



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
 250 N. Water STE 300
 Wichita KS, 67202 + 1216
 ATTN: Paul Gunzelman

3-14s-19w Russell
Orth E #9
 Job Ticket: 44663 **DST#: 1**
 Test Start: 2011.11.05 @ 07:40:00

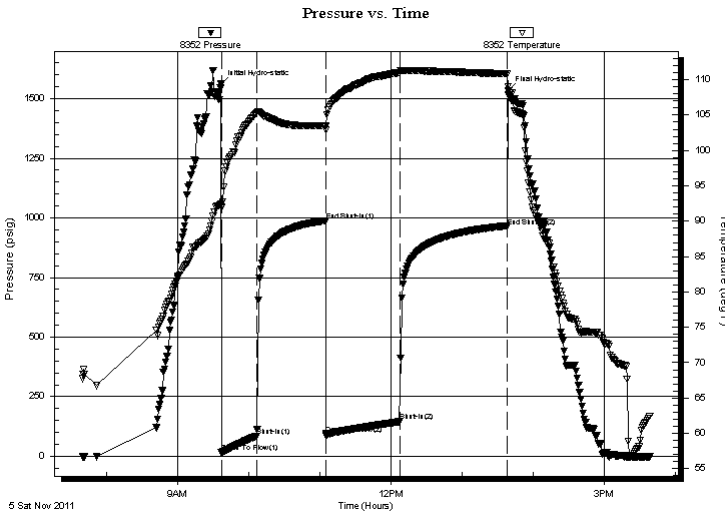
GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:37:00
 Time Test Ended: 15:39:00
 Interval: **3210.00 ft (KB) To 3223.00 ft (KB) (TVD)**
 Total Depth: 3223.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 2184.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 4.00 ft

Serial #: 8352 Inside
 Press @ Run Depth: 145.70 psig @ 3211.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.05 End Date: 2011.11.05 Last Calib.: 2011.11.05
 Start Time: 07:40:05 End Time: 15:38:59 Time On Btm: 2011.11.05 @ 09:36:50
 Time Off Btm: 2011.11.05 @ 13:38:39

TEST COMMENT: 30 - IF- 7" blow
 60 - IS- Weak surface blow , died in 23 Min.
 60 - FF- B.O.B. in 49 Min.
 90 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.05	92.45	Initial Hydro-static
1	15.45	91.88	Open To Flow (1)
31	85.38	105.35	Shut-In(1)
88	988.78	103.49	End Shut-In(1)
89	94.10	102.88	Open To Flow (2)
151	145.70	111.05	Shut-In(2)
242	961.99	110.83	End Shut-In(2)
242	1534.39	108.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	10%M, 90%W	0.91
93.00	20%M, 80%W	1.30

Gas Rates

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



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FLUID SUMMARY

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ATTN: Paul Gunzelman

3-14s-19w Russell
Orth E #9
Job Ticket: 44663 **DST#: 1**
Test Start: 2011.11.05 @ 07:40:00

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: 88.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	10%M, 90%W	0.915
93.00	20%M, 80%W	1.305

Total Length: 279.00 ft Total Volume: 2.220 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: .44 @ 55 Degrees = 19000

