



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.26 @ 19:06:01

End Date: 2015.03.27 @ 02:15:16

Job Ticket #: 61474 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:10:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61474

DST#: 1

Test Start: 2015.03.26 @ 19:06:01

GENERAL INFORMATION:

Formation: **B**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:12:46
 Time Test Ended: 02:15:16
 Interval: **4163.00 ft (KB) To 4193.00 ft (KB) (TVD)**
 Total Depth: 4193.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

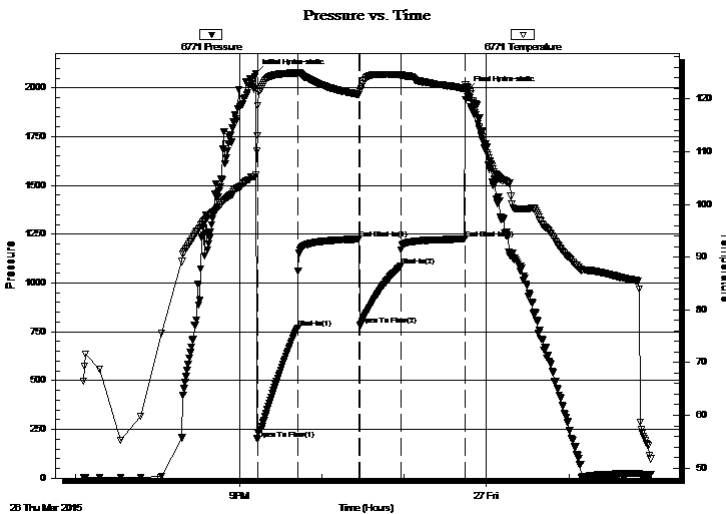
Outside

Press@RunDepth: 1087.43 psig @ 4164.00 ft (KB)
 Start Date: 2015.03.26 End Date: 2015.03.27
 Start Time: 19:06:01 End Time: 02:00:16
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.27
 Time On Btm: 2015.03.26 @ 21:11:46
 Time Off Btm: 2015.03.26 @ 23:45:31

TEST COMMENT: B.O.B. in 2 min.
 No return
 B.O.B. in 3 1/2 min.
 No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.72	105.53	Initial Hydro-static
1	199.09	113.04	Open To Flow (1)
31	767.79	124.90	Shut-In(1)
76	1225.39	120.79	End Shut-In(1)
76	784.80	121.44	Open To Flow (2)
106	1087.43	124.55	Shut-In(2)
153	1225.79	122.01	End Shut-In(2)
154	1985.82	122.24	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
2046.00	water 100%w	27.61
186.00	s m c w 10% m 90% w	2.61
124.00	m c w 30% m 70% w	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61474 **DST#: 1**
 Test Start: 2015.03.26 @ 19:06:01

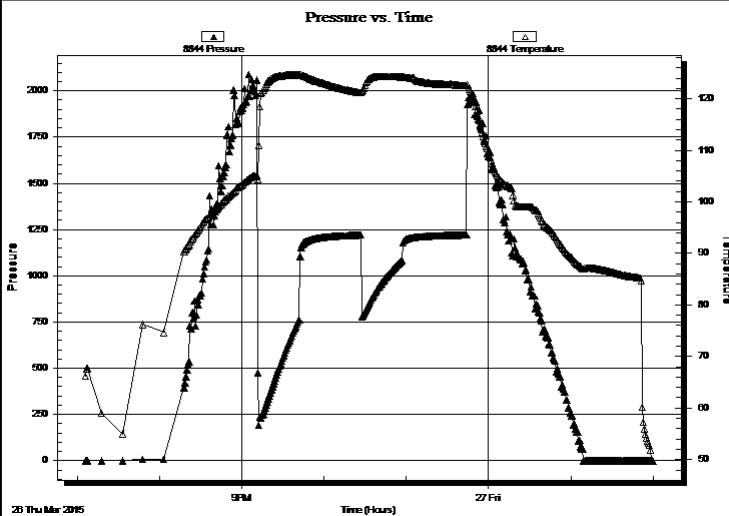
GENERAL INFORMATION:

Formation: **B**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:12:46
 Time Test Ended: 02:15:16
 Interval: **4163.00 ft (KB) To 4193.00 ft (KB) (TVD)**
 Total Depth: 4193.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Inside
 Press@RunDepth: psig @ 4164.00 ft (KB)
 Start Date: 2015.03.26 End Date: 2015.03.27
 Start Time: 19:05:56 End Time: 01:59:56
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.27
 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 2 min.
 No return
 B.O.B. in 3 1/2 min.
 No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
2046.00	water 100%w	27.61
186.00	s m c w 10% m 90%w	2.61
124.00	m c w 30% m 70%w	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61474

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.03.26 @ 19:06:01

Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4163.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4144.00	
Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Packer	5.00			4159.00	20.00 Bottom Of Top Packer
Packer	4.00			4163.00	
Stubb	1.00			4164.00	
Recorder	0.00	6771	Outside	4164.00	
Recorder	0.00	8844	Inside	4164.00	
Perforations	24.00			4188.00	
Bullnose	5.00			4193.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61474

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.03.26 @ 19:06:01

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:

68000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2046.00	water 100%w	27.607
186.00	s m c w 10%m 90%w	2.609
124.00	m c w 30%m 70%w	1.739

Total Length: 2356.00 ft Total Volume: 31.955 bbl

Num Fluid Samples: 0

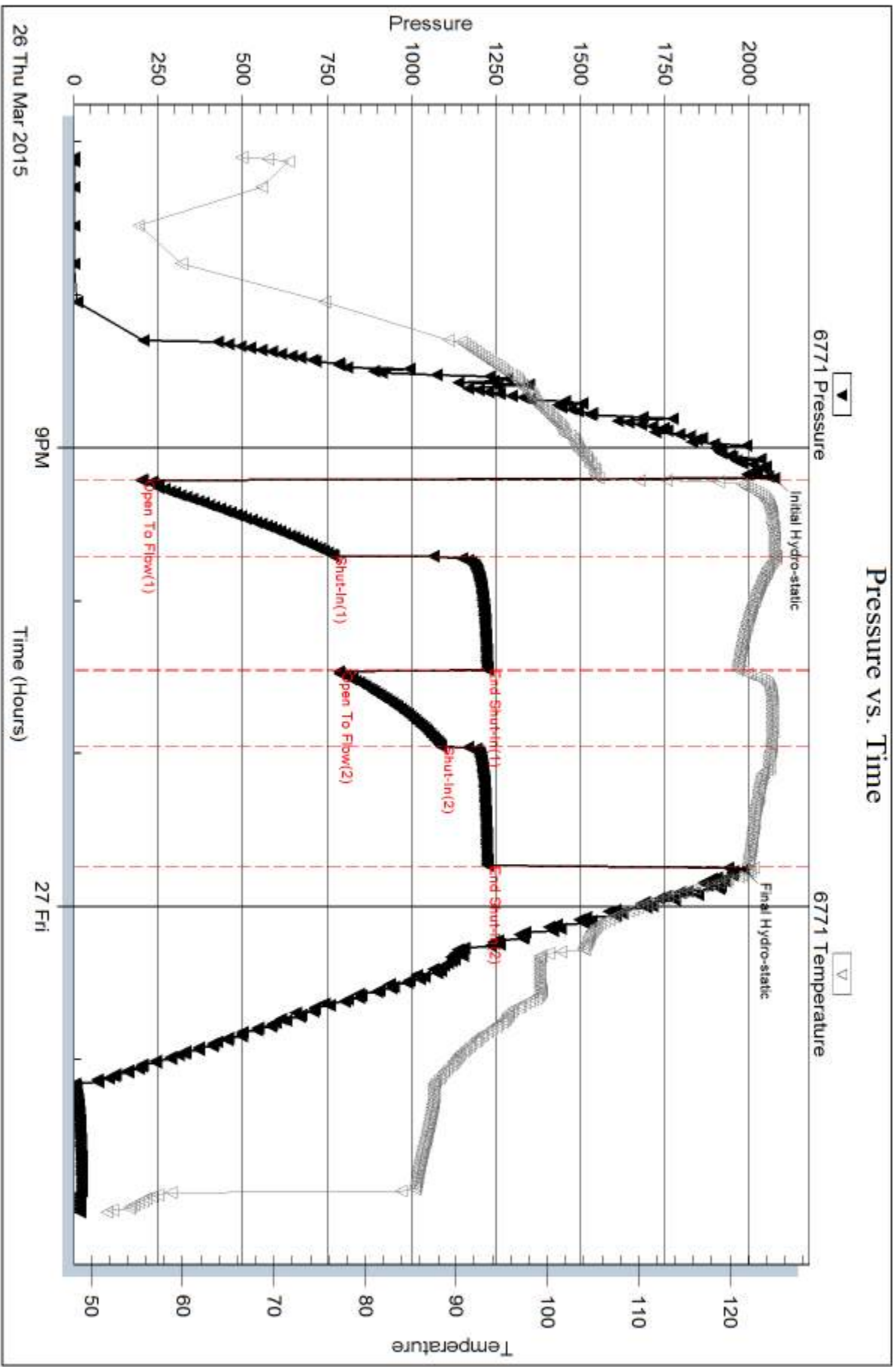
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .169 @ 45*f = 68,000 chlor



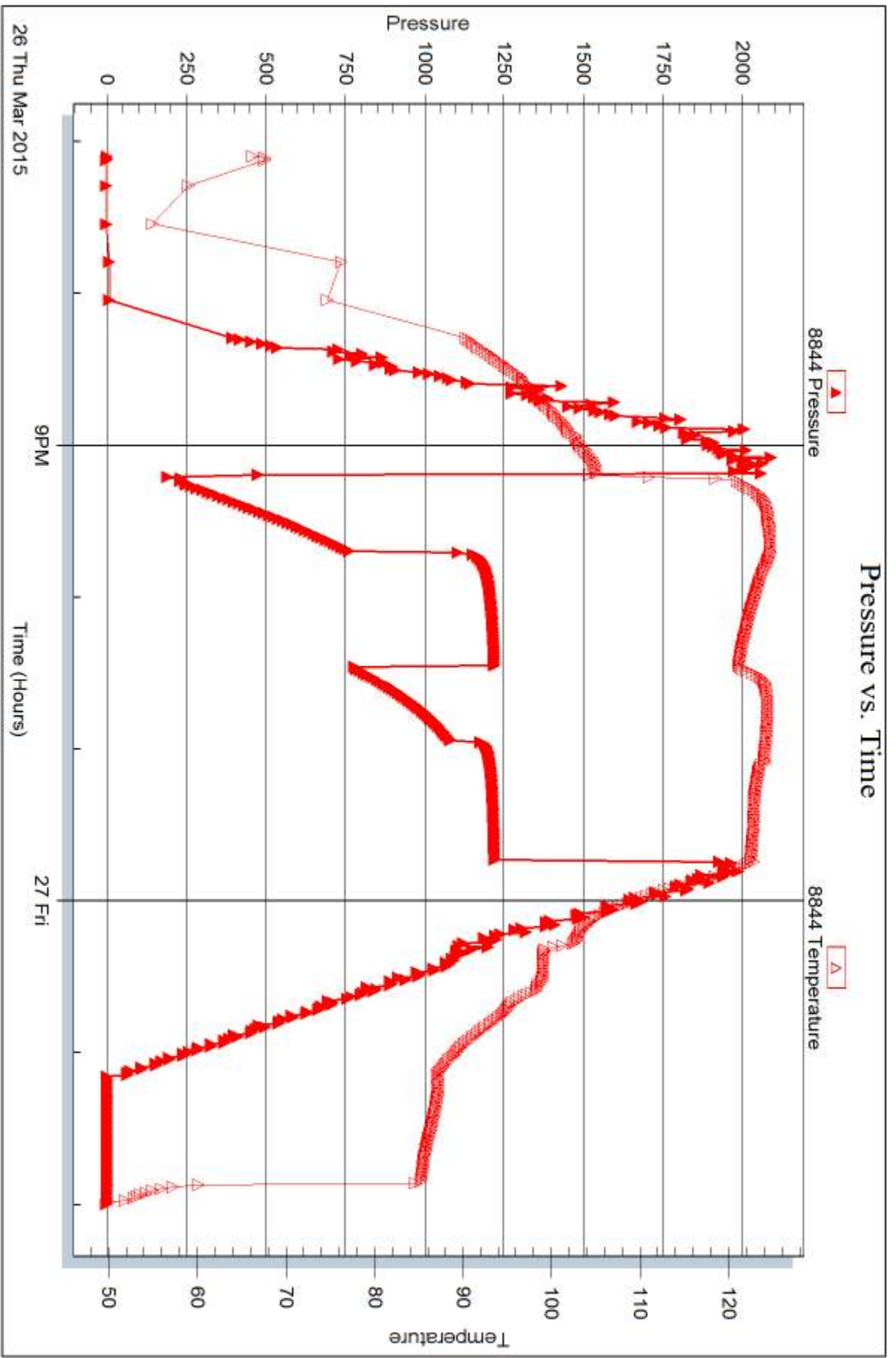
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.28 @ 00:56:09

