



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

Stoecker 'G' #1-25

25/12s/33w Logan KS

Job Ticket: 34674

DST#: 1

Test Start: 2009.06.07 @ 15:34:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:21:30

Time Test Ended: 20:57:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 4182.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

3055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 28.16 psig @ 4183.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.06.07

End Date:

2009.06.07

Last Calib.:

2009.06.07

Start Time:

15:34:05

End Time:

20:56:59

Time On Btm:

2009.06.07 @ 17:19:30

Time Off Btm:

2009.06.07 @ 19:22:00

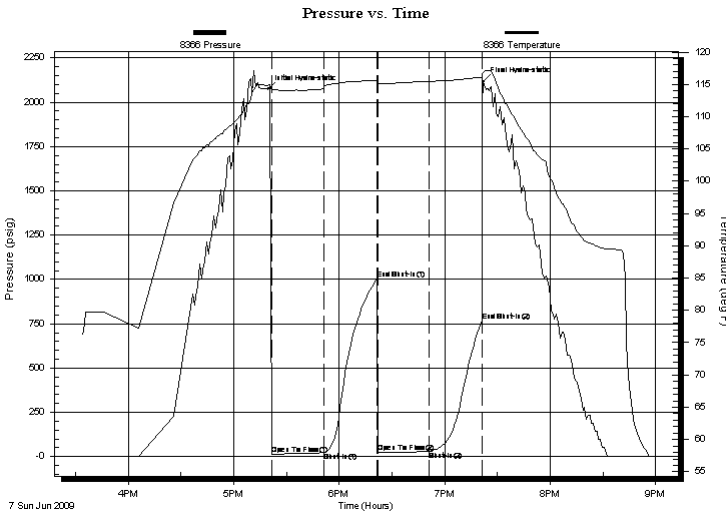
TEST COMMENT: IF: Weak surface blow, dead in 20 min.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.43	114.86	Initial Hydro-static
2	12.43	114.05	Open To Flow (1)
32	21.82	114.40	Shut-In(1)
62	1004.10	115.56	End Shut-In(1)
63	24.11	115.20	Open To Flow (2)
92	28.16	115.46	Shut-In(2)
122	764.70	116.09	End Shut-In(2)
123	2116.11	116.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 97% m, 3% o	0.05

Gas Rates

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



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FLUID SUMMARY

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250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

25/12s/33w Logan KS

Job Ticket: 34674 **DST#: 1**

Test Start: 2009.06.07 @ 15:34:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