Serial #: 8352

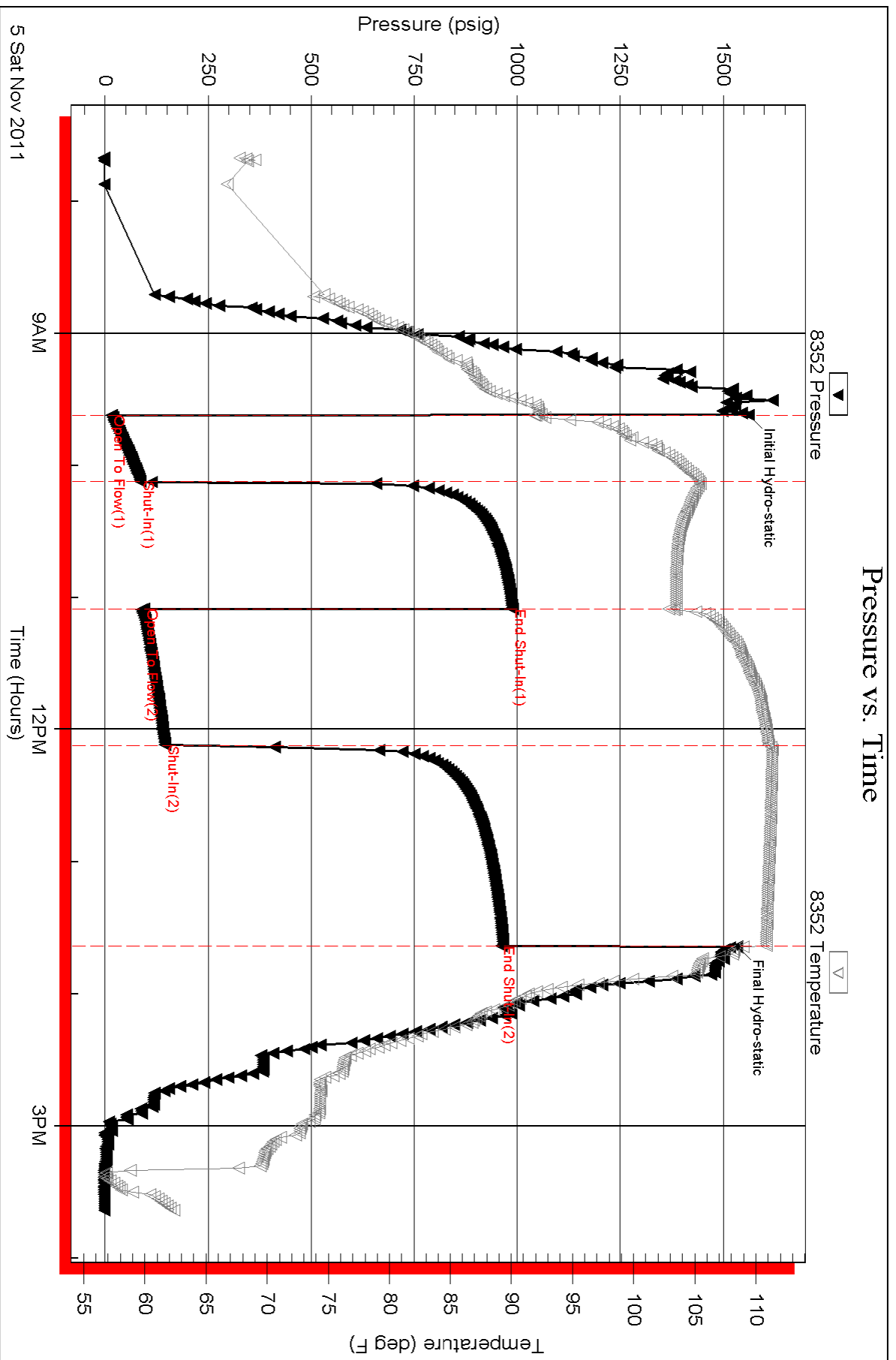
Inside

Murfin Drilling Co. Inc.

Orth E #9

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

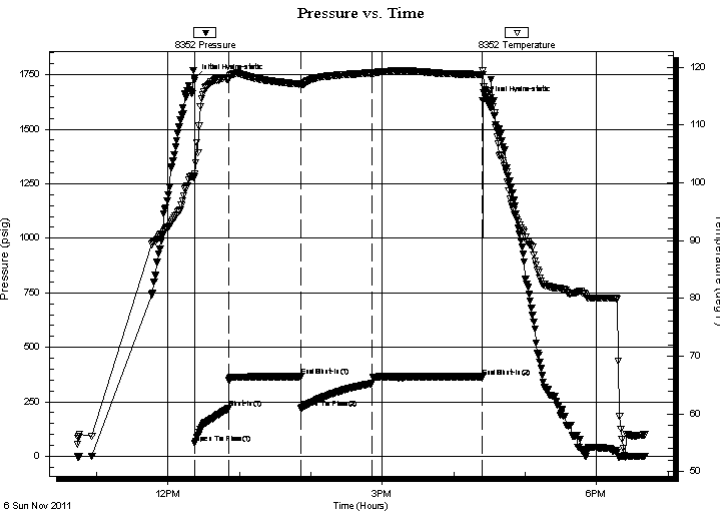
3-14s-19w Russell
Orth E #9
Job Ticket: 44664 **DST#: 2**
Test Start: 2011.11.06 @ 10:44:00

GENERAL INFORMATION:

Formation: **Toronto, LKC A-B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 12:22:30
 Tester: Cody Bloedorn
 Time Test Ended: 18:40:50
 Unit No: 38
 Interval: **3431.00 ft (KB) To 3513.00 ft (KB) (TVD)**
 Reference Elevations: 2184.00 ft (KB)
 Total Depth: 3513.00 ft (KB) (TVD) 2180.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 4.00 ft

Serial #: 8352 Inside
 Press @ Run Depth: 334.22 psig @ 3501.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.06 End Date: 2011.11.06 Last Calib.: 2011.11.06
 Start Time: 10:44:05 End Time: 18:40:50 Time On Btm: 2011.11.06 @ 12:22:20
 Time Off Btm: 2011.11.06 @ 16:24:09

TEST COMMENT: 30 - IF- B.O.B. in 9 Min
 60 - IS- Surface blow, died in 12 Min.
 60 - FF- B.O.B. in 14 Min.
 90 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.21	101.55	Initial Hydro-static
1	58.14	101.07	Open To Flow (1)
29	219.22	117.89	Shut-In(1)
89	365.82	117.06	End Shut-In(1)
90	221.99	117.00	Open To Flow (2)
149	334.22	118.98	Shut-In(2)
242	365.36	118.73	End Shut-In(2)
242	1629.88	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, Oil scum, 40%W, 60%M	0.30
434.00	MW, Oil scum, 10%M, 90%W	4.96
107.00	WM, Oil scum, 10%W, 90%M	1.50
0.00	****Show of gas in all stands****	0.00

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc,
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ATTN: Paul Gunzelman

3-14s-19w Russell
Orth E #9
Job Ticket: 44664 **DST#: 2**
Test Start: 2011.11.06 @ 10:44:00

