



DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corporation**

502 S Fillmore St.
Enid, OK 73703

ATTN: Larry Nicholson

Hoyt #4-16

16 6s 37w Thomas,KS

Start Date: 2013.09.03 @ 10:40:00

End Date: 2013.09.03 @ 18:41:45

Job Ticket #: 54990 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.09 @ 13:07:50

Ward Petroleum Corporation
16 6s 37w Thomas,KS
Hoyt #4-16
DST # 1
LKC - 1
2013.09.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54990

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.09.03 @ 10:40:00

GENERAL INFORMATION:

Formation: **LKC - I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:59:00

Time Test Ended: 18:41:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4426.00 ft (KB) To 4453.00 ft (KB) (TVD)

Reference Elevations: 3435.00 ft (KB)

Total Depth: 4453.00 ft (KB) (TVD)

3423.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 103.52 psig @ 4431.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.03

End Date:

2013.09.03

Last Calib.: 2013.09.03

Start Time: 10:40:05

End Time:

18:41:44

Time On Btm: 2013.09.03 @ 12:58:30

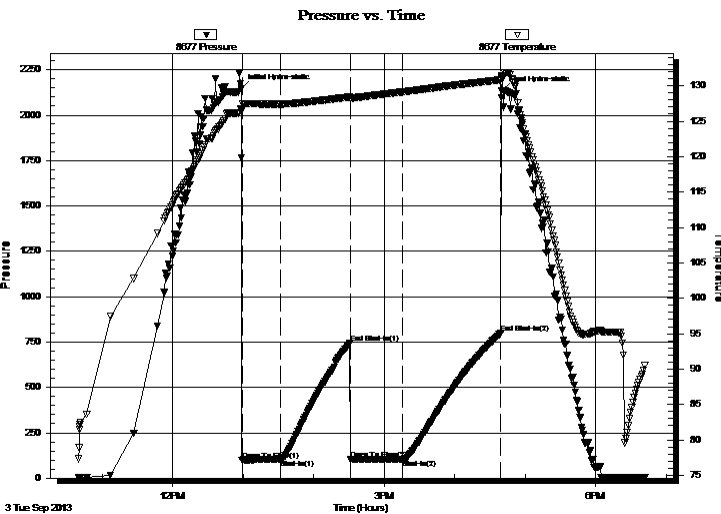
Time Off Btm: 2013.09.03 @ 16:40:15

TEST COMMENT: IF: Slid 10' - 4 1/2" receded to 1 1/2".

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.50	126.69	Initial Hydro-static
1	99.23	126.55	Open To Flow (1)
33	102.88	127.41	Shut-In(1)
93	743.19	128.43	End Shut-In(1)
93	101.90	128.18	Open To Flow (2)
137	103.52	129.12	Shut-In(2)
221	799.86	130.83	End Shut-In(2)
222	2134.41	131.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud 100m (oil specs)	0.64

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas, KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

ATTN: Larry Nicholson

Job Ticket: 54990

DST#: 1

Test Start: 2013.09.03 @ 10:40:00

GENERAL INFORMATION:

Formation: LKC - I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:59:00

Time Test Ended: 18:41:45

Interval: 4426.00 ft (KB) To 4453.00 ft (KB) (TVD)

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Reference Elevations: 3435.00 ft (KB)

3423.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8522

Outside

Press @ Run Depth: psig @ 4431.00 ft (KB)

Start Date: 2013.09.03

End Date:

2013.09.03

Start Time: 10:40:05

End Time:

18:42:59

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

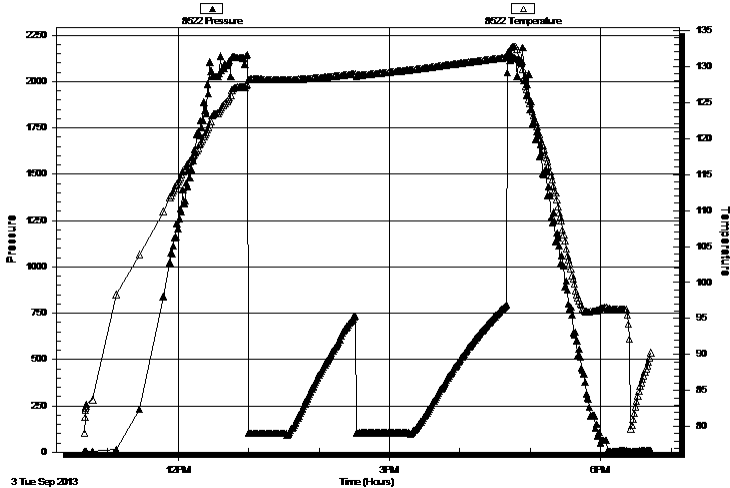
TEST COMMENT: IF: Slid 10' - 4 1/2" receded to 1 1/2".

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud 100m (oil specs)	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54990

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.09.03 @ 10:40:00

Tool Information

Drill Pipe:	Length: 4059.00 ft	Diameter: 3.80 inches	Volume: 56.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4426.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4404.00	
Shut In Tool	5.00			4409.00	
Hydraulic tool	5.00			4414.00	
Jars	5.00			4419.00	
Safety Joint	2.00			4421.00	
Packer	5.00			4426.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	8677	Inside	4431.00	
Recorder	0.00	8522	Outside	4431.00	
Perforations	23.00			4454.00	
Bullnose	3.00			4457.00	31.00 Anchor Tool

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54990

DST#: 1

ATTN: Larry Nicholson

Test Start: 2013.09.03 @ 10:40:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud 100m (oil specs)	0.639

