



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC

30-29s-11w Pratt Ks.

155 N. Market ,Ste.710
Wichita Ks.67202

Blckwelder#1-30

Job Ticket: 57875

DST#: 1

ATTN: David Gould

Test Start: 2014.11.24 @ 18:59:18

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:

5000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Drig.mud	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

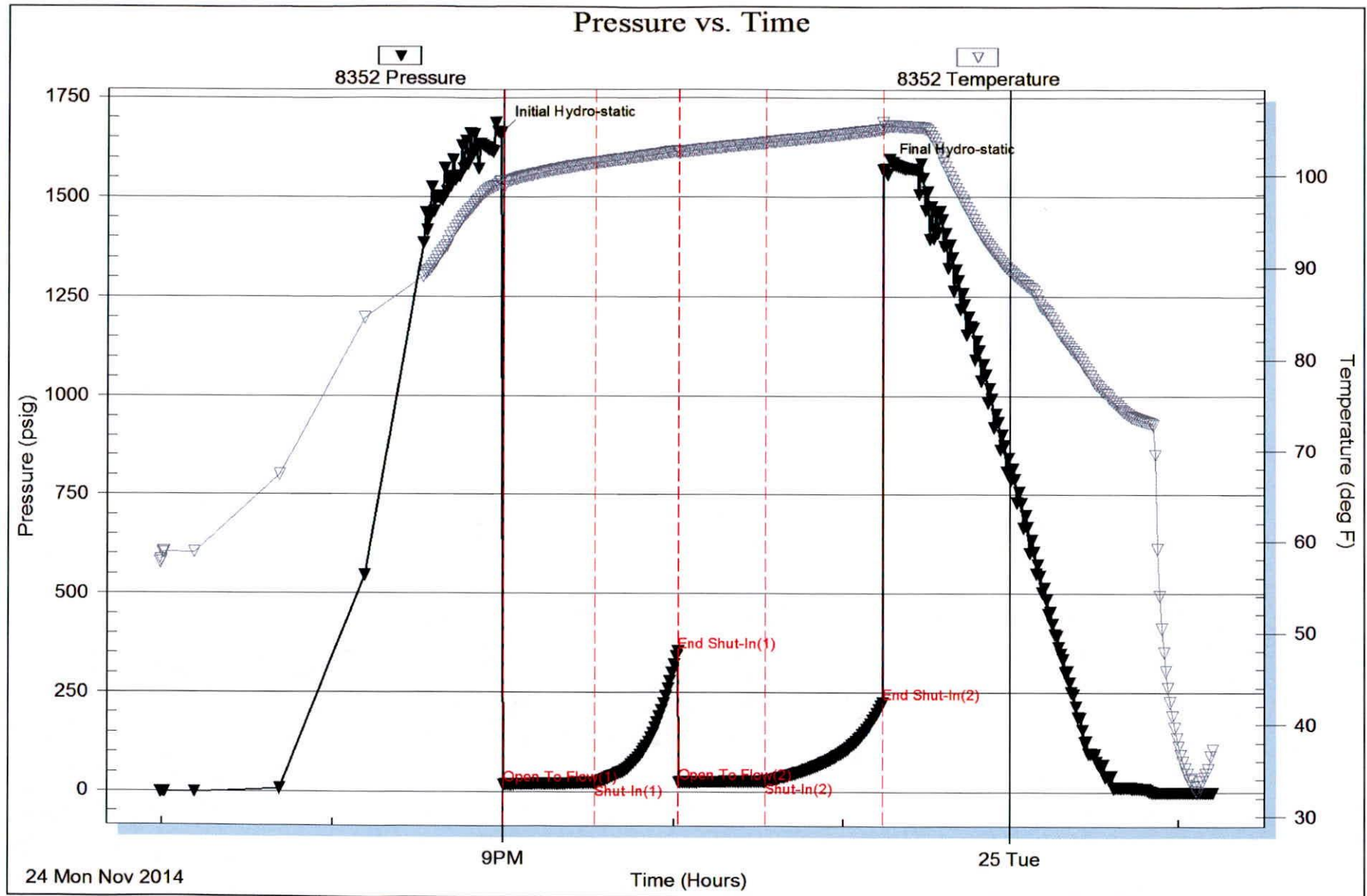
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





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30-29s-11w Pratt Ks.