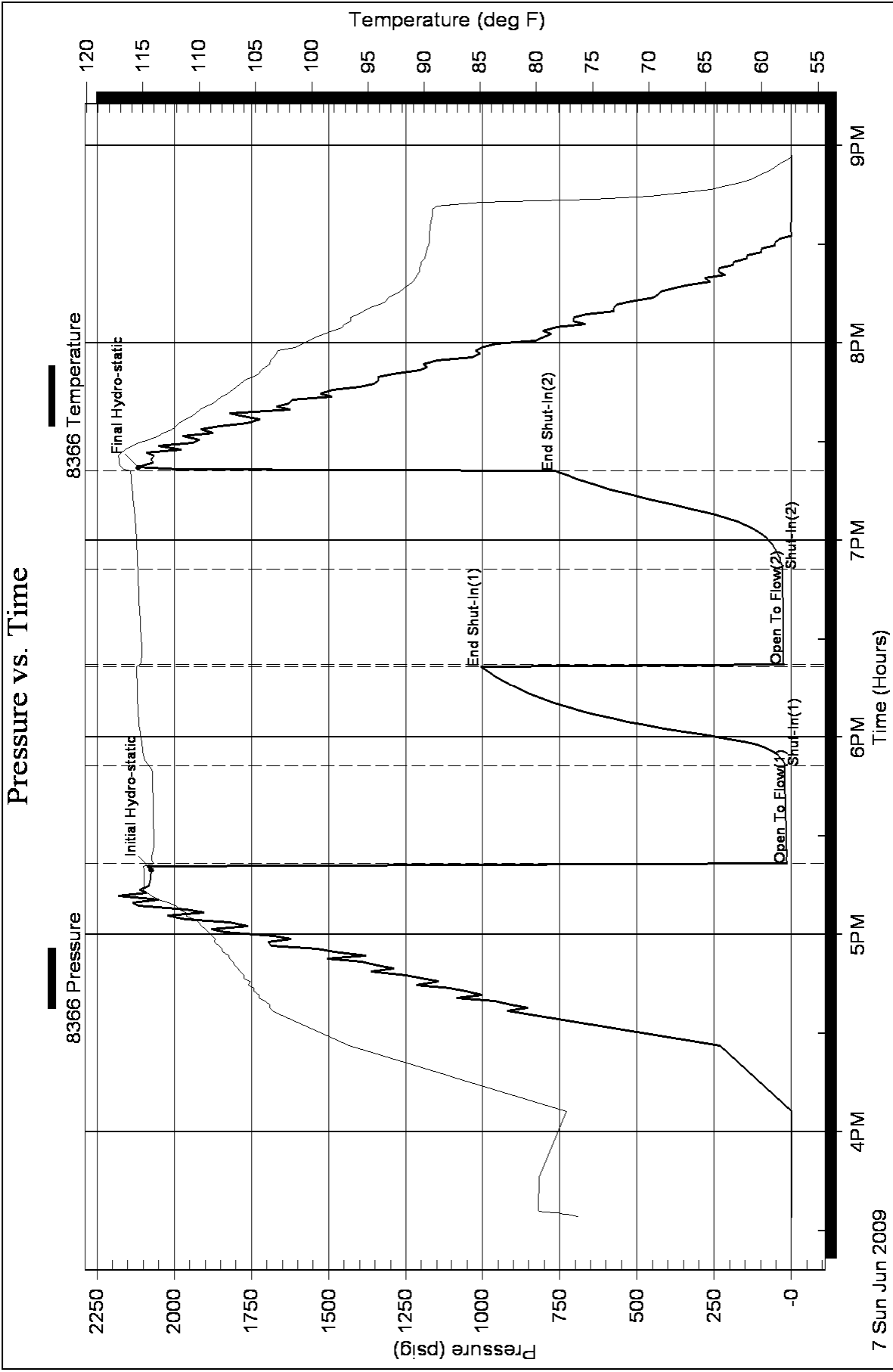
Length ft	Description	Volume bbl
10.00	SOCM 97% <i>m</i> , 3% <i>o</i>	0.049

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:





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250 N. Water
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ATTN: Tom Funk

Stoecker 'G' #1-25

25/12s/33w Logan KS

Job Ticket: 34675

DST#: 2

Test Start: 2009.06.08 @ 17:43:00

GENERAL INFORMATION:

Formation: **Alt B - Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:27:00

Time Test Ended: 21:13:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 4419.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8366

Inside

Press @ Run Depth: psig @ 4420.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.06.08

End Date:

2009.06.08

Last Calib.:

2009.06.08

Start Time:

17:43:05

End Time:

21:13:30

Time On Btm:

2009.06.08 @ 19:26:00

Time Off Btm:

2009.06.08 @ 19:33:00

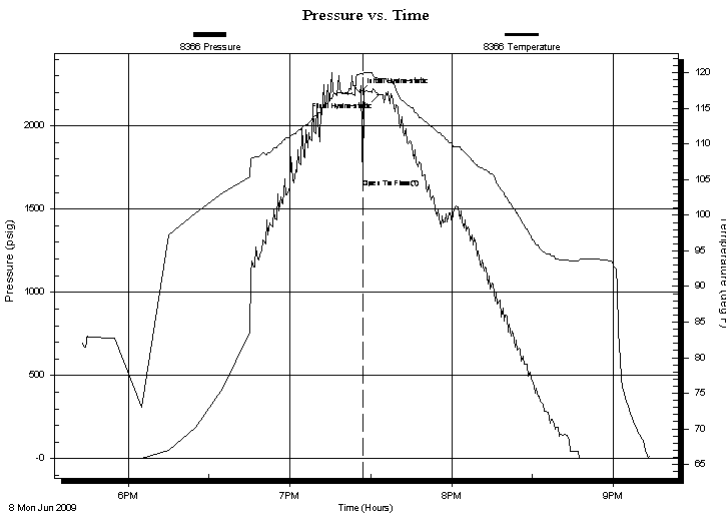
TEST COMMENT: Mis-Run

Packers failed - Reset tool

Packers failed again

Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.04	119.85	Initial Hydro-static
1	1629.67	119.75	Open To Flow (1)
7	2187.21	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	Mud 100%	1.35

Gas Rates

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



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FLUID SUMMARY

Murfin Drilling Co., Inc.

Stoecker 'G' #1-25

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Tom Funk

25/12s/33w Logan KS

Job Ticket: 34675 **DST#: 2**

Test Start: 2009.06.08 @ 17:43:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

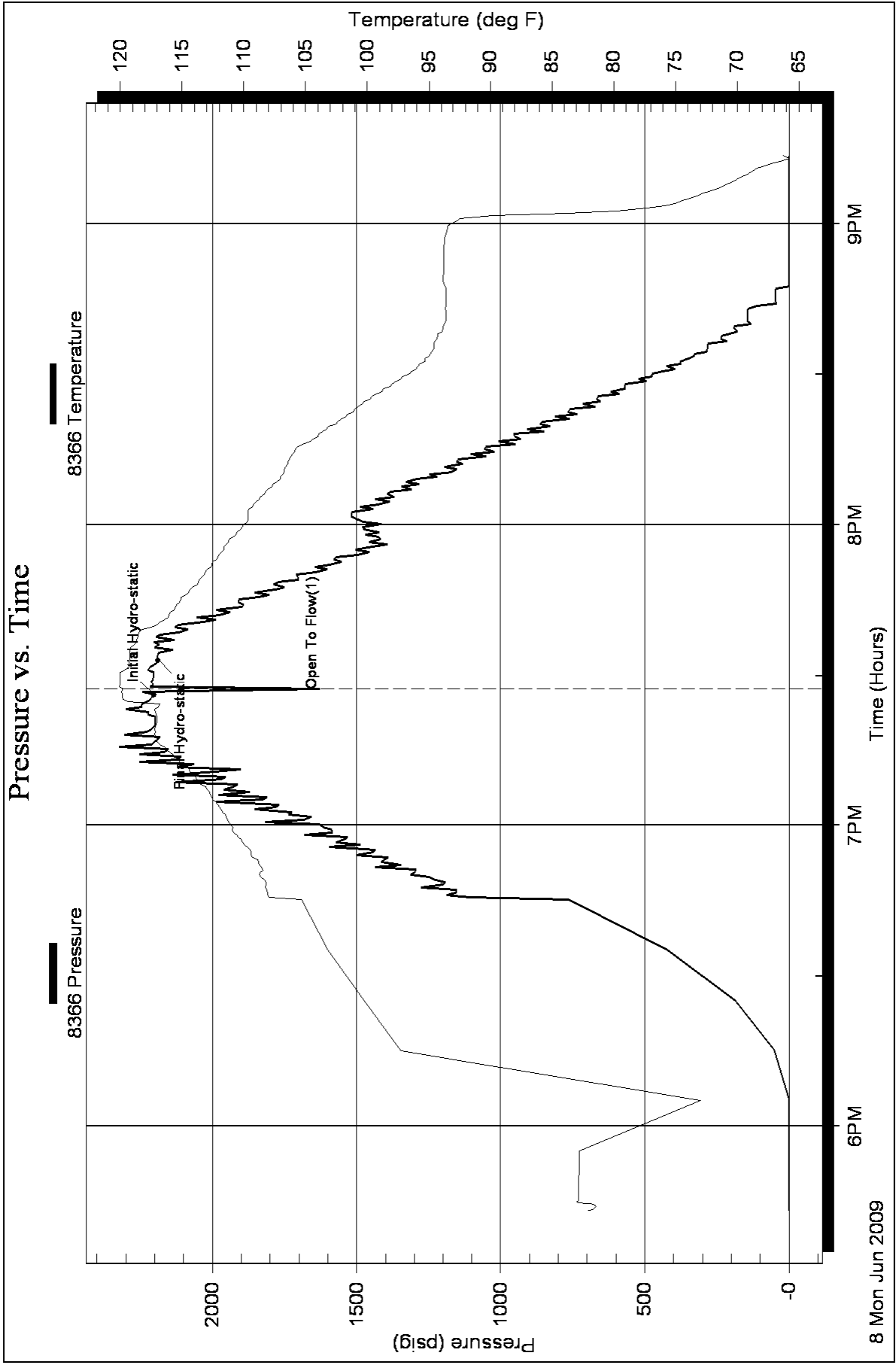
Length ft	Description	Volume bbl
275.00	Mud 100%	1.352

