



**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 in³

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

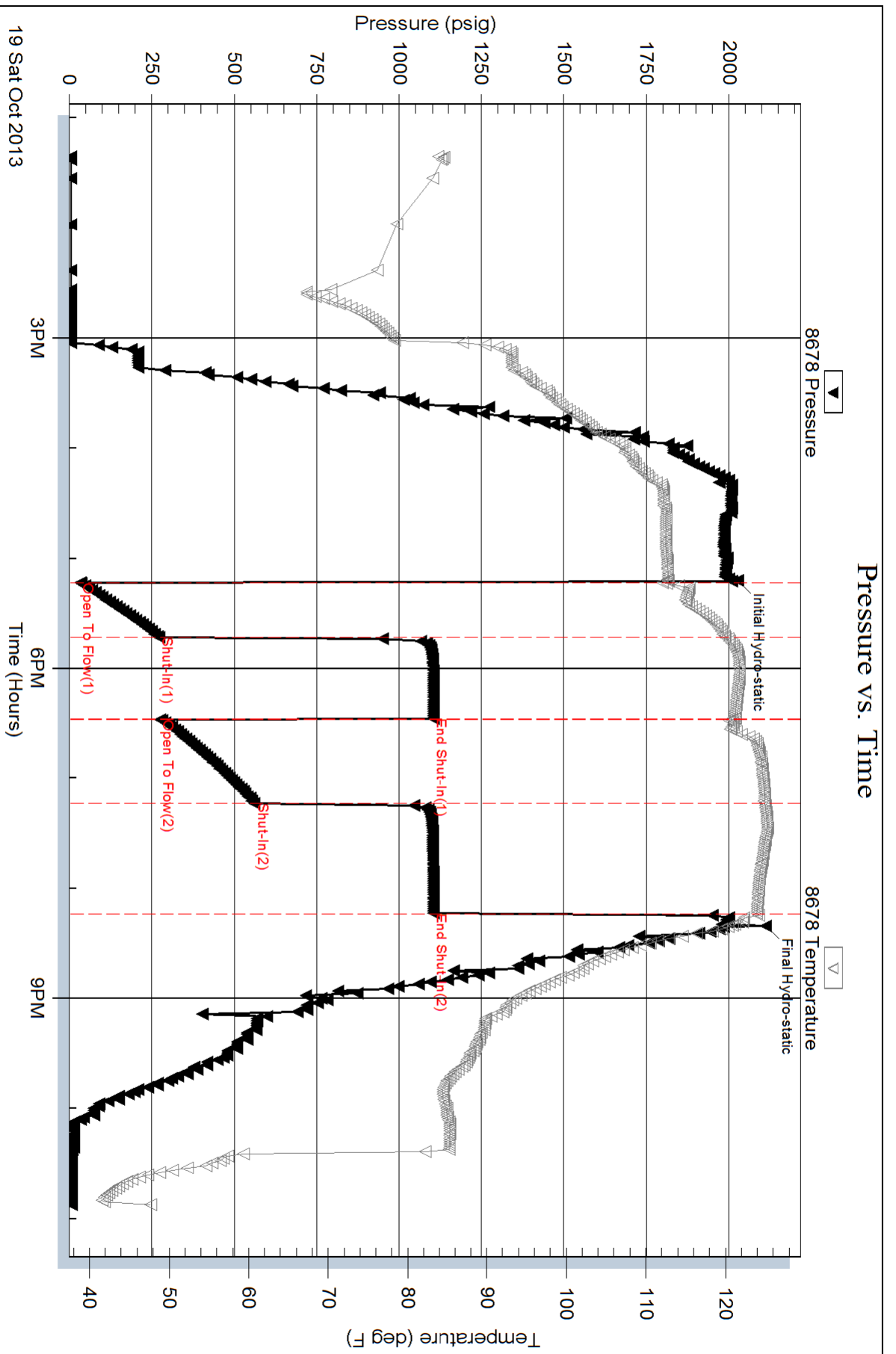
Num Gas Bombs: 0

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

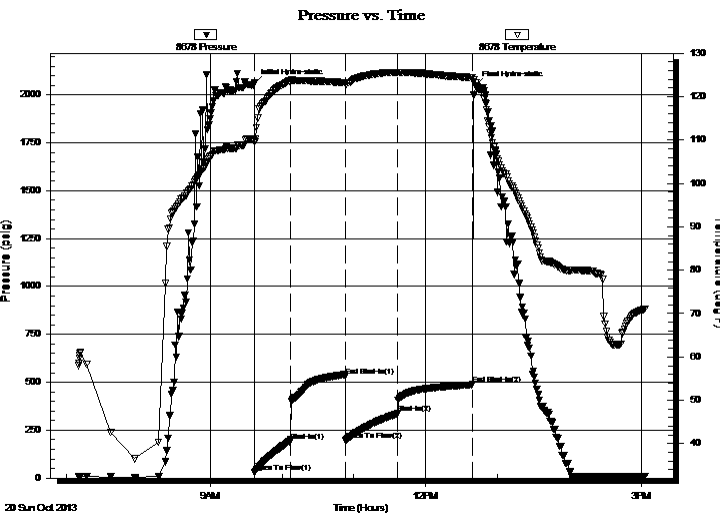
GENERAL INFORMATION:

Formation: **Lansing J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:37:15 Tester: Tim Phillips
 Time Test Ended: 15:03:30 Unit No: 69
 Interval: **4185.00 ft (KB) To 4220.00 ft (KB) (TVD)** Reference Elevations: 2784.00 ft (KB)
 Total Depth: 4220.00 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 @ 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)



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P.O. Box 6149
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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 in³

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
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

