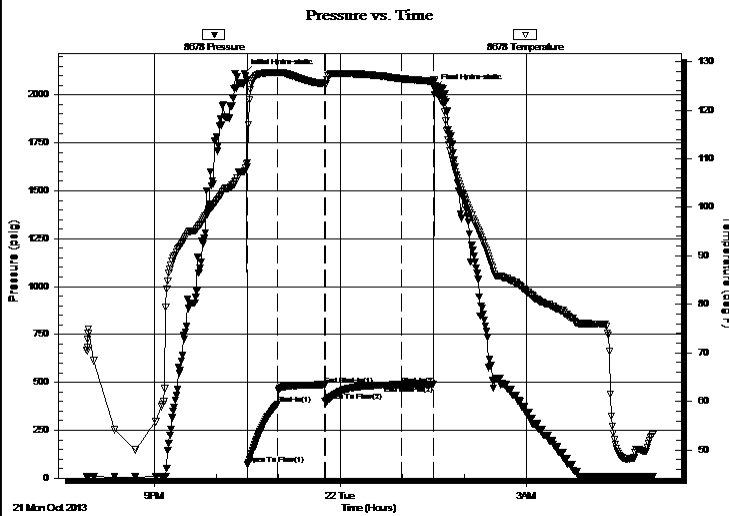
## GENERAL INFORMATION:

Formation: **Lansing L**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:29:30  
 Time Test Ended: 05:02:00  
 Interval: **4264.00 ft (KB) To 4305.00 ft (KB) (TVD)**  
 Total Depth: 4305.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tim Phillips  
 Unit No: 69  
 Reference Elevations: 2784.00 ft (KB)  
 2776.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8678

Press @ Run Depth: 487.70 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.21 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 19:54:05 End Time: 05:02:00 Time On Btm: 2013.10.21 @ 22:27:00  
 Time Off Btm: 2013.10.22 @ 01:30:15

TEST COMMENT: IFP-30- BOB in 2.5 min.  
 ISI-45-No blow back  
 FF-45-BOB in 9 min  
 FSI-60-No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.08	107.47	Initial Hydro-static
3	73.79	108.29	Open To Flow (1)
32	388.49	127.75	Shut-In(1)
78	487.25	125.41	End Shut-In(1)
78	400.82	125.34	Open To Flow (2)
152	487.70	126.45	Shut-In(2)
183	487.73	125.94	End Shut-In(2)
184	2035.87	126.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1000.00	SOMCW 5%O, 5%M, 90%W	14.03
0.00	GIP 20 ft	0.00

## 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 LLC  
P.O. Box 6149  
Shreveport, LA 71136  
ATTN: Kurt

**36-17S-29W**  
**Boomhower 36 #3**  
Job Ticket: 53324      **DST#: 4**  
Test Start: 2013.10.21 @ 19:54:00

## 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: bbl		
Water Loss: 4.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1000.00	SOMCW 5%O, 5%M, 90%W	14.027
0.00	GIP 20 ft	0.000