Total Length: 275.00 ft Total Volume: 1.352 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





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Stoecker 'G' #1-25

25/12s/33w Logan KS

Job Ticket: 34676

DST#: 3

Test Start: 2009.06.08 @ 21:31:00

GENERAL INFORMATION:

Formation: **Alt. - Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:00

Time Test Ended: 05:29:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 4380.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 91.65 psig @ 4381.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.06.08

End Date:

2009.06.09

Last Calib.:

2009.06.09

Start Time:

21:31:05

End Time:

05:28:59

Time On Btm:

2009.06.08 @ 23:12:30

Time Off Btm:

2009.06.09 @ 03:16:59

TEST COMMENT:

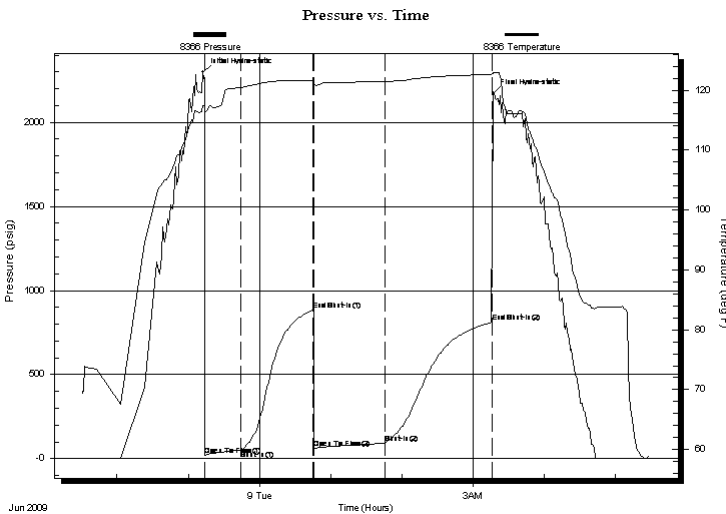
IF: Blow built to 5"

IS: Bled off, No blow back

FF: Blow built to BOB in 60 min.