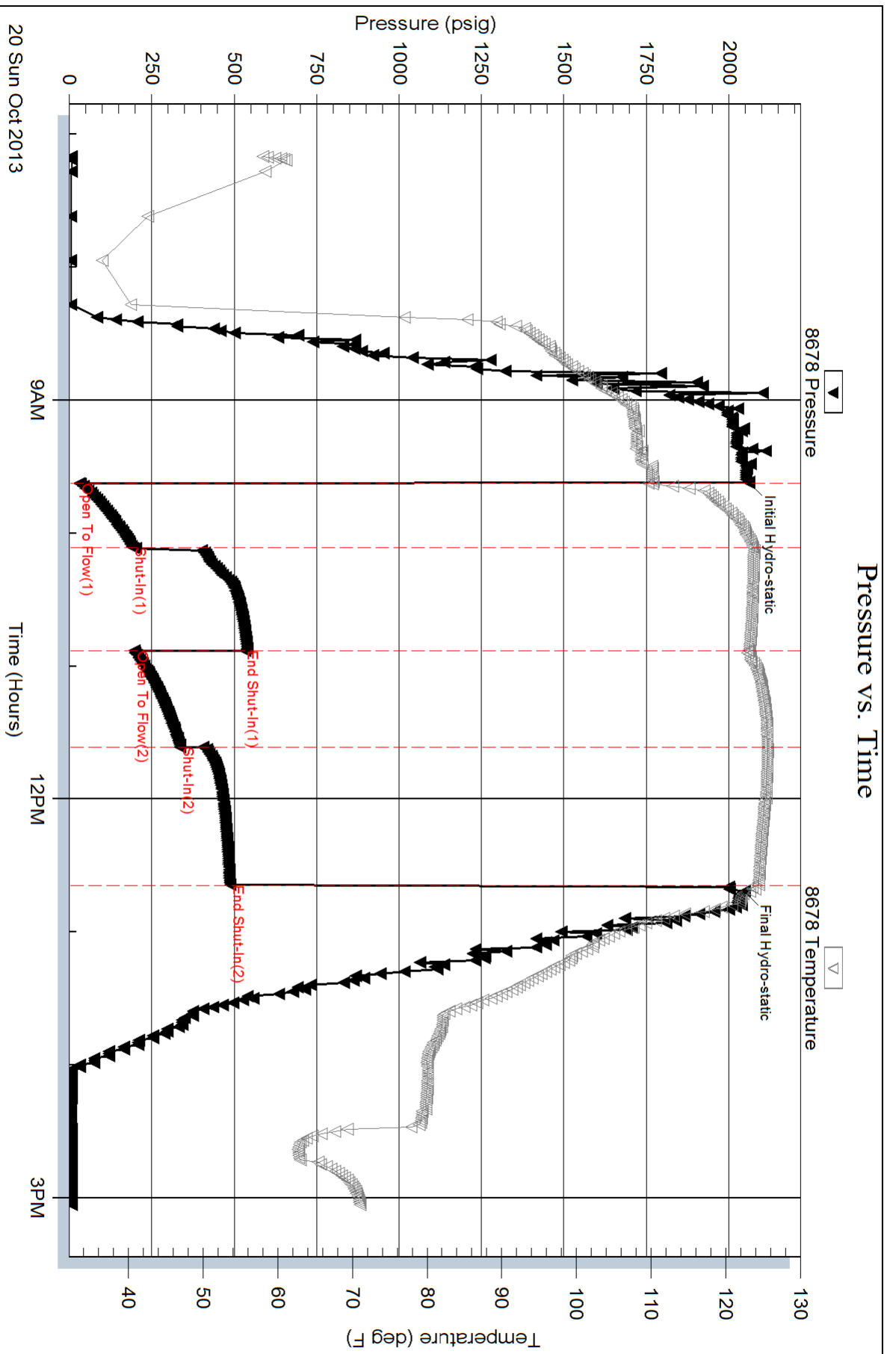
Num Gas Bombs: 0

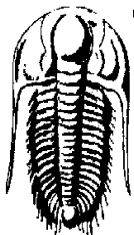
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

O'Brien Resources LLC

36-17S-29W

P.O. Box 6149
Shreveport, LA 71136

Boomhower 36 #3

Job Ticket: 55523

DST#: 3

ATTN: Kurt

Test Start: 2013.10.20 @ 23:35:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:46:45

Time Test Ended: 10:59:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