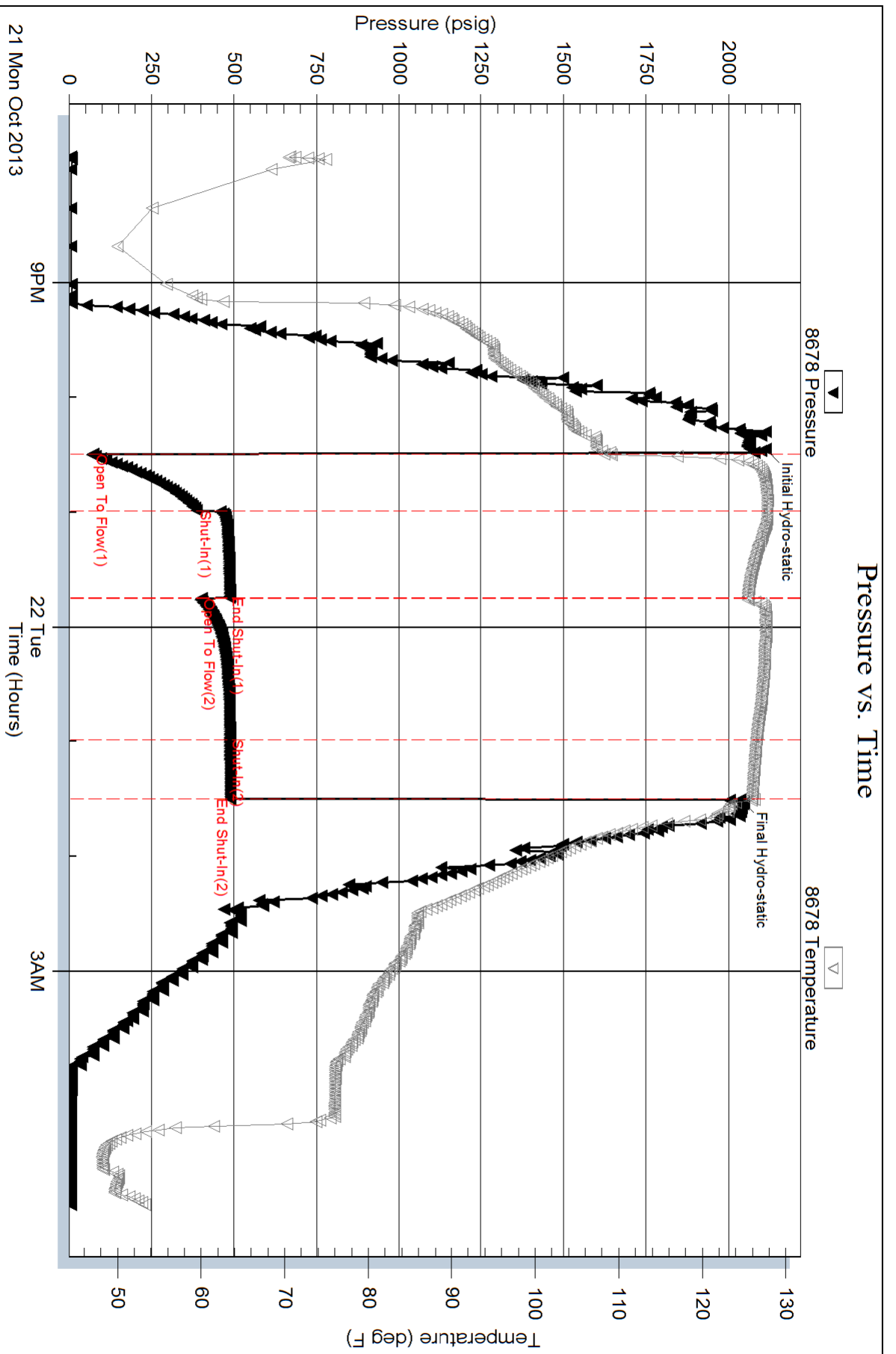
Total Length: 1000.00 ft      Total Volume: 14.027 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW=.15 @ 44 Degr.= 80,000 Salinity







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources LLC  
P.O. Box 6149  
Shreveport, LA 71136  
ATTN: Kurt Tallbot

**36-17S-29W Lane, Ks**

**Boomhower 36 #3**

Job Ticket: 55525

**DST#: 5**

Test Start: 2013.10.22 @ 22:13:00

## GENERAL INFORMATION:

Formation: **Pleasanton - Marmato**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:45

Time Test Ended: 04:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4305.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Total Depth: 4340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2784.00 ft (KB)

2776.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8677 Inside**

Press @ Run Depth: 61.50 psig @ 4306.00 ft (KB)

Start Date: 2013.10.22

End Date:

2013.10.23

Start Time: 22:13:05

End Time:

04:45:59

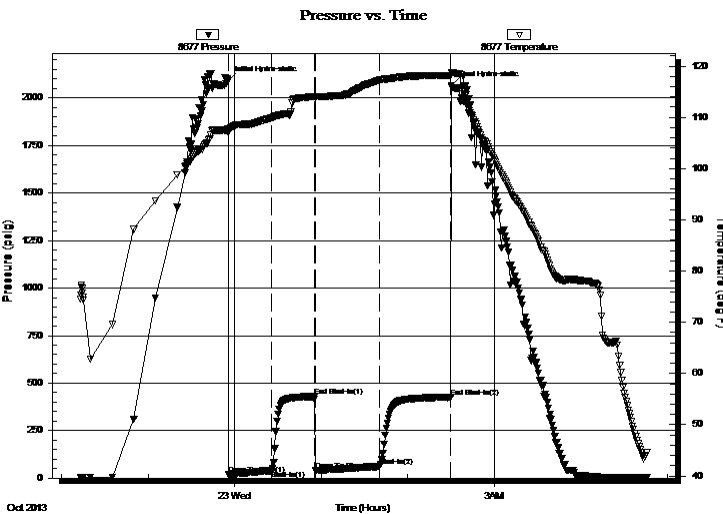
Capacity: 8000.00 psig

Last Calib.: 2013.10.23

Time On Btm: 2013.10.22 @ 23:55:30

Time Off Btm: 2013.10.23 @ 02:30:15

**TEST COMMENT:** IF: 30- 2" blow  
IS: 30- No return.  
FF: 45- 4" blow .  
FS: 45- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.71	107.84	Initial Hydro-static
1	20.53	106.99	Open To Flow (1)
31	38.41	109.93	Shut-In(1)
60	429.58	113.99	End Shut-In(1)
61	39.52	113.92	Open To Flow (2)
105	61.50	117.26	Shut-In(2)
155	425.87	118.19	End Shut-In(2)
155	2064.02	118.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	sow cm 1o 2w 97m (6" oil on top)	1.30

## 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 LLC

**36-17S-29W Lane, Ks**

P.O. Box 6149  
Shreveport, LA 71136

**Boomhower 36 #3**

Job Ticket: 55525

**DST#: 5**

ATTN: Kurt Tallbot

Test Start: 2013.10.22 @ 22:13:00

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	sow cm 1o 2w 97m (6" oil on top)	1.305