FS: Weak surface blow back for about 5 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.25	117.48	Initial Hydro-static
2	19.68	116.41	Open To Flow (1)
32	50.67	120.44	Shut-In(1)
93	883.97	121.56	End Shut-In(1)
94	60.35	121.02	Open To Flow (2)
153	91.65	121.44	Shut-In(2)
243	810.55	122.56	End Shut-In(2)
245	2171.61	122.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GOCM 50% m, 22% o, 28% g	0.74

Gas Rates

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



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ATTN: Tom Funk

25/12s/33w Logan KS

Job Ticket: 34676 **DST#: 3**

Test Start: 2009.06.08 @ 21:31:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	GOCM 50% _m , 22% _o , 28% _g	0.738

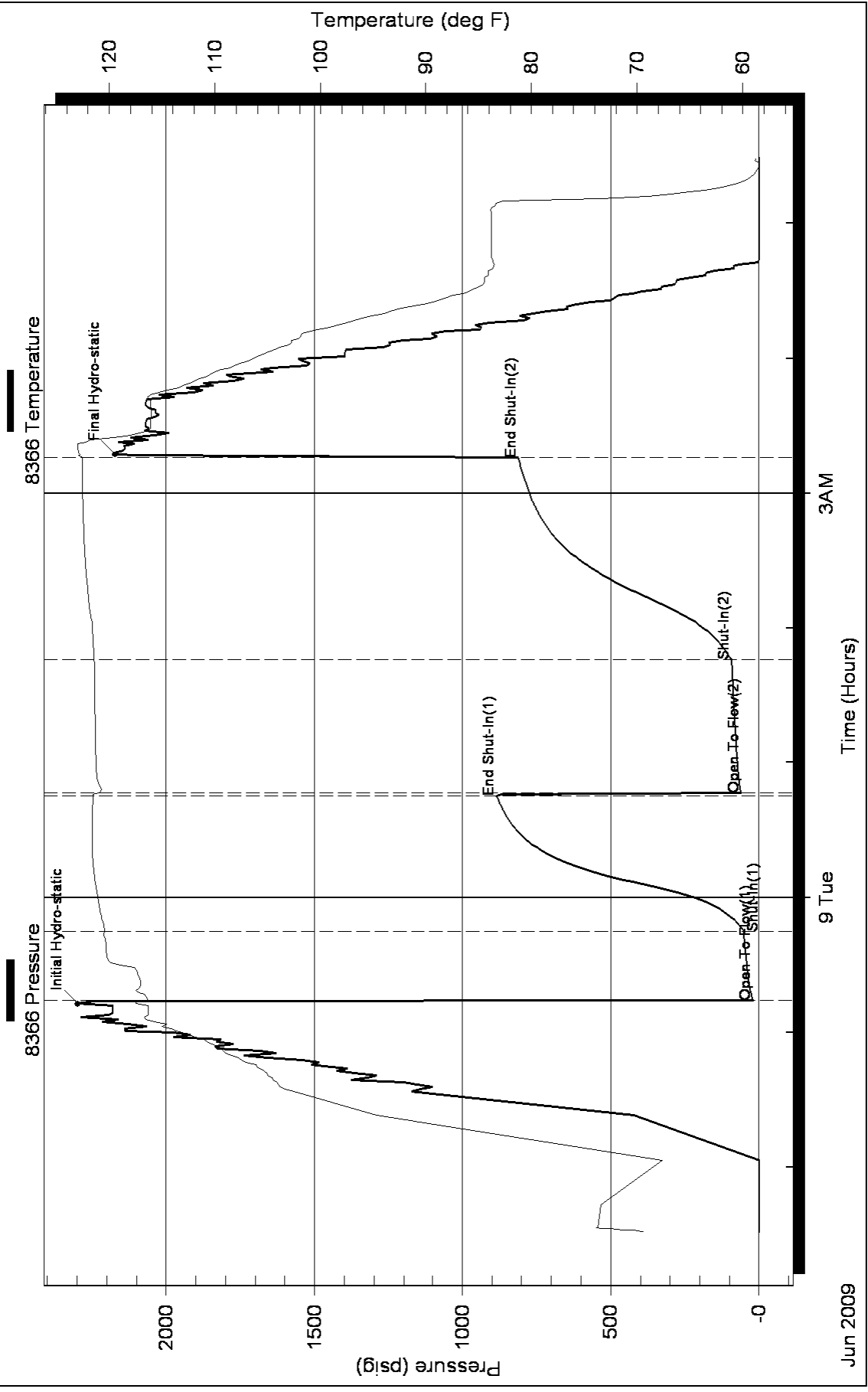
Total Length: 150.00 ft Total Volume: 0.738 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