Mud and Cushion Information

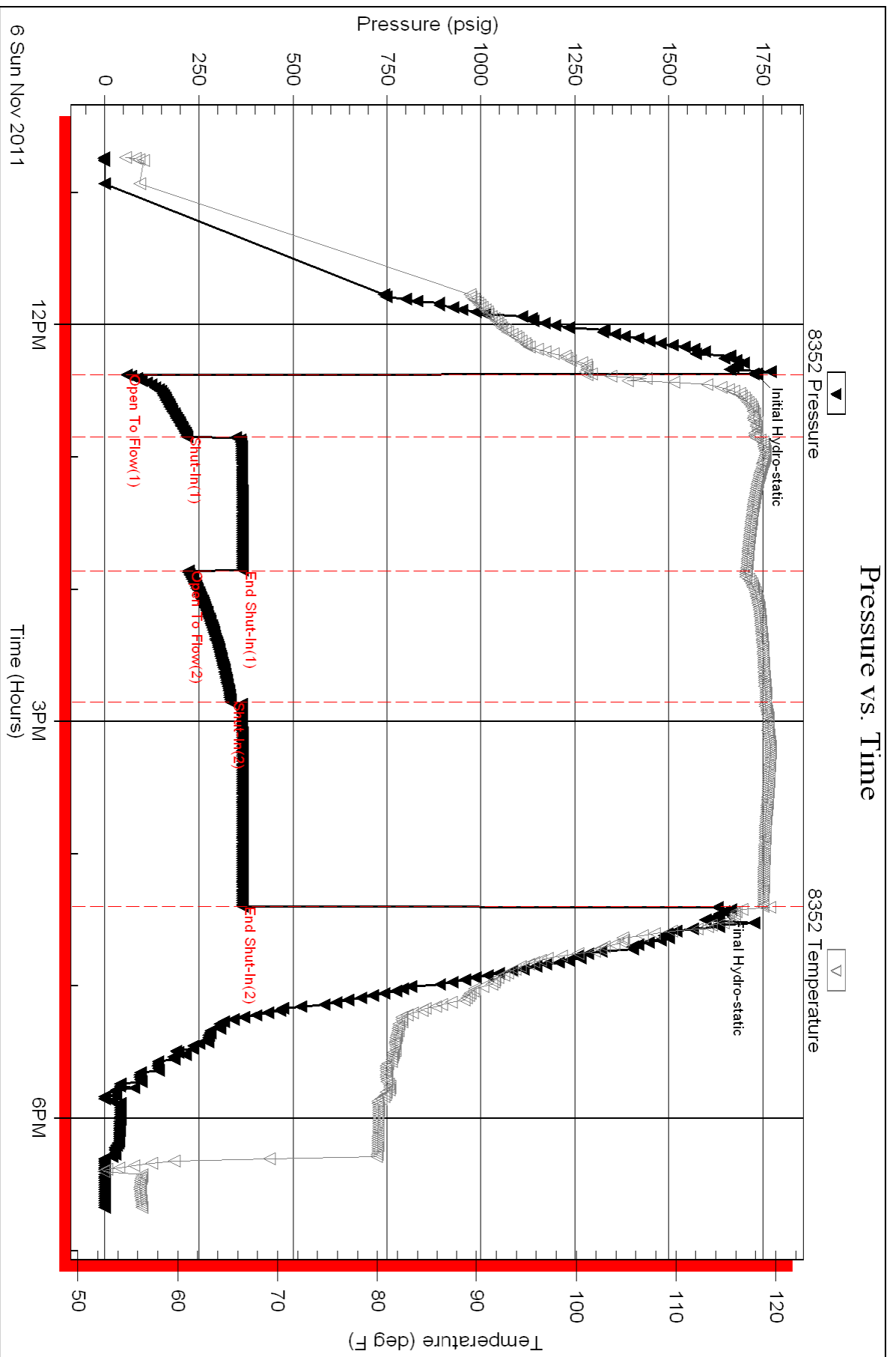
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	16000 ppm
Viscosity: 88.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	WM, Oil scum, 40%W, 60%M	0.305
434.00	MW, Oil scum, 10%M, 90%W	4.958
107.00	WM, Oil scum, 10%W, 90%M	1.501
0.00	****Show of gas in all stands****	0.000

Total Length: 603.00 ft Total Volume: 6.764 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: .65 @ 55 Degrees = 16000





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DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44665 **DST#: 3**
Test Start: 2011.11.07 @ 01:54:00

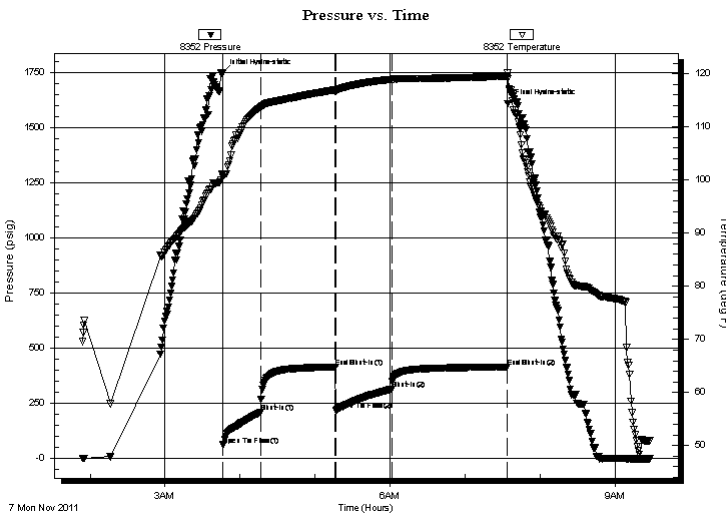
GENERAL INFORMATION:

Formation: **LKC "D-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:46:20
Time Test Ended: 09:27:50
Interval: **3512.00 ft (KB) To 3573.00 ft (KB) (TVD)**
Total Depth: 3573.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 39
Reference Elevations: 2184.00 ft (KB)
2180.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 8352 Inside
Press @ Run Depth: 315.06 psig @ 3551.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.07 End Date: 2011.11.07 Last Calib.: 2011.11.07
Start Time: 01:54:05 End Time: 09:27:50 Time On Btm: 2011.11.07 @ 03:46:10
Time Off Btm: 2011.11.07 @ 07:34:09

TEST COMMENT: 30 - IF- B.O.B. in 5 Min.
60 - IS- No blow back
45 - FF- B.O.B. in 11 Min
90 - FS- No blo back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.70	101.22	Initial Hydro-static
1	61.85	100.51	Open To Flow (1)
31	209.87	113.71	Shut-In(1)
90	415.30	116.96	End Shut-In(1)
91	218.47	116.88	Open To Flow (2)
136	315.06	118.94	Shut-In(2)
228	414.99	119.49	End Shut-In(2)
228	1610.92	120.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GV SOCM, 5%G, 5%O, 90%M	0.30
434.00	GWM, 10%G, 40%W, 50%M	4.96
93.00	WM, 20%W, 80%M	1.30

* Recovery from multiple tests

Gas Rates

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



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250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44665 **DST#: 3**
Test Start: 2011.11.07 @ 01:54:00

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:	62000 ppm
Viscosity: 88.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GVSOCM, 5%G, 5%O, 90%M	0.305
434.00	GWM, 10%G, 40%W, 50%M	4.958
93.00	WM, 20%W, 80%M	1.305