Total Length: 93.00 ft      Total Volume: 1.305 bbl

Num Fluid Samples: 0

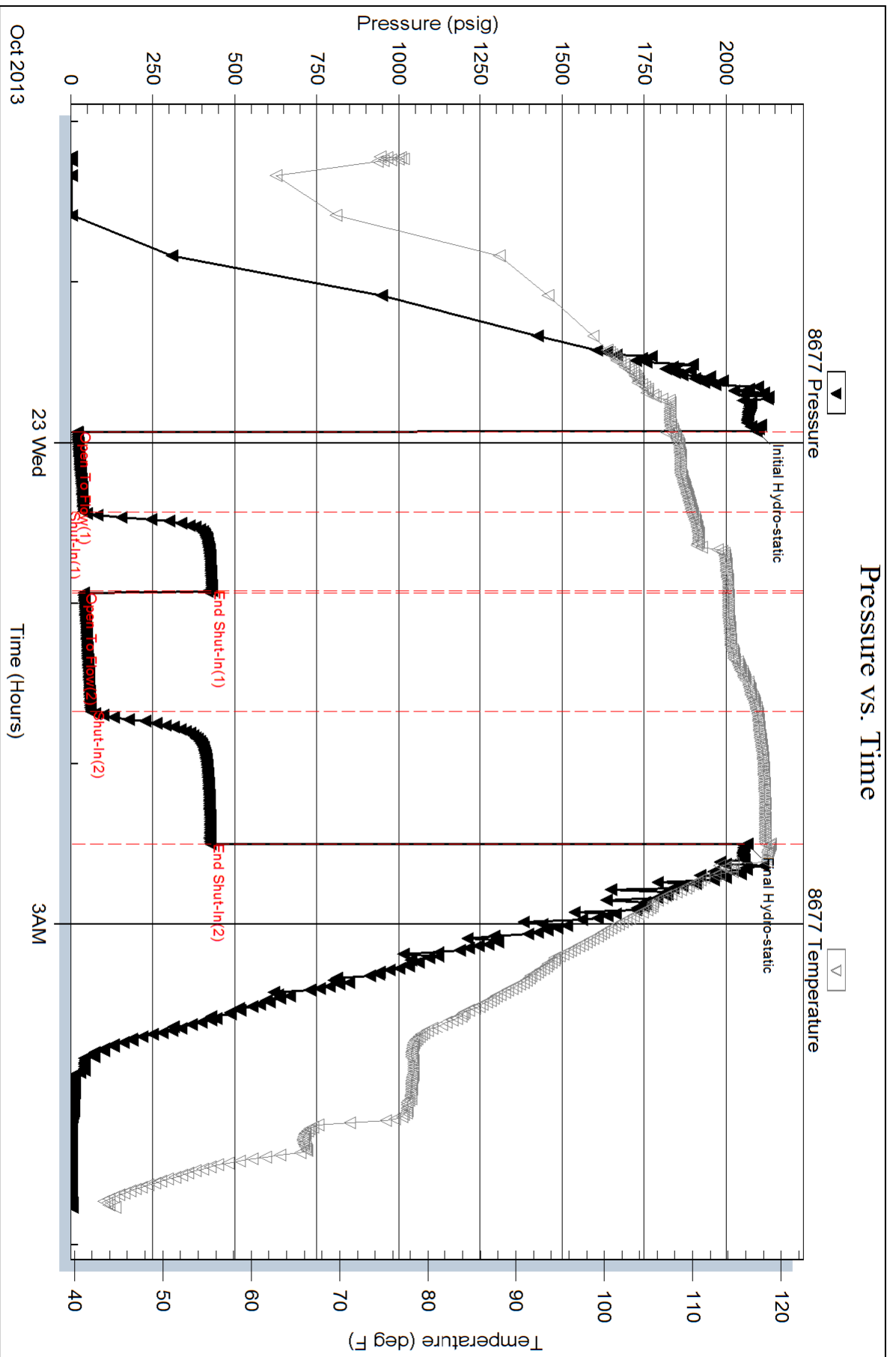
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

O'Brien Resources LLC  
 P.O. Box 6149  
 Shreveport, LA 71136  
 ATTN: Kurt Tallbot

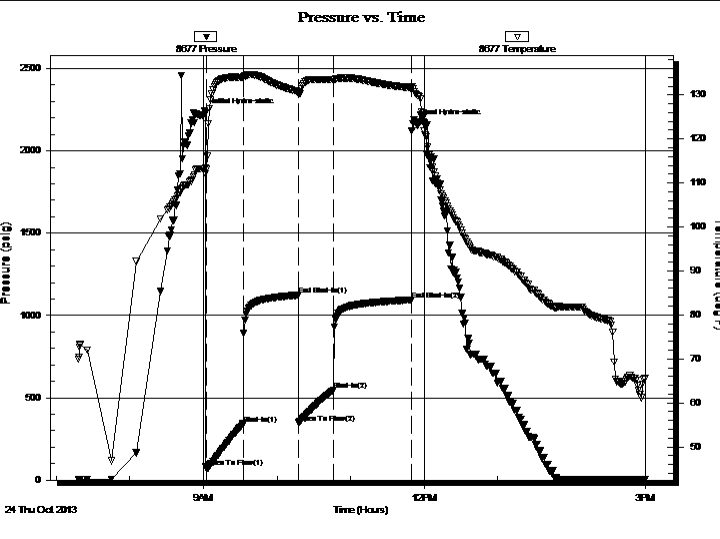
**36-17S-29W Lane, Ks**  
**Boomhower 36 #3**  
 Job Ticket: 55601 **DST#: 6**  
 Test Start: 2013.10.24 @ 07:18:00