155 N. Market ,Ste.710
Wichita Ks.67202

Blackwelder#1-30

Job Ticket: 59726

DST#: 2

ATTN: David Gould

Test Start: 2014.11.26 @ 22:08:01

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:

91000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Clean oil	0.005
54.00	MW w / o specs 16%m 84%w	0.266
440.00	SW / Rw .15ohms@41deg	4.979

Total Length: 495.00 ft

Total Volume: 5.250 bbl

Num Fluid Samples: 0

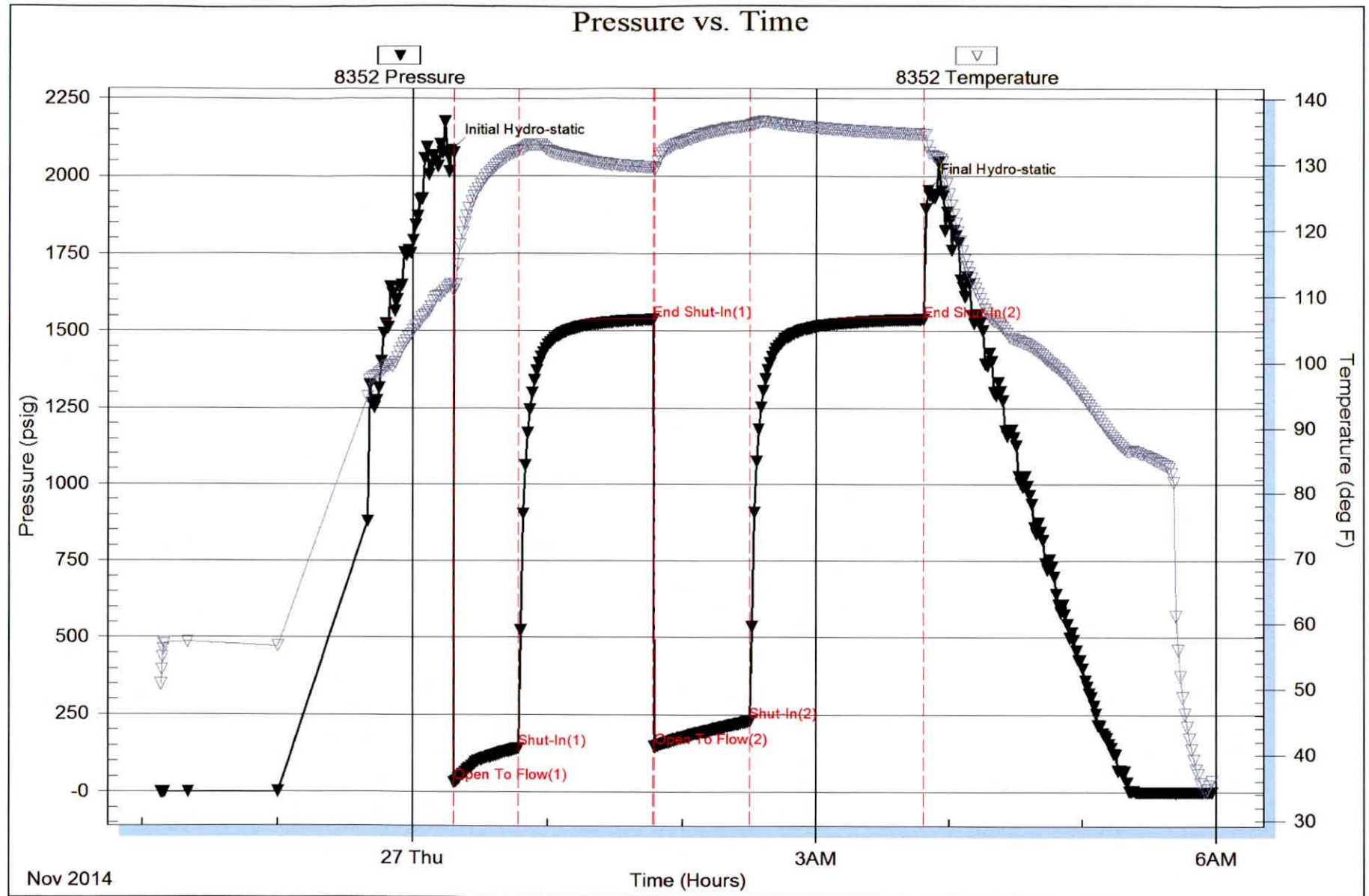
Num Gas Bombs: 0

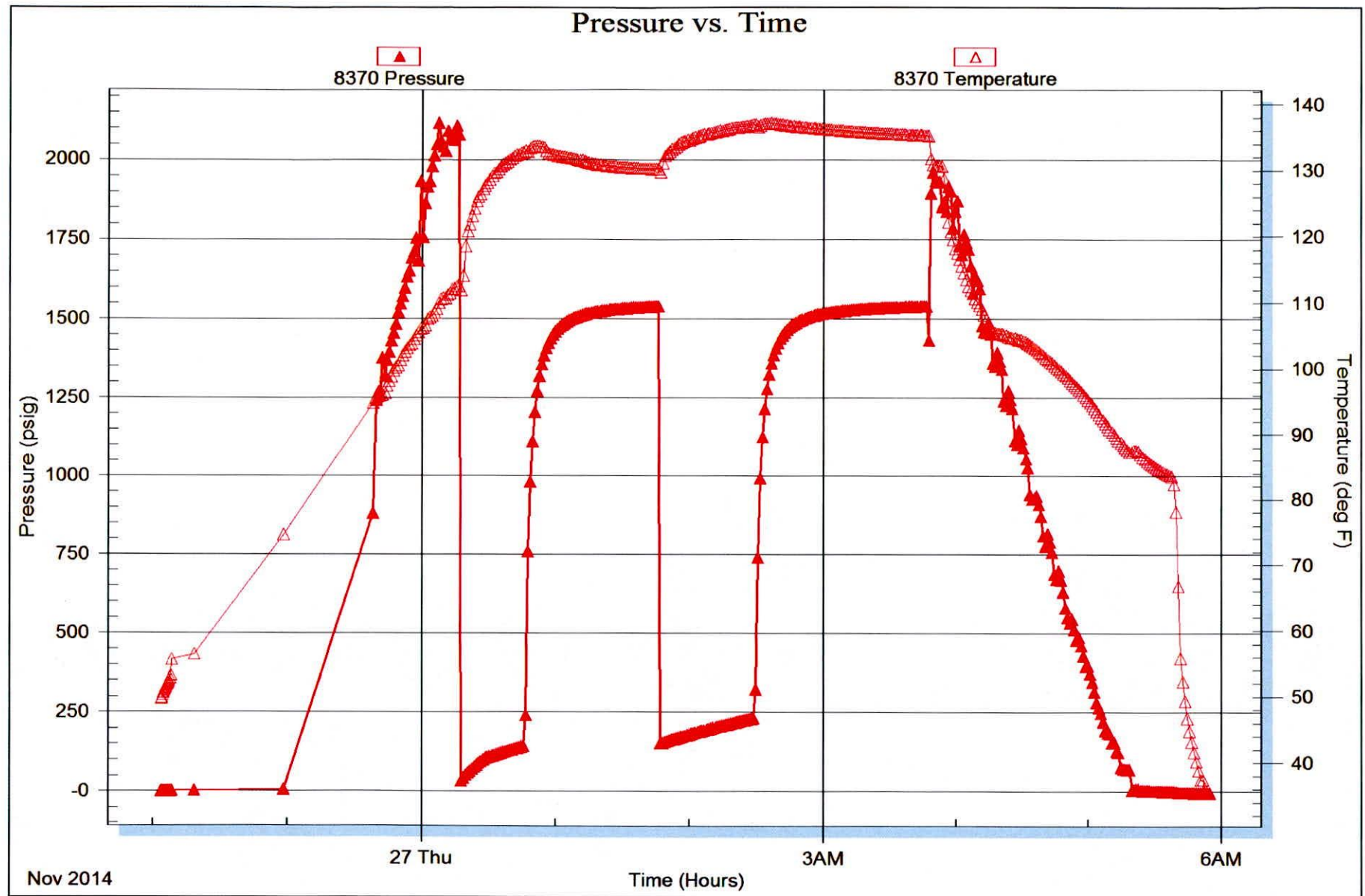
Serial #: none

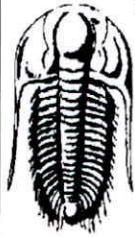
Laboratory Name:

Laboratory Location:

Recovery Comments:







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Trek AEC LLC

30-29s-11w Pratt Ks.

155 N. Market, Ste.710
Wichita Ks.67202

Blackwelder#1-30

Job Ticket: 59727

DST#: 3

ATTN: David Gould

Test Start: 2014.11.28 @ 07:57:24

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

10000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Clean oil	0.221
200.00	GMCO 35%g 29%m 36%o	1.521
170.00	GOCM 30%g 25%o 45%m	2.385

Total Length: 415.00 ft

Total Volume: 4.127 bbl

Num Fluid Samples: 0

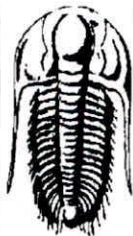
Num Gas Bombs: 1

Serial #: gp-3

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Trek AEC LLC

30-29s-11w Pratt Ks.