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

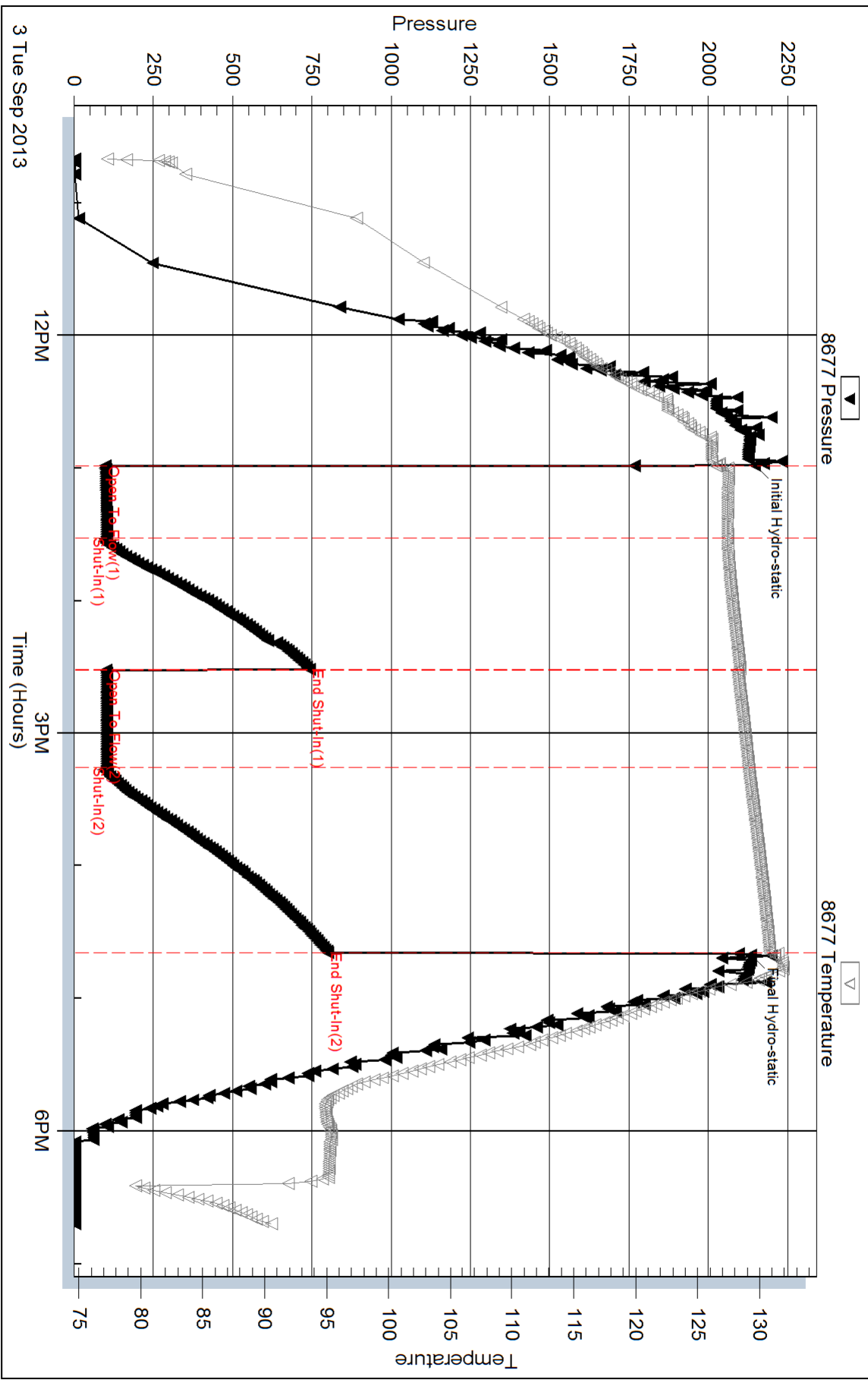
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