End Date: 2015.03.28 @ 08:20:54

Job Ticket #: 61475 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:09:39



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61475

DST#: 2

Test Start: 2015.03.28 @ 00:56:09

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 02:41:09
 Time Test Ended: 08:20:54
 Interval: **4345.00 ft (KB) To 4398.00 ft (KB) (TVD)**
 Total Depth: 4398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

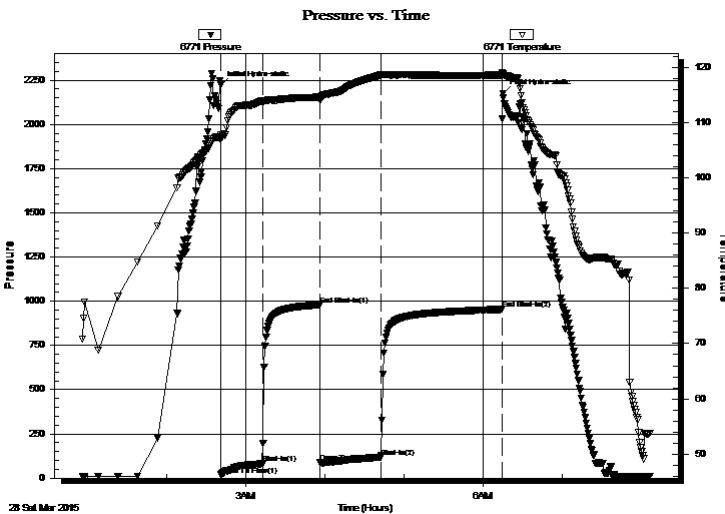
Serial #: 6771

Outside

Press@RunDepth: 119.14 psig @ 4346.00 ft (KB)
 Start Date: 2015.03.28 End Date: 2015.03.28
 Start Time: 00:56:09 End Time: 08:06:54
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.28
 Time On Btm: 2015.03.28 @ 02:40:54
 Time Off Btm: 2015.03.28 @ 06:15:09

TEST COMMENT: 6" in blow
 No return
 1 1/2" in blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.61	107.73	Initial Hydro-static
1	18.67	106.89	Open To Flow (1)
32	81.29	113.66	Shut-In(1)
76	980.26	114.52	End Shut-In(1)
76	87.23	114.03	Open To Flow (2)
122	119.14	118.54	Shut-In(2)
214	954.78	118.56	End Shut-In(2)
215	2172.67	118.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	s m c w w/oil spots 10% m 85% w	1.43
40.00	m c w 35% m 65% w (6" in free oil on top)	0.56

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102**James AY #4**

ATTN: Pat Deenihan

Job Ticket: 61475

DST#: 2

Test Start: 2015.03.28 @ 00:56:09

GENERAL INFORMATION:

Formation: **K**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:41:09

Time Test Ended: 08:20:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4345.00 ft (KB) To 4398.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4398.00 ft (KB) (TVD)

3197.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.28

End Date:

2015.03.28

Last Calib.:

2015.03.28

Start Time: 00:55:37

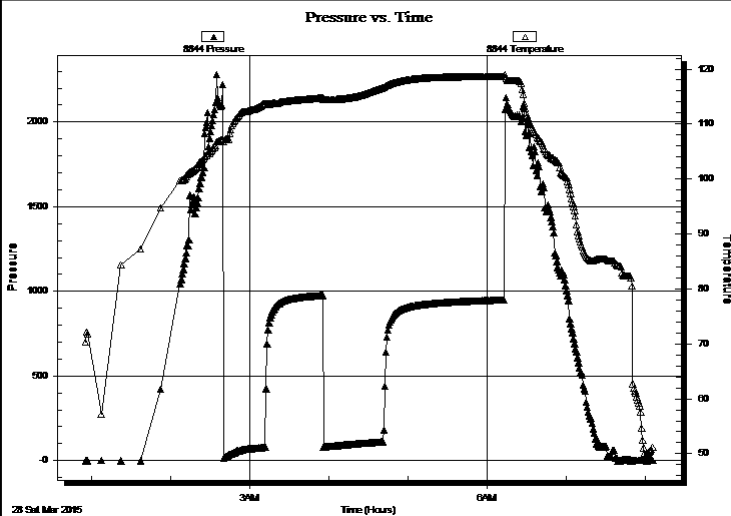
End Time:

08:06:07

Time On Btm:

Time Off Btm:

TEST COMMENT: 6" in blow
No return
1 1/2" in blow
No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	s m c w w/oil spots 10% m 85% w	1.43
40.00	m c w 35% m 65% w (6" in free oil on top)	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61475

DST#: 2

ATTN: Pat Deenihan

Test Start: 2015.03.28 @ 00:56:09

Tool Information

Drill Pipe:	Length: 4230.00 ft	Diameter: 3.80 inches	Volume: 59.34 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4345.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4326.00	
Shut In Tool	5.00			4331.00	
Hydraulic tool	5.00			4336.00	
Packer	5.00			4341.00	20.00 Bottom Of Top Packer
Packer	4.00			4345.00	
Stubb	1.00			4346.00	
Recorder	0.00	6771	Outside	4346.00	
Recorder	0.00	8844	Inside	4346.00	
Perforations	14.00			4360.00	
Change Over Sub	1.00			4361.00	
Drill Pipe	31.00			4392.00	
Change Over Sub	1.00			4393.00	
Bullnose	5.00			4398.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61475

DST#: 2

ATTN: Pat Deenihan

Test Start: 2015.03.28 @ 00:56:09

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:

27500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	s m c w w/oil spots 10%m 85%w	1.432
40.00	m c w 35%m 65%w (6" in free oil on top)	0.561

Total Length: 220.00 ft Total Volume: 1.993 bbl

Num Fluid Samples: 0

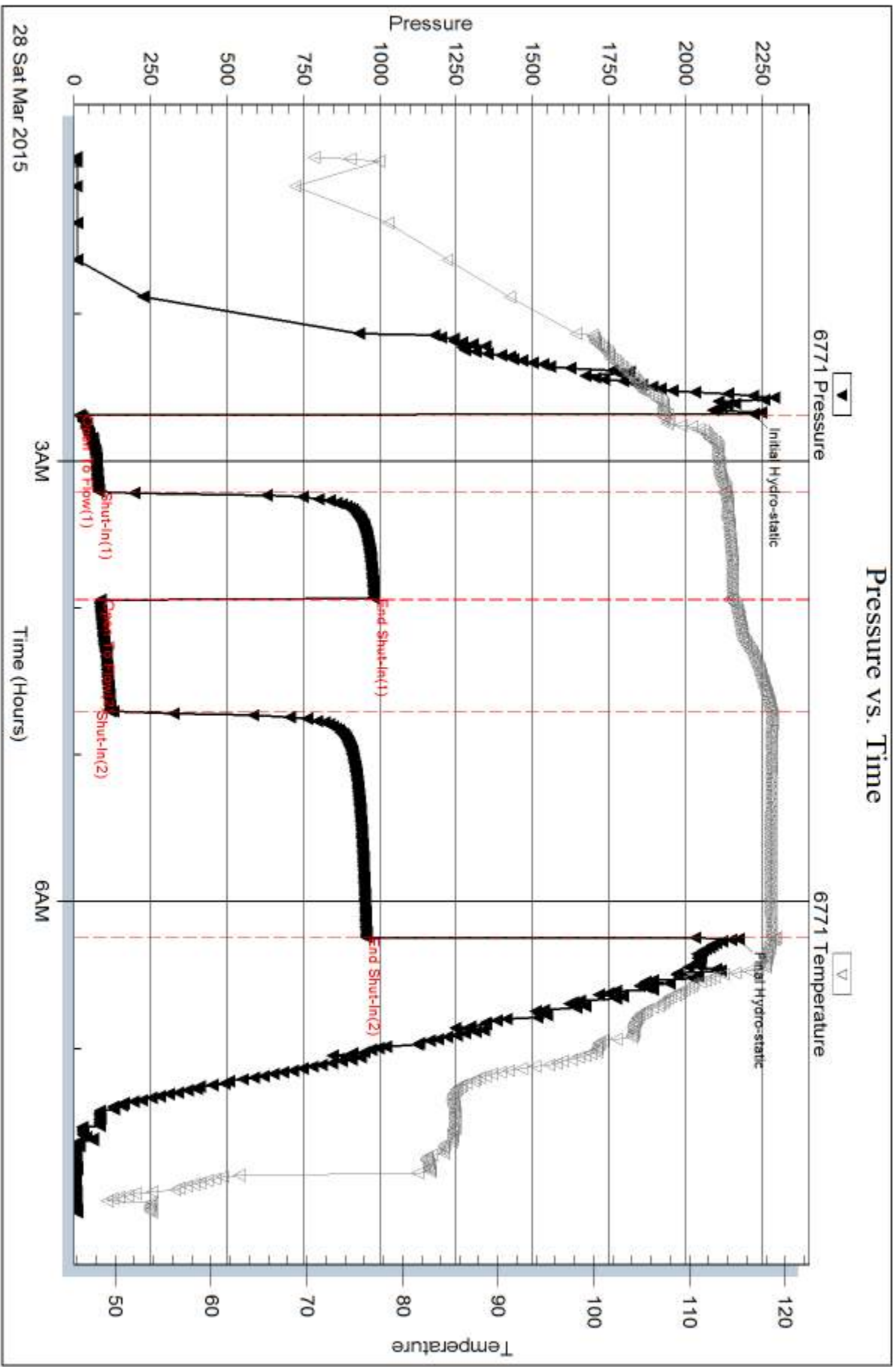
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .352 @ 52*f = 27,500 chlor



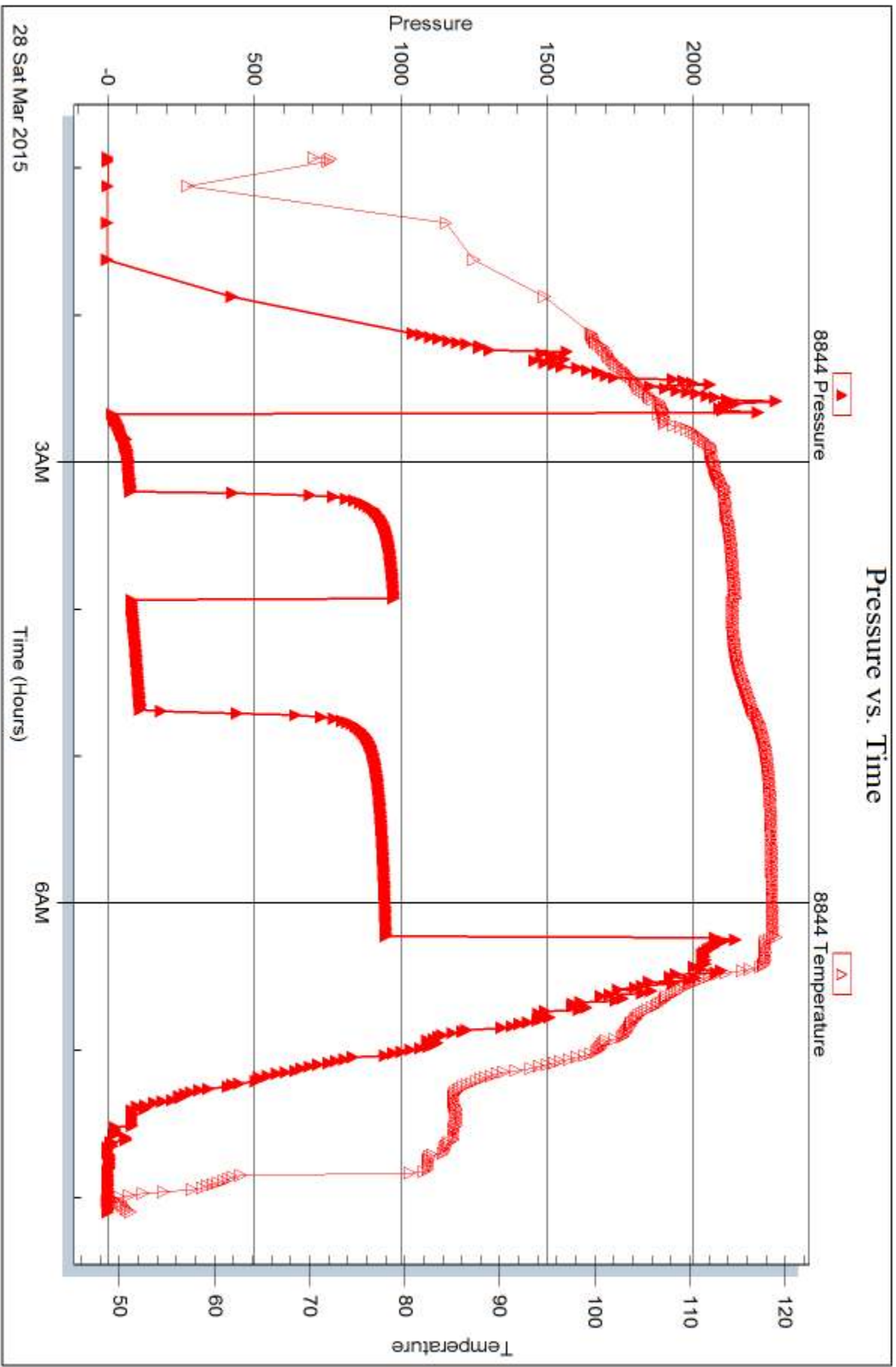
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61475