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

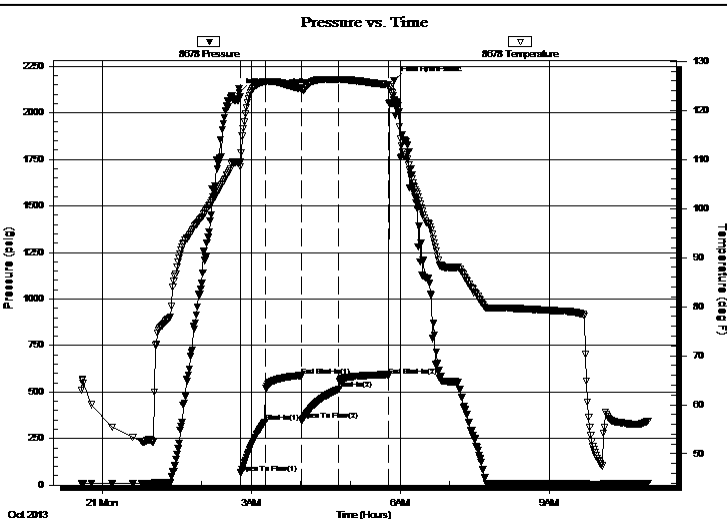
End Time:

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

Gas Rates

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

* Recovery from multiple tests



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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 ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