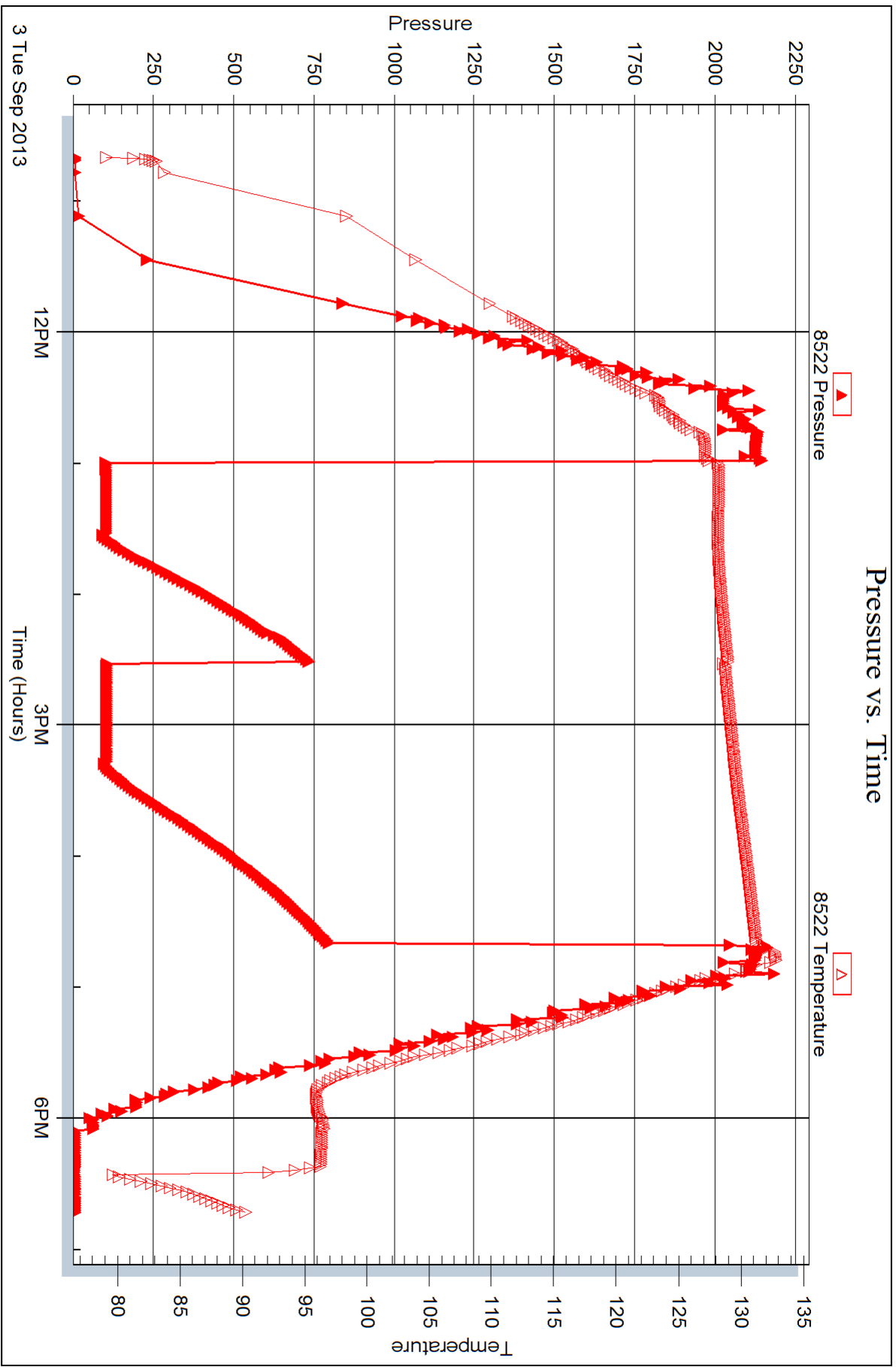


Serial #: 8522

Outside Ward Petroleum Corporation

Hoyt#4-16

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54990

Printed: 2013.09.09 @ 13:07:52



DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corporation**

502 S Fillmore St.
Enid, OK 73703

ATTN: Larry Nicholson

Hoyt #4-16

16 6s 37w Thomas,KS

Start Date: 2013.09.04 @ 12:57:00

End Date: 2013.09.04 @ 23:10:30

Job Ticket #: 54991 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.09 @ 13:10:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas, KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54991

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.09.04 @ 12:57:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:27:30

Time Test Ended: 23:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4585.00 ft (KB) To 4629.00 ft (KB) (TVD)

Reference Elevations: 3435.00 ft (KB)

Total Depth: 4453.00 ft (KB) (TVD)

3423.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 471.42 psig @ 4590.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.04

End Date:

2013.09.04

Last Calib.: 2013.09.04

Start Time: 12:57:05

End Time:

23:10:30

Time On Btm: 2013.09.04 @ 15:27:15

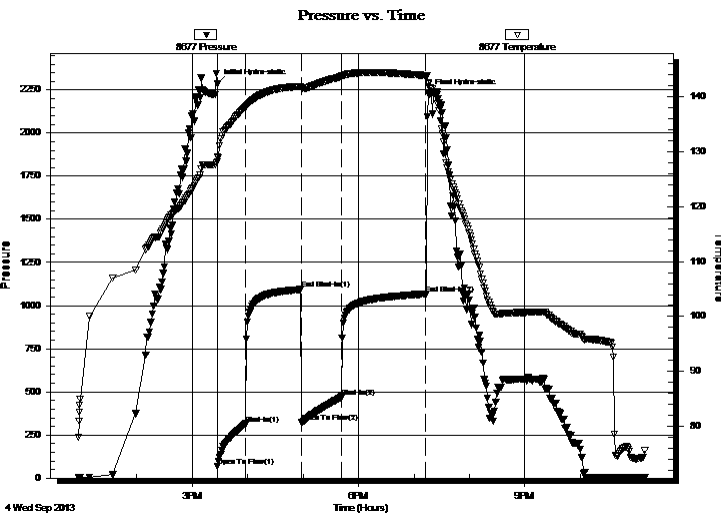
Time Off Btm: 2013.09.04 @ 19:15:45

TEST COMMENT: IF: BOB @ 4 1/2 min.

IS: 3" return.

FF: BOB @ 7 min.

FS: 3 1/2" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.61	128.99	Initial Hydro-static
1	70.12	128.16	Open To Flow (1)
31	315.13	138.12	Shut-In(1)
91	1093.48	141.88	End Shut-In(1)
92	321.43	141.64	Open To Flow (2)
135	471.42	143.68	Shut-In(2)
226	1067.93	143.88	End Shut-In(2)
229	2228.93	142.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	mcw 10o 5m 85w	5.61
430.00	go 20g 80o	6.03
0.00	590' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
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DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

ATTN: Larry Nicholson

Job Ticket: 54991

DST#: 2

Test Start: 2013.09.04 @ 12:57:00

GENERAL INFORMATION:

Formation: **Marmaton**

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Time Tool Opened: 15:27:30

Time Test Ended: 23:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4585.00 ft (KB) To 4629.00 ft (KB) (TVD)

Total Depth: 4453.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3435.00 ft (KB)

3423.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8522 Outside

Press @ Run Depth: psig @ 4590.00 ft (KB)

Start Date: 2013.09.04

End Date:

2013.09.04

Capacity: 8000.00 psig

Last Calib.:

2013.09.04

Start Time: 12:57:05

End Time:

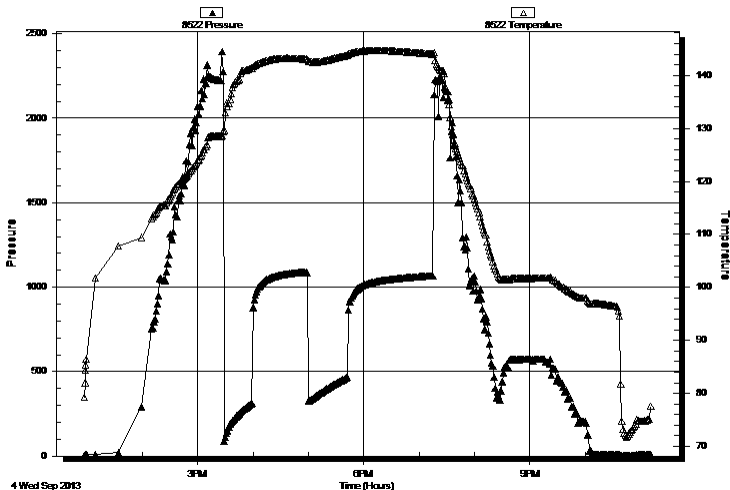
23:12:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 4 1/2 min.
IS: 3" return.
FF: BOB @ 7 min.
FS: 3 1/2" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
640.00	mcw 10o 5m 85w	5.61
430.00	go 20g 80o	6.03
0.00	590' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54991

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.09.04 @ 12:57:00

Tool Information

Drill Pipe:	Length: 4220.00 ft	Diameter: 3.80 inches	Volume: 59.20 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.02 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4585.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4563.00	
Shut In Tool	5.00			4568.00	
Hydraulic tool	5.00			4573.00	
Jars	5.00			4578.00	
Safety Joint	2.00			4580.00	
Packer	5.00			4585.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			4589.00	
Stubb	1.00			4590.00	
Recorder	0.00	8677	Inside	4590.00	
Recorder	0.00	8522	Outside	4590.00	
Perforations	40.00			4630.00	
Bullnose	3.00			4633.00	48.00 Anchor Tool

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54991

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.09.04 @ 12:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

12000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	mocw 10o 5m 85w	5.607
430.00	go 20g 80o	6.032
0.00	590' GIP	0.000

Total Length: 1070.00 ft Total Volume: 11.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .500 @ 74 = 12000ppm