Printed: 2015.03.31 @ 15:09:40



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.29 @ 05:30:53

End Date: 2015.03.29 @ 13:30:38

Job Ticket #: 61476 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:08:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Slaw son Exploration Co. Inc
204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102
ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61476

DST#: 3

Test Start: 2015.03.29 @ 05:30:53

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:28:23

Time Test Ended: 13:30:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4565.00 ft (KB) To 4592.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4592.00 ft (KB) (TVD)

3197.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press@RunDepth: 228.58 psig @ 4566.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.29

End Date: 2015.03.29

Last Calib.: 2015.03.29

Start Time: 05:30:53

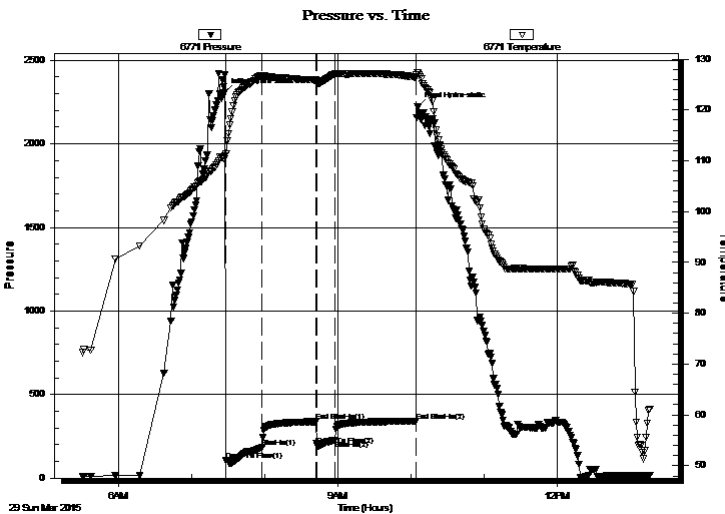
End Time: 13:15:38

Time On Btm: 2015.03.29 @ 07:26:53

Time Off Btm: 2015.03.29 @ 10:05:38

TEST COMMENT: B.O.B. in 2 min
Bled off for 8 min. back to B.O.B. in 6 min.
B.O.B. @ open
Bled off throughout shutin , G.T.S. 35 min into shutin

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.12	110.38	Initial Hydro-static
2	107.44	111.33	Open To Flow (1)
31	184.25	126.63	Shut-In(1)
76	337.86	125.85	End Shut-In(1)
76	194.72	125.70	Open To Flow (2)
91	228.58	127.07	Shut-In(2)
157	339.98	126.41	End Shut-In(2)
159	2224.37	127.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	m c g o 30m 30g 40o under circ sub	0.59
438.00	c g o 30g 70o reversed out	6.14
62.00	c g o 25g 75o dumped	0.87
0.00	gas to surface on final shutin	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Slaw son Exploration Co. Inc
204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102
ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61476

DST#: 3

Test Start: 2015.03.29 @ 05:30:53

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:28:23

Time Test Ended: 13:30:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4565.00 ft (KB) To 4592.00 ft (KB) (TVD)

Total Depth: 4592.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3202.00 ft (KB)

3197.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4566.00 ft (KB)

Start Date: 2015.03.29

End Date: 2015.03.29

Start Time: 05:30:34

End Time: 13:15:04

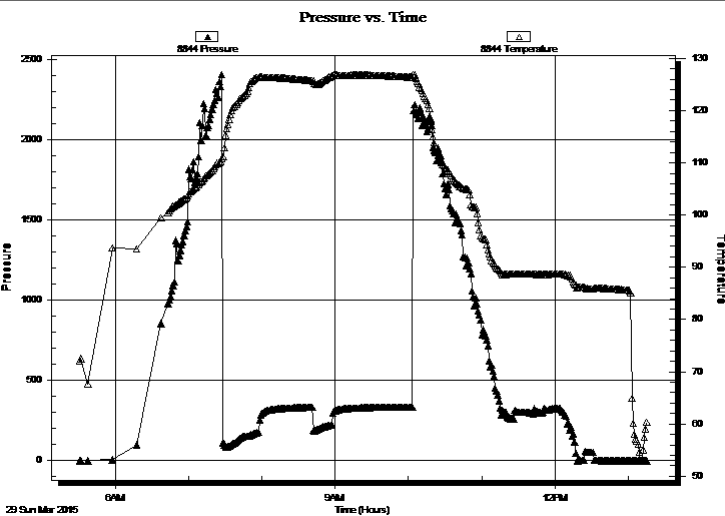
Capacity: 8000.00 psig

Last Calib.: 2015.03.29

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 2 min
Bled off for 8 min. back to B.O.B. in 6 min.
B.O.B. @ open
Bled off throughout shutin , G.T.S. 35 min into shutin



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	m c g o 30m 30g 40o under circ sub	0.59
438.00	c g o 30g 70o reversed out	6.14
62.00	c g o 25g 75o dumped	0.87
0.00	gas to surface on final shutin	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

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61476

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.03.29 @ 05:30:53

Tool Information

Drill Pipe:	Length: 4446.00 ft	Diameter: 3.80 inches	Volume: 62.37 bbl	Tool Weight:	1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 62.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4565.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4546.00	
Shut In Tool	5.00			4551.00	
Hydraulic tool	5.00			4556.00	
Packer	5.00			4561.00	20.00 Bottom Of Top Packer
Packer	4.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	6771	Outside	4566.00	
Recorder	0.00	8844	Inside	4566.00	
Perforations	21.00			4587.00	
Bullnose	5.00			4592.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61476

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.03.29 @ 05:30:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	m c g o 30m 30g 40o under circ sub	0.590
438.00	c g o 30g 70o reversed out	6.144
62.00	c g o 25g 75o dumped	0.870
0.00	gas to surface on final shutin	0.000

Total Length: 620.00 ft

Total Volume: 7.604 bbl

Num Fluid Samples: 0

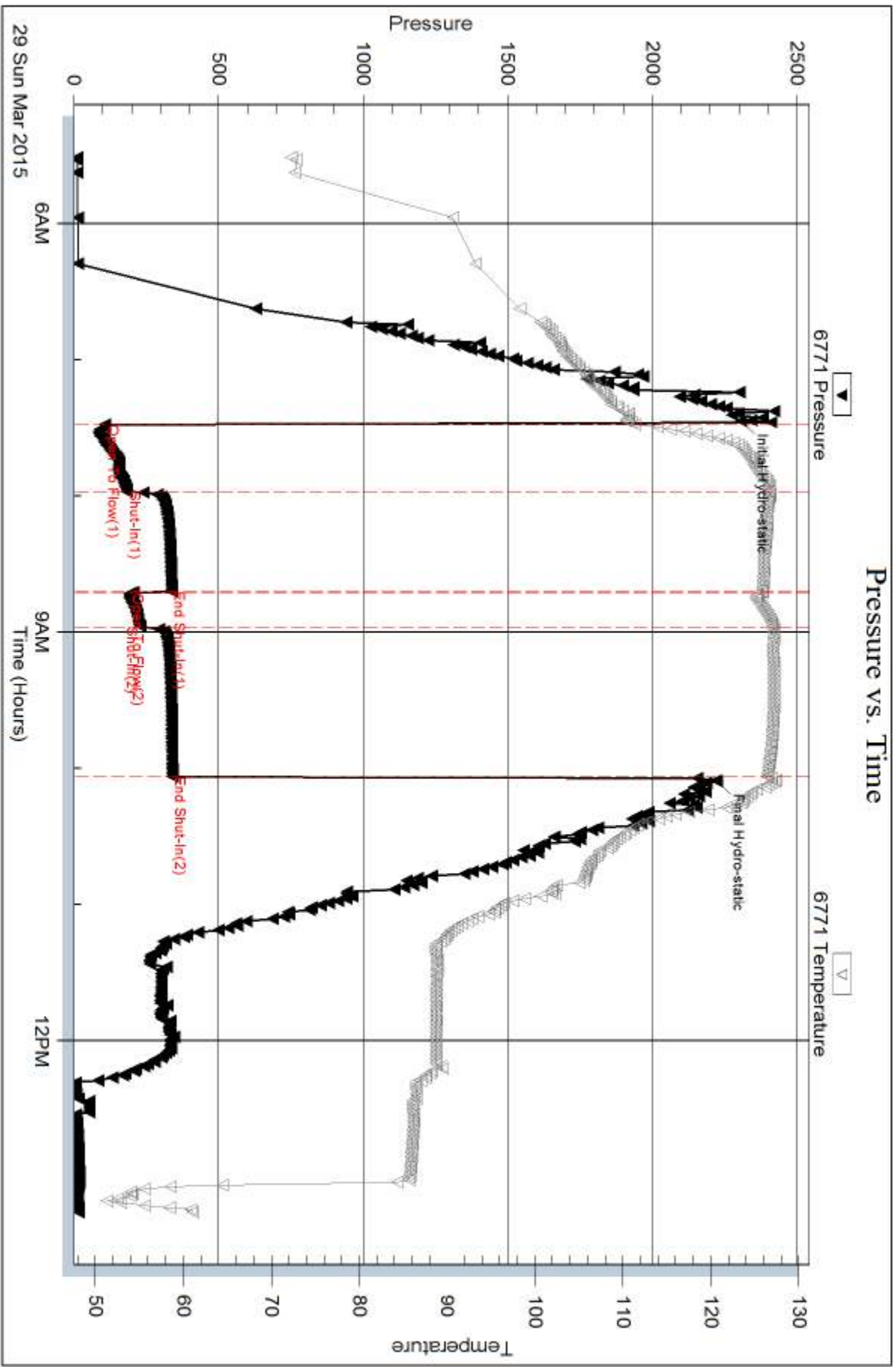
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



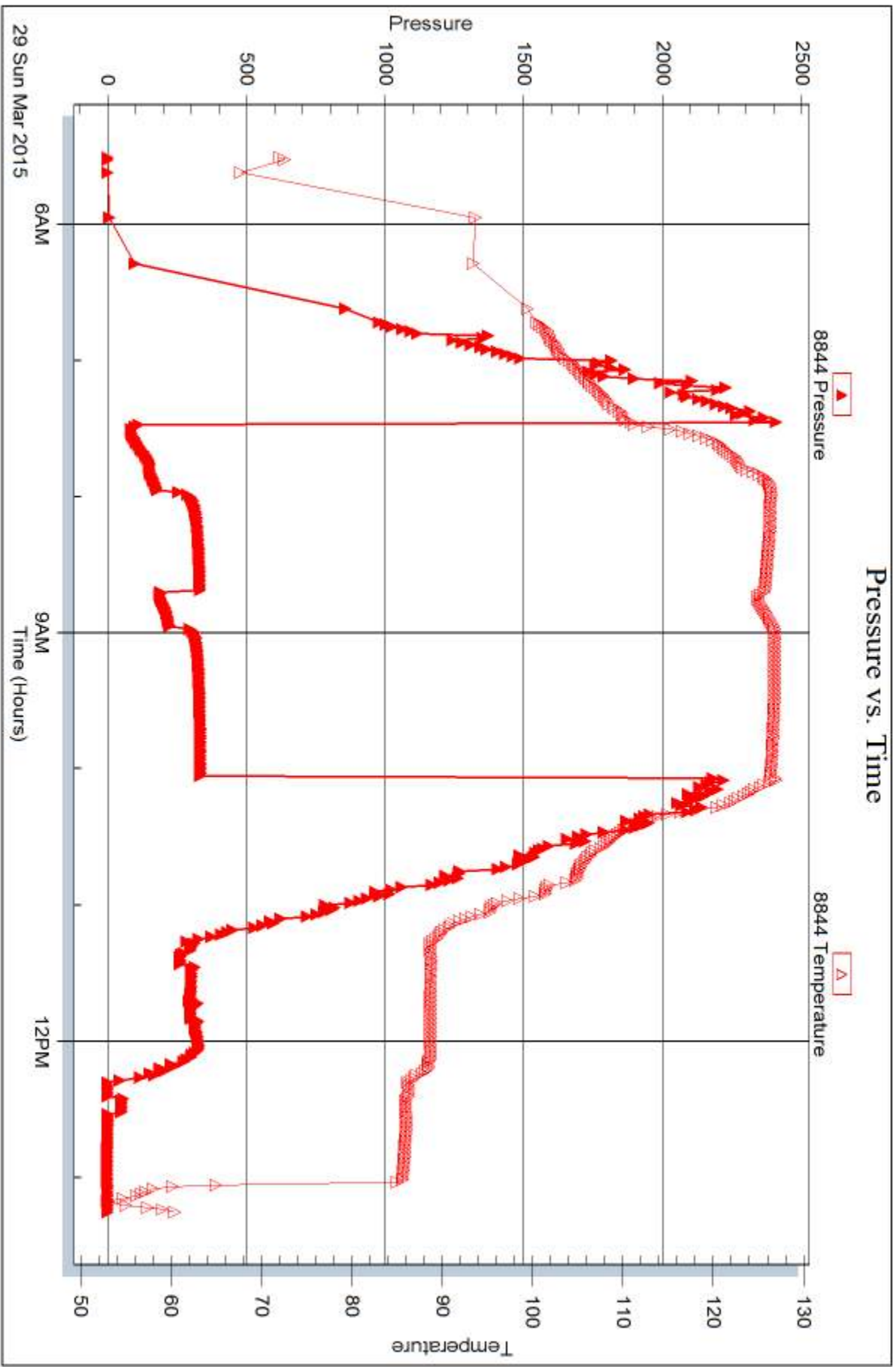
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James AY #4