**GENERAL INFORMATION:**

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 09:02:00 Tester: Bradley Walter  
 Time Test Ended: 14:59:45 Unit No: 69  
**Interval: 4494.00 ft (KB) To 4550.00 ft (KB) (TVD)** Reference Elevations: 2784.00 ft (KB)  
 Total Depth: 4550.00 ft (KB) (TVD) 2776.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8677** **Inside**  
 Press @ Run Depth: 548.83 psig @ 4495.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.24 End Date: 2013.10.24 Last Calib.: 2013.10.24  
 Start Time: 07:18:05 End Time: 14:59:44 Time On Btm: 2013.10.24 @ 09:01:30  
 Time Off Btm: 2013.10.24 @ 11:50:45

**TEST COMMENT:** IF: BOB @ 30 sec.  
 IS: BOB @ 5 min.  
 FF: BOB @ 3 min.  
 FSI: BOB @ 10 min. GAS to surface @ 50 min.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.02	113.49	Initial Hydro-static
1	77.36	113.09	Open To Flow (1)
31	341.50	133.89	Shut-In (1)
76	1123.82	130.71	End Shut-In (1)
77	348.82	130.21	Open To Flow (2)
105	548.83	133.38	Shut-In (2)
168	1096.30	131.53	End Shut-In (2)
170	2165.13	131.43	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	gocm 25g 35o 40m	1.26
1440.00	go 40g 60o	20.20

\* 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 LLC  
 P.O. Box 6149  
 Shreveport, LA 71136  
 ATTN: Kurt Tallbot

**36-17S-29W Lane, Ks**  
**Boomhower 36 #3**  
 Job Ticket: 55601      **DST#: 6**  
 Test Start: 2013.10.24 @ 07:18:00

## Mud and Cushion Information

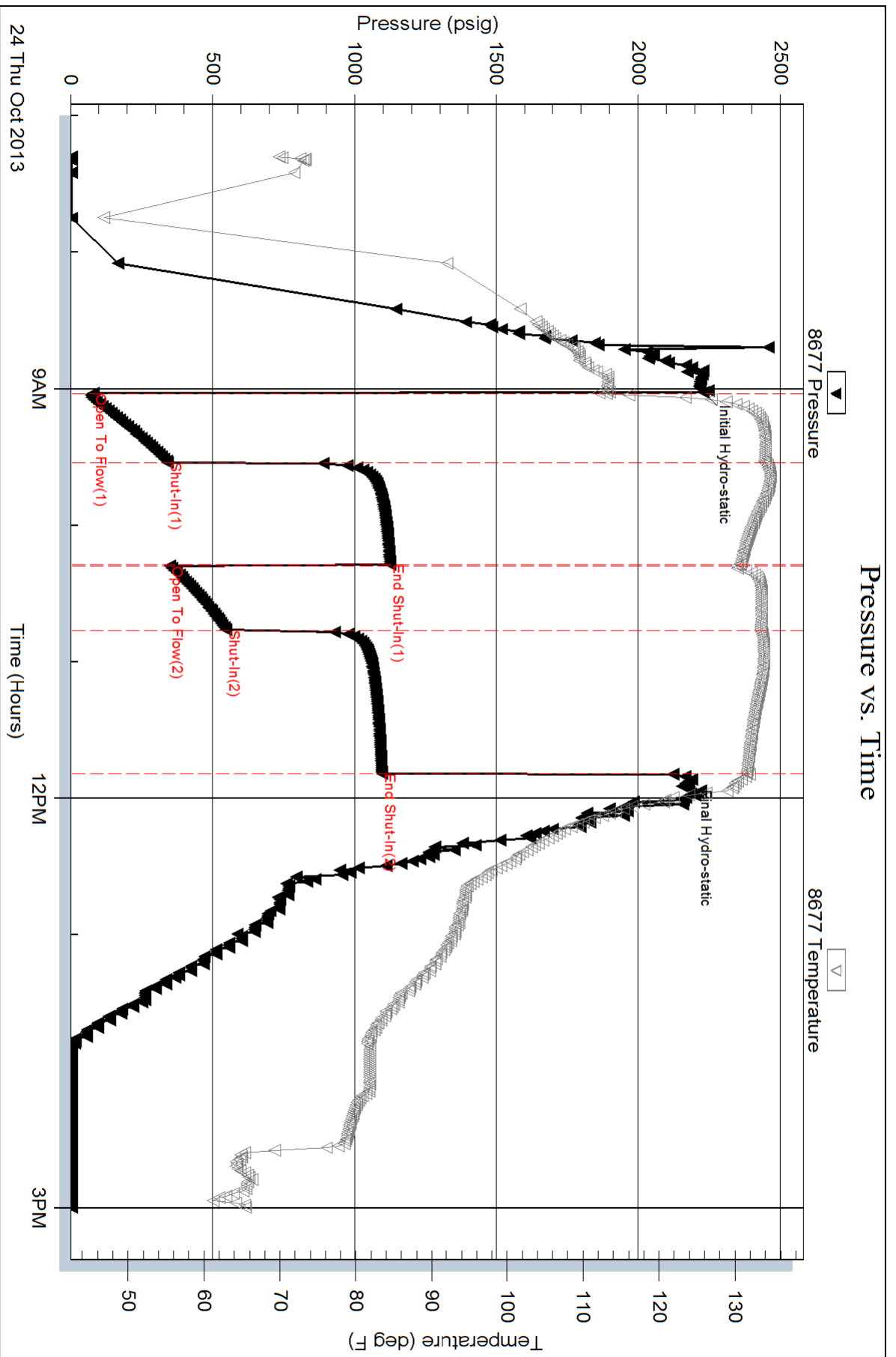
Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.60 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gocm 25g 35o 40m	1.262
1440.00	go 40g 60o	20.199