Total Length: 589.00 ft Total Volume: 6.568 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: .2 @ 57 Degrees = 62000

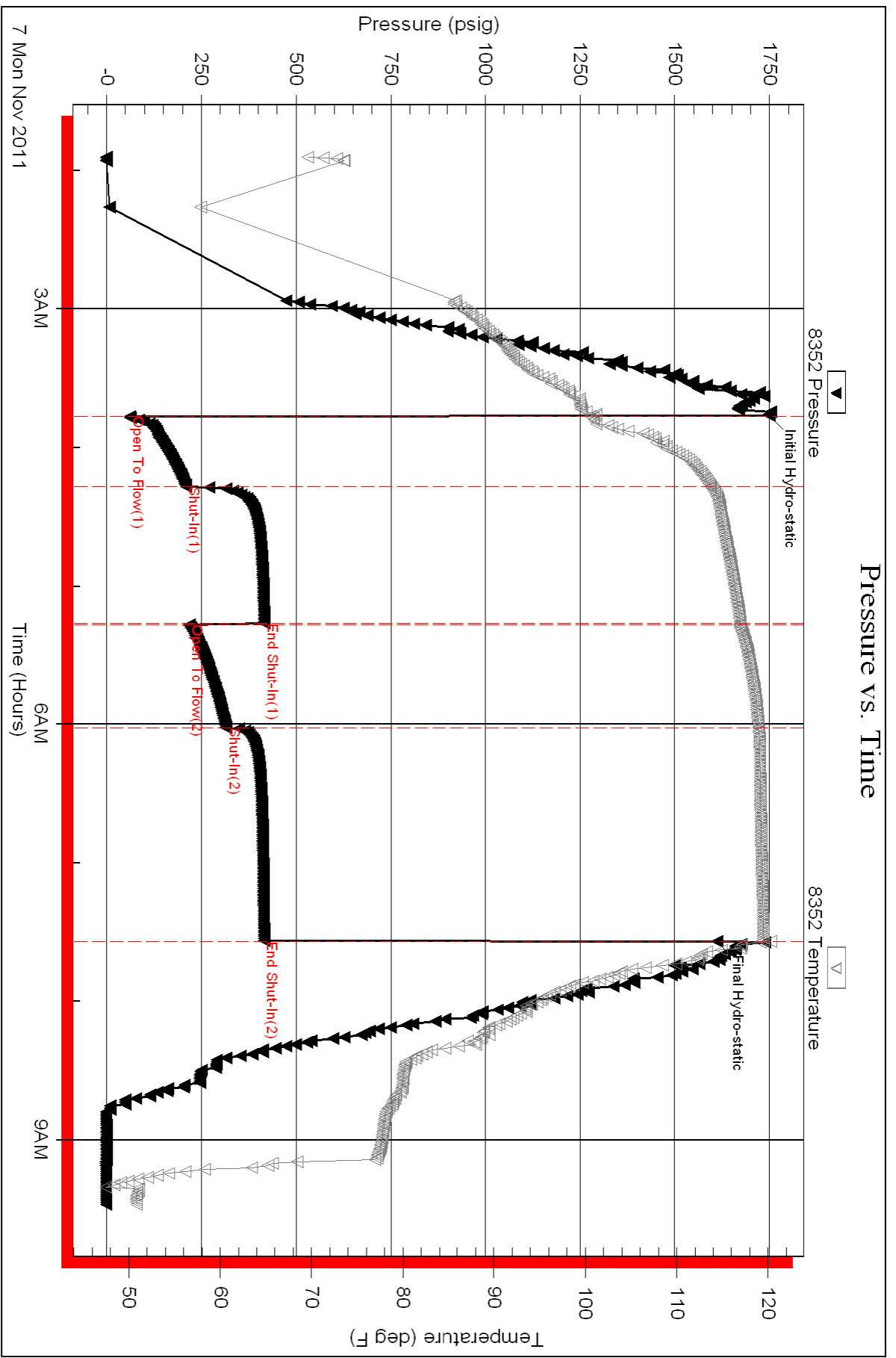
Serial #: 8352

Inside

Murfin Drilling Co. Inc.

Orth E #9

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 44665

Printed: 2011.11.07 @ 11:11:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
 250 N. Water STE 300
 Wichita KS, 67202 + 1216
 ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
 Job Ticket: 44666 **DST#: 4**
 Test Start: 2011.11.07 @ 21:01:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:49:20
 Time Test Ended: 05:13:09
 Interval: **3596.00 ft (KB) To 3662.00 ft (KB) (TVD)**
 Total Depth: 3662.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 2184.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 4.00 ft

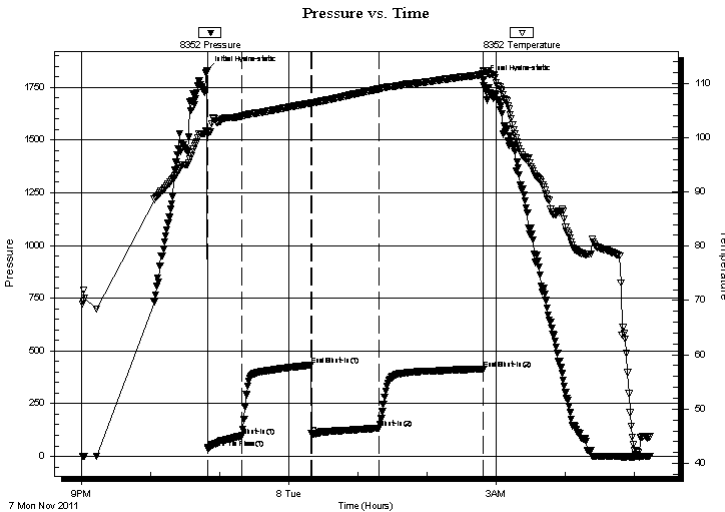
Serial #: 8352

Inside

Press @ Run Depth: 133.23 psig @ 3635.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.07 End Date: 2011.11.08 Last Calib.: 2011.11.08
 Start Time: 21:01:05 End Time: 05:13:10 Time On Btm: 2011.11.07 @ 22:49:10
 Time Off Btm: 2011.11.08 @ 02:48:50