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61476

Printed: 2015.03.31 @ 15:08:52



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.30 @ 03:15:44

End Date: 2015.03.30 @ 11:45:59

Job Ticket #: 61477 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:08:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61477

DST#: 4

Test Start: 2015.03.30 @ 03:15:44

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:10:29
 Time Test Ended: 11:45:59
 Interval: **4649.00 ft (KB) To 4711.00 ft (KB) (TVD)**
 Total Depth: 4711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

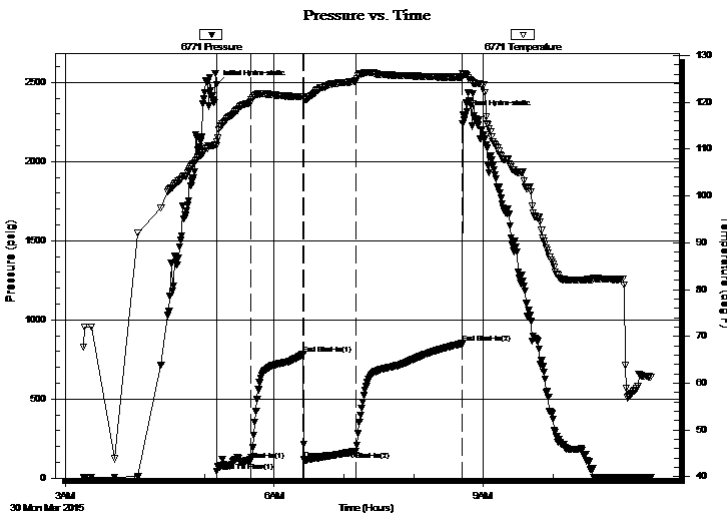
Outside

Press@RunDepth: 169.58 psig @ 4650.00 ft (KB)
 Start Date: 2015.03.30 End Date: 2015.03.30
 Start Time: 03:15:44 End Time: 11:24:59
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.30
 Time On Btm: 2015.03.30 @ 05:10:14
 Time Off Btm: 2015.03.30 @ 08:42:44

TEST COMMENT: B.O.B. in 12 min
 No return
 B.O.B. in 10 min.
 4" in return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.67	111.56	Initial Hydro-static
1	44.32	110.66	Open To Flow (1)
30	115.95	120.04	Shut-In(1)
75	782.64	121.17	End Shut-In(1)
76	118.65	120.77	Open To Flow (2)
121	169.58	124.60	Shut-In(2)
212	851.17	125.36	End Shut-In(2)
213	2294.64	125.77	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
248.00	g m c o 35g 30m 35o	2.39
124.00	g m c o 30g 15m 55o	1.74
15.00	c g o 30g 70o	0.21
0.00	913' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Slaw son Exploration Co. Inc
204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102
ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61477 **DST#: 4**

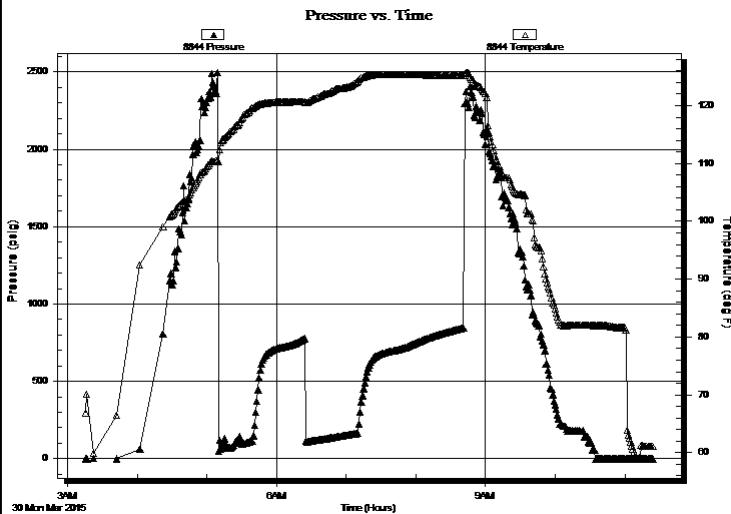
Test Start: 2015.03.30 @ 03:15:44

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:10:29
 Time Test Ended: 11:45:59
 Interval: **4649.00 ft (KB) To 4711.00 ft (KB) (TVD)**
 Total Depth: 4711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Inside
 Press@RunDepth: psig @ 4650.00 ft (KB)
 Start Date: 2015.03.30 End Date: 2015.03.30
 Start Time: 03:15:26 End Time: 11:24:26
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 12 min
 No return
 B.O.B. in 10 min.
 4" in return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	g m c o 35g 30m 35o	2.39
124.00	g m c o 30g 15m 55o	1.74
15.00	c g o 30g 70o	0.21
0.00	913' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61477

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.03.30 @ 03:15:44

Tool Information

Drill Pipe:	Length: 4542.00 ft	Diameter: 3.80 inches	Volume: 63.71 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 64.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4649.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4630.00	
Shut In Tool	5.00			4635.00	
Hydraulic tool	5.00			4640.00	
Packer	5.00			4645.00	20.00 Bottom Of Top Packer
Packer	4.00			4649.00	
Stubb	1.00			4650.00	
Recorder	0.00	6771	Outside	4650.00	
Recorder	0.00	8844	Inside	4650.00	
Perforations	22.00			4672.00	
Change Over Sub	1.00			4673.00	
Drill Pipe	32.00			4705.00	
Change Over Sub	1.00			4706.00	
Bullnose	5.00			4711.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61477

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.03.30 @ 03:15:44

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:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	g m c o 35g 30m 35o	2.386
124.00	g m c o 30g 15m 55o	1.739
15.00	c g o 30g 70o	0.210
0.00	913' gas in pipe	0.000

Total Length: 387.00 ft

Total Volume: 4.335 bbl

Num Fluid Samples: 0

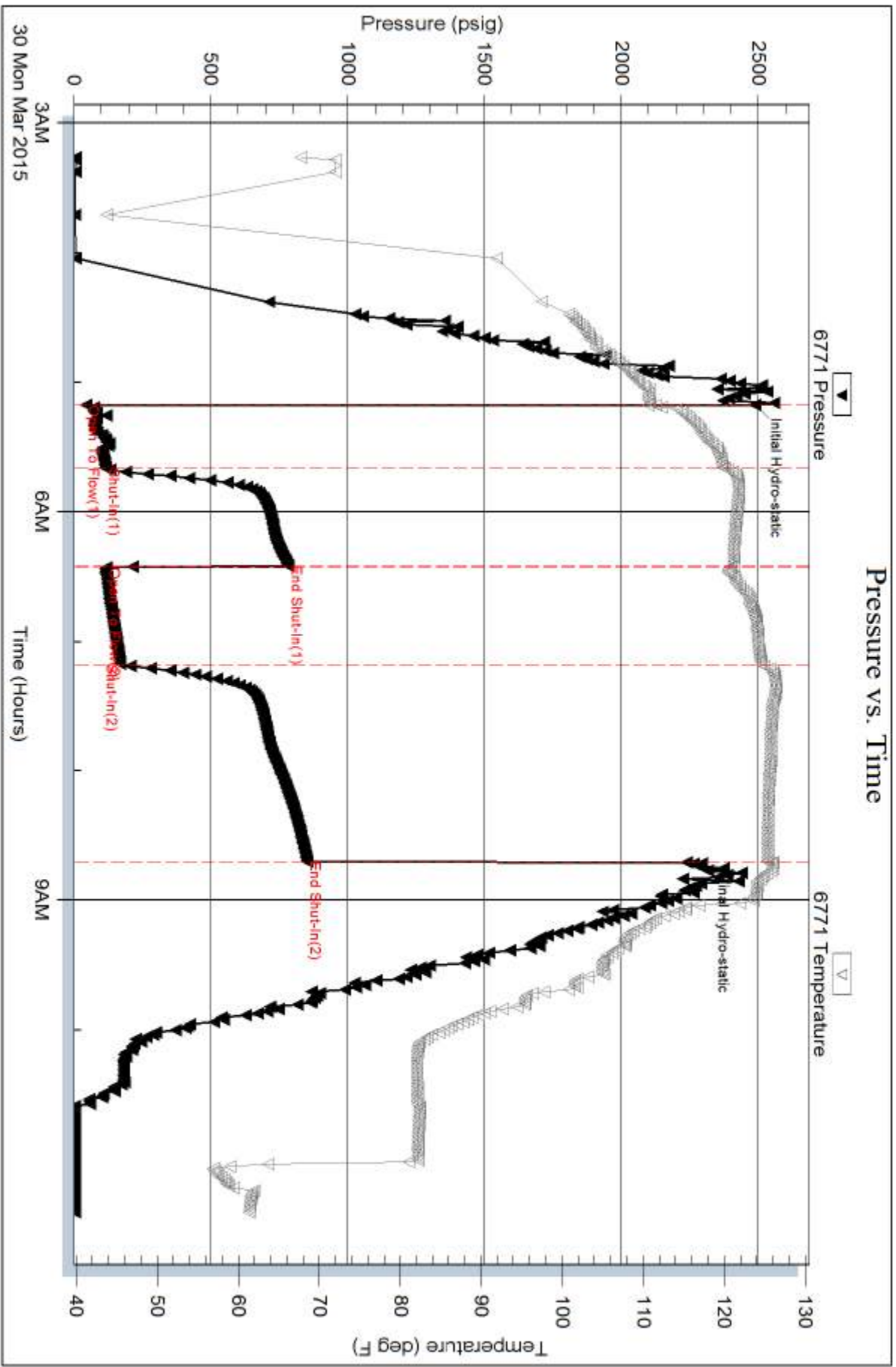
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



