

DRILL STEM TEST REPORT

TETON NORTH AMERICA L.L.C

HOFFMAN RANCH 21-20

PO. BOX 1378
HAYS KS 67601

20-17-13

Job Ticket: 16838

DST#: 1

ATTN: BRUCE ARD

Test Start: 2008.09.20 @ 23:16:11

GENERAL INFORMATION:

Formation: **LANSING A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:41

Time Test Ended: 05:38:41

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 29M GB

Interval: **3183.00 ft (KB) To 3247.00 ft (KB) (TVD)**

Total Depth: 3247.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1938.00 ft (KB)

1929.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8419

Press@RunDepth: 116.60 psig @ ft (KB)

Start Date: 2008.09.20

End Date:

2008.09.21

Start Time: 23:16:11

End Time:

05:38:41

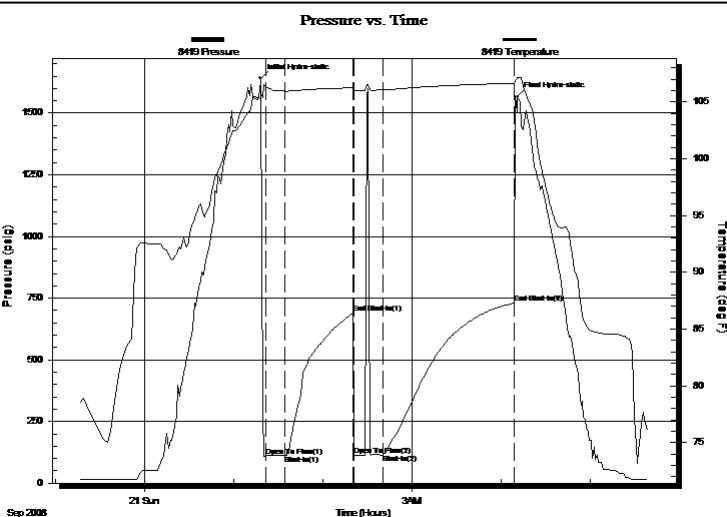
Capacity: 5000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2008.09.21 @ 01:18:11

Time Off Btm: 2008.09.21 @ 04:11:11

TEST COMMENT: 15-INITIAL OPENING SLID TOOL TO BOTTOM 15 FEET NO BLOW
45- INITIAL SHUT IN NO BLOW BACK
20-FINAL OPENING NO BLOW FOR 10 MINS FLUSHED TOOL NO BLOW
90- FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.78	105.36	Initial Hydro-static
4	109.90	106.32	Open To Flow (1)
17	113.13	105.95	Shut-In(1)
63	688.25	106.24	End Shut-In(1)
63	112.34	105.98	Open To Flow (2)
83	116.60	106.06	Shut-In(2)
171	730.44	106.65	End Shut-In(2)
173	1565.35	107.12	Final Hydro-static