155 N. Market ,Ste.710
Wichita Ks.67202

Blackwelder#1-30

Job Ticket: 59727

DST#: 3

ATTN: David Gould

Test Start: 2014.11.28 @ 07:57:24

Gas Rates Information

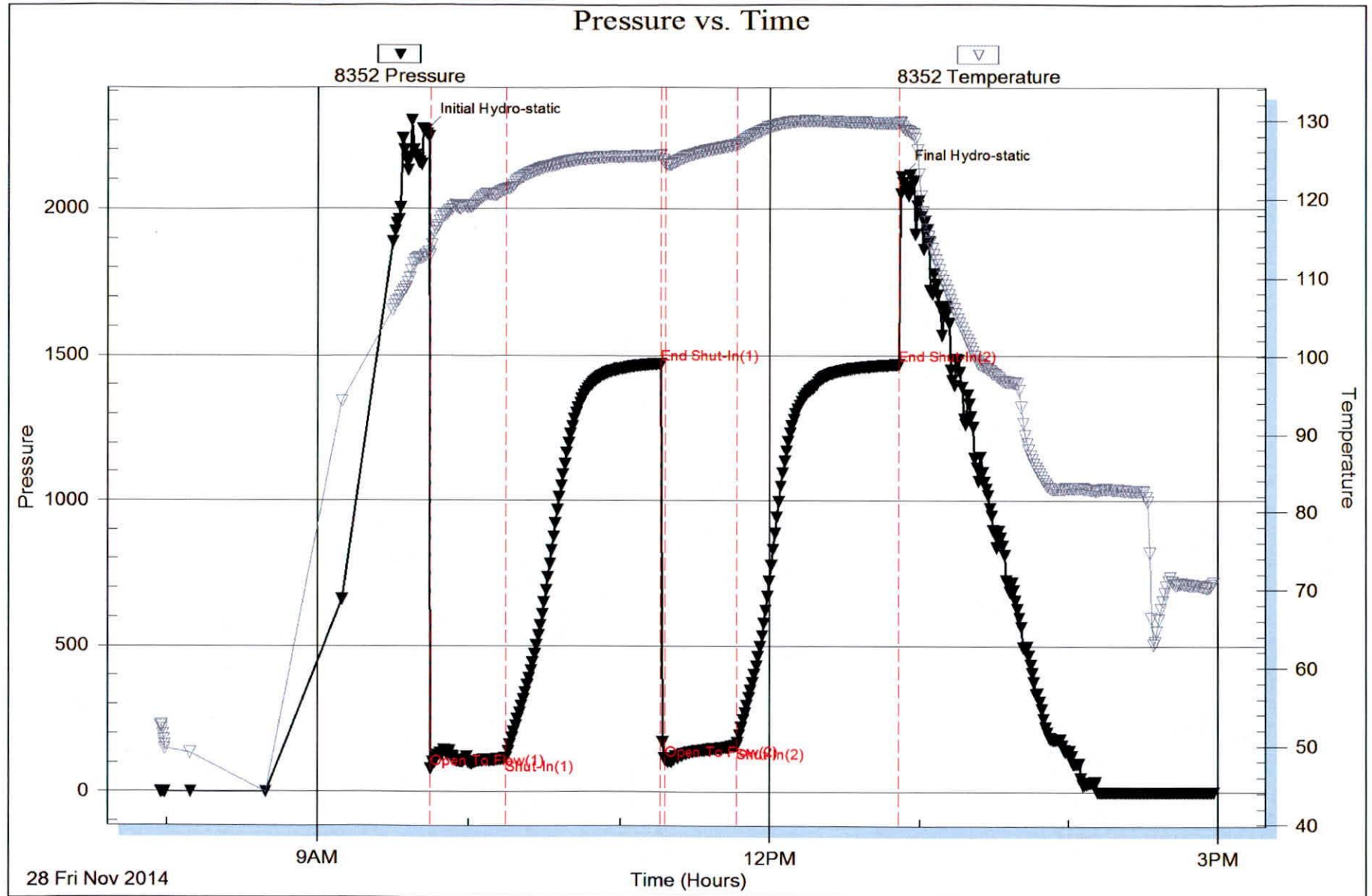
Temperature: 59 (deg F)