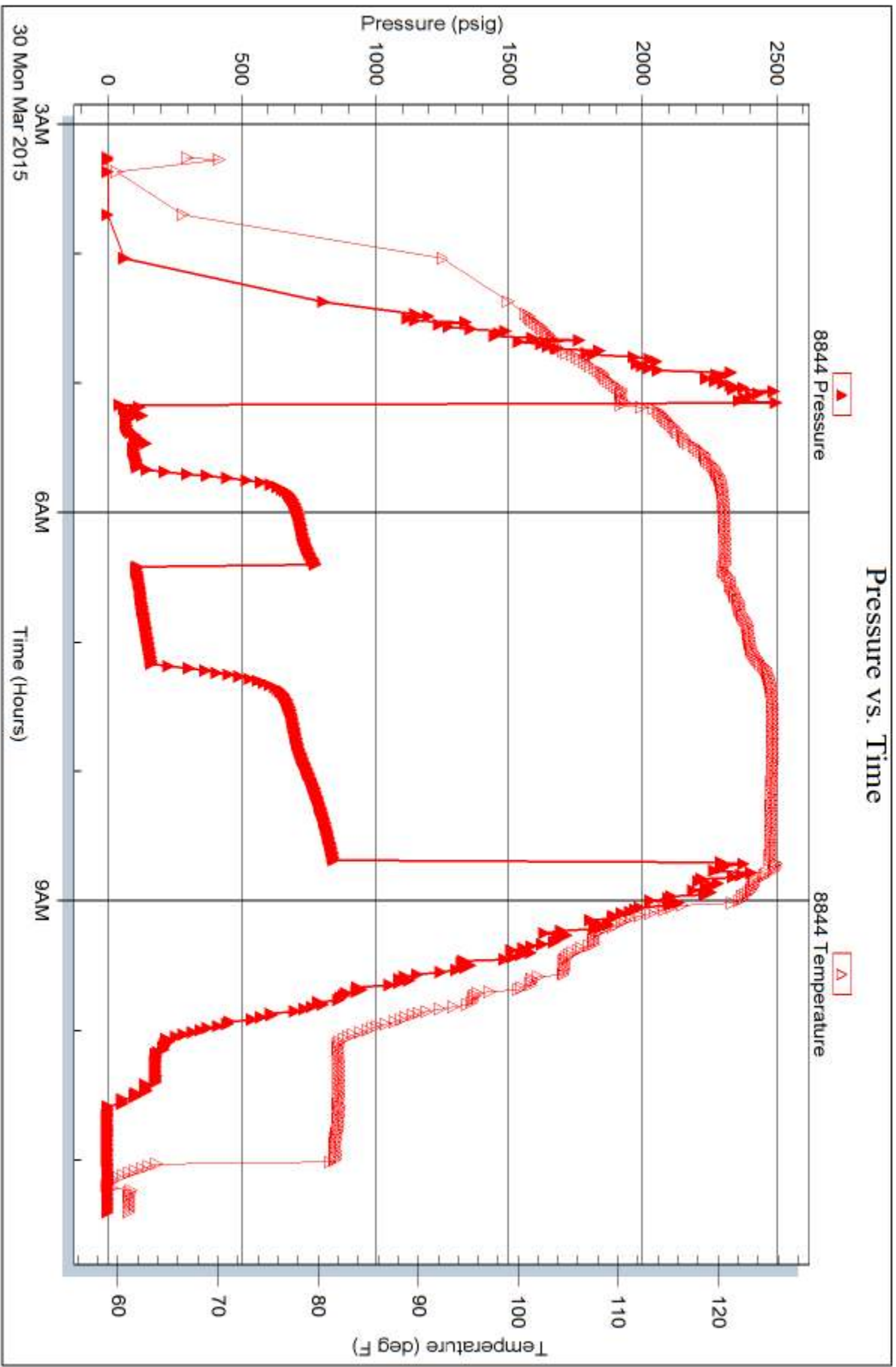
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61477

Printed: 2015.03.31 @ 15:08:17



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.26 @ 19:06:01

End Date: 2015.03.27 @ 02:15:16

Job Ticket #: 61474 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:10:02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61474

DST#: 1

Test Start: 2015.03.26 @ 19:06:01

GENERAL INFORMATION:

Formation: **B**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:12:46
 Time Test Ended: 02:15:16
 Interval: **4163.00 ft (KB) To 4193.00 ft (KB) (TVD)**
 Total Depth: 4193.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

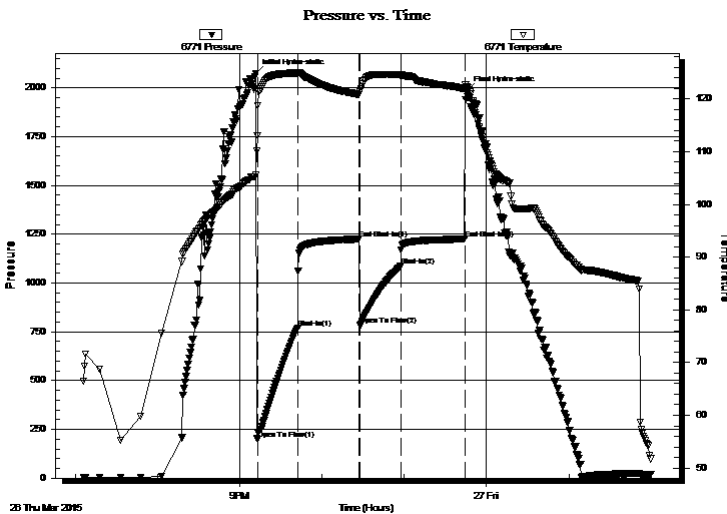
Outside

Press@RunDepth: 1087.43 psig @ 4164.00 ft (KB)
 Start Date: 2015.03.26 End Date: 2015.03.27
 Start Time: 19:06:01 End Time: 02:00:16
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.27
 Time On Btm: 2015.03.26 @ 21:11:46
 Time Off Btm: 2015.03.26 @ 23:45:31

TEST COMMENT: B.O.B. in 2 min.
 No return
 B.O.B. in 3 1/2 min.
 No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.72	105.53	Initial Hydro-static
1	199.09	113.04	Open To Flow (1)
31	767.79	124.90	Shut-In(1)
76	1225.39	120.79	End Shut-In(1)
76	784.80	121.44	Open To Flow (2)
106	1087.43	124.55	Shut-In(2)
153	1225.79	122.01	End Shut-In(2)
154	1985.82	122.24	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
2046.00	water 100%w	27.61
186.00	s m c w 10% m 90% w	2.61
124.00	m c w 30% m 70% w	1.74

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

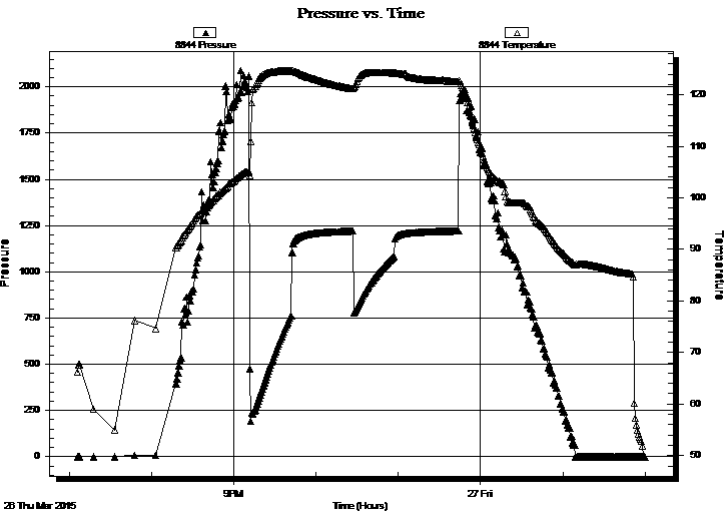
23-10s-34w Thomas,KS
James AY #4
 Job Ticket: 61474 **DST#: 1**
 Test Start: 2015.03.26 @ 19:06:01

GENERAL INFORMATION:

Formation: **B**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:12:46
 Time Test Ended: 02:15:16
 Interval: **4163.00 ft (KB) To 4193.00 ft (KB) (TVD)**
 Total Depth: 4193.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Inside
 Press@RunDepth: psig @ 4164.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.26 End Date: 2015.03.27 Last Calib.: 2015.03.27
 Start Time: 19:05:56 End Time: 01:59:56 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 2 min.
 No return
 B.O.B. in 3 1/2 min.
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2046.00	water 100%w	27.61
186.00	s m c w 10% m 90% w	2.61
124.00	m c w 30% m 70% w	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61474

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.03.26 @ 19:06:01

Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 57.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4163.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4144.00	
Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Packer	5.00			4159.00	20.00 Bottom Of Top Packer
Packer	4.00			4163.00	
Stubb	1.00			4164.00	
Recorder	0.00	6771	Outside	4164.00	
Recorder	0.00	8844	Inside	4164.00	
Perforations	24.00			4188.00	
Bullnose	5.00			4193.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61474

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.03.26 @ 19:06:01

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:

68000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2046.00	water 100%w	27.607
186.00	s m c w 10%m 90%w	2.609
124.00	m c w 30%m 70%w	1.739

Total Length: 2356.00 ft Total Volume: 31.955 bbl

Num Fluid Samples: 0

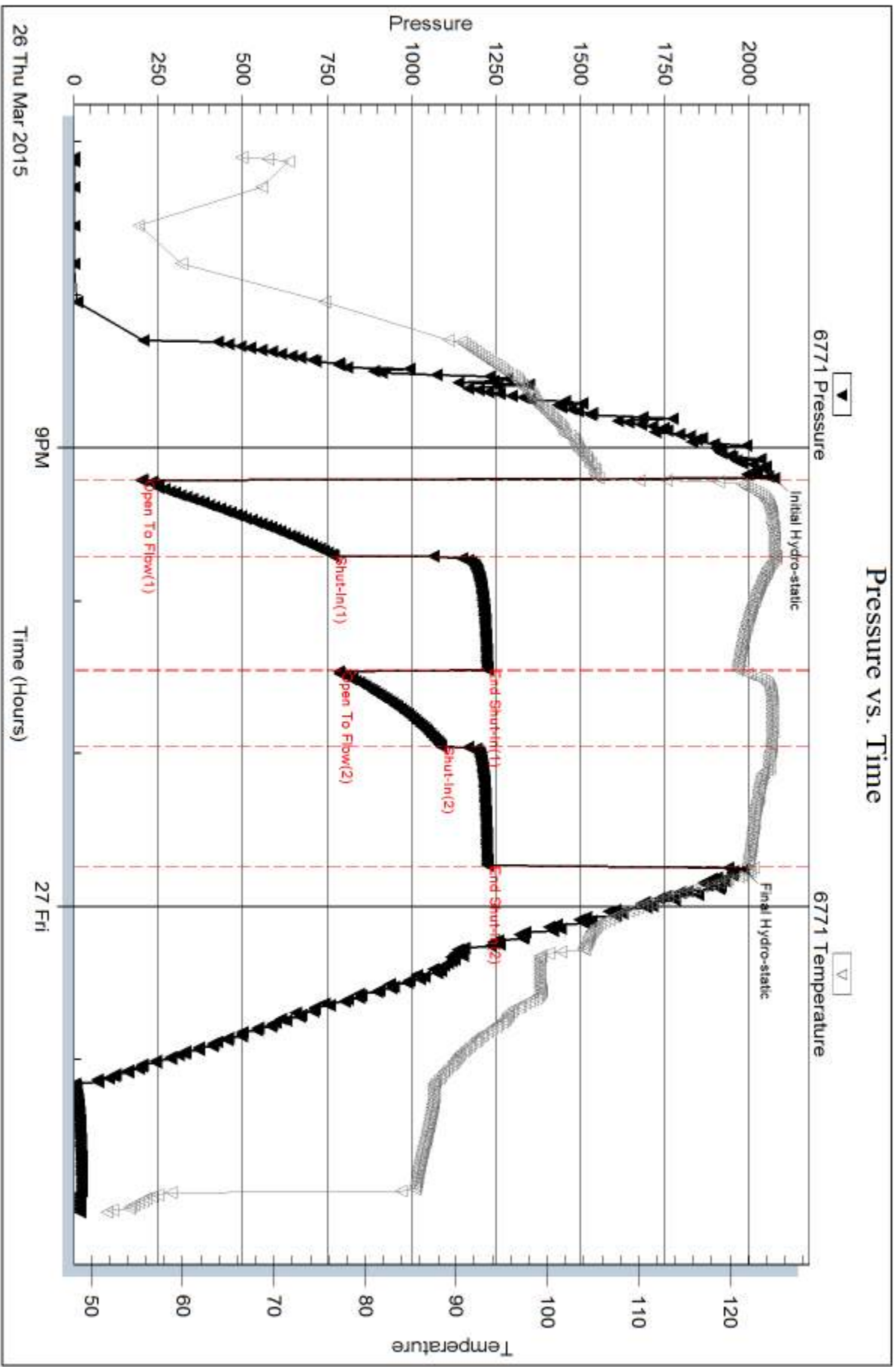
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .169 @ 45*f = 68,000 chlor