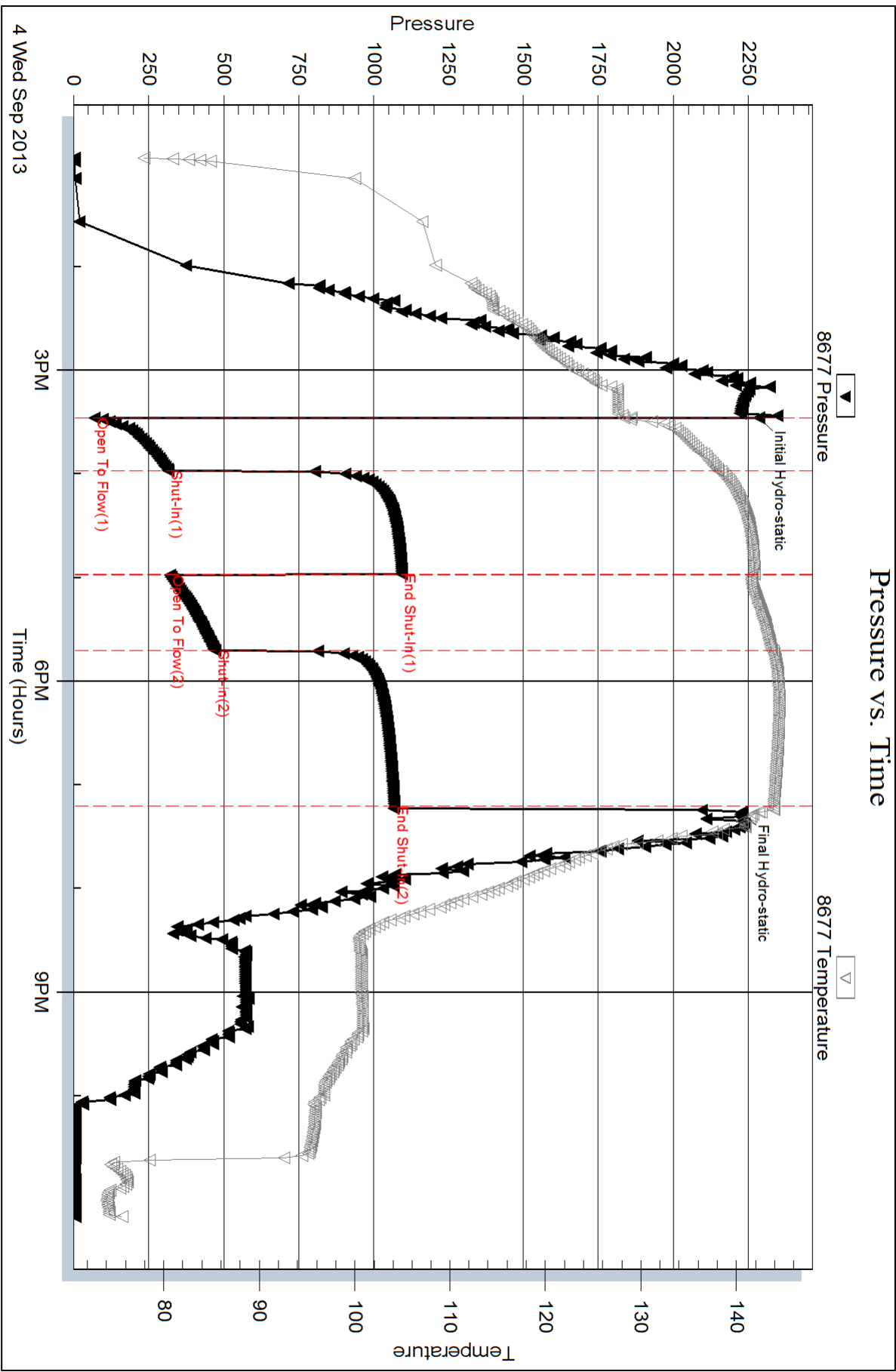
Serial #: 8677

Inside

Ward Petroleum Corporation

Hoyt#4-16

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54991

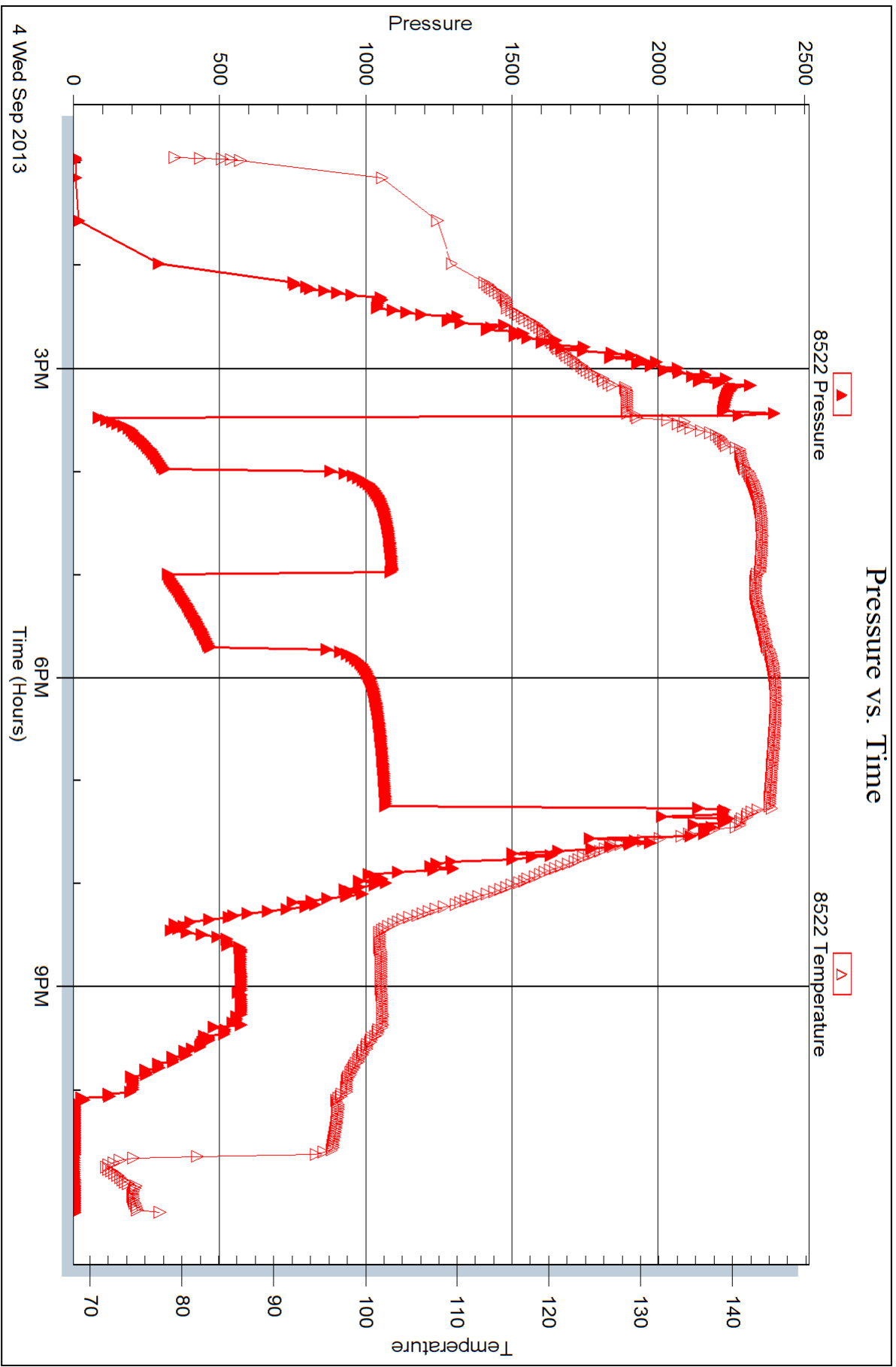
Printed: 2013.09.09 @ 13:10:38

Serial #: 8522

Outside Ward Petroleum Corporation

Hoyt#4-16

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ward Petroleum Corporation**

502 S Fillmore St.
Enid, OK 73703

ATTN: Larry Nicholson

Hoyt #4-16

16 6s 37w Thomas,KS

Start Date: 2013.09.05 @ 12:41:00

End Date: 2013.09.05 @ 19:35:45

Job Ticket #: 54992 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.09 @ 13:09:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas, KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54992

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.09.05 @ 12:41:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:30

Time Test Ended: 19:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4643.00 ft (KB) To 4698.00 ft (KB) (TVD)

Reference Elevations: 3435.00 ft (KB)

Total Depth: 4698.00 ft (KB) (TVD)

3423.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 70.99 psig @ 4644.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.05

End Date:

2013.09.05

Last Calib.:

2013.09.05

Start Time: 12:41:05

End Time:

19:35:44

Time On Btm:

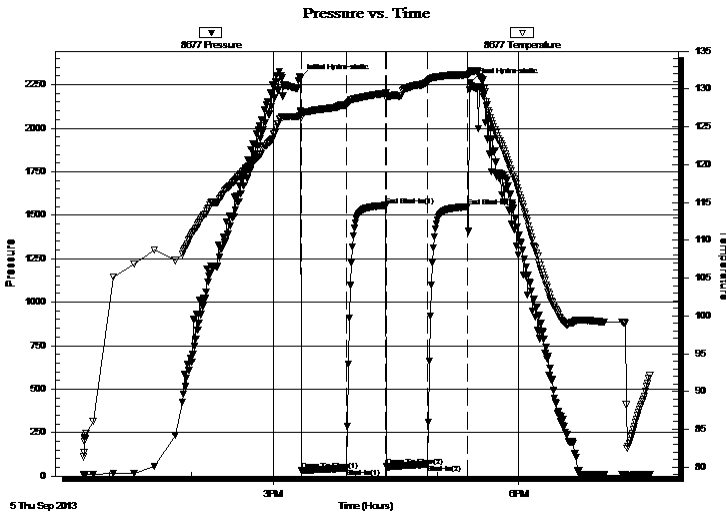
2013.09.05 @ 15:20:00

Time Off Btm:

2013.09.05 @ 17:24:15

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.78	127.15	Initial Hydro-static
1	31.85	126.20	Open To Flow (1)
34	46.47	127.91	Shut-In(1)
63	1556.48	129.45	End Shut-In(1)
63	53.45	128.70	Open To Flow (2)
93	70.99	130.93	Shut-In(2)
123	1549.11	131.90	End Shut-In(2)
125	2260.68	132.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Mud 100m (oil specs)	0.47

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ward Petroleum Corporation

16 6s 37w Thomas, KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54992

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.09.05 @ 12:41:00

GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:20:30

Time Test Ended: 19:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4643.00 ft (KB) To 4698.00 ft (KB) (TVD)**

Reference Elevations: 3435.00 ft (KB)

Total Depth: 4698.00 ft (KB) (TVD)

3423.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: **8522** Outside

Press @ Run Depth: psig @ 4644.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.05

End Date:

2013.09.05

Last Calib.:

2013.09.05

Start Time: 12:41:05

End Time:

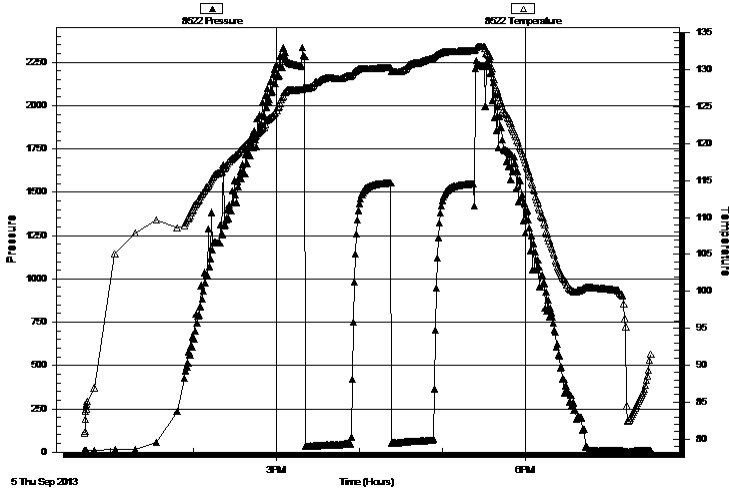
19:30:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Mud 100m (oil specs)	0.47

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ward Petroleum Corporation

16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54992

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.09.05 @ 12:41:00

Tool Information

Drill Pipe:	Length: 4276.00 ft	Diameter: 3.80 inches	Volume: 59.98 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 61.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4643.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4617.00	
Shut In Tool	5.00			4622.00	
Hydraulic tool	5.00			4627.00	
Jars	5.00			4632.00	
Safety Joint	2.00			4634.00	
Packer	5.00			4639.00	27.00 Bottom Of Top Packer
Packer	4.00			4643.00	
Stubb	1.00			4644.00	
Recorder	0.00	8677	Inside	4644.00	
Recorder	0.00	8522	Outside	4644.00	
Perforations	17.00			4661.00	
Change Over Sub	1.00			4662.00	
Drill Pipe	32.00			4694.00	
Change Over Sub	1.00			4695.00	
Bullnose	3.00			4698.00	55.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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16 6s 37w Thomas,KS

502 S Fillmore St.
Enid, OK 73703

Hoyt #4-16

Job Ticket: 54992

DST#: 3

ATTN: Larry Nicholson

Test Start: 2013.09.05 @ 12:41:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Mud 100m (oil specs)	0.467