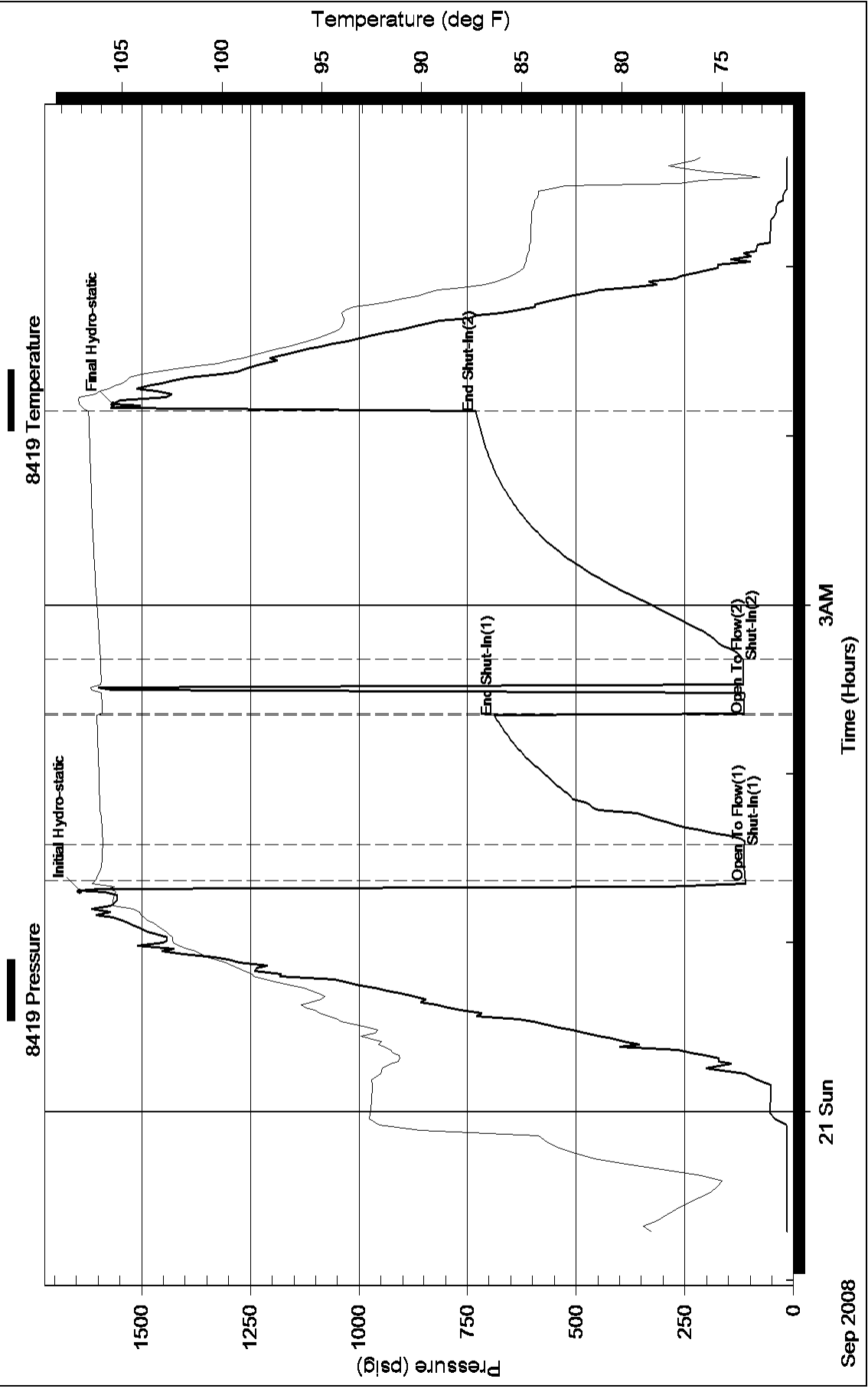
Recovery

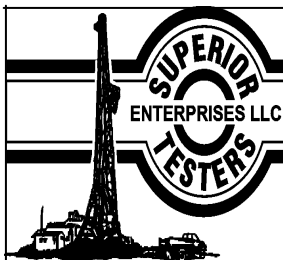
Length (ft)	Description	Volume (bbl)
80.00	DRILLING MUD WITH A SLIGHT SHOW OF O.39	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Pressure vs. Time





DRILL STEM TEST REPORT

TETON NORTH AMERICA L.L.C

HOFFMAN RANCH 21-20

PO. BOX 1378
HAYS KS 67601

20-17-13

Job Ticket: 16839

DST#: 2

ATTN: BRUCE ARD

Test Start: 2008.09.21 @ 13:16:00

GENERAL INFORMATION:

Formation: **LANSING F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:41:00

Time Test Ended: 18:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 29 MGB

Interval: **3243.00 ft (KB) To 3288.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3288.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8419

Press@RunDepth: 57.78 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2008.09.21

End Date:

2008.09.21

Last Calib.:

1899.12.30

Start Time: 13:16:00

End Time:

18:46:30

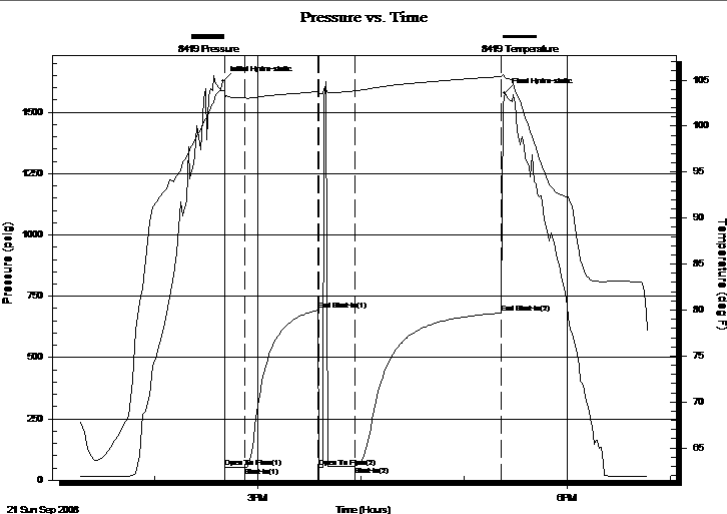
Time On Btm:

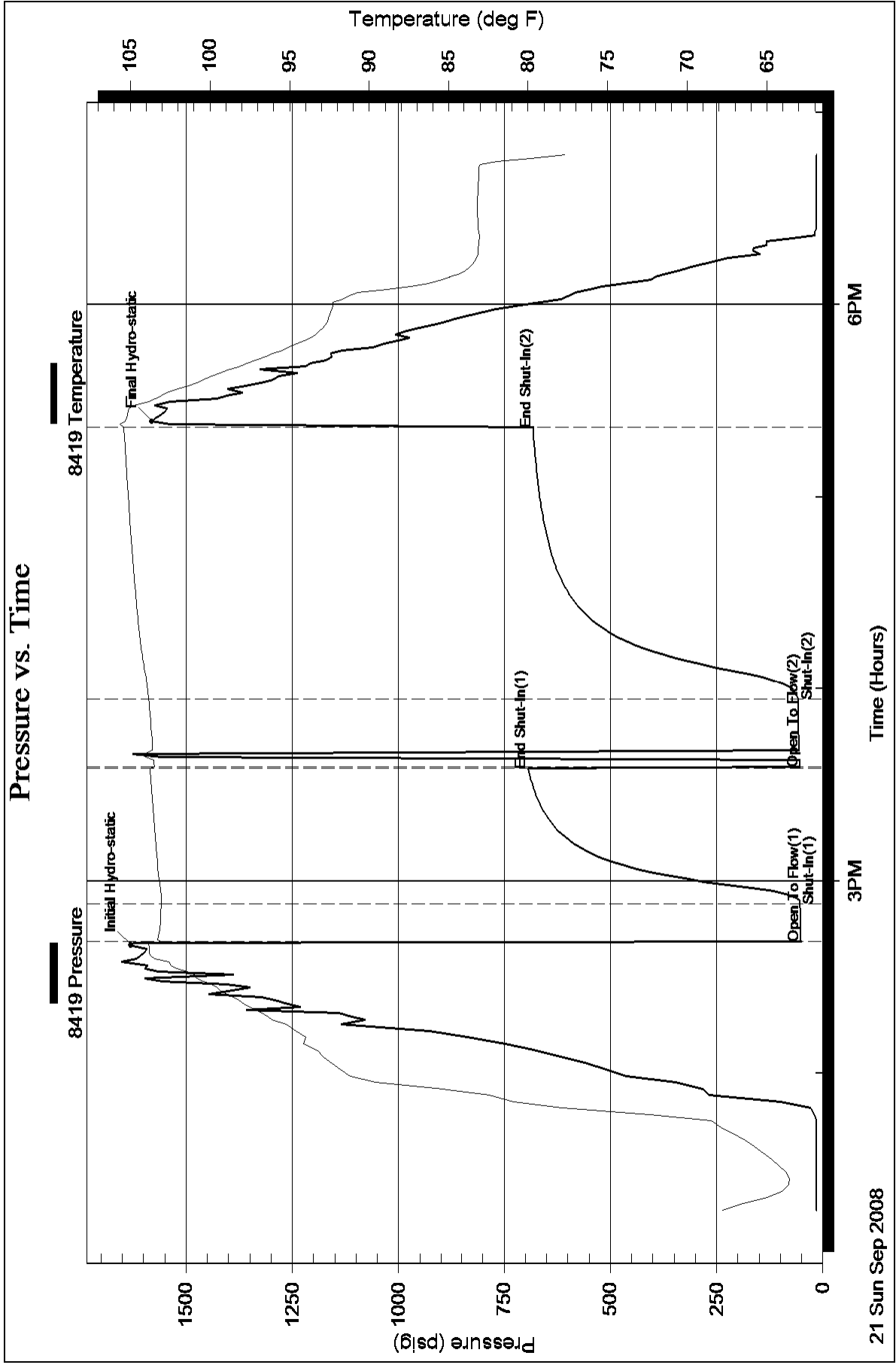
2008.09.21 @ 14:40:00

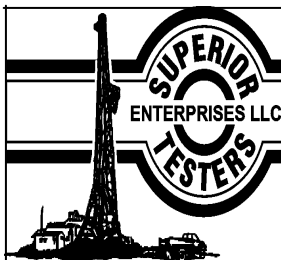
Time Off Btm:

2008.09.21 @ 17:23:30

TEST COMMENT: 10- INITIAL OPENING WEAK SURFACE BLOW
45- INITIAL SHUT IN NO BLOW BACK
20- FINAL OPENING NO BLOW FLUSHED TOOL NO BLOW
90- FINAL SHUT IN NO BLOW BACK







DRILL STEM TEST REPORT

TETON NORTH AMERICA L.L.C

HOFFMAN RANCH 21-20

PO. BOX 1378
HAYS KS 67601

20-17-13

Job Ticket: 16842

DST#: 5

ATTN: BRUCE ARD

Test Start: 2008.09.23 @ 18:55:38

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:31:08