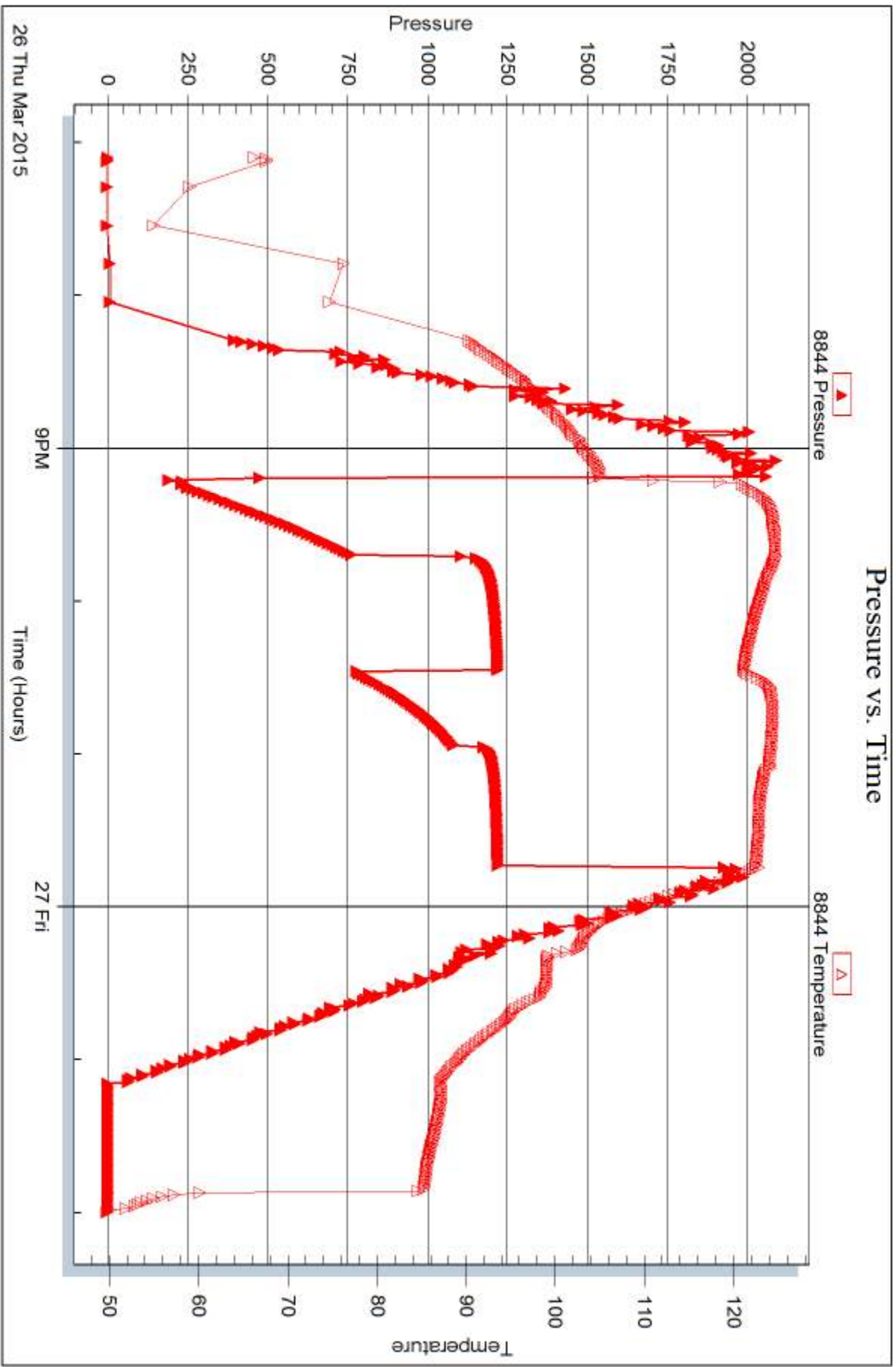
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.28 @ 00:56:09

End Date: 2015.03.28 @ 08:20:54

Job Ticket #: 61475 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:09:39



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61475

DST#: 2

Test Start: 2015.03.28 @ 00:56:09

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 02:41:09
 Time Test Ended: 08:20:54
 Interval: **4345.00 ft (KB) To 4398.00 ft (KB) (TVD)**
 Total Depth: 4398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

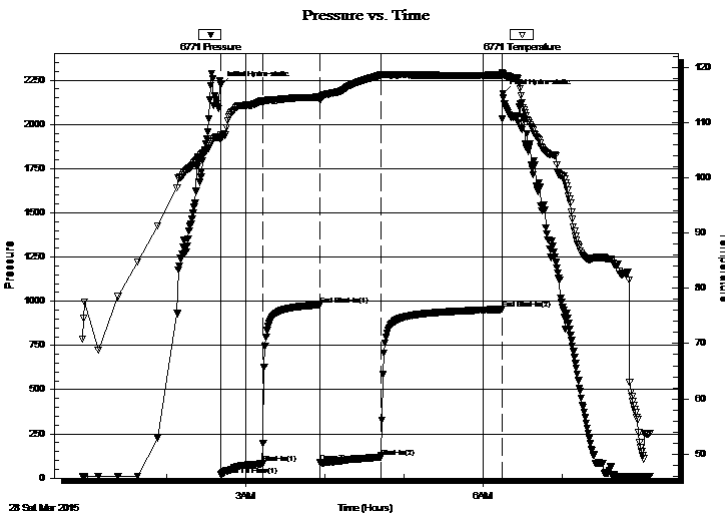
Serial #: 6771

Outside

Press@RunDepth: 119.14 psig @ 4346.00 ft (KB)
 Start Date: 2015.03.28 End Date: 2015.03.28
 Start Time: 00:56:09 End Time: 08:06:54
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.28
 Time On Btm: 2015.03.28 @ 02:40:54
 Time Off Btm: 2015.03.28 @ 06:15:09

TEST COMMENT: 6" in blow
 No return
 1 1/2" in blow
 No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.61	107.73	Initial Hydro-static
1	18.67	106.89	Open To Flow (1)
32	81.29	113.66	Shut-In(1)
76	980.26	114.52	End Shut-In(1)
76	87.23	114.03	Open To Flow (2)
122	119.14	118.54	Shut-In(2)
214	954.78	118.56	End Shut-In(2)
215	2172.67	118.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	s m c w w/oil spots 10% m 85% w	1.43
40.00	m c w 35% m 65% w (6" in free oil on top)	0.56

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61475

DST#: 2

ATTN: Pat Deenihan

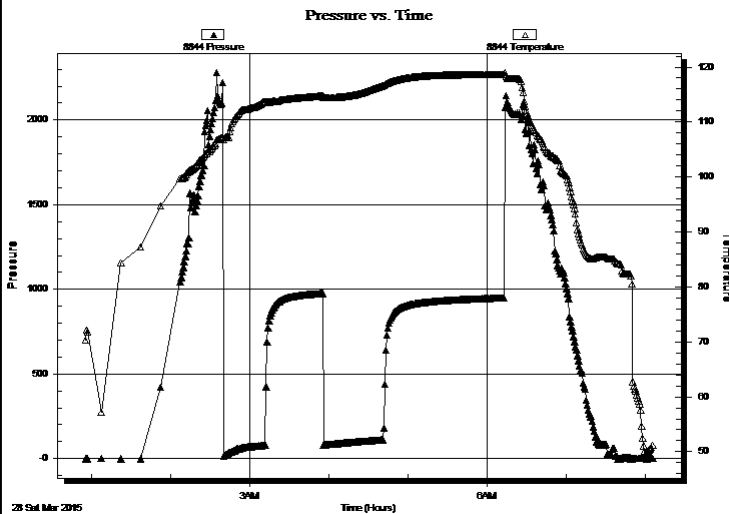
Test Start: 2015.03.28 @ 00:56:09

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 02:41:09
 Time Test Ended: 08:20:54
Interval: 4345.00 ft (KB) To 4398.00 ft (KB) (TVD)
 Total Depth: 4398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Inside
 Press@RunDepth: psig @ 4346.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.28 End Date: 2015.03.28 Last Calib.: 2015.03.28
 Start Time: 00:55:37 End Time: 08:06:07 Time On Btm:
 Time Off Btm:

TEST COMMENT: 6" in blow
 No return
 1 1/2" in blow
 No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	s m c w w/oil spots 10% m 85% w	1.43
40.00	m c w 35% m 65% w (6" in free oil on top)	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61475

DST#: 2

ATTN: Pat Deenihan

Test Start: 2015.03.28 @ 00:56:09

Tool Information

Drill Pipe:	Length: 4230.00 ft	Diameter: 3.80 inches	Volume: 59.34 bbl	Tool Weight: 1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4345.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4326.00	
Shut In Tool	5.00			4331.00	
Hydraulic tool	5.00			4336.00	
Packer	5.00			4341.00	20.00 Bottom Of Top Packer
Packer	4.00			4345.00	
Stubb	1.00			4346.00	
Recorder	0.00	6771	Outside	4346.00	
Recorder	0.00	8844	Inside	4346.00	
Perforations	14.00			4360.00	
Change Over Sub	1.00			4361.00	
Drill Pipe	31.00			4392.00	
Change Over Sub	1.00			4393.00	
Bullnose	5.00			4398.00	53.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc
204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102
ATTN: Pat Deenihan

23-10s-34w Thomas,KS
James AY #4
Job Ticket: 61475 **DST#: 2**
Test Start: 2015.03.28 @ 00:56:09

Mud and Cushion Information

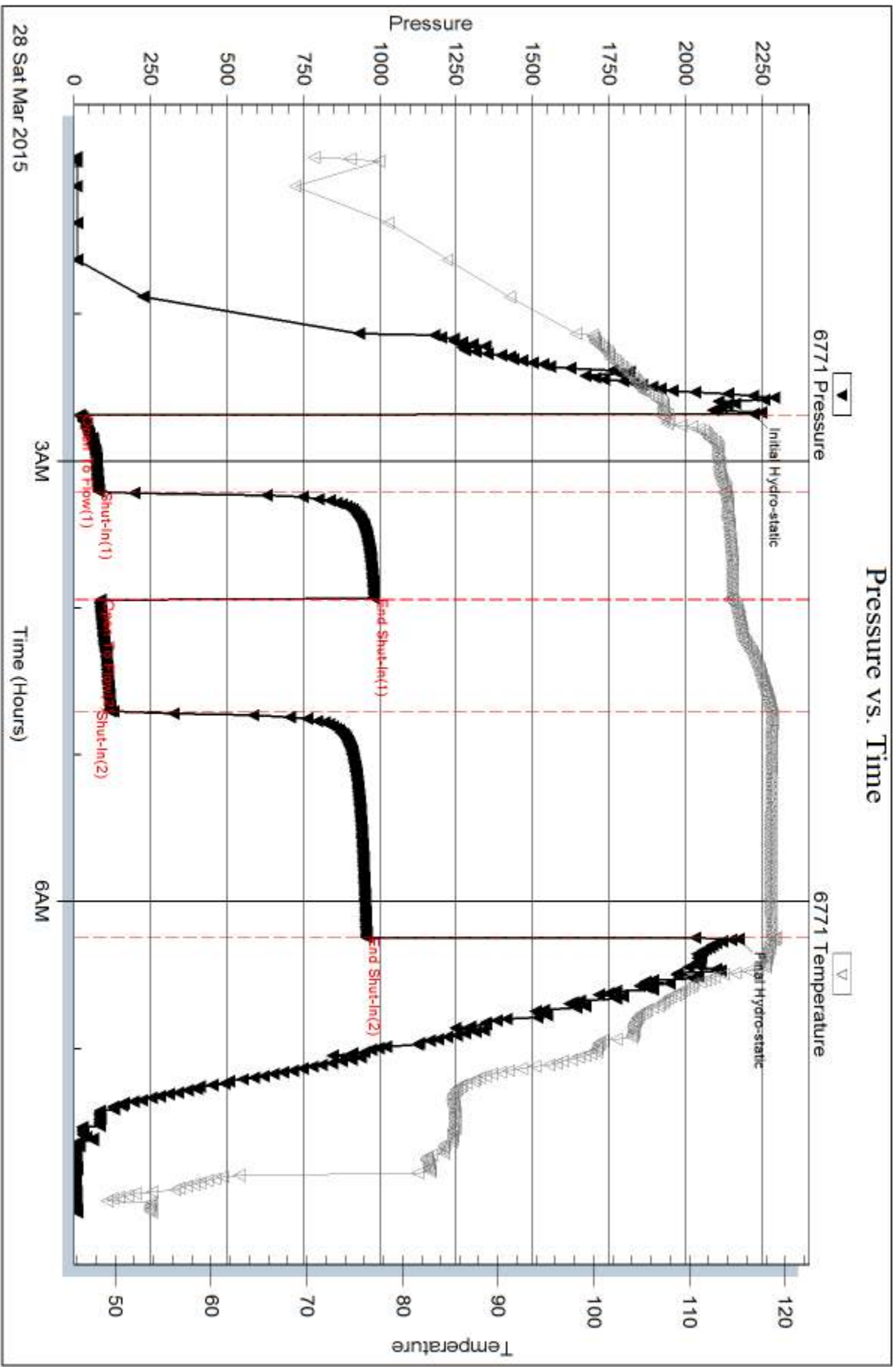
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 27500 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 10000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	s m c w w/oil spots 10%m 85%w	1.432
40.00	m c w 35%m 65%w (6" in free oil on top)	0.561

Total Length: 220.00 ft Total Volume: 1.993 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: rw .352 @ 52*f = 27,500 chlor