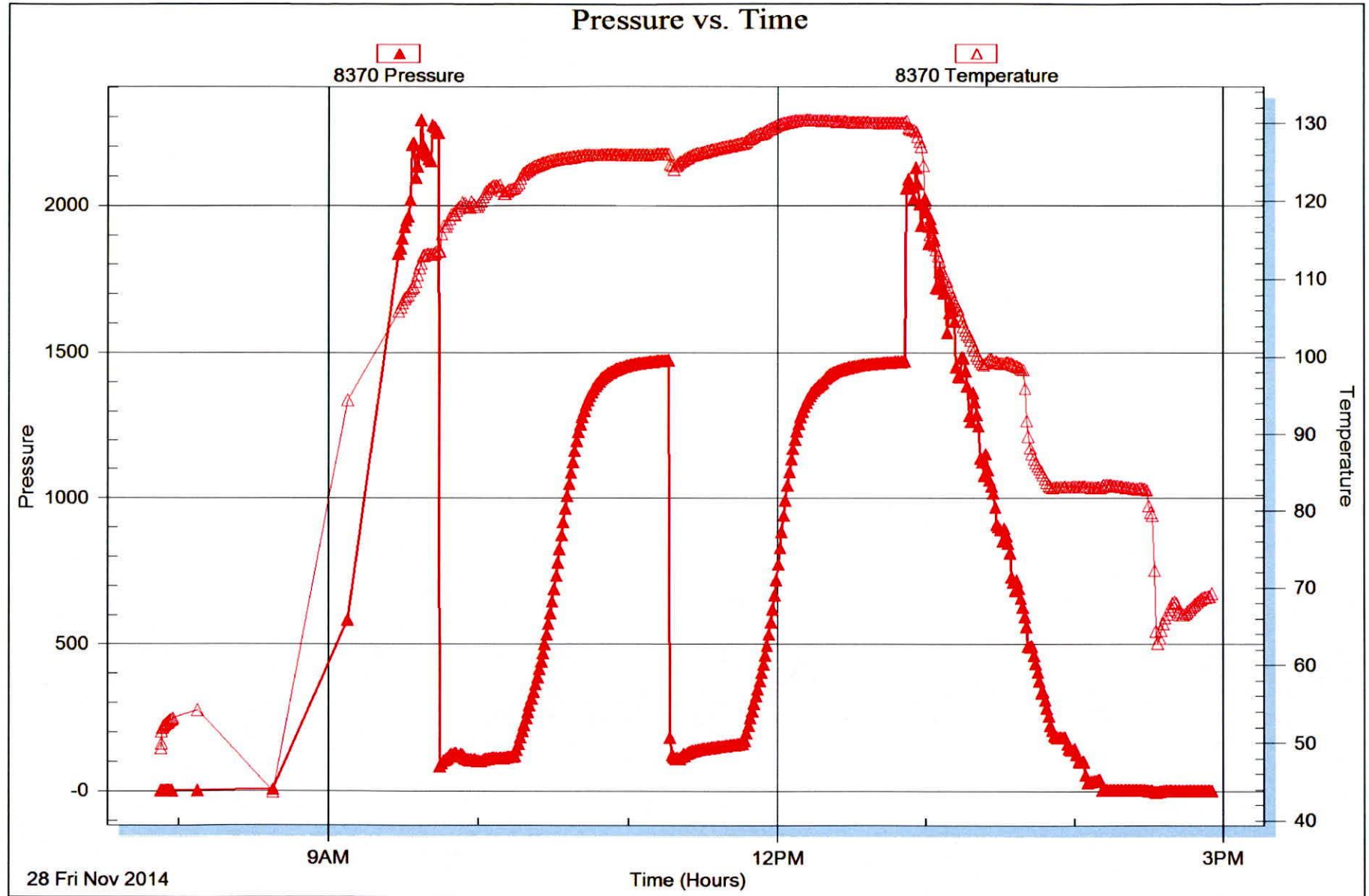
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	11	0.25	4.00	29.19
2	20	0.25	3.50	28.40
2	30	0.25	4.00	29.19







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Trek AEC LLC
155 N. Market, Ste.710
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ATTN: David Gould

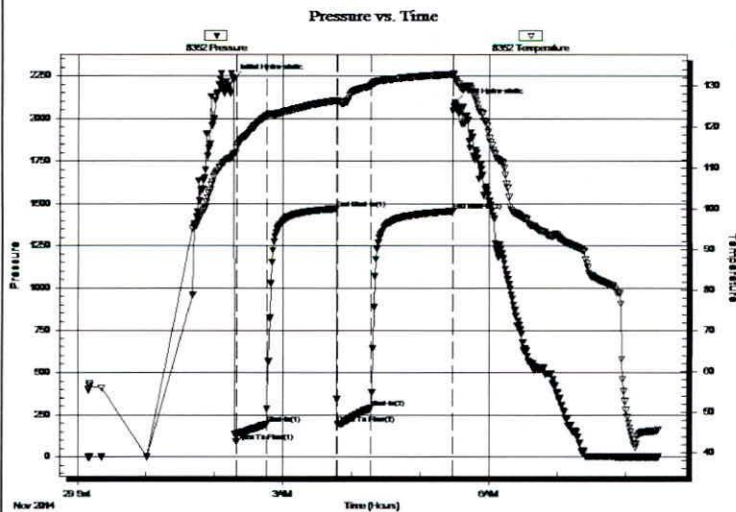
30-29s-11w Pratt Ks.
Blackwelder#1-30
Job Ticket: 59728 **DST#: 4**
Test Start: 2014.11.29 @ 00:09:01