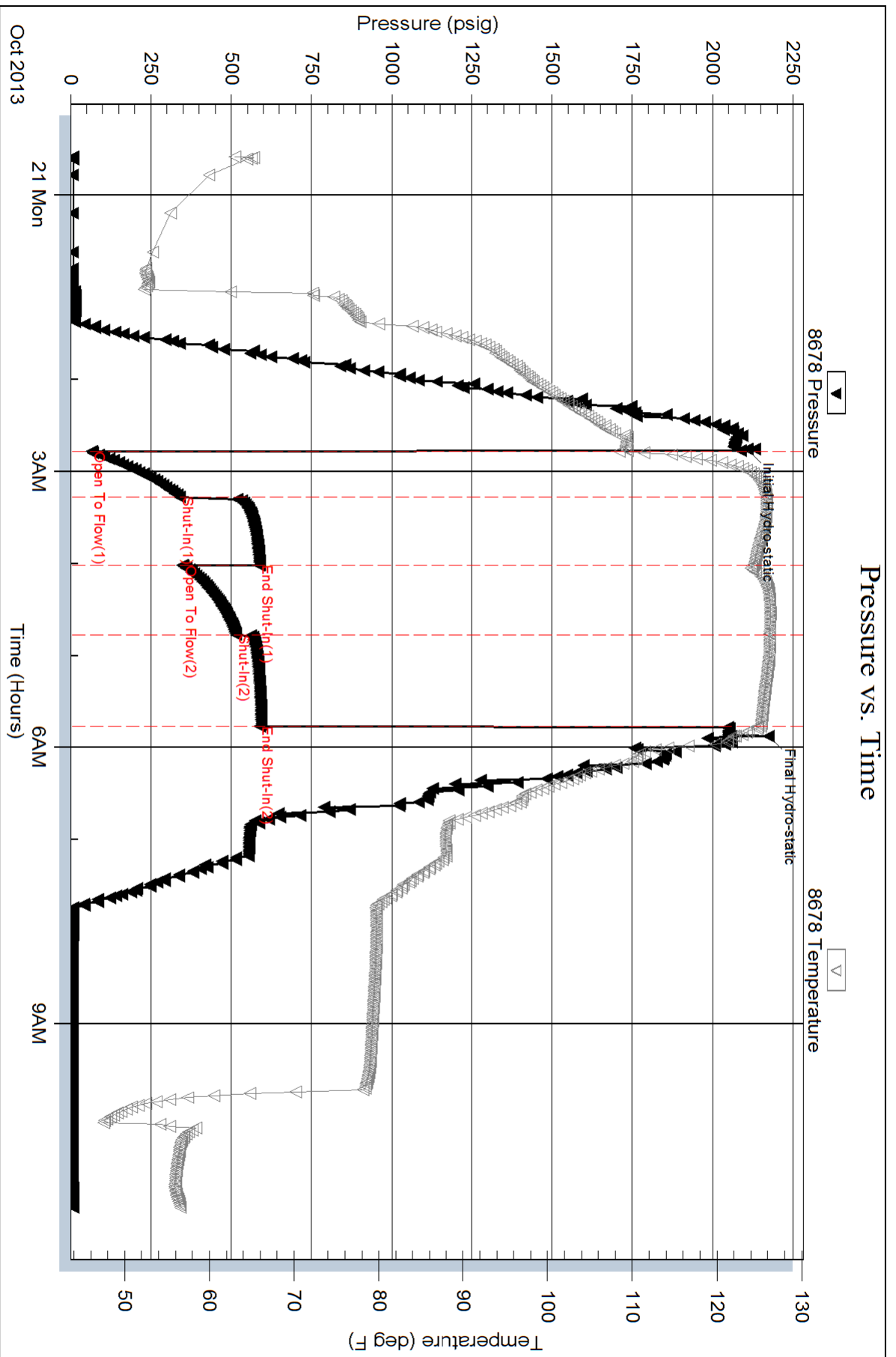
Length ft	Description	Volume bbl
580.00	GMCOV 5%M, 25%O, 30%G, 40%W	8.136
625.00	MCWO 10%M, 30%W, 60%O	8.767
0.00	GIP 1240 ft	0.000