Total Length: 1530.00 ft      Total Volume: 21.461 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# ALLIED OIL & GAS SERVICES, LLC 061917

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Great Bend, KS

DATE <u>10-15-13</u>	SEC <u>36</u>	TWP. <u>17</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>Bloomhart</u> WELL # <u>3</u>		LOCATION <u>Dighton 3 1/2 N, West,</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <input checked="" type="checkbox"/> NEW				<input checked="" type="checkbox"/> Sinter			

CONTRACTOR 1/11 #2 OWNER \_\_\_\_\_

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. \_\_\_\_\_ CEMENT \_\_\_\_\_

CASING SIZE 8 3/8 DEPTH 278.20 AMOUNT ORDERED 150 SKS Class A 3% CC

TUBING SIZE \_\_\_\_\_ DEPTH 28 1/2 gal

DRILL PIPE 4 1/2 DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 150 @ 17.90 2,685.00

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_ POZMIX \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. 15 FT GEL 3 @ 23.40 70.20

PERFS. \_\_\_\_\_ CHLORIDE 5 @ 67.00 320.00

DISPLACEMENT  16.76 BBLs fresh water ASC \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK # <u>366</u>	CEMENTER <u>Josh Hare</u>	HELPER <u>Ben Newell</u>	_____	_____	_____
BULK TRUCK # <u>609-112</u>	DRIVER <u>Dan Casper</u>	_____	_____	_____	_____
BULK TRUCK # _____	DRIVER _____	_____	_____	_____	_____
HANDLING <u>162.09</u>			@ <u>2.48</u>	<u>401.98</u>	_____
MILEAGE <u>7.4 x 35.4</u>			@ <u>2.60</u>	<u>673.40</u>	_____
TOTAL				<u>4,150.58</u>	_____

**REMARKS:**

On location - Rig up - had safety meeting  
Run 8 3/8 casing, Break circulation with Rig mud  
pump 5 bbls Freshwater Ahead  
mix 150 SKS class A 3% CC 2% gel  
Displace 16.76 bbls fresh water  
Shot in  
Cement did circulate  
12 1/2 down

**SERVICE**

DEPTH OF JOB _____	PUMP TRUCK CHARGE <u>1512.35</u>	EXTRA FOOTAGE _____ @ _____	MILEAGE <u>Hum 35</u> @ <u>7.70</u> <u>269.50</u>	MANIFOLD _____ @ _____	_____ @ _____
	<u>Hum 35</u>	@ <u>4.40</u>	<u>154.00</u>	_____	_____
TOTAL				<u>1,935.75</u>	_____

CHARGE TO: O'Brien Resources LLC  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

_____	@ _____	_____	_____	_____	_____
_____	@ _____	_____	_____	_____	_____
_____	@ _____	_____	_____	_____	_____
_____	@ _____	_____	_____	_____	_____
_____	@ _____	_____	_____	_____	_____
TOTAL				_____	_____

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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 6,086.33  
1,521.58  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
4,564.75

PRINTED NAME X

SIGNATURE Ally Bell

Thank you!!