Time Test Ended: 02:09:08

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 29 MGB

Interval: **3422.00 ft (KB) To 3439.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3439.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 114.06 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2008.09.23

End Date:

2008.09.24

Last Calib.: 1899.12.30

Start Time: 18:55:38

End Time:

02:09:08

Time On Btm: 2008.09.23 @ 20:28:38

Time Off Btm: 2008.09.24 @ 00:18:08

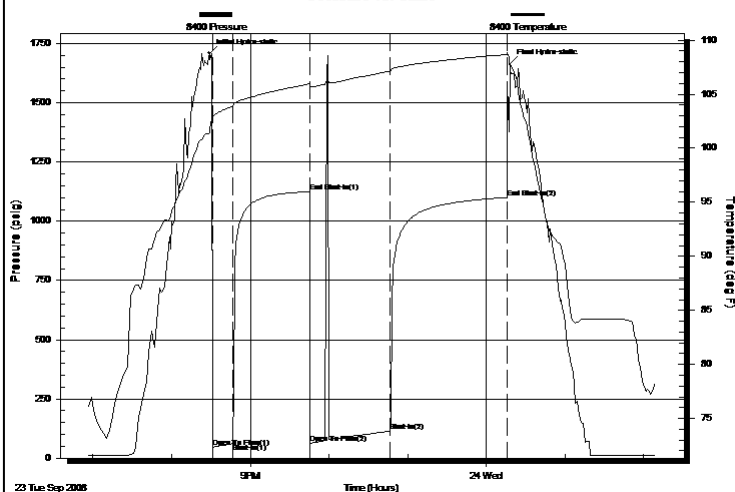
TEST COMMENT: 15-INITIAL OPENING WEAK BUILDING BLOW BUILT TO 2 1/2 INCHES INTO WATER IN 15 MINS