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





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DRILL STEM TEST REPORT

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

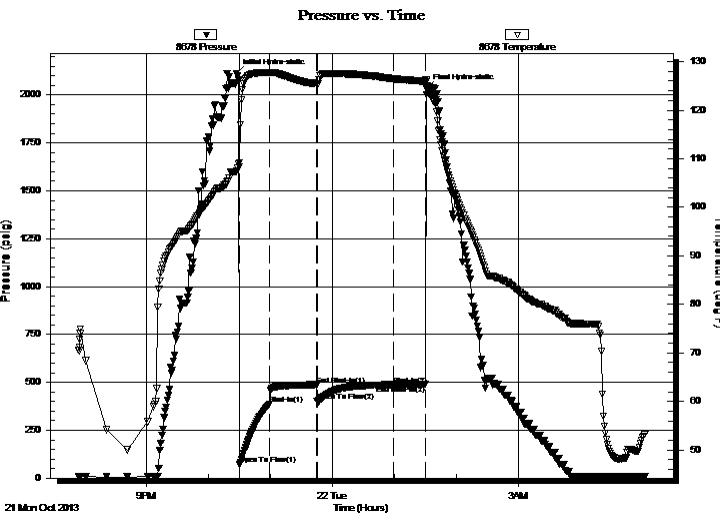
GENERAL INFORMATION:

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

* Recovery from multiple tests

Gas Rates

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



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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 ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

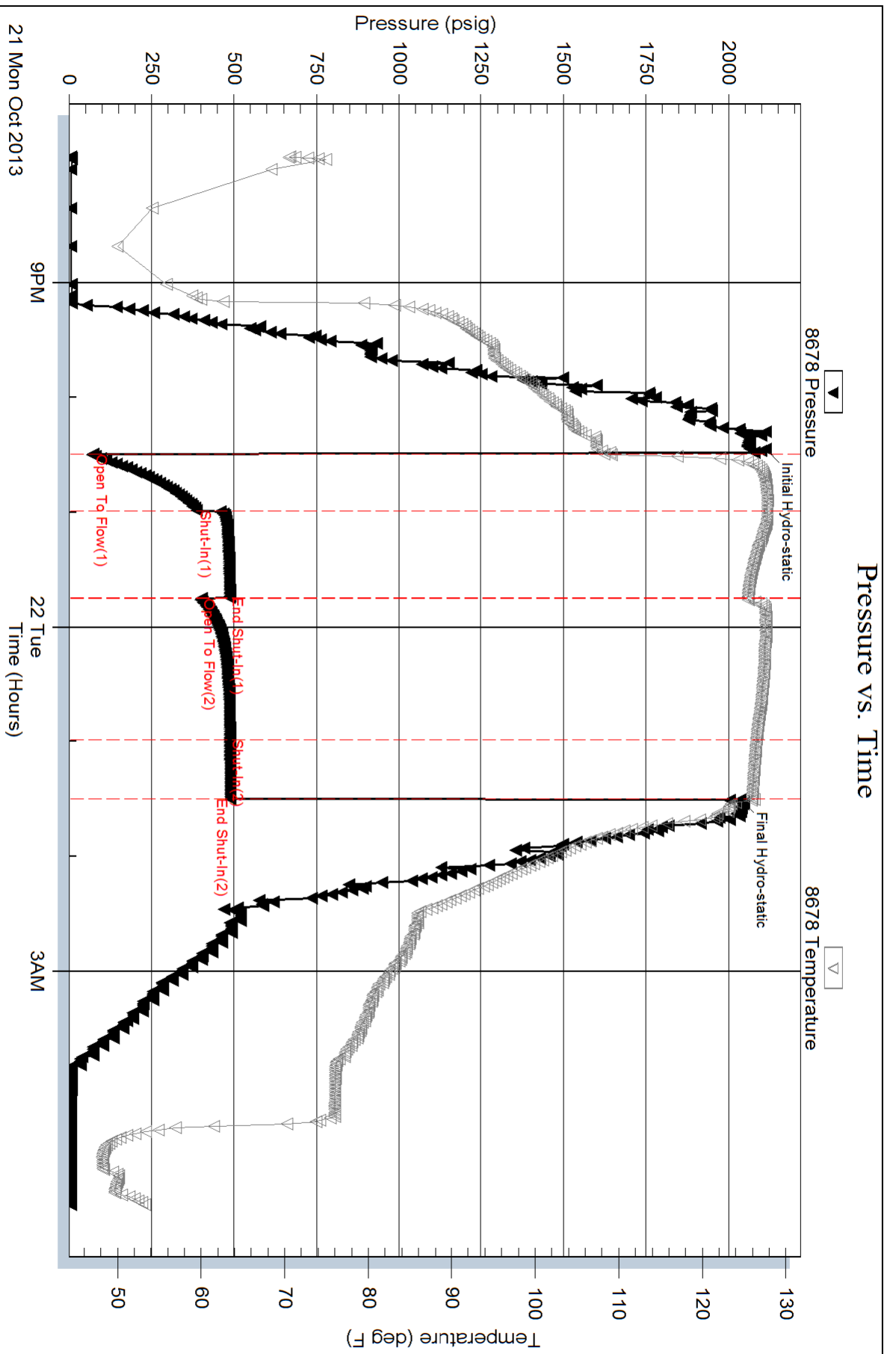
Length ft	Description	Volume bbl
1000.00	SOMCW 5%O, 5%M, 90%W	14.027
0.00	GIP 20 ft	0.000