**CONSOLIDATED**  
Oil Well Services, LLC

263543

TICKET NUMBER 44472  
LOCATION Oakley, MS  
FOREMAN Mikes Shaw  
Fuzzy McCudrick

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																				
10-26-13	5950	Boomer 36 #3	36	17S	39W	Lawrence																				
CUSTOMER			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>530718</td> <td>Dane R</td> <td></td> <td></td> </tr> <tr> <td>587127</td> <td>Jeremy S</td> <td></td> <td></td> </tr> <tr> <td>566</td> <td>Jeremy S</td> <td></td> <td></td> </tr> <tr> <td>460</td> <td>Darin</td> <td>(from Gillette)</td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	530718	Dane R			587127	Jeremy S			566	Jeremy S			460	Darin	(from Gillette)	
TRUCK #	DRIVER	TRUCK #	DRIVER																							
530718	Dane R																									
587127	Jeremy S																									
566	Jeremy S																									
460	Darin	(from Gillette)																								
MAILING ADDRESS			Dighton MS 52 W V Fntu																							
CITY	STATE	ZIP CODE																								

JOB TYPE 2 Stage HOLE SIZE 7 7/8 HOLE DEPTH 4683 CASING SIZE & WEIGHT 4 1/2" 105 lb  
 CASING DEPTH 4683 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DUTAL @ 2100, 59  
 SLURRY WEIGHT 14.51 SLURRY VOL 1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 21.00'  
 DISPLACEMENT 70% DISPLACEMENT PSI 1000 MIX PSI 1200 RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on Val drilling Rig #2 Float equipment  
 Centralizers on Jats # 3, 5, 7, 9, 11, 13, 15, 18, 22, 59 Baskets on Jats # 6, 23, 60  
 DUTAL @ 2100 on Jats # 60 Run casing to bottom circulate casing 1 hr  
 mud 250 gal mud flush mix 180 sls cc with 5# Volseal Shut down released plug  
 cleared pump & line displaced 40 bbls water & 36 1/2 bbls mud with 600 psi LH Plusland  
 and held @ 1200 psi Drapped opening dart opened @ 200 psi Circulate casing 3 hrs  
 Pump 250 bbls mud flush mixed 500 sls 60 gal 2 1/2 gal 1/4" Plusland down casing shut down  
 cleared pump & line released plug displaced 34 1/2 bbls with 600 psi LH tool closed  
 and held @ 1200 psi Cement did circulate 15 bbls to pit. Mix 300 sls BH + 200 sls MH  
 Thanks Mikes & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	35	MILEAGE	5.25	183.75
5407A	32.54 Tons	Ton mileage delivery	1.75	1993.25
1126	180 SLS	OWC	23.70	4266.00
1131	580 SLS	60/40 port cement	15.86	8881.60
1107	140 #	Plusland	2.97	415.80
1110A	900 #	Volseal	1.56	304.00
1118B	3852 #	Bertranto gel	1.27	1040.04
1144 G	500 gal		1.00	500.00
4603	3	4 1/2" baskets	275.00	825.00
4129	12	4 1/2" Centralizers	48.50	582.00
4276	1	4 1/2" DUTAL W	4200.00	4200.00
4150	1	4 1/2" Float Shoe AFU	301.50	301.50
4453	1	4 1/2" Lat chdown	475.00	475.00
4314	40	4 1/2" Reciprocating scratchers	82.00	3280.00
		Subtotal		30622.94
		10 SS 1000 Count		3062.29
		Subtotal		27560.65
		SALES TAX 7.15		1626.18
		ESTIMATED TOTAL		29186.83

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.