60-INITIAL SHUT IN NO BLOW BACK

60-FINAL OPENING NO BLOW FLUSHED TOOL WEAK BUILDING BLOW BUILT TO 4 1/2 INCHES INTO WATER IN 60 MINS

90-FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.53	101.42	Initial Hydro-static
3	44.59	102.85	Open To Flow (1)
18	63.03	103.88	Shut-In(1)
77	1125.65	105.96	End Shut-In(1)
77	63.86	105.60	Open To Flow (2)
138	114.06	107.12	Shut-In(2)
227	1100.76	108.68	End Shut-In(2)
230	1664.36	107.19	Final Hydro-static

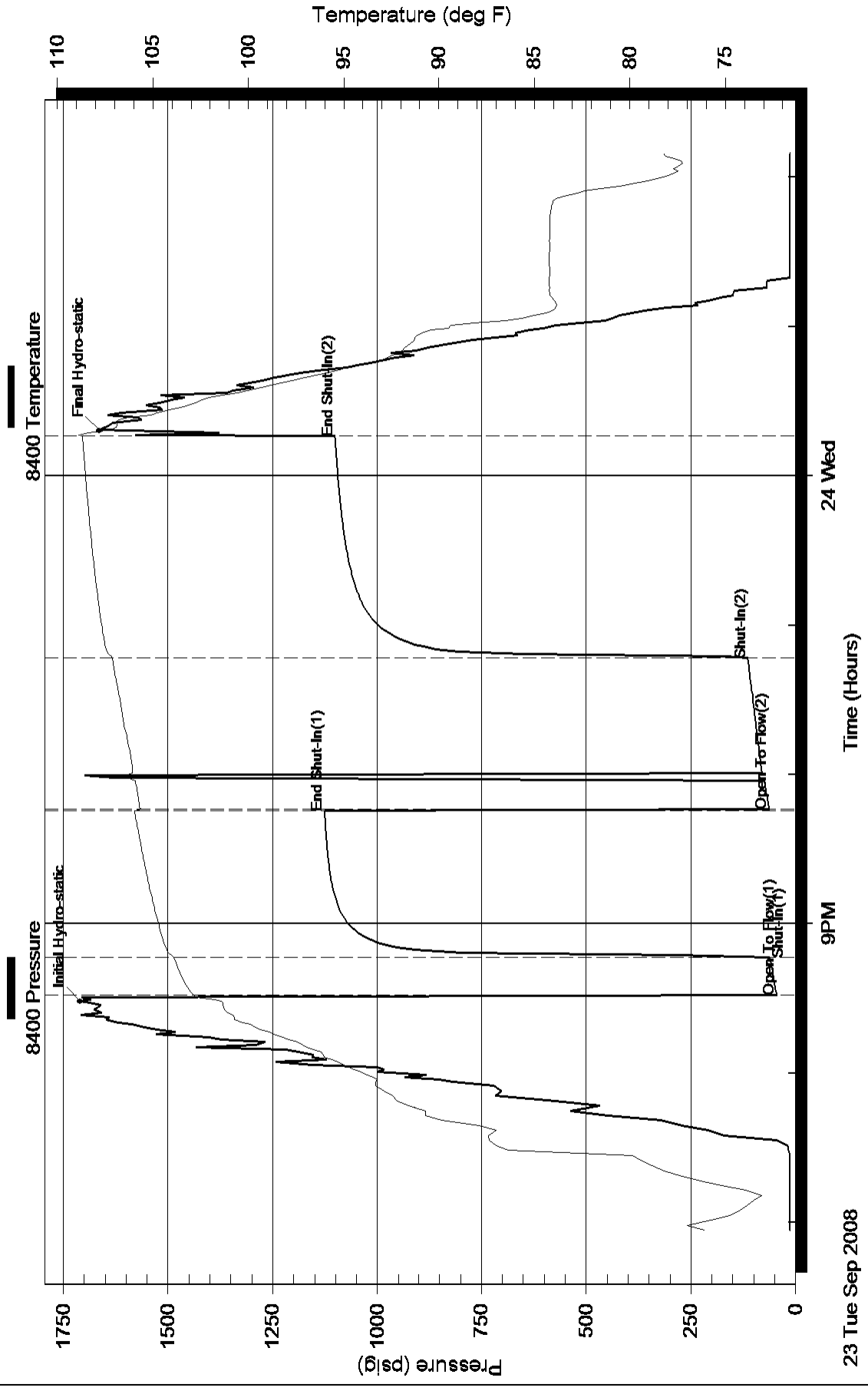
Recovery

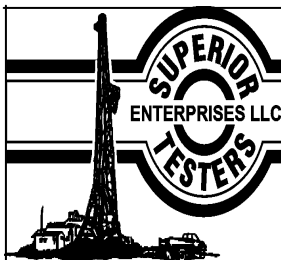
Length (ft)	Description	Volume (bbl)
70.00	CLEAN OIL	0.34
120.00	OIL CUT MUD 40%OIL60%MUD	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Pressure vs. Time





DRILL STEM TEST REPORT

TETON NORTH AMERICA L.L.C

HOFFMAN RANCH 21-20

PO. BOX 1378
HAYS KS 67601

20-17-13

Job Ticket: 16843

DST#: 6

ATTN: BRUCE ARD

Test Start: 2008.09.24 @ 10:12:50

GENERAL INFORMATION:

Formation: **ARBUCKLE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:46:50

Time Test Ended: 17:10:50

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 29 MGB

Interval: **3440.00 ft (KB) To 3455.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3455.00 ft (KB) (TVD)