TEST COMMENT: 30 - IF- 6 1/2" Blow
 60 - IS- No blow back
 60 - FF- B.O.B. in 55 Min
 90 - FS- Surface blow throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.24	101.30	Initial Hydro-static
1	36.73	100.51	Open To Flow (1)
30	97.04	103.92	Shut-In(1)
91	433.00	106.35	End Shut-In(1)
91	107.03	106.14	Open To Flow (2)
150	133.23	108.95	Shut-In(2)
240	411.62	111.66	End Shut-In(2)
240	1786.63	112.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
169.00	GV SOCWM, 5%G, 5%O, 20%W, 70%M	0.83
62.00	GHOCM, 10%G, 40%M, 50%O	0.71
0.00	124' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Murfin Drilling Co. Inc,
250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44666 **DST#: 4**
Test Start: 2011.11.07 @ 21:01:00

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:	64000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
169.00	GVSOCWM, 5%G, 5%O, 20%W, 70%M	0.831
62.00	GHOCM, 10%G, 40%M, 50%O	0.715
0.00	124' of G.I.P.	0.000

Total Length: 231.00 ft Total Volume: 1.546 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity = 64000

Serial #: 8352

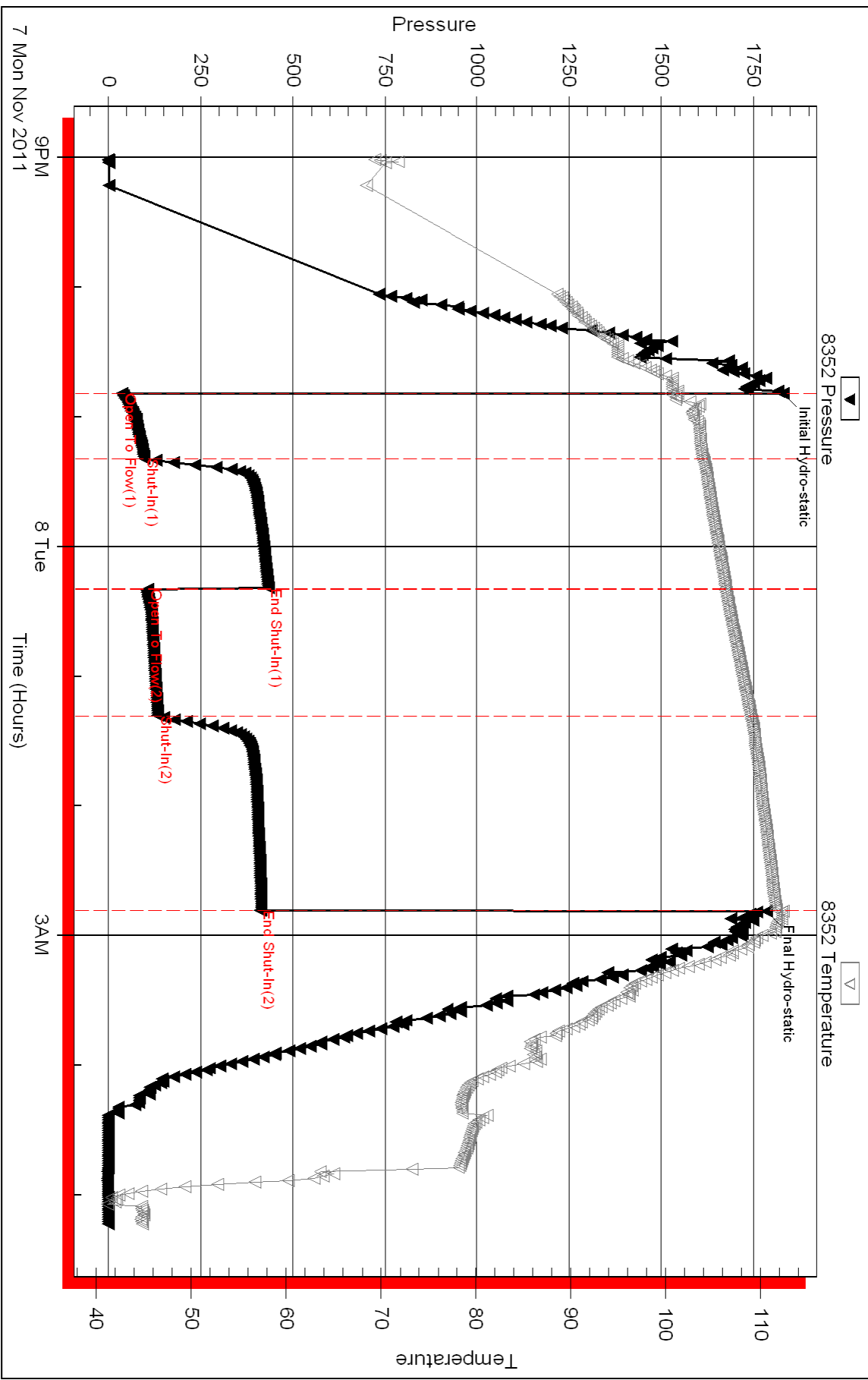
Inside

Murfin Drilling Co. Inc.