Total Length: 95.00 ft Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

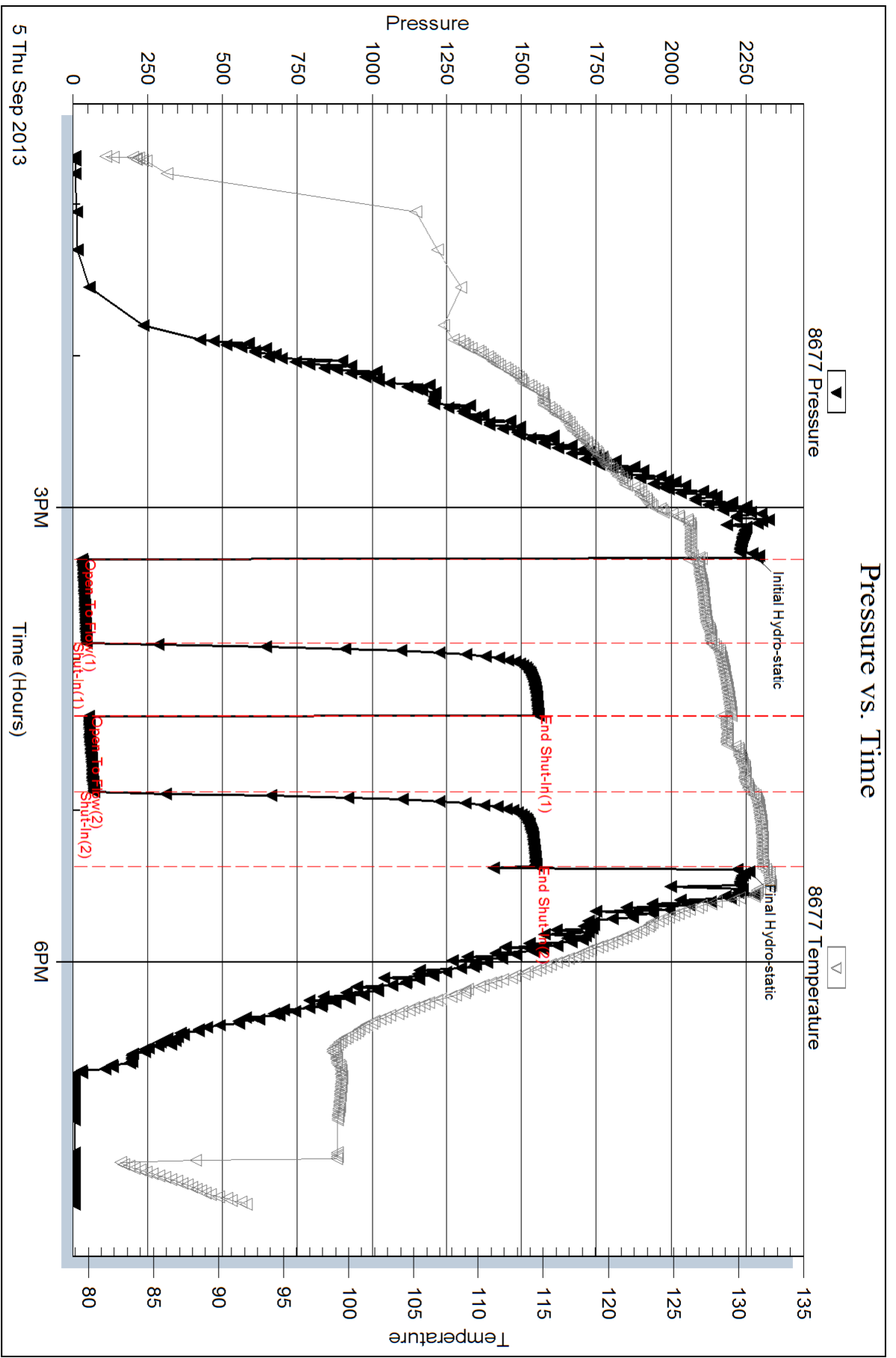
Serial #: 8677

Inside

Ward Petroleum Corporation

Hoyt #4-16

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54992

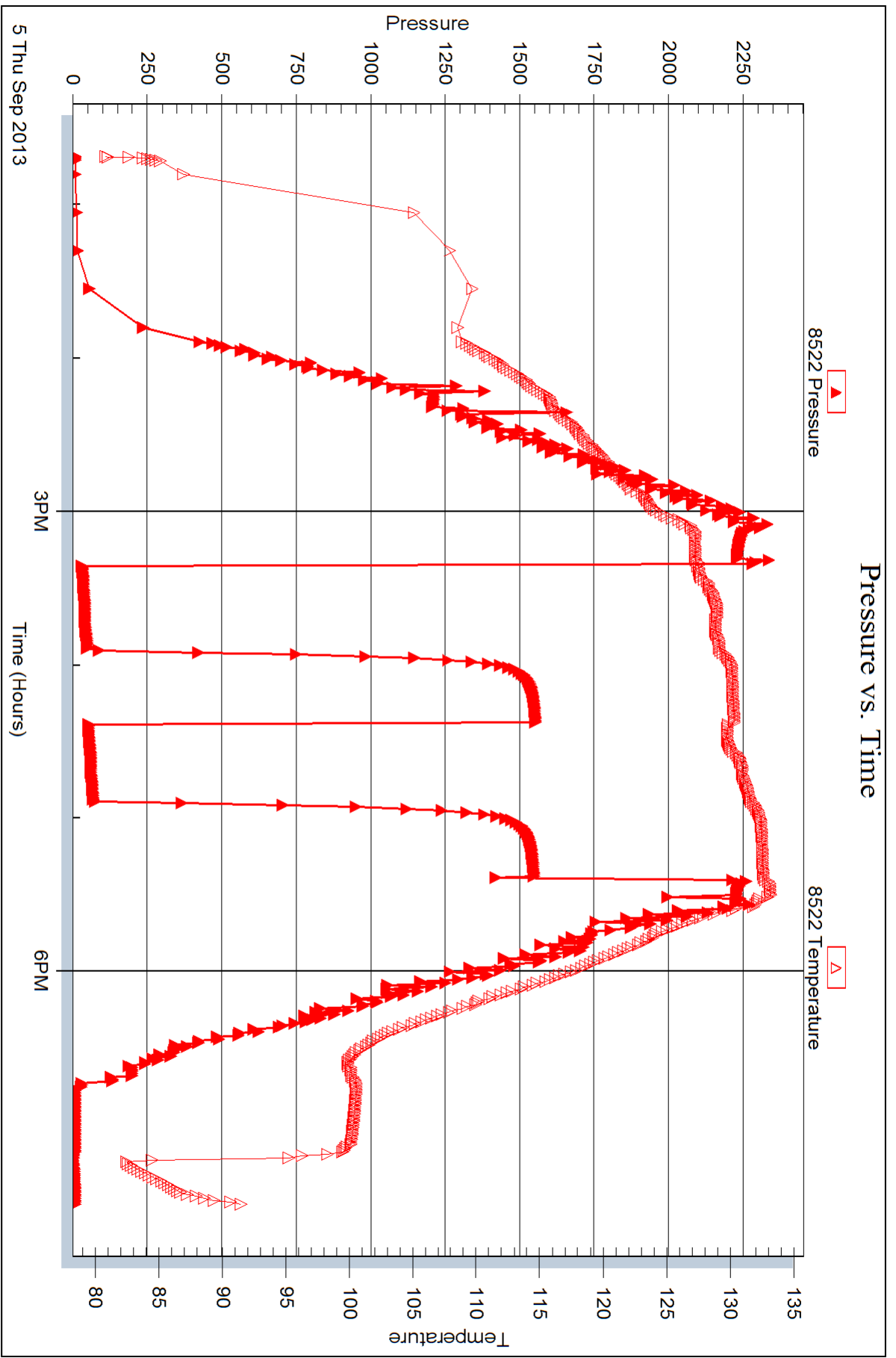
Printed: 2013.09.09 @ 13:09:37

Serial #: 8522

Outside Ward Petroleum Corporation

Hoyt#4-16

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 54992

Printed: 2013.09.09 @ 13:09:37



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54990

Well Name & No. Hoyt #4-16 Test No. 1 Date 9/03/13
 Company Ward Petroleum Corporation Elevation 3435 KB 3423 GL
 Address 502 S. Fillmore St Enid, Ok 73703
 Co. Rep / Geo. Larry Nicholson Rig H2 #1
 Location: Sec. 16 Twp. 6S Rge. 37W Co. Thomas State Ks

Interval Tested 4426 - 4453 Zone Tested LKC - I
 Anchor Length 27 Drill Pipe Run 4059 Mud Wt. 9.6
 Top Packer Depth 4421 Drill Collars Run 370 Vis 50
 Bottom Packer Depth 4426 Wt. Pipe Run 0 WL 7.6
 Total Depth 4453 Chlorides 3000 ppm System LCM 2#

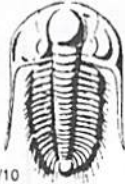
Blow Description IP: slid 10' - 4 1/2" reeled to 1 1/2"
ISI: No return
FF: No blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>MUD (on 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 130 BHT 131 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2147 Test 1250 T-On Location 1010
 (B) First Initial Flow 99 Jars 250 T-Started 1040
 (C) First Final Flow 103 Safety Joint 75 T-Open 1302
 (D) Initial Shut-In 743 Circ Sub 4x used T-Pulled 1647
 (E) Second Initial Flow 102 Hourly Standby _____ T-Out 1842
 (F) Second Final Flow 104 Mileage 213 RT 337.90 Comments Stayed in Colby
 (G) Final Shut-In 800 Sampler _____
 (H) Final Hydrostatic 2134 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2312.90
 Accessibility 150 MP/DST Disc't _____
 Sub Total 2312.90

Approved By Rodriguez Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
DST #1



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54991

Well Name & No. Hoyt #4-16 Test No. 2 Date 9/04/13
 Company Ward Petroleum Corporation Elevation 3435 KB 3423 GL
 Address 502 S. Fillmore St. Enid, OK 73703
 Co. Rep / Geo. Jerry Nicholson Rig H2#1
 Location: Sec. 16 Twp. 65 Rge. 37W Co. Thomas State KS

Interval Tested 4585-4629 Zone Tested Marmaton
 Anchor Length 44 Drill Pipe Run 4220 Mud Wt. 9.2
 Top Packer Depth 4580 Drill Collars Run 370 Vis 51
 Bottom Packer Depth 4585 Wt. Pipe Run 0 WL 7.2
 Total Depth 4629 Chlorides 3,000 ppm System LCM 2#

Blow Description IF: BOB @ 4 1/2 min.
ISI: 3" return.
FF: BOB @ 7 min.
FST: 3 1/2" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>430</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>640</u>	<u>nocw</u>		<u>10</u>	<u>85</u>	<u>5</u>