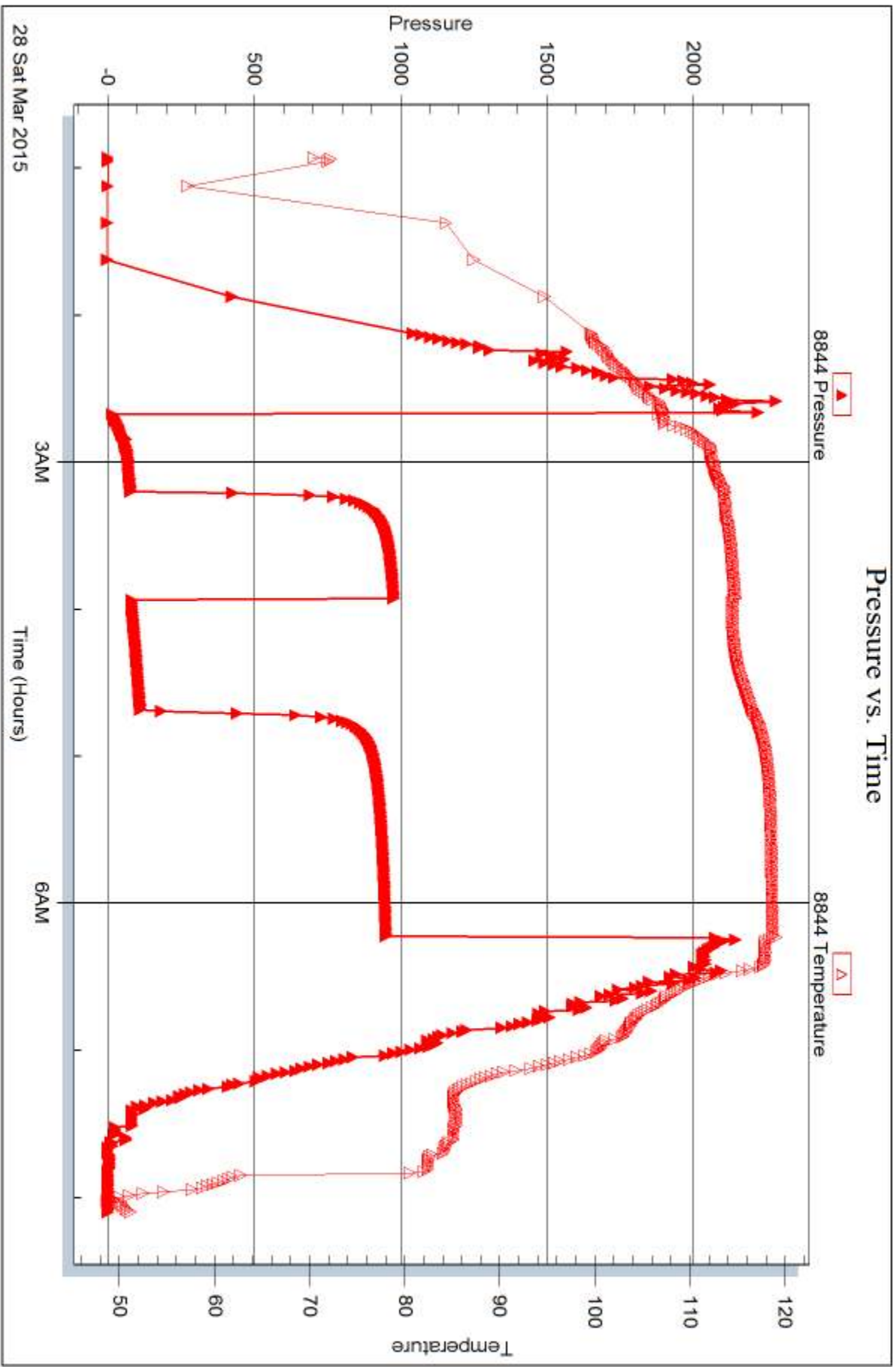
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61475

Printed: 2015.03.31 @ 15:09:40



DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.29 @ 05:30:53

End Date: 2015.03.29 @ 13:30:38

Job Ticket #: 61476 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:08:49



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61476

DST#: 3

Test Start: 2015.03.29 @ 05:30:53

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 07:28:23

Time Test Ended: 13:30:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: 4565.00 ft (KB) To 4592.00 ft (KB) (TVD)

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4592.00 ft (KB) (TVD)

3197.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6771 Outside

Press@RunDepth: 228.58 psig @ 4566.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.29

End Date: 2015.03.29

Last Calib.: 2015.03.29

Start Time: 05:30:53

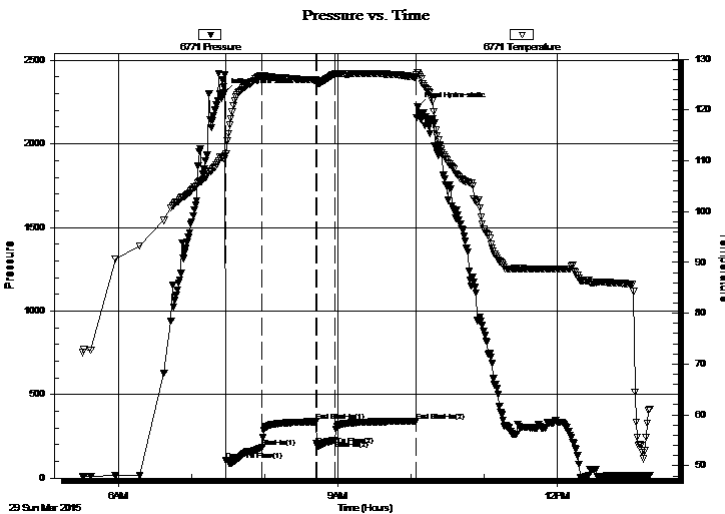
End Time: 13:15:38

Time On Btm: 2015.03.29 @ 07:26:53

Time Off Btm: 2015.03.29 @ 10:05:38

TEST COMMENT: B.O.B. in 2 min
 Bled off for 8 min. back to B.O.B. in 6 min.
 B.O.B. @ open
 Bled off throughout shutin , G.T.S. 35 min into shutin

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.12	110.38	Initial Hydro-static
2	107.44	111.33	Open To Flow (1)
31	184.25	126.63	Shut-In(1)
76	337.86	125.85	End Shut-In(1)
76	194.72	125.70	Open To Flow (2)
91	228.58	127.07	Shut-In(2)
157	339.98	126.41	End Shut-In(2)
159	2224.37	127.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	m c g o 30m 30g 40o under circ sub	0.59
438.00	c g o 30g 70o reversed out	6.14
62.00	c g o 25g 75o dumped	0.87
0.00	gas to surface on final shutin	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

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61476

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.03.29 @ 05:30:53

Tool Information

Drill Pipe:	Length: 4446.00 ft	Diameter: 3.80 inches	Volume: 62.37 bbl	Tool Weight:	1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 62.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4565.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4546.00	
Shut In Tool	5.00			4551.00	
Hydraulic tool	5.00			4556.00	
Packer	5.00			4561.00	20.00 Bottom Of Top Packer
Packer	4.00			4565.00	
Stubb	1.00			4566.00	
Recorder	0.00	6771	Outside	4566.00	
Recorder	0.00	8844	Inside	4566.00	
Perforations	21.00			4587.00	
Bullnose	5.00			4592.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61476

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.03.29 @ 05:30:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	m c g o 30m 30g 40o under circ sub	0.590
438.00	c g o 30g 70o reversed out	6.144
62.00	c g o 25g 75o dumped	0.870
0.00	gas to surface on final shutin	0.000

Total Length: 620.00 ft

Total Volume: 7.604 bbl

Num Fluid Samples: 0

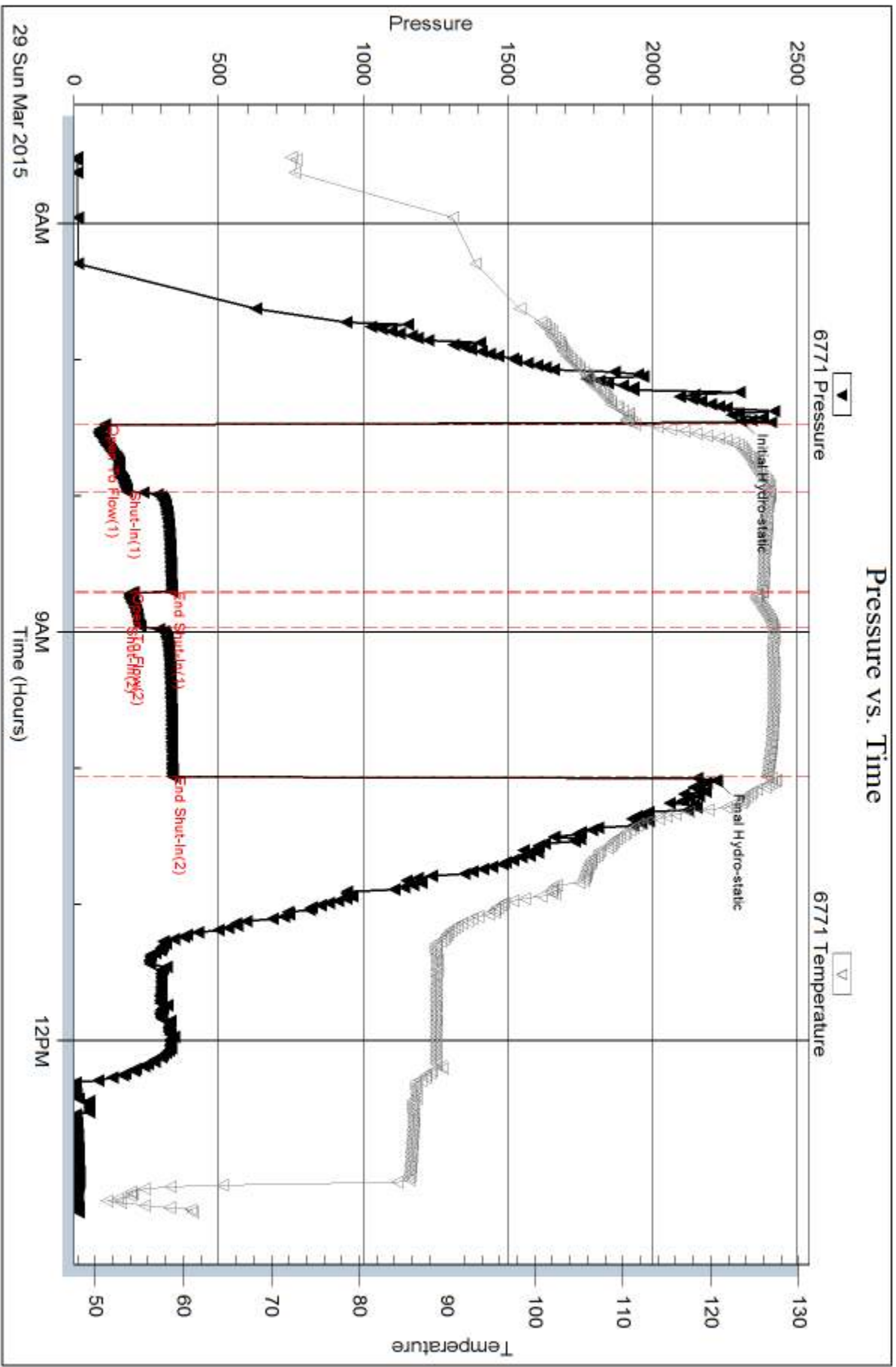
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