Orth E #9

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44666

Printed: 2011.11.09 @ 08:21:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
 250 N. Water STE 300
 Wichita KS, 67202 + 1216
 ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
 Job Ticket: 44667 **DST#: 5**
 Test Start: 2011.11.08 @ 11:43:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:41:00
 Time Test Ended: 19:45:00
 Interval: **3660.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 39
 Reference Elevations: 2184.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 4.00 ft

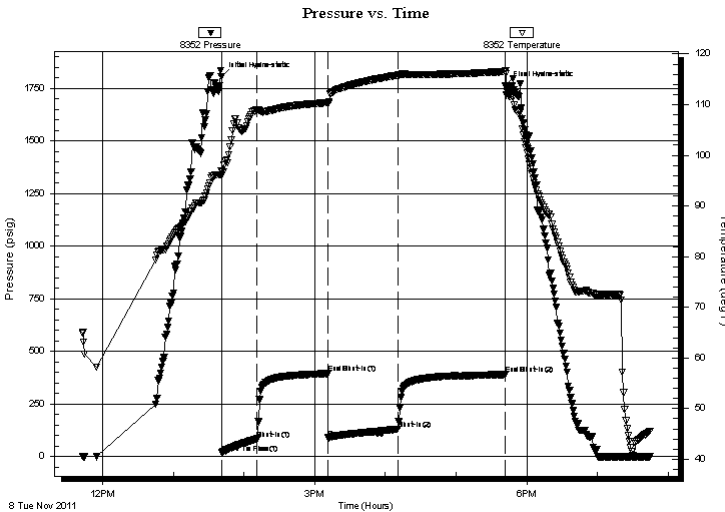
Serial #: 8352

Inside

Press @ Run Depth: 129.46 psig @ 3661.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.08 End Date: 2011.11.08 Last Calib.: 2011.11.08
 Start Time: 11:43:05 End Time: 19:44:59 Time On Btm: 2011.11.08 @ 13:40:50
 Time Off Btm: 2011.11.08 @ 17:42:00

TEST COMMENT: 30 - IF- 7" Blow
 60 - IS- Surface blow , died in 23 Min.
 60 - FF- 5" blow
 90 - FS- Surface blow , died in 72 Min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.27	96.81	Initial Hydro-static
1	16.77	96.07	Open To Flow (1)
31	83.38	108.95	Shut-In(1)
91	393.90	110.38	End Shut-In(1)
91	88.75	110.21	Open To Flow (2)
150	129.46	115.77	Shut-In(2)
241	389.57	116.50	End Shut-In(2)
242	1762.39	116.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, Oil scum, 30%M, 70%W	0.30
186.00	GVSOCMW, 5%G, 5%O, 20%M, 70%W	1.48
31.00	GO, 20%G, 80%O	0.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

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ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44667 **DST#: 5**
Test Start: 2011.11.08 @ 11:43:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 68000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 9800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW, Oil scum, 30%M, 70%W	0.305
186.00	GVSOCMW, 5%G, 5%O, 20%M, 70%W	1.480
31.00	GO, 20%G, 80%O	0.435

Total Length: 279.00 ft Total Volume: 2.220 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Salinity: 68000 Gravity: 31

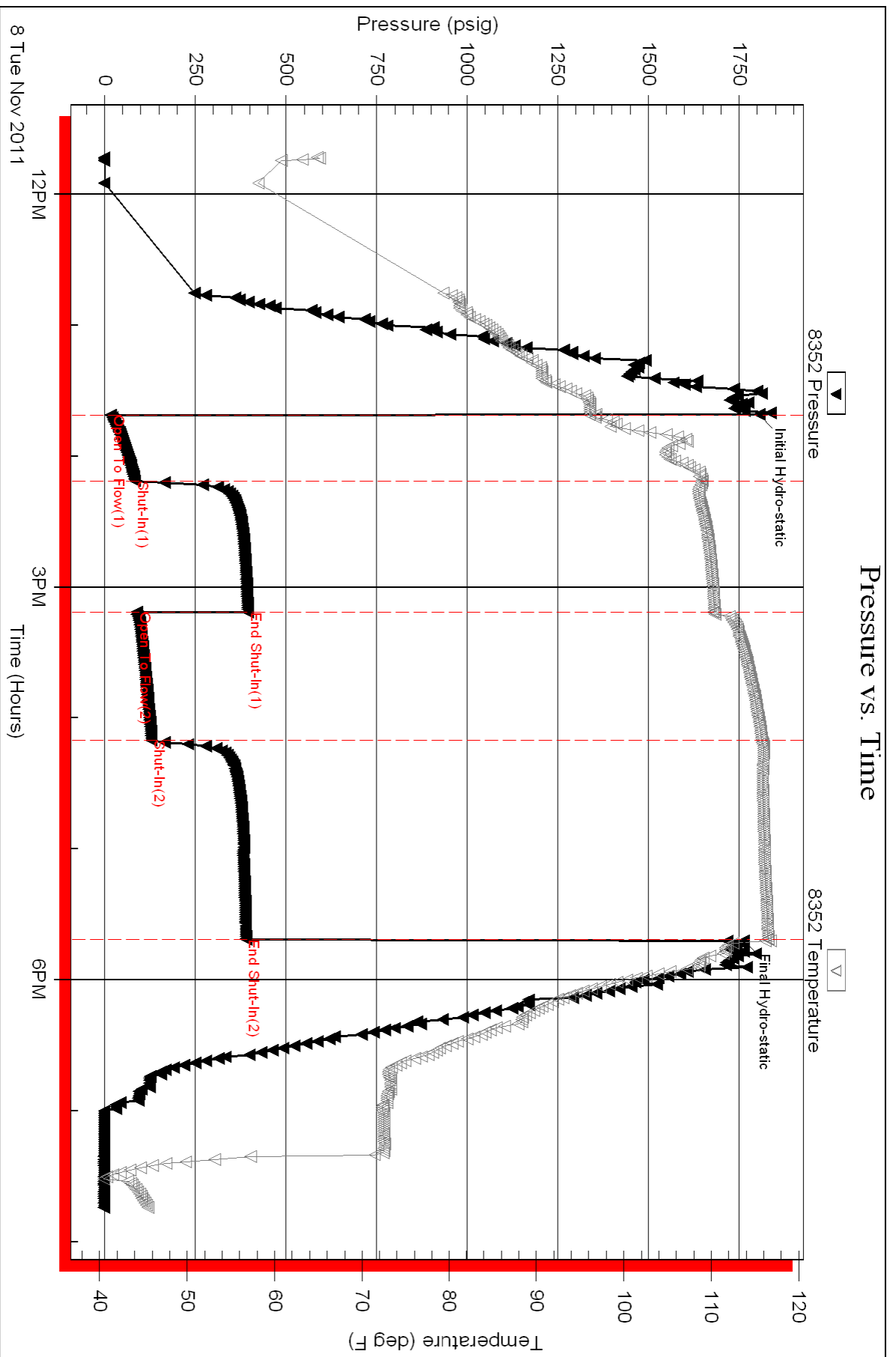
Serial #: 8352

Inside

Murfin Drilling Co. Inc.