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





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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

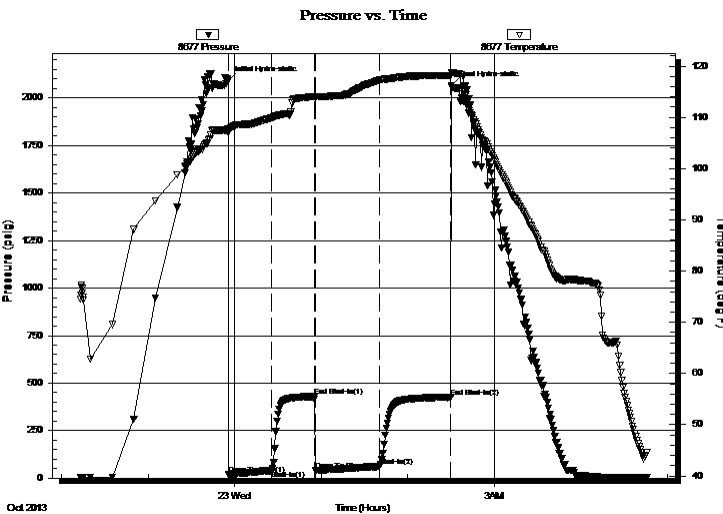
Capacity: 8000.00 psig

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

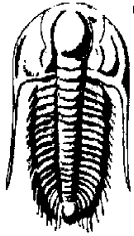
Recovery

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



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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 in³