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:19:01
Time Test Ended: 08:28:31
Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 56
Interval: **4437.00 ft (KB) To 4486.00 ft (KB) (TVD)**
Reference Elevations: 1869.00 ft (KB)
Total Depth: 4486.00 ft (KB) (TVD) 1857.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

Serial #: 8352 Outside
Press@RunDepth: 287.34 psig @ 4438.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.29 End Date: 2014.11.29 Last Calib.: 2014.11.29
Start Time: 00:09:06 End Time: 08:28:30 Time On Btm: 2014.11.29 @ 02:16:31
Time Off Btm: 2014.11.29 @ 05:29:46

TEST COMMENT: IF:Strong blow . B.O.B. in 20 secs.GTS in 12 mins.(see gas flow report)
IS:Strong blow . B.O.B.
FF:Strong blow . (see gas flow report)
FSI:Strong blow . Venting throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.25	113.32	Initial Hydro-static
3	87.46	114.81	Open To Flow (1)
29	194.59	122.67	Shut-In(1)
91	1469.75	126.38	End Shut-In(1)
92	193.58	126.19	Open To Flow (2)
120	287.34	130.02	Shut-In(2)
192	1455.77	132.76	End Shut-In(2)
194	2093.00	131.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCWM 14%g 6%o 26%w 54%m	0.30
0.00	Rw .25 ohms@43 deg.	0.00
223.00	GMCO 55%g 20%m 25%o	2.56
985.00	CGO 39%g 61%o	13.82

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	8.00	82.06
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	9.00	37.12



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FLUID SUMMARY

Trek AEC LLC
155 N. Market, Ste.710
Wichita Ks.67202
ATTN: David Gould

30-29s-11w Pratt Ks.
Blackwelder#1-30
Job Ticket: 59728 **DST#: 4**
Test Start: 2014.11.29 @ 00:09:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37.7 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 49000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.79 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 10000.00 ppm		
Filter Cake: 0.20 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCWM 14%g 6%o 26%w 54%m	0.305
0.00	Rw .25 ohms@43 deg.	0.000
223.00	GMCO 55%g 20%m 25%o	2.563
985.00	CGO 39%g 61%o	13.817

Total Length: 1270.00 ft Total Volume: 16.685 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
Laboratory Name: Laboratory Location:
Recovery Comments:



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GAS RATES

Trek AEC LLC

30-29s-11w Pratt Ks.

155 N. Market, Ste. 710
Wichita Ks. 67202

Blackwelder#1-30

Job Ticket: 59728

DST#: 4

ATTN: David Gould

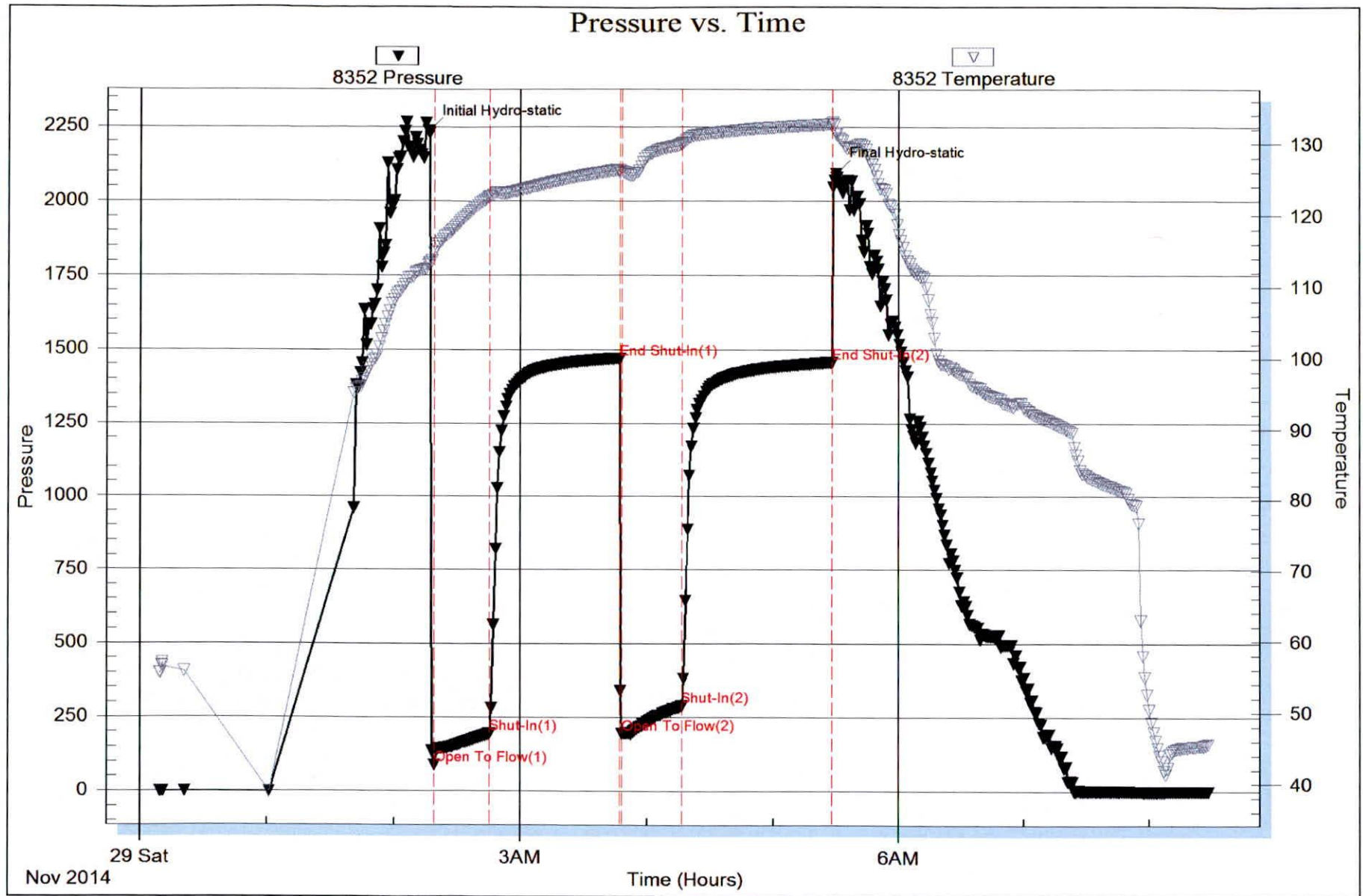
Test Start: 2014.11.29 @ 00:09:01

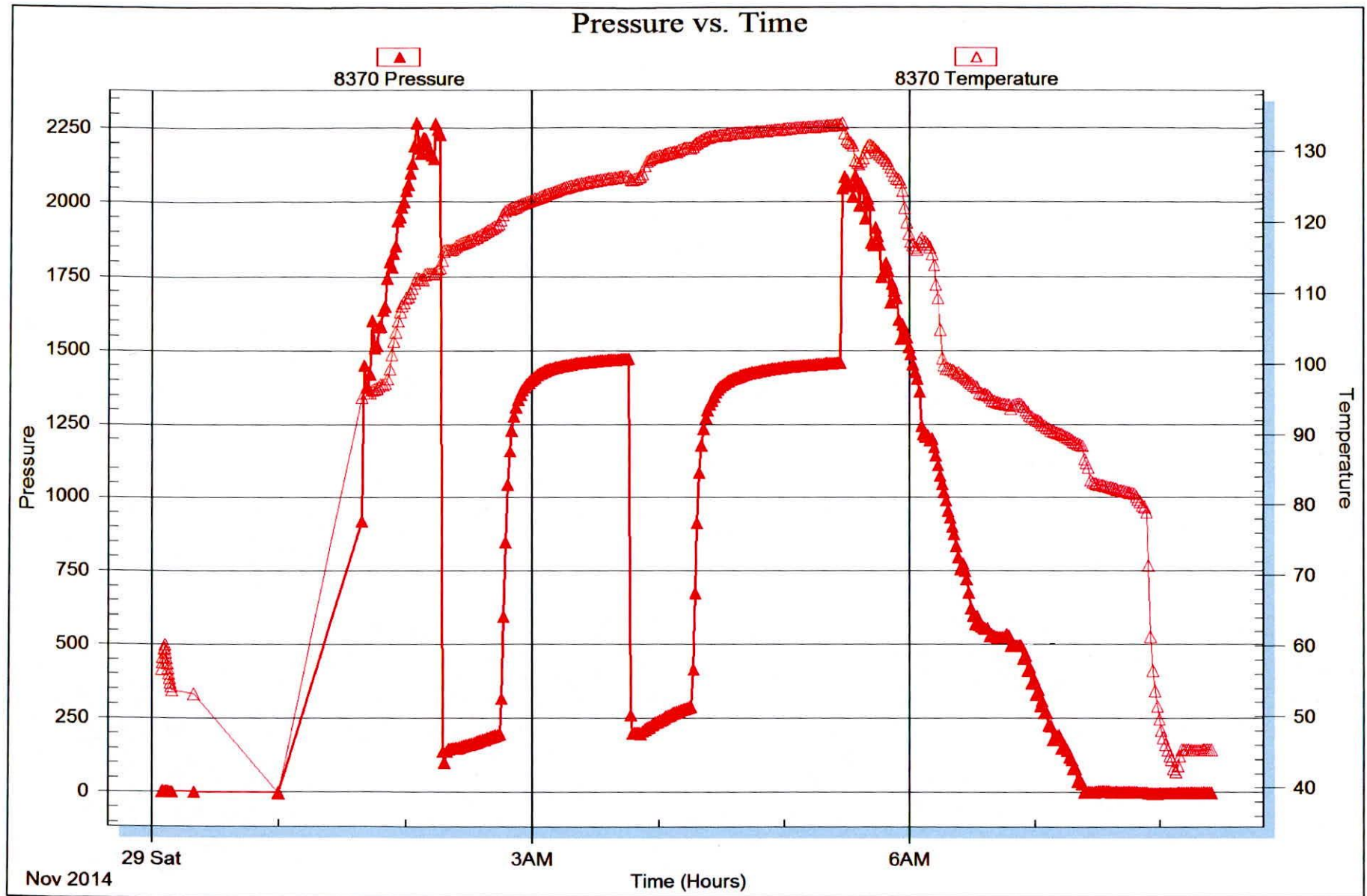
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.38	8.00	82.06
1	30	0.38	8.00	82.06
2	10	0.25	5.00	30.78
2	20	0.25	9.00	37.12
2	30	0.25	5.00	30.78







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ATTN: David Gould

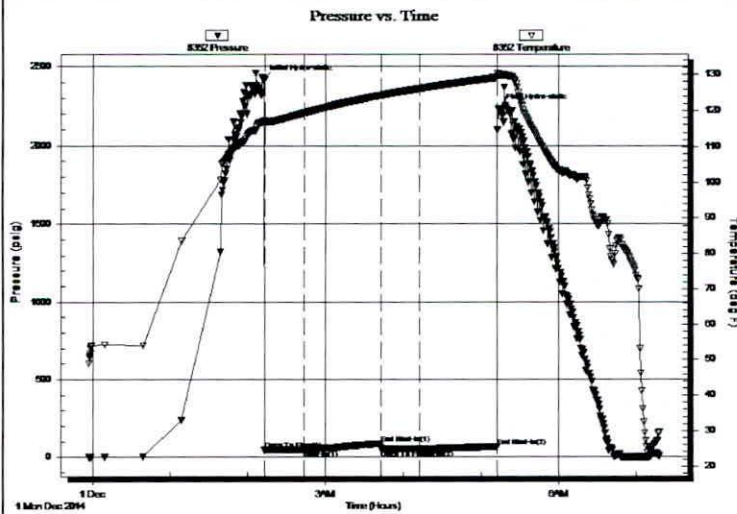
30-29s-11w Pratt Ks.
Blackwelder#1-30
Job Ticket: 59729 **DST#: 5**
Test Start: 2014.11.30 @ 23:56:51

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:12:51
Time Test Ended: 07:17:51
Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 56
Interval: **4746.00 ft (KB) To 4762.00 ft (KB) (TVD)**
Reference Elevations: 1869.00 ft (KB)
Total Depth: 4762.00 ft (KB) (TVD) 1857.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8352 Outside
Press@RunDepth: 47.42 psig @ 4747.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.30 End Date: 2014.12.01 Last Calib.: 2014.12.01
Start Time: 23:56:56 End Time: 07:17:50 Time On Btm: 2014.12.01 @ 02:11:51
Time Off Btm: 2014.12.01 @ 05:13:21

TEST COMMENT: IF: Weak blow, 3/4" in diesel. Decreasing.
IS: No blow.
FF: No blow.
FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2420.05	117.02	Initial Hydro-static
1	43.54	116.26	Open To Flow (1)
32	44.33	119.40	Shut-In(1)
91	84.81	124.23	End Shut-In(1)
91	49.30	124.24	Open To Flow (2)
121	47.42	126.13	Shut-In(2)
181	65.18	129.23	End Shut-In(2)
182	2236.04	129.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Drig. mud	0.30

* Recovery from multiple tests

Gas Rates

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



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155 N. Market ,Ste.710
Wichita Ks.67202

Blackwelder#1-30

Job Ticket: 59729

DST#: 5

ATTN: David Gould

Test Start: 2014.11.30 @ 23:56:51

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:

9000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Drig.mud	0.305

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