Orth E #9

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 44667

Printed: 2011.11.09 @ 08:19:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,
250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44269 **DST#: 6**
Test Start: 2011.11.09 @ 08:53:05

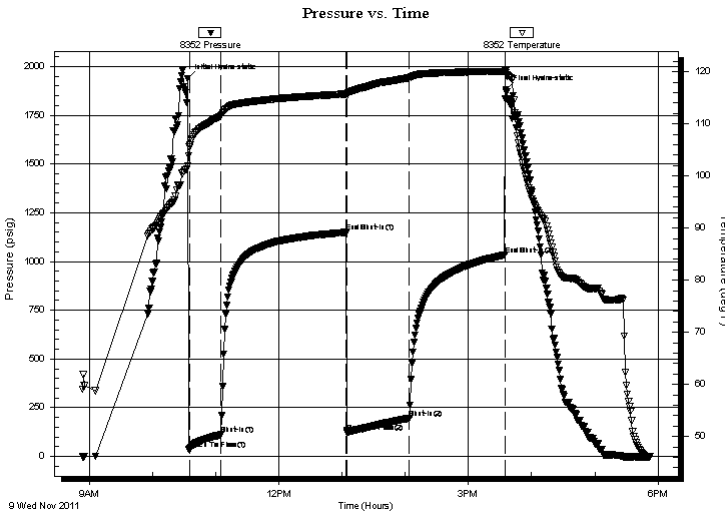
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:34:30
Time Test Ended: 17:52:30
Interval: **3820.00 ft (KB) To 3833.00 ft (KB) (TVD)**
Total Depth: 3833.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2184.00 ft (KB)
2180.00 ft (CF)
KB to GR/CF: 4.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 39

Serial #: 8352 Inside
Press @ Run Depth: 196.36 psig @ 3821.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.11.09 End Date: 2011.11.09 Last Calib.: 2011.11.09
Start Time: 08:53:05 End Time: 17:52:30 Time On Btm: 2011.11.09 @ 10:33:10
Time Off Btm: 2011.11.09 @ 15:35:39

TEST COMMENT: IF:(30min) BOB, 12 min
IS:(120min) Intermittent Surface Blow throughout shut in
FF:(60min) BOB, 21 min
FS:(90min) Half inch return blow throughout shut in

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.59	101.85	Initial Hydro-static
2	35.47	105.50	Open To Flow (1)
32	111.70	111.50	Shut-In(1)
151	1149.32	115.72	End Shut-In(1)
152	125.90	115.77	Open To Flow (2)
211	196.36	118.81	Shut-In(2)
302	1033.35	120.03	End Shut-In(2)
303	1880.28	119.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM g=10% o=30% m=60%	0.30
60.00	GMCO g=10% m=40% o=50%	0.30
375.00	CGO g=20% o=80%	4.66
5.00	GMCO g=40% m=10% o=50%	0.07
0.00	GIP= 180ft	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44269 **DST#: 6**
Test Start: 2011.11.09 @ 08:53:05

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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9400.00 ppm			
Filter Cake: inches			

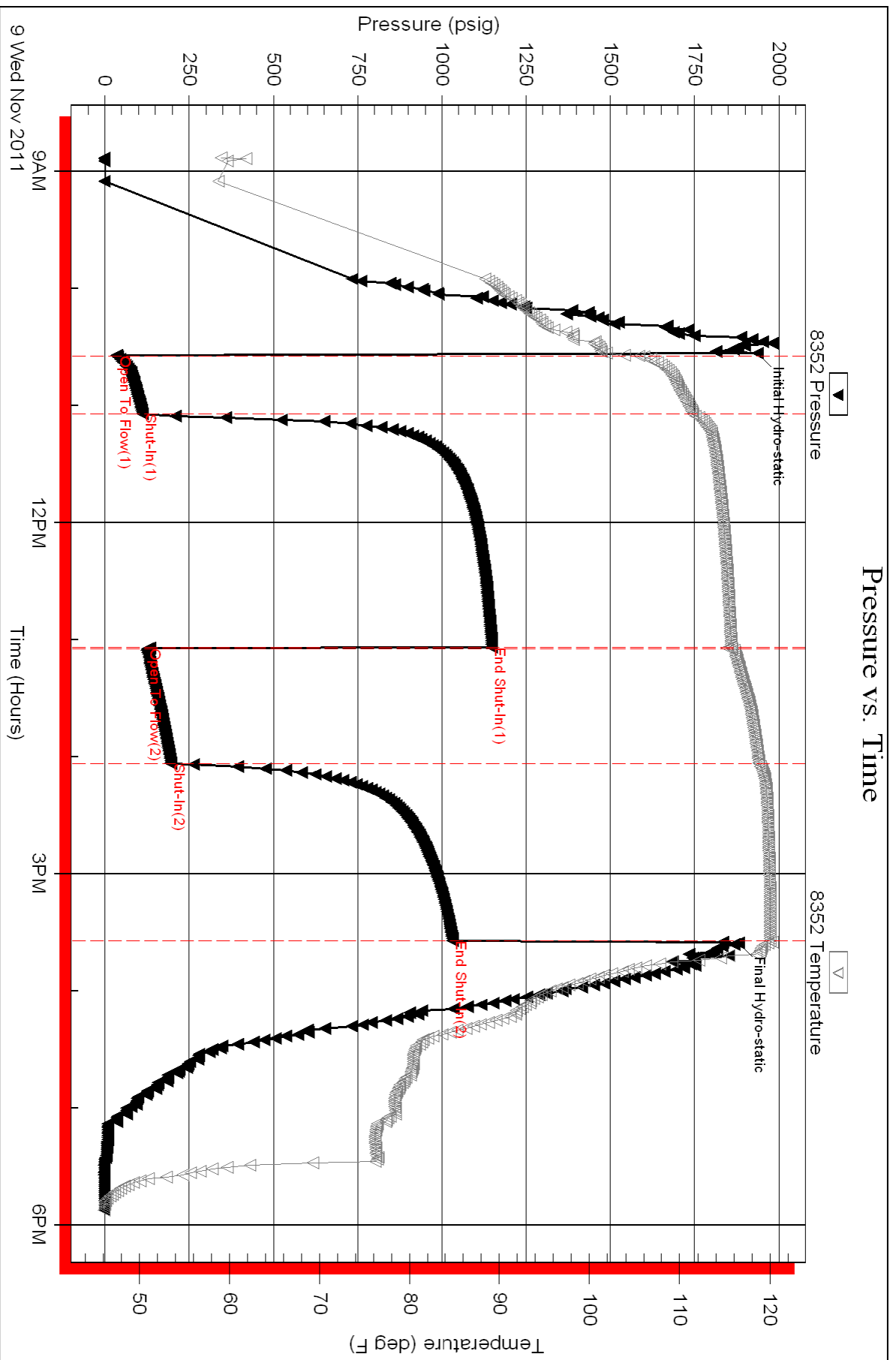
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM g=10% o=30% m=60%	0.295
60.00	GMCO g=10% m=40% o=50%	0.295
375.00	CGO g=20% o=80%	4.659
5.00	GMCO g=40% m=10% o=50%	0.070
0.00	GIP= 180ft	0.000