1929.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8400

Press@RunDepth: 170.14 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2008.09.24

End Date: 2008.09.24

Last Calib.: 1899.12.30

Start Time: 10:12:50

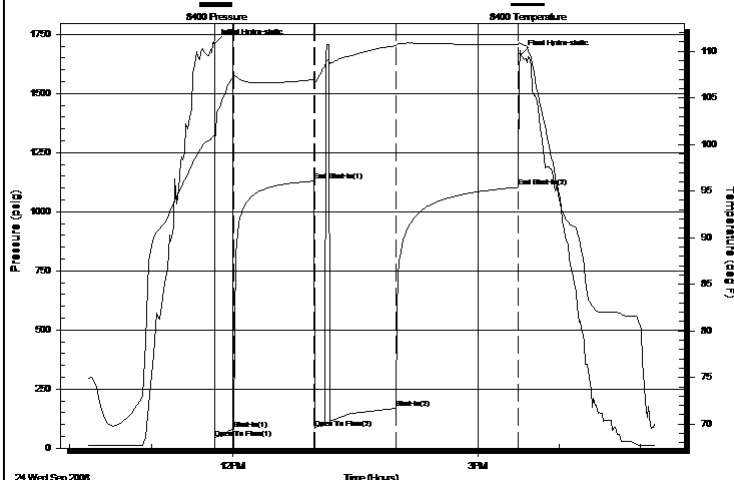
End Time: 17:10:50

Time On Btm: 2008.09.24 @ 11:46:20

Time Off Btm: 2008.09.24 @ 15:31:50

TEST COMMENT: 15-INITIAL OPENING WEAK BUILDING BLOW BUILT TO 4 1/2 INCHES INTO WATER IN 15 MINS
60-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING NO BLOW FLUSHED TOOL WEAK BLOW BUILT TO 8 INCHES INTO WATER IN 60 MINS
90- FINAL SHUT IN NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.74	100.98	Initial Hydro-static
1	40.87	100.60	Open To Flow (1)
15	81.19	107.21	Shut-In(1)
74	1129.34	106.96	End Shut-In(1)
74	83.83	106.53	Open To Flow (2)
134	170.14	110.61	Shut-In(2)
224	1103.11	110.73	End Shut-In(2)
226	1665.77	110.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	WATER CUT MUD TRACE OF OIL 30%W/0.8970%MU	
120.00	WATERY MUD 10%MUD 90%WATER	1.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Pressure vs. Time