	<u>590' GIP</u>				

Rec Total 1070 BHT 144 Gravity 25 API RW 1500 @ 74 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic <u>2285</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1215</u>
(B) First Initial Flow <u>70</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1257</u>
(C) First Final Flow <u>315</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1528</u>
(D) Initial Shut-In <u>1093</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>1913</u>
(E) Second Initial Flow <u>321</u>	<input type="checkbox"/> Hourly Standby <u>1h 100</u>	T-Out <u>2312</u>
(F) Second Final Flow <u>471</u>	<input checked="" type="checkbox"/> Mileage <u>218 R/T 337.90</u>	Comments <u>Slayed in Colby</u>
(G) Final Shut-In <u>1068</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2229</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>2462.90</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>2462.90</u>	

Approved By

[Signature]

Our Representative

[Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54992

Well Name & No. Hoyt #4-16 Test No. 3 Date 9/05/13
 Company Ward Petroleum Corporation Elevation 3435 KB 3423 GL
 Address 502 S. Fillmore St. Enid, OK 73703
 Co. Rep / Geo. Larry Nicholson Rig H2 #1
 Location: Sec. 16 Twp. 6S Rge. 37W Co. Thomas State KS

Interval Tested 4643 4698 Zone Tested Pawnee - Ft. Scott
 Anchor Length 55 Drill Pipe Run 4276 Mud Wt. 9.3
 Top Packer Depth 4638 Drill Collars Run 370 Vis 55
 Bottom Packer Depth 4643 Wt. Pipe Run Ø WL 9.2
 Total Depth 4698 Chlorides 3400 ppm System LCM 3#

Blow Description JF: 1" blow
IST: No return.
FF: No blow
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>MOO (OIL SPOTS)</u>			<u>160</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 95 BHT 131 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2288</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>1200</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1241</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1522</u>
(D) Initial Shut-In <u>1556</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1722</u>
(E) Second Initial Flow <u>53</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1936</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>218 RT</u> 337.90	Comments <u>Stayed on Celby</u>
(G) Final Shut-In <u>1549</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2261</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer 350
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer 250	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2662.90</u>
	<input checked="" type="checkbox"/> Accessibility 150	MP/DST Disc't
	Sub Total <u>2312.90</u>	

Approved By

L. Nicholson

Our Representative

[Signature]

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