Total Length: 500.00 ft Total Volume: 5.319 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

Murfin Drilling Co. Inc,
 250 N. Water STE 300
 Wichita KS, 67202 + 1216
 ATTN: Paul Gunzelman

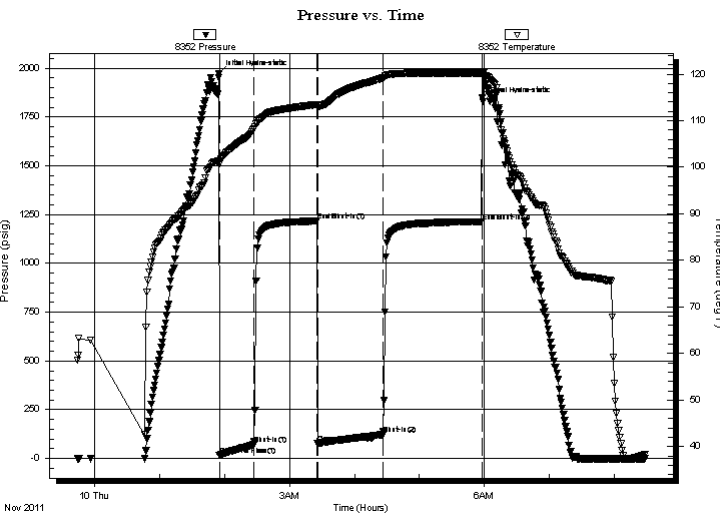
3-14s-19w Ellis
Orth E #9
 Job Ticket: 44270 **DST#: 7**
 Test Start: 2011.11.09 @ 23:44:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:55:00 Tester: Andy Carreira
 Time Test Ended: 08:28:50 Unit No: 39
 Interval: **3833.00 ft (KB) To 3843.00 ft (KB) (TVD)** Reference Elevations: 2184.00 ft (KB)
 Total Depth: 3843.00 ft (KB) (TVD) 2180.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 4.00 ft

Serial #: 8352 Inside
 Press @ Run Depth: 122.05 psig @ 3834.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.09 End Date: 2011.11.10 Last Calib.: 2011.11.10
 Start Time: 23:44:05 End Time: 08:28:50 Time On Btm: 2011.11.10 @ 01:54:30
 Time Off Btm: 2011.11.10 @ 05:58:39

TEST COMMENT: IF:(30min) Slow build to 7 inches
 IS:(60min) No Return
 FF:(60min) Built to 8 inches
 FS:(90min) 1/4 inch blow 25 min. into shut in. Blew throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.27	101.46	Initial Hydro-static
1	15.92	100.76	Open To Flow (1)
33	70.82	108.18	Shut-In(1)
91	1216.26	113.46	End Shut-In(1)
92	75.69	113.08	Open To Flow (2)
152	122.05	119.14	Shut-In(2)
243	1213.39	120.24	End Shut-In(2)
245	1827.05	120.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCWM g=5% o=5% w=40% m=50%	0.30
60.00	GOCMW g=10% o=5% m=15% w=70%	0.30
125.00	GCO g=20% o=80%	1.15
5.00	GMCO g=30% m=20% o=50%	0.07
0.00	GIP= 60ft	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

Murfin Drilling Co. Inc,
250 N. Water STE 300
Wichita KS, 67202 + 1216
ATTN: Paul Gunzelman

3-14s-19w Ellis
Orth E #9
Job Ticket: 44270 **DST#: 7**
Test Start: 2011.11.09 @ 23:44:05

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:	17000 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCWM g=5% o=5% w =40% m=50%	0.295
60.00	GOCMW g=10% o=5% m=15% w =70%	0.295
125.00	GCO g=20% o=80%	1.152
5.00	GMCO g=30% m=20% o=50%	0.070
0.00	GIP= 60ft	0.000

Total Length: 250.00 ft Total Volume: 1.812 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Resistivity- .66@ 40deg=17000

Serial #: 8352

Inside

Murfin Drilling Co. Inc.

Orth E #9

DST Test Number: 7