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Stoecker 'G' #1-25

25/12s/33w Logan KS

Job Ticket: 34677

DST#: 4

Test Start: 2009.06.09 @ 15:50:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:38:00

Time Test Ended: 00:35:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 36

Interval: 4570.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 3065.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3055.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 504.56 psig @ 4571.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2009.06.09

End Date:

2009.06.10

Last Calib.: 2009.06.10

Start Time: 15:50:05

End Time:

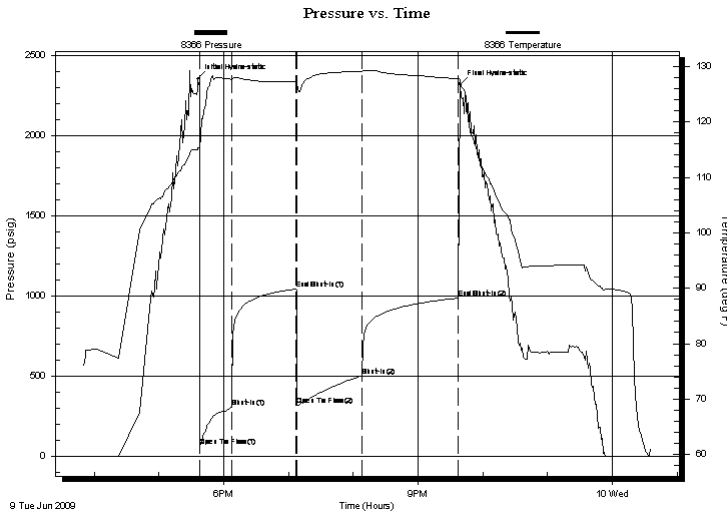
00:35:30

Time On Btm: 2009.06.09 @ 17:36:00

Time Off Btm: 2009.06.09 @ 21:38:29

TEST COMMENT: IF: Blow built to BOB in 4 min.
IS: Bled off, Blow back built to BOB in 35 min.
FF: Blow built to BOB in 4 min.
FS: Bled off, Blow back built to BOB in 18 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2355.79	115.42	Initial Hydro-static
2	67.08	115.29	Open To Flow (1)
31	308.49	127.70	Shut-In(1)
91	1046.08	127.22	End Shut-In(1)
92	319.17	126.65	Open To Flow (2)
152	504.56	129.10	Shut-In(2)
241	988.82	127.84	End Shut-In(2)
243	2321.47	127.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGO/MCW 62%w, 25%m, 8%g, 5%o	0.44
1130.00	SMC/ GO 75%o, 20%g, 5%m	11.35
0.00	Last sample @ 20 min. during reversal	0.00
0.00	had about 1%w, done rev. before 25 min	0.00
0.00	25.8 api @ 66 deg F = 25.2 api corrected	0.00
0.00	RW= .197 ohms @ 59.7 deg F = 44,000 pp	0.00

Gas Rates

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



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25/12s/33w Logan KS

Job Ticket: 34677 **DST#: 4**

Test Start: 2009.06.09 @ 15:50:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25.2 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 44000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3900.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SGO/MCW 62%w , 25%m, 8%g, 5%o	0.443
1130.00	SMC/ GO 75%o, 20%g, 5%m	11.351
0.00	Last sample @ 20 min. during reversal	0.000
0.00	had about 1%w , done rev. before 25 min.	0.000
0.00	25.8 api @ 66 deg F = 25.2 api corrected	0.000
0.00	RW=.197 ohms @ 59.7 deg F = 44,000 ppm	0.000

Total Length: 1220.00 ft Total Volume: 11.794 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