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

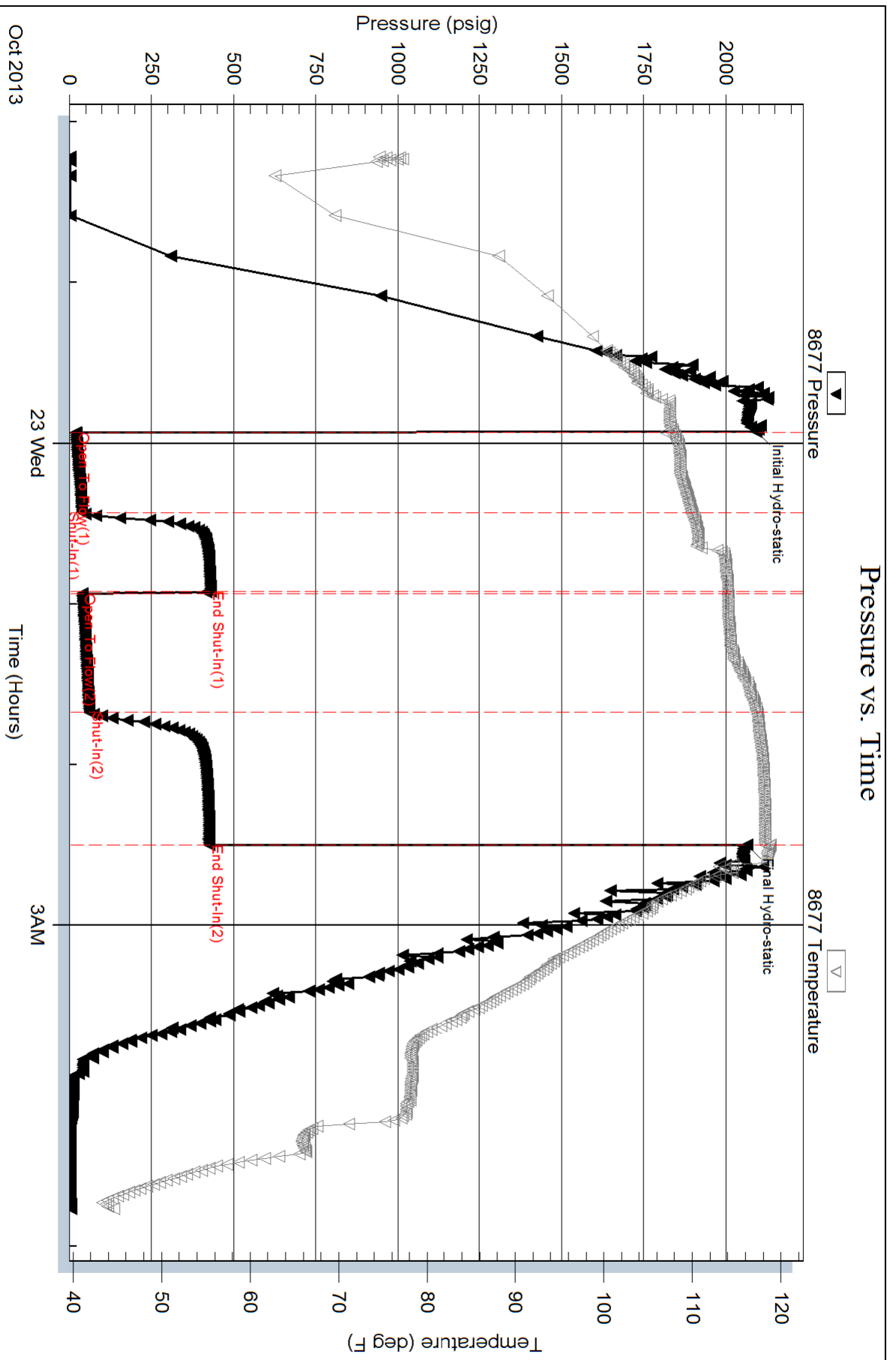
Num Gas Bombs: 0

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

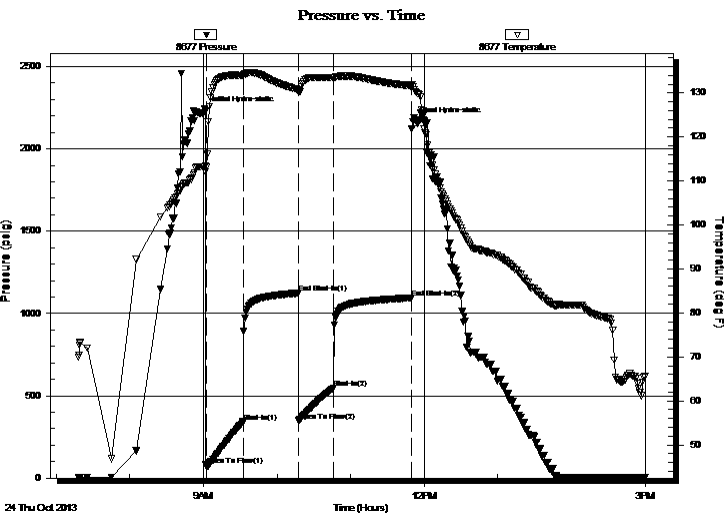
36-17S-29W Lane, Ks
Boomhower 36 #3
 Job Ticket: 55601 **DST#: 6**
 Test Start: 2013.10.24 @ 07:18:00

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)



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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 ³	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:

