

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45358

DST#: 1

Test Start: 2011.11.18 @ 08:47:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:03:45

Time Test Ended: 16:09:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 40

Interval: **4037.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Good

Reference Elevations: 3037.00 ft (KB)

3032.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8652** Inside

Press@RunDepth: 521.05 psig @ 4038.00 ft (KB)

Start Date: 2011.11.18

End Date:

2011.11.18

Start Time: 08:47:05

End Time:

16:09:44

Capacity: 8000.00 psig

Last Calib.: 2011.11.18

Time On Btm: 2011.11.18 @ 11:03:15

Time Off Btm: 2011.11.18 @ 13:37:45

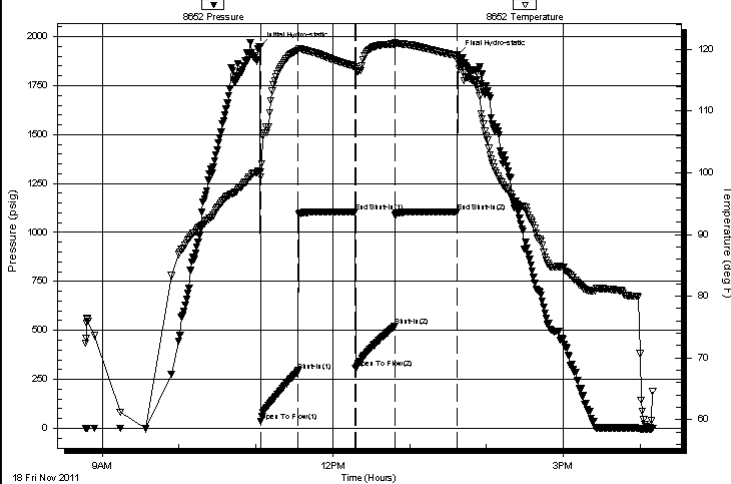
TEST COMMENT: IF: BOB @ 6 minutes.

IS: No return.

FF: BOB@ 7 minutes.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.86	100.13	Initial Hydro-static
1	35.58	99.37	Open To Flow (1)
30	293.74	119.83	Shut-In (1)
74	1105.47	117.20	End Shut-In (1)
75	308.42	116.87	Open To Flow (2)
105	521.05	120.84	Shut-In (2)
154	1105.73	118.97	End Shut-In (2)
155	1909.20	117.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1080.00	mcw 5m 95w (oil spots)	14.07

Gas Rates

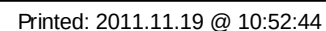
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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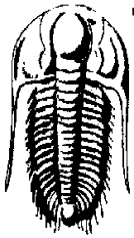


Test Start: 2011.11.18 @ 08:47:00

KB to GR/CF: 5.00 ft

FSI: No return.





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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45358

DST#: 1

Test Start: 2011.11.18 @ 08:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 70.00 sec/qt

Water Loss: 4.80 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1080.00	mcw 5m 95w (oil spots)	14.075

Total Length: 1080.00 ft Total Volume: 14.075 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .220 @ 67 = 34000ppm

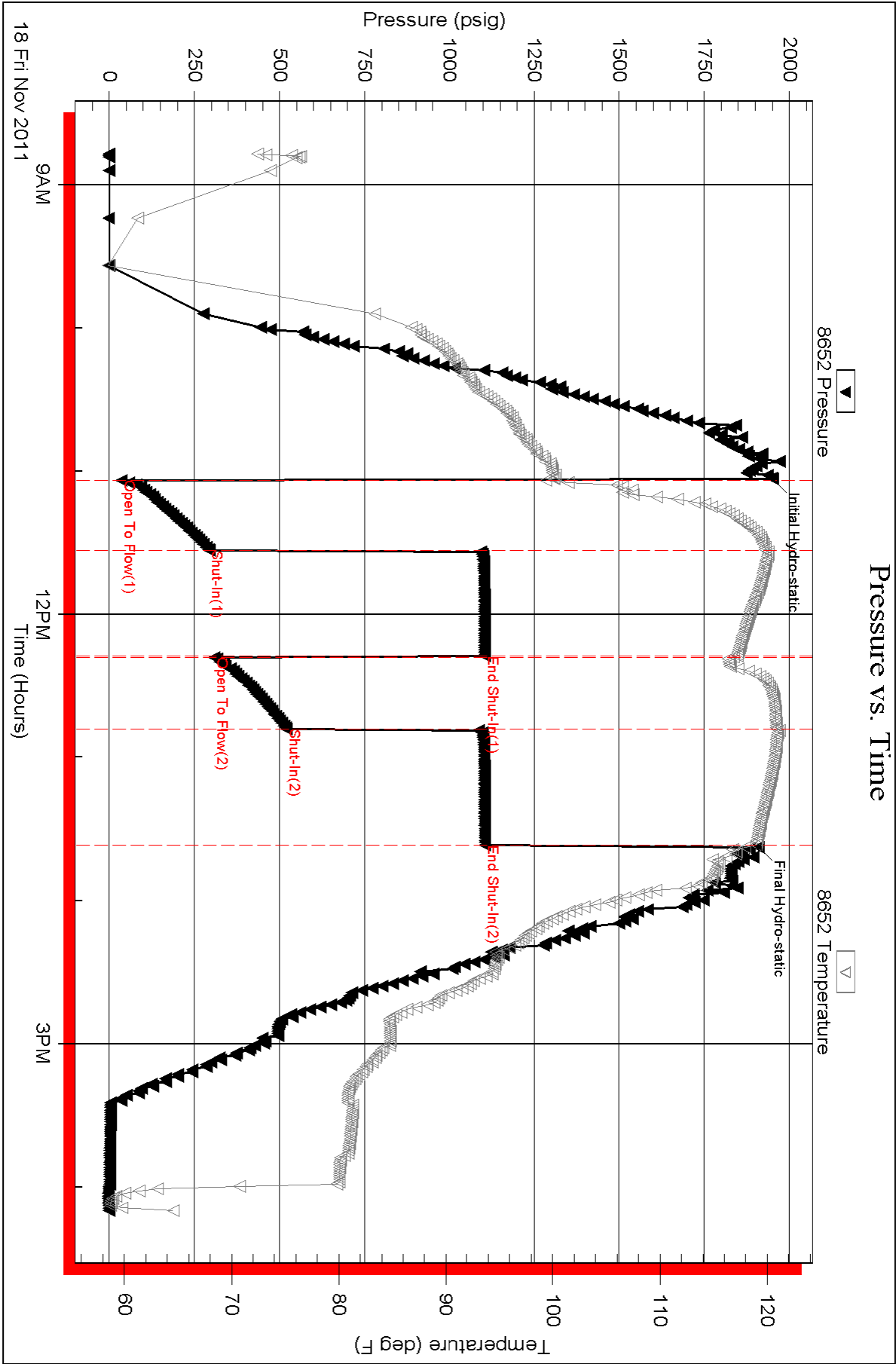
Serial #: 8652

Inside

Grand Mesa Operating Co

#1-27 River

DST Test Number: 1

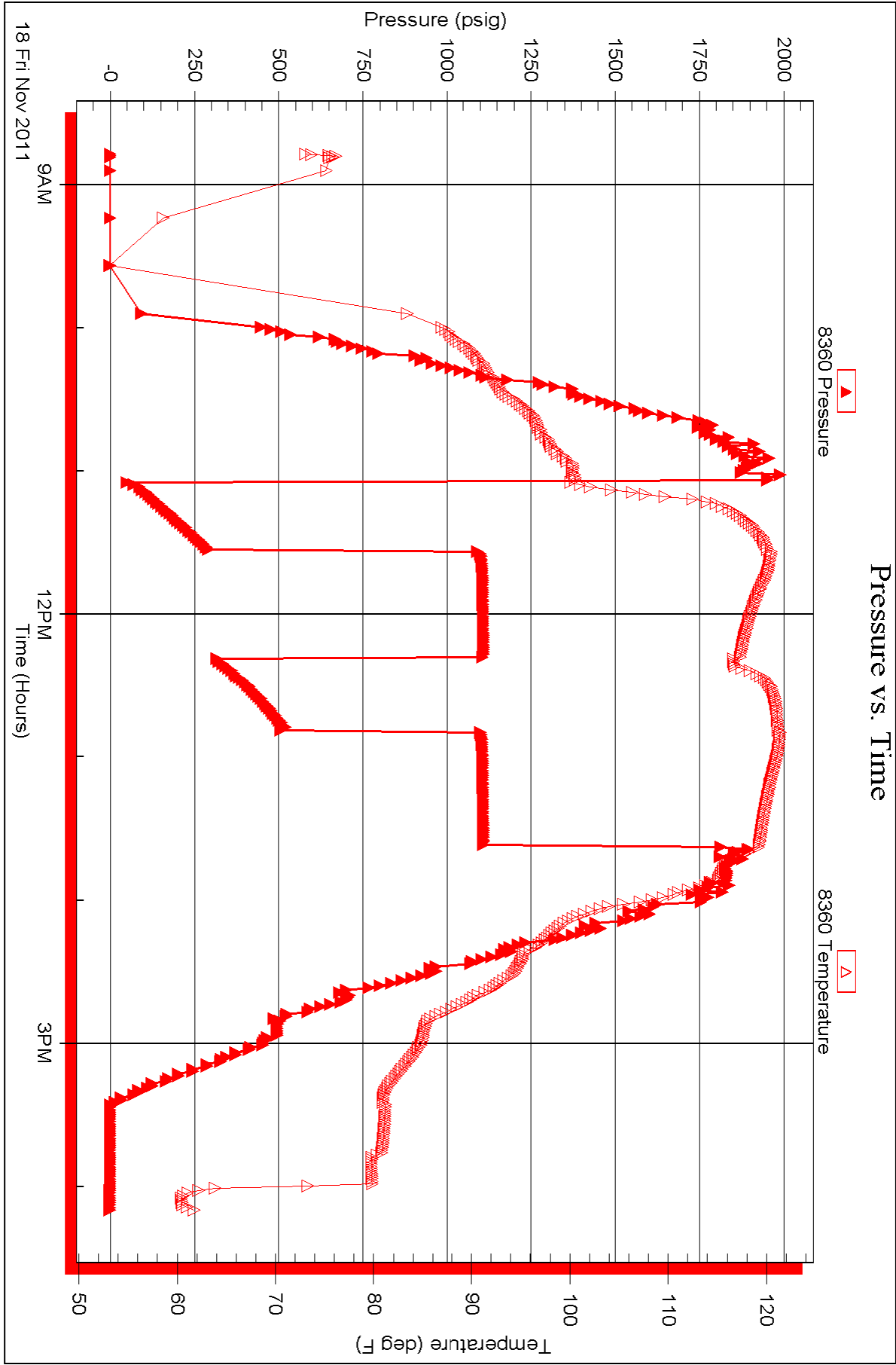


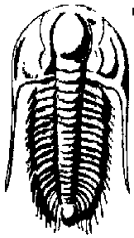
Serial #: 8360

Outside Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45359

DST#: 2

Test Start: 2011.11.19 @ 13:58:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:15

Time Test Ended: 21:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: **4252.00 ft (KB) To 4300.00 ft (KB) (TVD)**

Reference Elevations: 3037.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

3032.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8652** Inside

Press@RunDepth: 205.64 psig @ 4253.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.19

End Date:

2011.11.19

Last Calib.: 2011.11.19

Start Time: 13:58:05

End Time:

21:07:59

Time On Btm: 2011.11.19 @ 16:05:00

Time Off Btm: 2011.11.19 @ 19:06:45

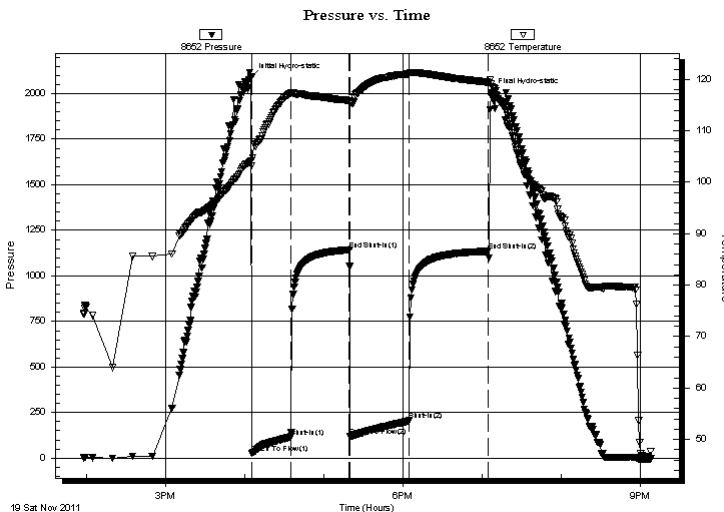
TEST COMMENT: IF: BOB @ 28 minutes.

IS: No return.

FF: 8" blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.85	104.13	Initial Hydro-static
1	26.89	103.22	Open To Flow (1)
30	116.45	117.33	Shut-In(1)
75	1143.08	115.85	End Shut-In(1)
75	119.70	115.47	Open To Flow (2)
120	205.64	121.11	Shut-In(2)
180	1135.49	119.41	End Shut-In(2)
182	2005.24	119.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	mcw 10m 90w (oil spots)	4.82

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests

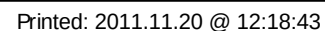


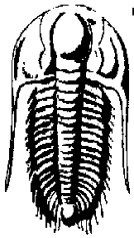
Test Start: 2011.11.19 @ 13:58:00

KB to GR/CF: 5.00 ft

Time Off Btm:

FSI: No return.





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FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45359

DST#: 2

Test Start: 2011.11.19 @ 13:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 4.80 in³

Resistivity: ohm.m

Salinity: 6200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

0 deg API

Water Salinity:

45000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	mcw 10m 90w (oil spots)	4.817

Total Length: 420.00 ft Total Volume: 4.817 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .192 @ 59f = 45000ppm

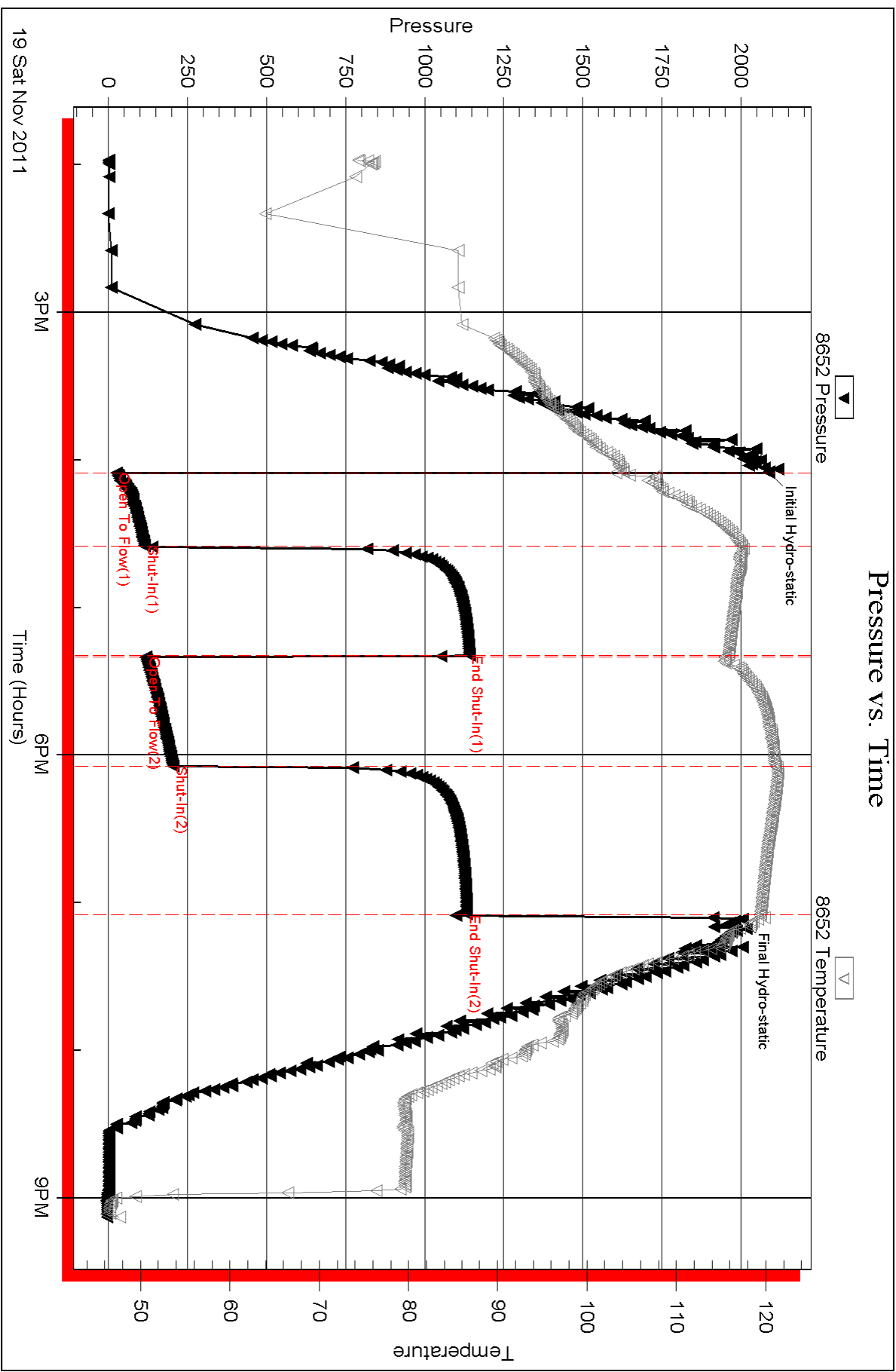
Serial #: 8652

Inside

Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 2

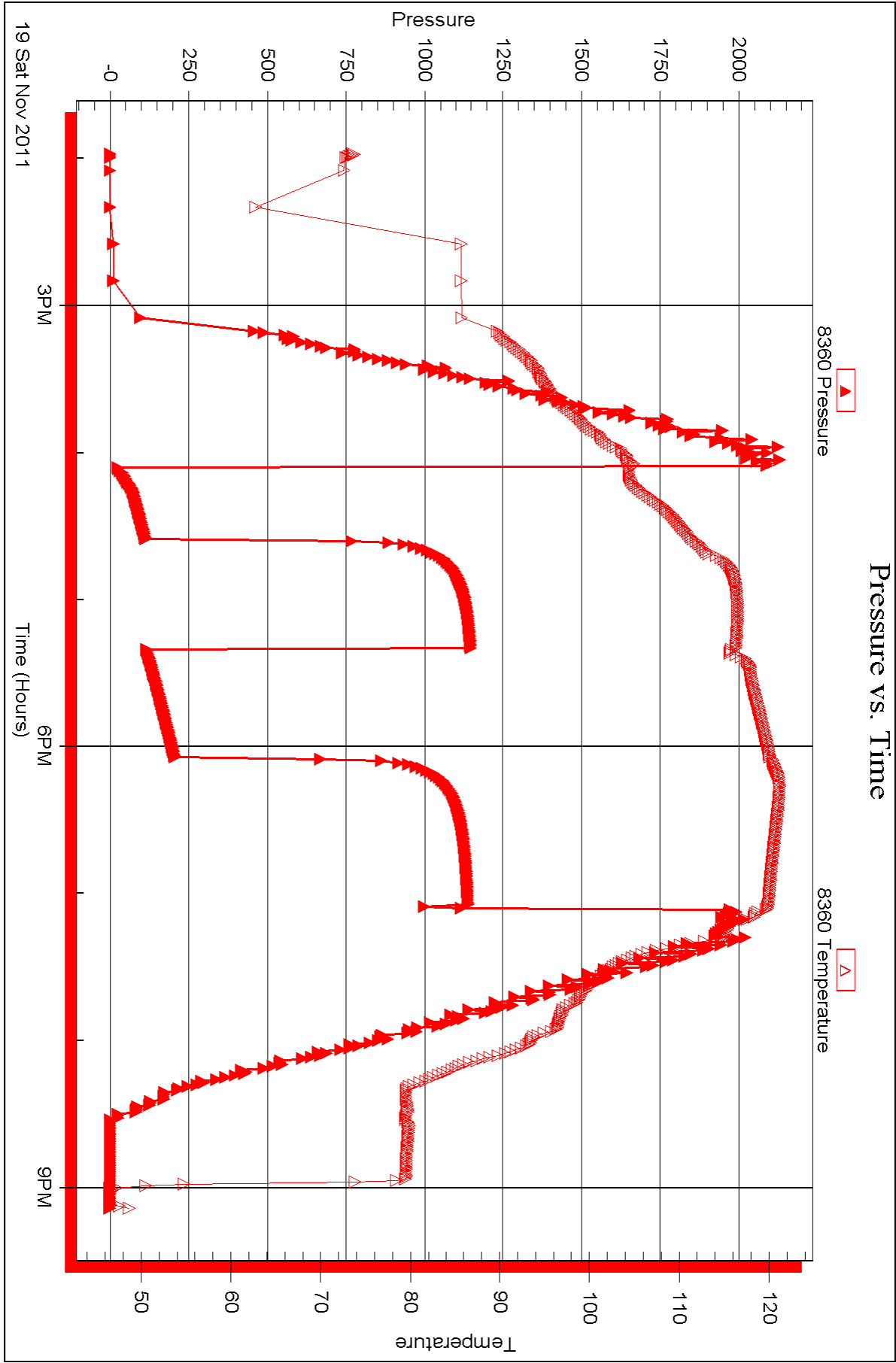


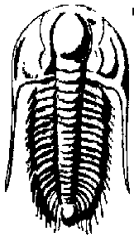
Serial #: 8360

Outside Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 2





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DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45360

DST#: 3

Test Start: 2011.11.20 @ 09:05:05

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:29:00

Time Test Ended: 15:31:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: **4331.00 ft (KB) To 4353.00 ft (KB) (TVD)**

Reference Elevations: 3037.00 ft (KB)

Total Depth: 4353.00 ft (KB) (TVD)

3032.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8652** Inside

Press@RunDepth: 20.29 psig @ 4332.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.20

End Date:

2011.11.20

Last Calib.: 2011.11.20

Start Time: 09:05:05

End Time:

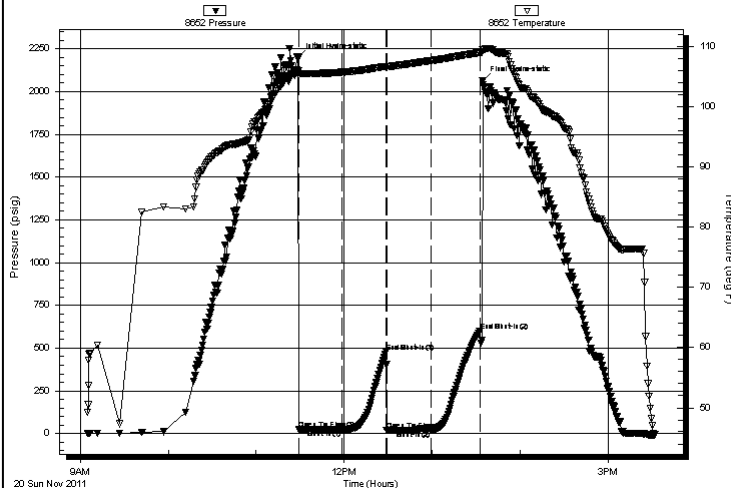
15:31:59

Time On Btm: 2011.11.20 @ 11:28:45

Time Off Btm: 2011.11.20 @ 13:34:29

TEST COMMENT: IF: Surface blow, died @ 9 minutes.
IS: No return.
FF: Surface blow, died @ 8 minutes.
FF: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2196.92	105.93	Initial Hydro-static
1	22.93	105.19	Open To Flow (1)
30	22.40	105.75	Shut-In(1)
60	478.34	106.74	End Shut-In(1)
61	20.90	106.62	Open To Flow (2)
91	20.29	107.66	Shut-In(2)
124	599.53	109.02	End Shut-In(2)
126	2062.84	109.47	Final Hydro-static

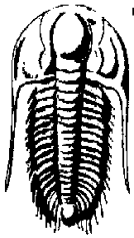
Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45360

DST#: 3

Test Start: 2011.11.20 @ 09:05:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 76.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 8500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8652

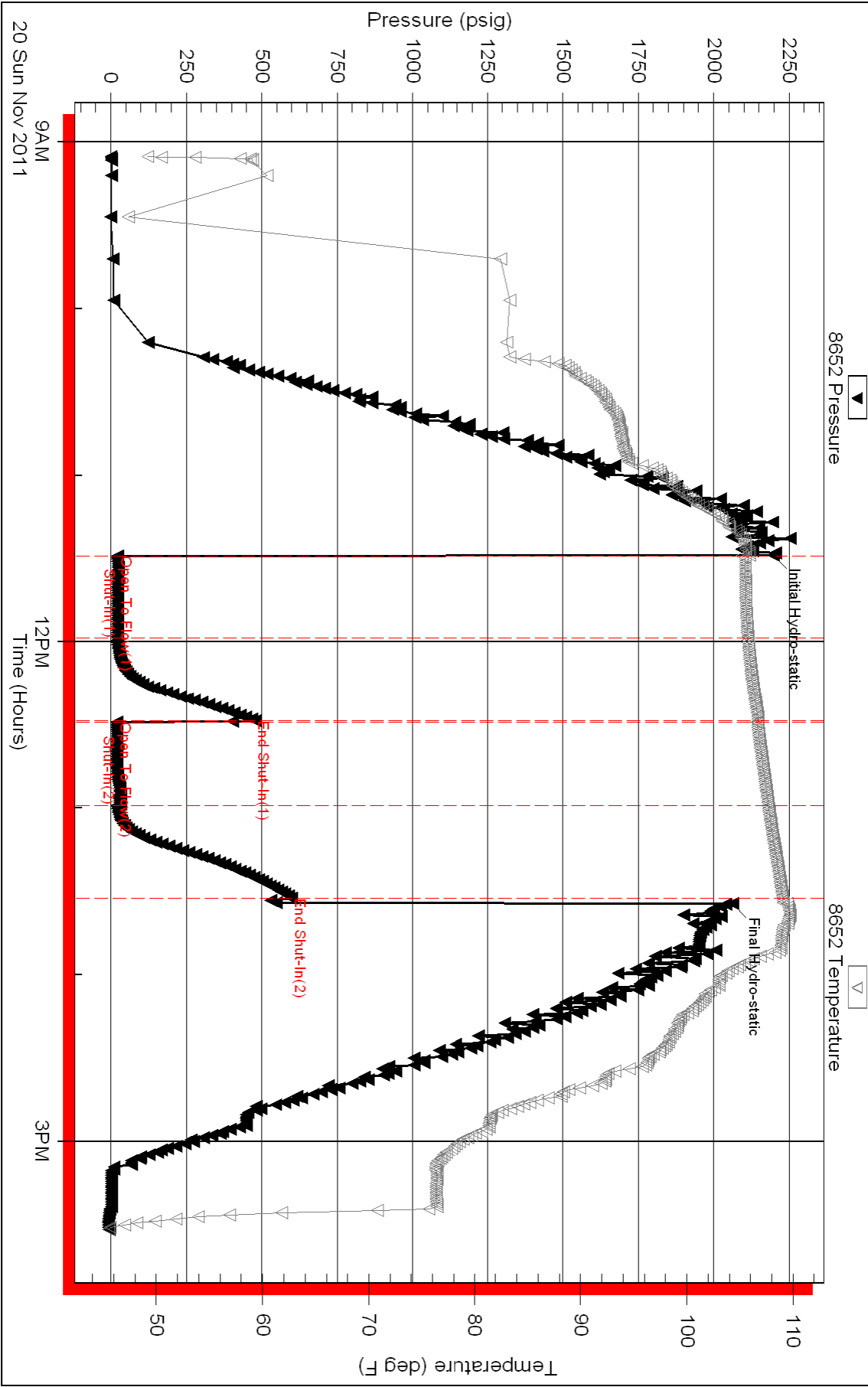
Inside

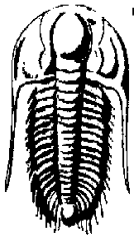
Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 3

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 45361

DST#: 4

Test Start: 2011.11.21 @ 12:48:00

GENERAL INFORMATION:

Formation: **Ft Scott-Verdigris**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:00

Time Test Ended: 18:17:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: 4496.00 ft (KB) To 4546.00 ft (KB) (TVD)

Reference Elevations: 3037.00 ft (KB)

Total Depth: 4546.00 ft (KB) (TVD)

3032.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press@RunDepth: 27.56 psig @ 4497.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.21

End Date:

2011.11.21

Last Calib.: 2011.11.21

Start Time: 12:48:05

End Time:

18:17:14

Time On Btm: 2011.11.21 @ 15:01:30

Time Off Btm: 2011.11.21 @ 16:22:00

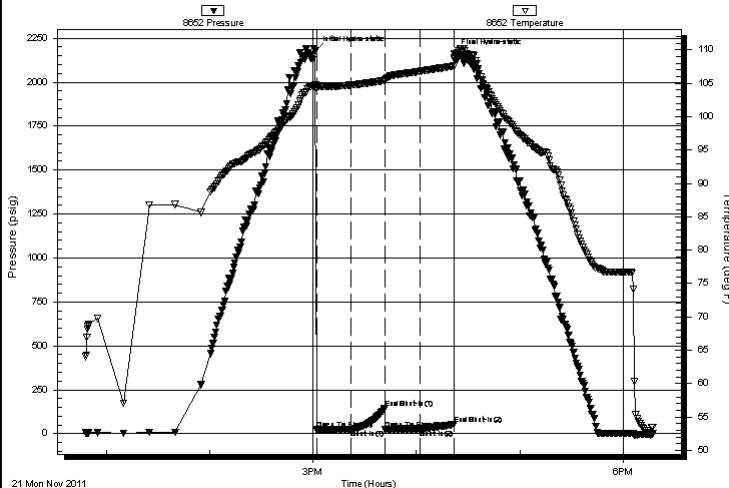
TEST COMMENT: IF: Surface blow, Died @ 10 minutes.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.39	104.82	Initial Hydro-static
1	22.67	104.23	Open To Flow (1)
21	24.18	104.73	Shut-In(1)
40	145.12	105.42	End Shut-In(1)
41	26.65	105.48	Open To Flow (2)
61	27.56	106.77	Shut-In(2)
81	52.87	107.57	End Shut-In(2)
81	2161.65	108.64	Final Hydro-static

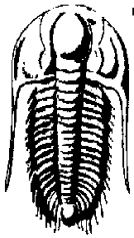
Recovery

Length (ft)	Description	Volume (bbl)
10.00	ocm 25o 75m	0.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy

#1-27 Riner

Bldg 600

Job Ticket: 45361

DST#: 4

Wichita, Ks 67206

Test Start: 2011.11.21 @ 12:48:00

ATTN: Steve Carl

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	ocm 25o 75m	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:

Serial #: 8652

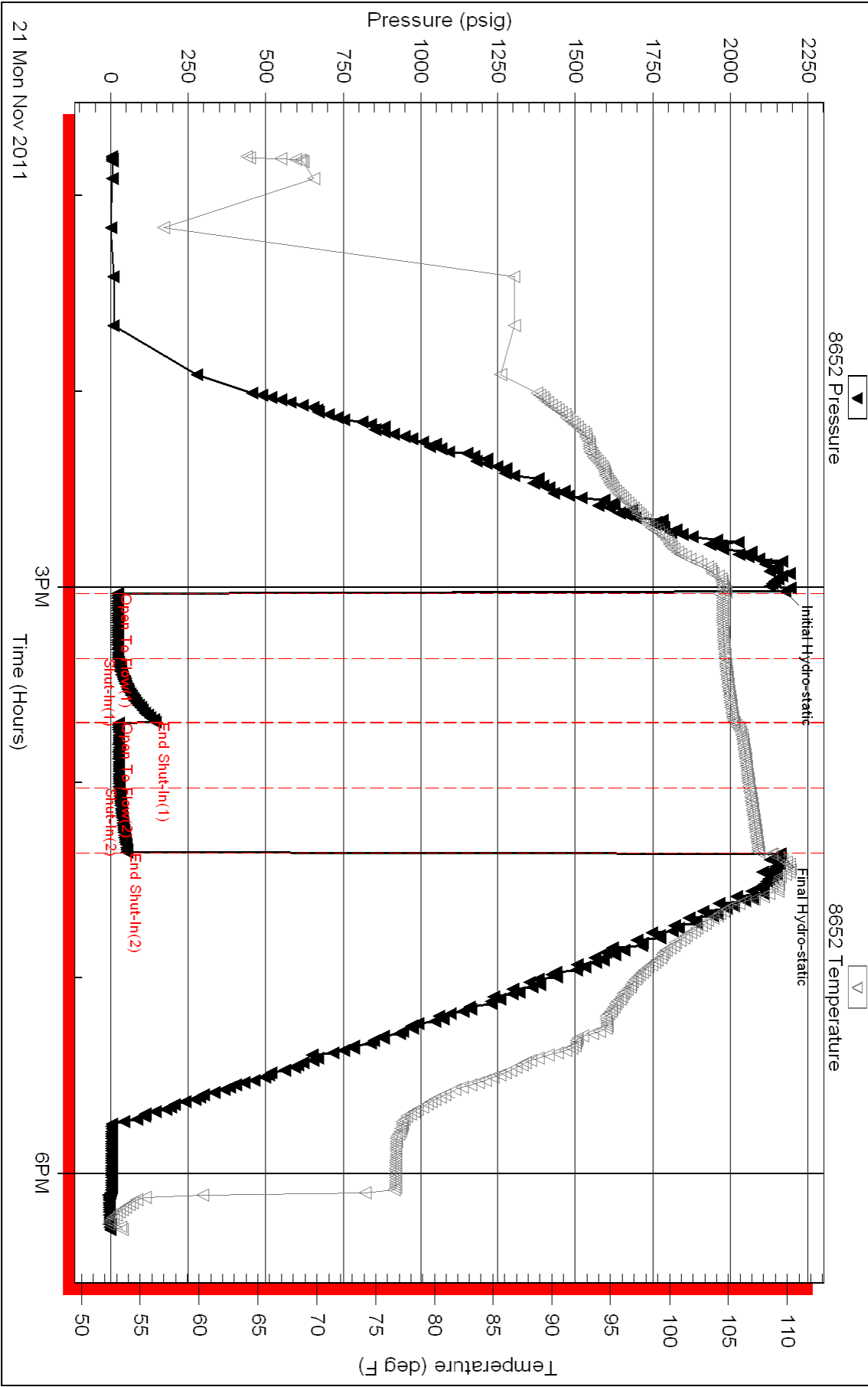
Inside

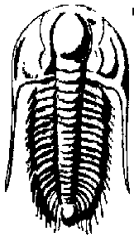
Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 4

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 35362

DST#: 5

Test Start: 2011.11.22 @ 07:41:00

GENERAL INFORMATION:

Formation: **Johnson-Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:01:30

Time Test Ended: 13:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: **4574.00 ft (KB) To 4660.00 ft (KB) (TVD)**

Total Depth: 4660.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Good

Reference Elevations: 3037.00 ft (KB)

3032.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8652** Inside

Press@RunDepth: 33.27 psig @ 4575.00 ft (KB)

Start Date: 2011.11.22

End Date:

2011.11.22

Start Time: 07:41:05

End Time:

13:32:29

Capacity: 8000.00 psig

Last Calib.: 2011.11.22

Time On Btm: 2011.11.22 @ 10:01:00

Time Off Btm: 2011.11.22 @ 11:28:00

TEST COMMENT: IF: Surface blow, died @ 12 minutes.

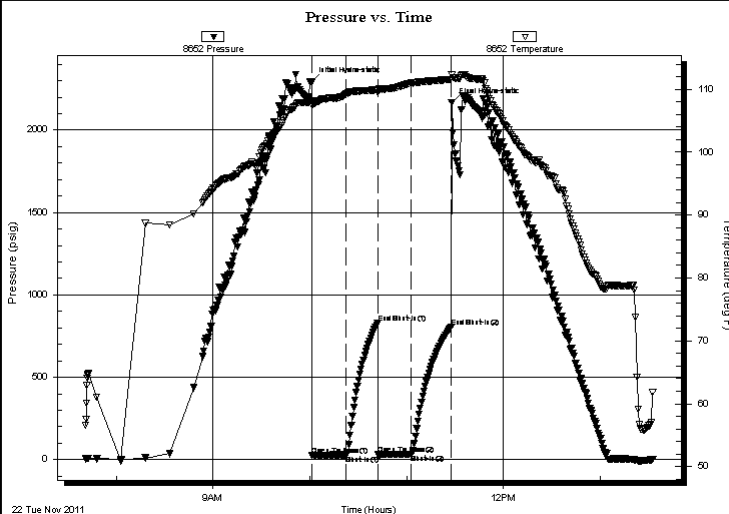
IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.64	108.12	Initial Hydro-static
1	25.66	107.49	Open To Flow (1)
22	29.04	109.22	Shut-In(1)
41	827.72	109.94	End Shut-In(1)
42	30.50	109.50	Open To Flow (2)
62	33.27	110.98	Shut-In(2)
87	803.28	111.60	End Shut-In(2)
87	2168.47	112.25	Final Hydro-static



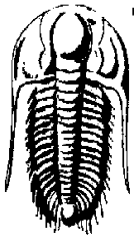
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100m (oil spots)	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy

#1-27 Riner

Bldg 600

Job Ticket: 35362

DST#: 5

Wichita, Ks 67206

Test Start: 2011.11.22 @ 07:41:00

ATTN: Steve Carl

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100m (oil spots)	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

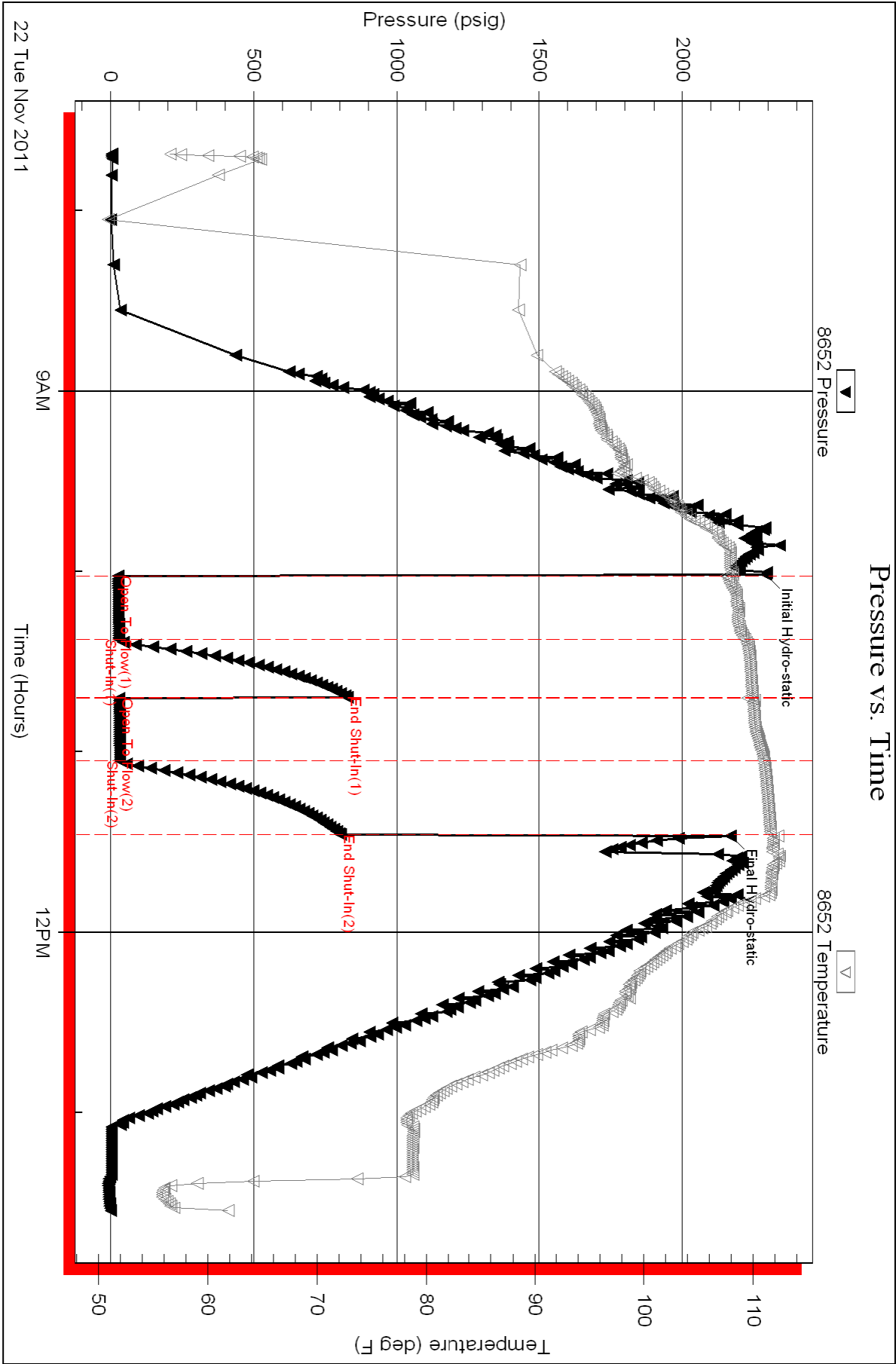
Serial #: 8652

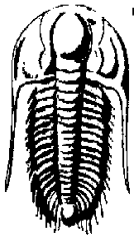
Inside

Grand Mesa Operating Co

#1-27 Riner

DST Test Number: 5





TRILOBITE
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DRILL STEM TEST REPORT

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy
Bldg 600
Wichita, Ks 67206
ATTN: Steve Carl

#1-27 Riner

Job Ticket: 35363

DST#: 6

Test Start: 2011.11.23 @ 01:42:00

GENERAL INFORMATION:

Formation: **St Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:15

Time Test Ended: 09:03:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 40

Interval: **4722.00 ft (KB) To 4750.00 ft (KB) (TVD)**

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Good

Reference Elevations: 3037.00 ft (KB)

3032.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8652** Inside

Press@RunDepth: 28.50 psig @ 4723.00 ft (KB)

Start Date: 2011.11.23

End Date:

2011.11.23

Start Time: 01:42:05

End Time:

09:03:14

Capacity: 8000.00 psig

Last Calib.: 2011.11.23

Time On Btm: 2011.11.23 @ 04:06:00

Time Off Btm: 2011.11.23 @ 06:25:30

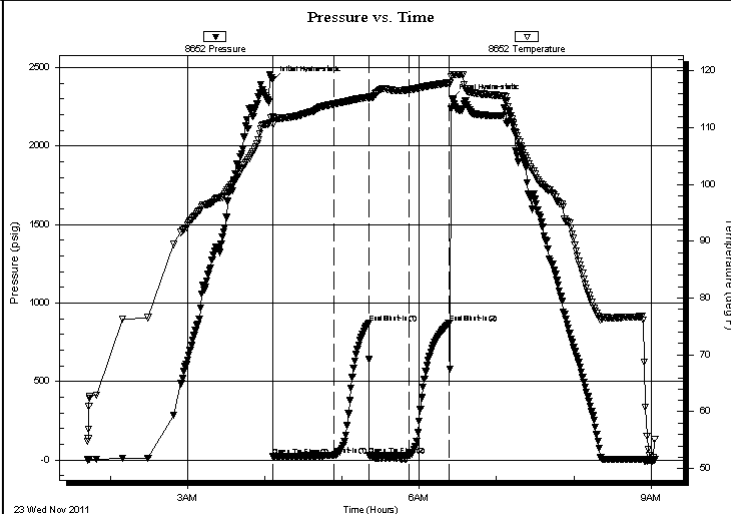
TEST COMMENT: IF: 1/2 inch blow, died @ 40 minutes.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2420.31	112.00	Initial Hydro-static
1	24.85	110.64	Open To Flow (1)
48	31.42	114.20	Shut-In(1)
75	874.57	115.35	End Shut-In(1)
75	29.47	115.11	Open To Flow (2)
106	28.50	116.67	Shut-In(2)
137	871.43	117.89	End Shut-In(2)
140	2300.17	119.24	Final Hydro-static

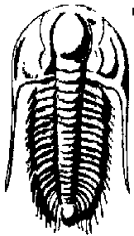
Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud 100m (oil spots)	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co

27 16s 37w Scott, Ks

1700 N Waterfront Pkwy

#1-27 Riner

Bldg 600

Job Ticket: 35363

DST#: 6

Wichita, Ks 67206

Test Start: 2011.11.23 @ 01:42:00

ATTN: Steve Carl

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud 100m (oil spots)	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

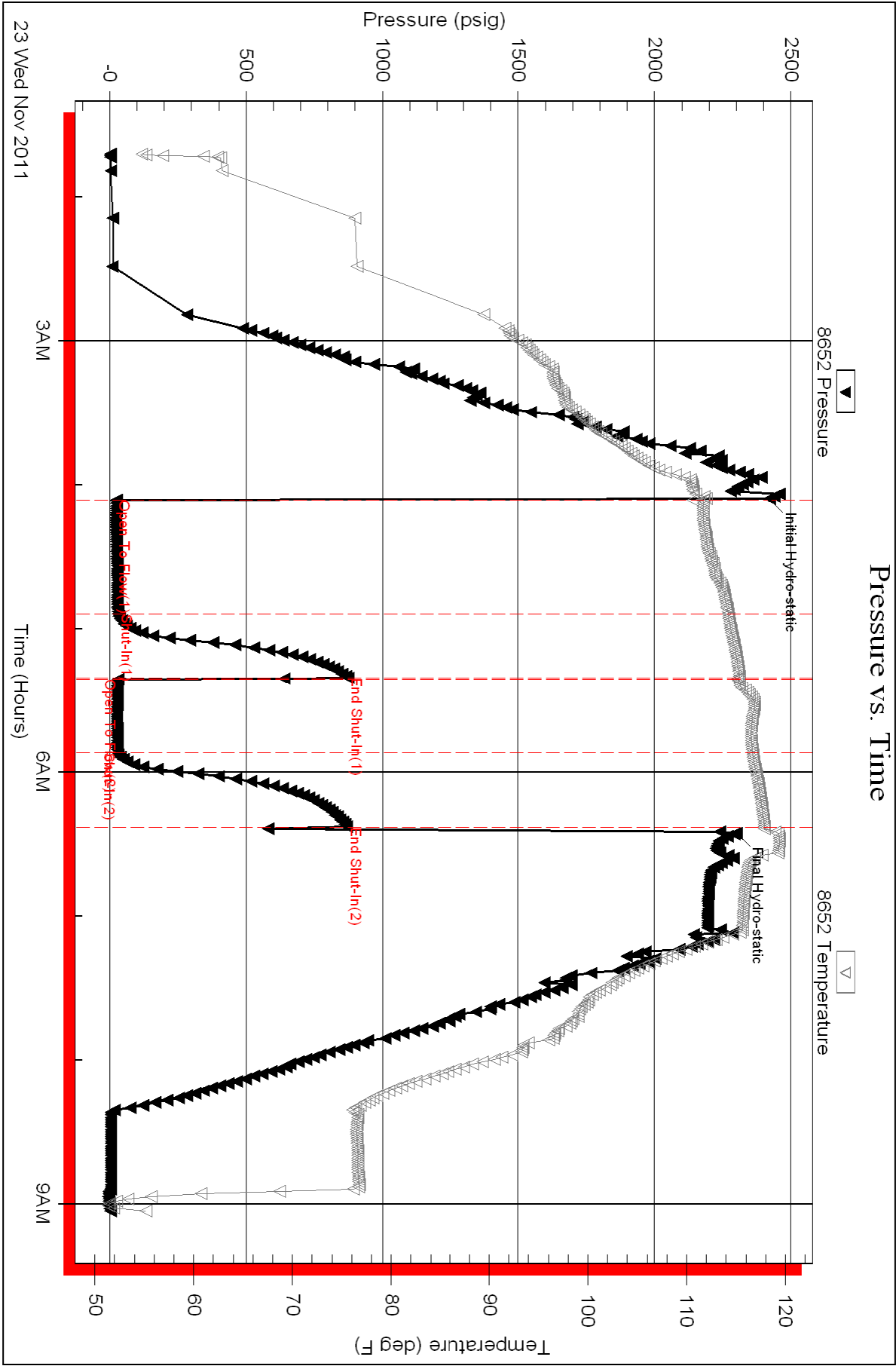
Serial #: 8652

Inside

Grand Mesa Operating Co

#1-27 Riner

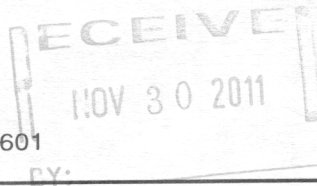
DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601



Test Ticket

NO. 45358

Well Name & No. Riner #1-27 Test No. 1 Date 11/18/11
Company Grand Mesa Elevation 3037 KB 3032 GL
Address 1700 N Waterfront Pkwy Bldg 600 Wichita, KS 67206
Co. Rep / Geo. Steve Catl 33W Rig Muffin 24
Location: Sec. 27 Twp. 16S Rge. 37W Co. Scott State KS

Interval Tested 4067 4110 Zone Tested LKC - E-F
Anchor Length 43 Drill Pipe Run 3900 Mud Wt. 8.6
Top Packer Depth 4062 Drill Collars Run 118 Vis 70
Bottom Packer Depth 4067 Wt. Pipe Run Ø WL 4.8
Total Depth 4110 Chlorides 6000 ppm System LCM 3#

Blow Description IF! BOB @ 6 min.
ISI! No return.
FF! BOB @ 7 minutes
FSI! No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1080</u>	<u>mcw</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1080 BHT 118 Gravity — API RW .220 @ 67 °F Chlorides 34000 ppm

(A) Initial Hydrostatic 1951
(B) First Initial Flow 36
(C) First Final Flow 294
(D) Initial Shut-In 1105
(E) Second Initial Flow 308
(F) Second Final Flow 521
(G) Final Shut-In 1106
(H) Final Hydrostatic 1909

☒ Test 1225
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub 14C
☐ Hourly Standby
☒ Mileage 34/RT 47.00
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1497.60

T-On Location 0806
T-Started 0847
T-Open 1103
T-Pulled 1333
T-Out 1610
Comments

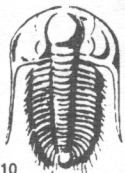
Initial Open 30
Initial Shut-In 45
Final Flow 30
Final Shut-In 45

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total Ø
Total 1497.60
MP/DST Disc't

Approved By

Our Representative

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Test Ticket

NO. 45359

Well Name & No. Riner #1-27 Test No. 2 Date 11/19/11
 Company Grand Mesa Operating Co Elevation 3037 KB 3032 GL
 Address 1700 N Waterfront Hwy Bldg 600 Wichita KS 67206
 Co. Rep / Geo. Steve Carl Rig Martin 24
 Location: Sec. 27 Twp. 16S Rge. 37W Co. Scott State KS

Interval Tested 4252 4300 Zone Tested Swope
 Anchor Length 48 Drill Pipe Run 4120 Mud Wt. 8.9
 Top Packer Depth 4247 Drill Collars Run 118 Vis 65
 Bottom Packer Depth 4252 Wt. Pipe Run 0 WL 4.8
 Total Depth 4300 Chlorides 6200 ppm System LCM 4#

Blow Description IF: BOB @ 28 minutes.
ISI No return.
FF 8" blow.
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>new (OIL SPOTS)</u>		<u>90</u>	<u>10</u>	

Rec Total 420 BHT 117 Gravity ✓ API RW .192 @ 59 °F Chlorides 45000 ppm
 (A) Initial Hydrostatic 2090 ☒ Test 1225' T-On Location 1230
 (B) First Initial Flow 27 ☒ Jars 250' T-Started 1358
 (C) First Final Flow 116 ☒ Safety Joint 75' T-Open 1603
 (D) Initial Shut-In 1143 ☒ Circ Sub 11/2 T-Pulled 1903
 (E) Second Initial Flow 120 ☐ Hourly Standby T-Out 2108
 (F) Second Final Flow 206 ☒ Mileage 34 RT 47.60 Comments
 (G) Final Shut-In 1135 ☐ Sampler
 (H) Final Hydrostatic 2005 ☐ Straddle ☐ Ruined Shale Packer
☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies
☐ Extra Recorder Sub Total 0
☐ Day Standby Total 1597.60
☐ Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Approved By [Signature]

Our Representative [Signature]

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Test Ticket

NO. 45360

Well Name & No. Ryner #1-27 Test No. 3 Date 11/20/11
Company Grand Mesa Operating Co. Elevation 3037 KB 3032 GL
Address 1700 N Waterfront Pkwy Bldg 600 Wichita, Ks 67206
Co. Rep / Geo. Steve Carl Rig Murkin 24
Location: Sec. 27 Twp. 16s Rge. 37w Co. Scott State Ks

Interval Tested 4331 ~ 4353 Zone Tested Pleasanton
Anchor Length 22 Drill Pipe Run 4210 Mud Wt. 9.1
Top Packer Depth 4326 Drill Collars Run 118 Vis 76
Bottom Packer Depth 4331 Wt. Pipe Run 0 WL 8.8
Total Depth 4353 Chlorides 8500 ppm System LCM 2#
Blow Description TF! Surface blow, died @ 9 min.
TSI! No return
FF! Surface blow, died @ 8 min
FSI! No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2197</u>	<u>23</u>	<u>22</u>	<u>478</u>	<u>21</u>	<u>20</u>	<u>600</u>	<u>2063</u>

☒ Test 1225
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub N/C
☐ Hourly Standby
☒ Mileage 34 R/T 47.60
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

T-On Location 0830
T-Started 0905
T-Open 1127
T-Pulled 1327
T-Out 1532
Comments

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

Approved By

Our Representative

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RECEIVED
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Test Ticket

NO. 45361

Well Name & No. Riner #1-27 Test No. 4 Date 4/21/11
 Company Grand Mesa Operating Co Elevation 3037 KB 3032 GL
 Address 1700 N Waterfront Pkwy Bldg 600 Wichita, Ks 67206
 Co. Rep / Geo. Steve Carl Rig Murkin 24
 Location: Sec. 27 Twp. 16s Rge. 37w Co. Scott State Ks

Interval Tested 4496-4546 Zone Tested Ft Scott - Verdigris
 Anchor Length 50 Drill Pipe Run 4469 Mud Wt. 9.1
 Top Packer Depth 4491 Drill Collars Run 118 Vis 52
 Bottom Packer Depth 4496 Wt. Pipe Run 0 WL 8.0
 Total Depth 4546 Chlorides 5000 ppm System LCM 4#
 Blow Description IF: Surface blow, Died @ 10 min.
IST: No return.
FF: No blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0cm</u>	<u>25</u>		<u>75</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 105 Gravity — API RW — @ — °F Chlorides — ppm

Test	Value	Test	Value
(A) Initial Hydrostatic	<u>2177</u>	☒ Test	<u>1825</u>
(B) First Initial Flow	<u>23</u>	☒ Jars	<u>250</u>
(C) First Final Flow	<u>24</u>	☒ Safety Joint	<u>78</u>
(D) Initial Shut-In	<u>145</u>	☒ Circ Sub	<u>N/C</u>
(E) Second Initial Flow	<u>27</u>	☐ Hourly Standby	<u>34 R/T</u>
(F) Second Final Flow	<u>28</u>	☒ Mileage	<u>34 R/T 47.00</u>
(G) Final Shut-In	<u>53</u>	☐ Sampler	
(H) Final Hydrostatic	<u>2162</u>	☐ Straddle	

Initial Open 20
 Initial Shut-In 20
 Final Flow 20
 Final Shut-In 20

☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
 Sub Total 1597.60

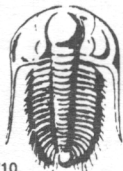
T-On Location 1130
 T-Started 1148
 T-Open 1402
 T-Pulled 1522
 T-Out 1817

Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
 Sub Total 0
 Total 1597.60
 MP/DST Disc't

Approved By [Signature]

Our Representative [Signature]

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RECEIVED
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Test Ticket

NO. 45362

Well Name & No. Riner #1-27 Test No. 5 Date 11/22/11
 Company Grand Mega Operating Co Elevation 3037 KB 3032 GL
 Address 1700 N Waterfront Pkwy Bldg 600 Wichita, KS 67206
 Co. Rep / Geo. Steve Carl Rig Murfin 24
 Location: Sec. 27 Twp. 16S Rge. 37W Co. Scott State KS

Interval Tested 4574-4660 Zone Tested Johnson - Atoka
 Anchor Length 86 Drill Pipe Run 4458 Mud Wt. 9.0
 Top Packer Depth 4569 Drill Collars Run 118 Vis 59
 Bottom Packer Depth 4574 Wt. Pipe Run Ø WL 7.2
 Total Depth 4660 Chlorides 5800 ppm System LCM 4#
 Blow Description IF: Surface blow, Died @ 12 min.
ISI: No return.
FF: No blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD (OIL SPOTS)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

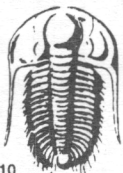
Rec Total 5 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2292 ☒ Test 1225 T-On Location 0700
 (B) First Initial Flow 26 ☒ Jars 250 T-Started 0741
 (C) First Final Flow 29 ☒ Safety Joint 75 T-Open 1102
 (D) Initial Shut-In 628 ☒ Circ Sub N/C T-Pulled 1222
 (E) Second Initial Flow 31 ☐ Hourly Standby — T-Out 1332
 (F) Second Final Flow 33 ☒ Mileage 34 RT 47.60 Comments —
 (G) Final Shut-In 803 ☐ Sampler —
 (H) Final Hydrostatic 2168 ☐ Straddle —
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —

Initial Open 20
 Initial Shut-In 20
 Final Flow 20
 Final Shut-In 20

Approved By [Signature]

Our Representative [Signature]

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RECEIVED
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Test Ticket

NO. 45363

Well Name & No. Riner # 1-27 Test No. 6 Date 11-23-11
Company Grand Mesa Operating Co Elevation 3037 KB 3032 GL
Address 1700 N Waterfront Pkwy Bldg 600 Wichita, KS 67206
Co. Rep / Geo. Steve Carl Rig Mudra 24
Location: Sec. 27 Twp. 16S Rge. 37W Co. Scott State Ks

Interval Tested 4722- 4750 Zone Tested St Louis
Anchor Length 28 Drill Pipe Run 4519 Mud Wt. 9.0
Top Packer Depth 4717 Drill Collars Run 1/6 Vis 59
Bottom Packer Depth 4722 Wt. Pipe Run 0 WL 7.2
Total Depth 4750 Chlorides 5800 ppm System LCM 4#

Blow Description IF: 1/2" blow, dnd @ 40 min
ISI: No return
FF: No blow.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MUD (oil spots)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 115 Gravity — API RW — @ — °F Chlorides 0 ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>2420</u>	<u>25</u>	<u>31</u>	<u>875</u>	<u>29</u>	<u>29</u>	<u>871</u>	<u>2300</u>

☒ Test 1225
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub N/C
☐ Hourly Standby
☒ Mileage 34 qt 47.60
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

T-On Location 0030
T-Started 0142
T-Open 0406
T-Pulled 0621
T-Out 0903
Comments _____

Initial Open 45
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

Sub Total 1597.60

Approved By [Signature] Our Representative [Signature]

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