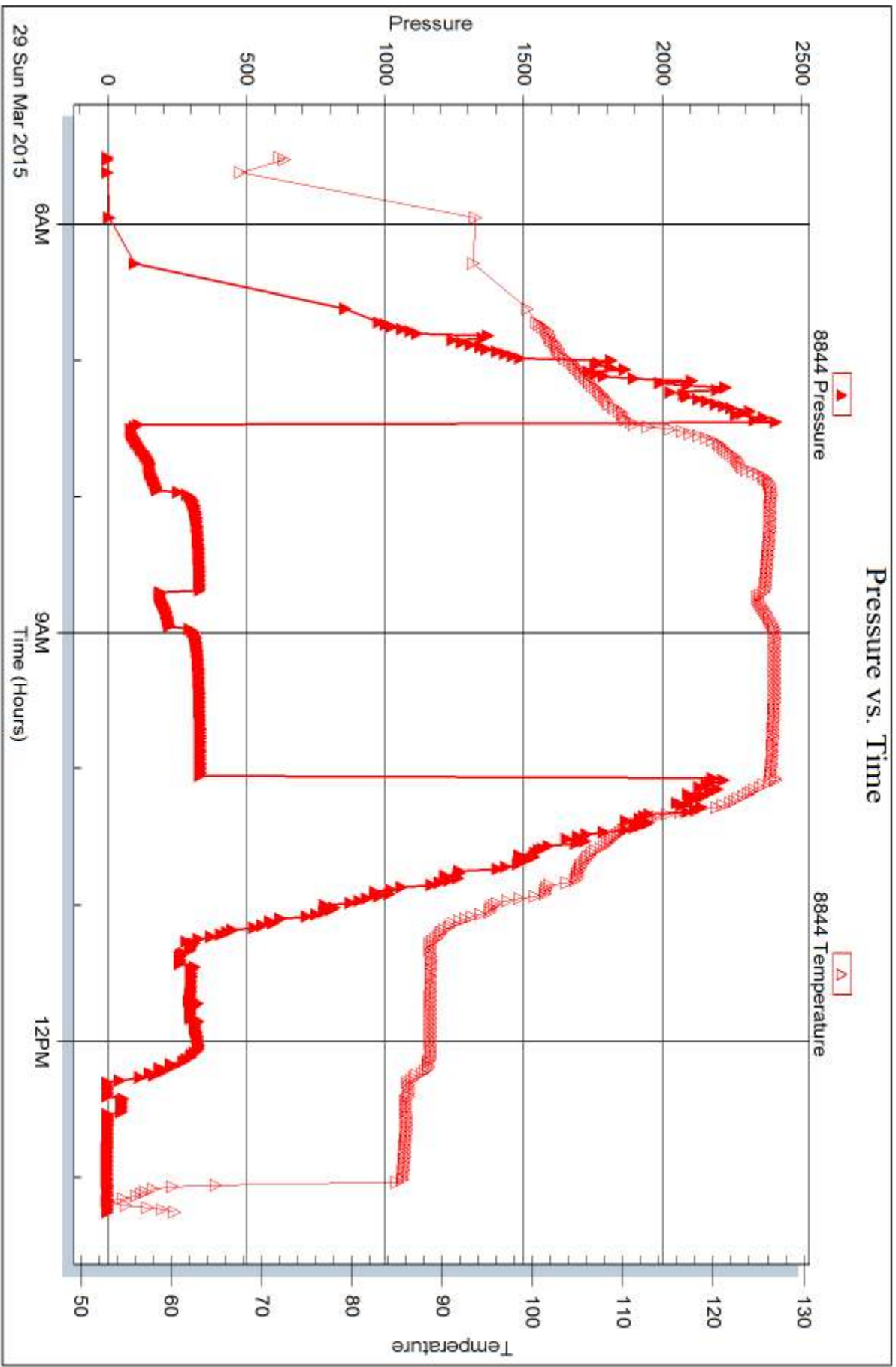
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Slawson Exploration Co. Inc**

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

ATTN: Pat Deenihan

James AY #4

23-10s-34w Thomas,KS

Start Date: 2015.03.30 @ 03:15:44

End Date: 2015.03.30 @ 11:45:59

Job Ticket #: 61477 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.03.31 @ 15:08:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc
 204 N Robinson Ave Ste 2300
 Oklahoma City, OK 73102
 ATTN: Pat Deenihan

23-10s-34w Thomas,KS

James AY #4

Job Ticket: 61477

DST#: 4

Test Start: 2015.03.30 @ 03:15:44

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:10:29
 Time Test Ended: 11:45:59
 Interval: **4649.00 ft (KB) To 4711.00 ft (KB) (TVD)**
 Total Depth: 4711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 84
 Reference Elevations: 3202.00 ft (KB)
 3197.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6771

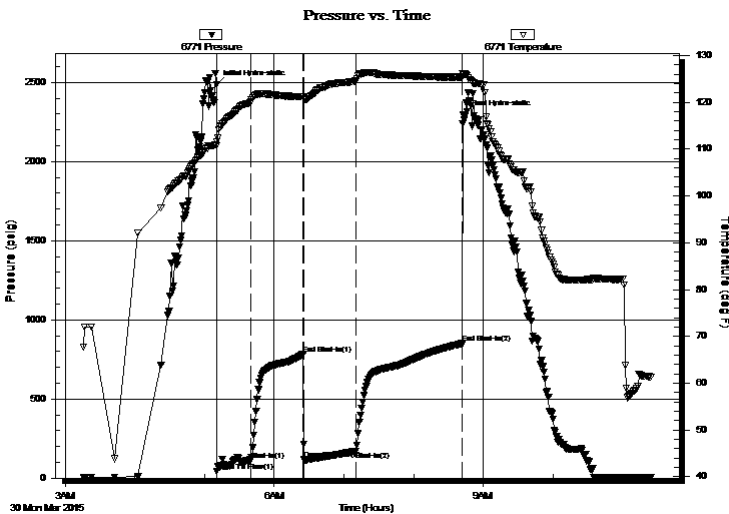
Outside

Press@RunDepth: 169.58 psig @ 4650.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.30 End Date: 2015.03.30 Last Calib.: 2015.03.30
 Start Time: 03:15:44 End Time: 11:24:59 Time On Btm: 2015.03.30 @ 05:10:14
 Time Off Btm: 2015.03.30 @ 08:42:44

TEST COMMENT: B.O.B. in 12 min
 No return
 B.O.B. in 10 min.
 4" in return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.67	111.56	Initial Hydro-static
1	44.32	110.66	Open To Flow (1)
30	115.95	120.04	Shut-In(1)
75	782.64	121.17	End Shut-In(1)
76	118.65	120.77	Open To Flow (2)
121	169.58	124.60	Shut-In(2)
212	851.17	125.36	End Shut-In(2)
213	2294.64	125.77	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
248.00	g m c o 35g 30m 35o	2.39
124.00	g m c o 30g 15m 55o	1.74
15.00	c g o 30g 70o	0.21
0.00	913' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Slawson Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

ATTN: Pat Deenihan

Job Ticket: 61477

DST#: 4

Test Start: 2015.03.30 @ 03:15:44

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 05:10:29

Time Test Ended: 11:45:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 84

Interval: **4649.00 ft (KB) To 4711.00 ft (KB) (TVD)**

Reference Elevations: 3202.00 ft (KB)

Total Depth: 4711.00 ft (KB) (TVD)

3197.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press@RunDepth: psig @ 4650.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.30

End Date: 2015.03.30

Last Calib.: 2015.03.30

Start Time: 03:15:26

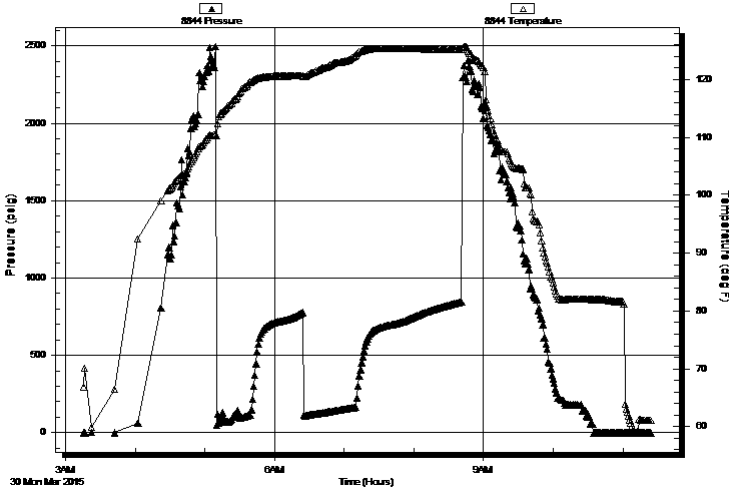
End Time: 11:24:26

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 12 min
No return
B.O.B. in 10 min.
4" in return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	g m c o 35g 30m 35o	2.39
124.00	g m c o 30g 15m 55o	1.74
15.00	c g o 30g 70o	0.21
0.00	913' gas in pipe	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

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61477

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.03.30 @ 03:15:44

Tool Information

Drill Pipe:	Length: 4542.00 ft	Diameter: 3.80 inches	Volume: 63.71 bbl	Tool Weight:	1500.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 64.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4649.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4630.00	
Shut In Tool	5.00			4635.00	
Hydraulic tool	5.00			4640.00	
Packer	5.00			4645.00	20.00 Bottom Of Top Packer
Packer	4.00			4649.00	
Stubb	1.00			4650.00	
Recorder	0.00	6771	Outside	4650.00	
Recorder	0.00	8844	Inside	4650.00	
Perforations	22.00			4672.00	
Change Over Sub	1.00			4673.00	
Drill Pipe	32.00			4705.00	
Change Over Sub	1.00			4706.00	
Bullnose	5.00			4711.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Slaw son Exploration Co. Inc

23-10s-34w Thomas,KS

204 N Robinson Ave Ste 2300
Oklahoma City, OK 73102

James AY #4

Job Ticket: 61477

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.03.30 @ 03:15:44

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:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
248.00	g m c o 35g 30m 35o	2.386
124.00	g m c o 30g 15m 55o	1.739
15.00	c g o 30g 70o	0.210
0.00	913' gas in pipe	0.000

Total Length: 387.00 ft

Total Volume: 4.335 bbl

Num Fluid Samples: 0

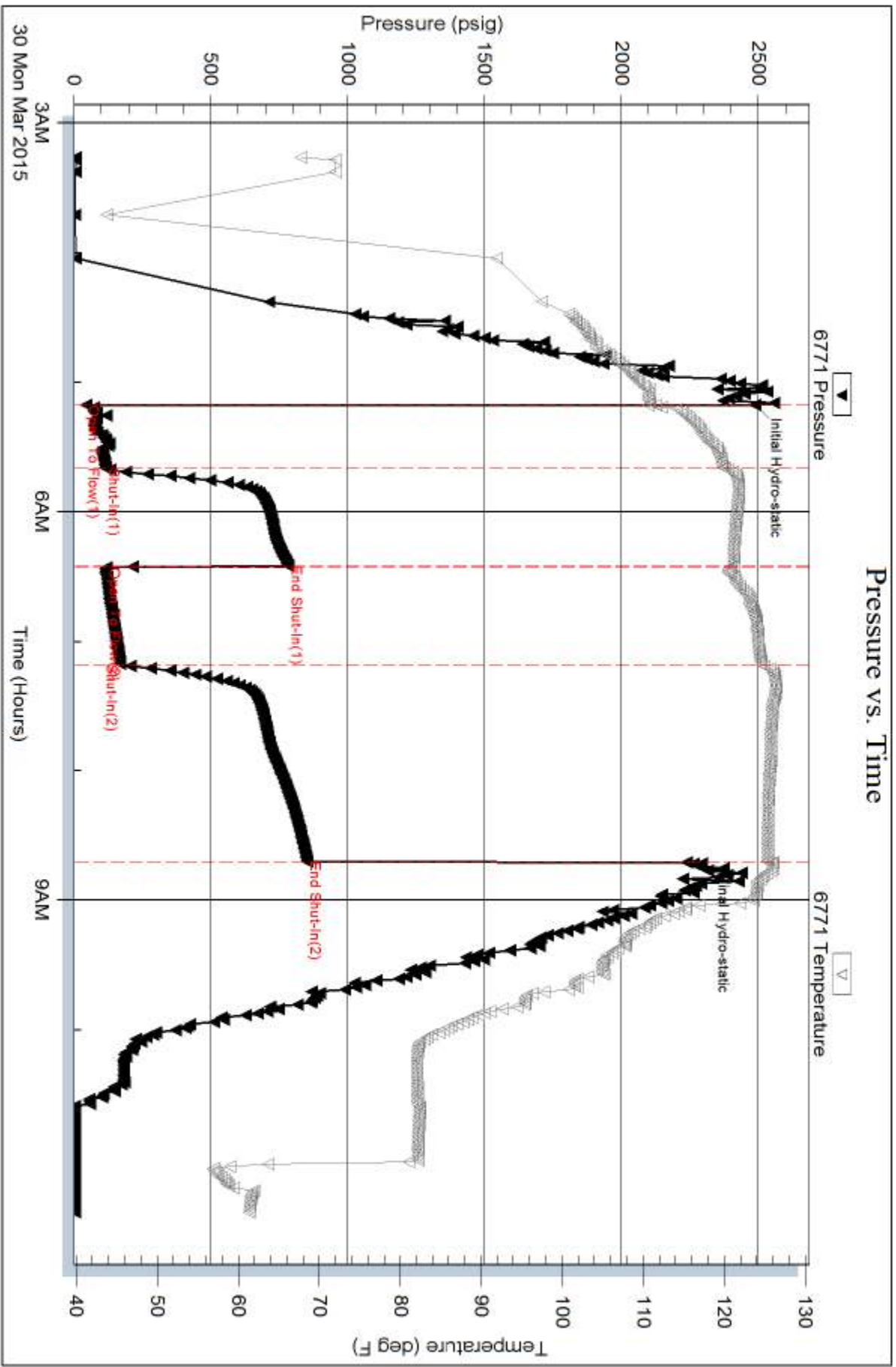
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



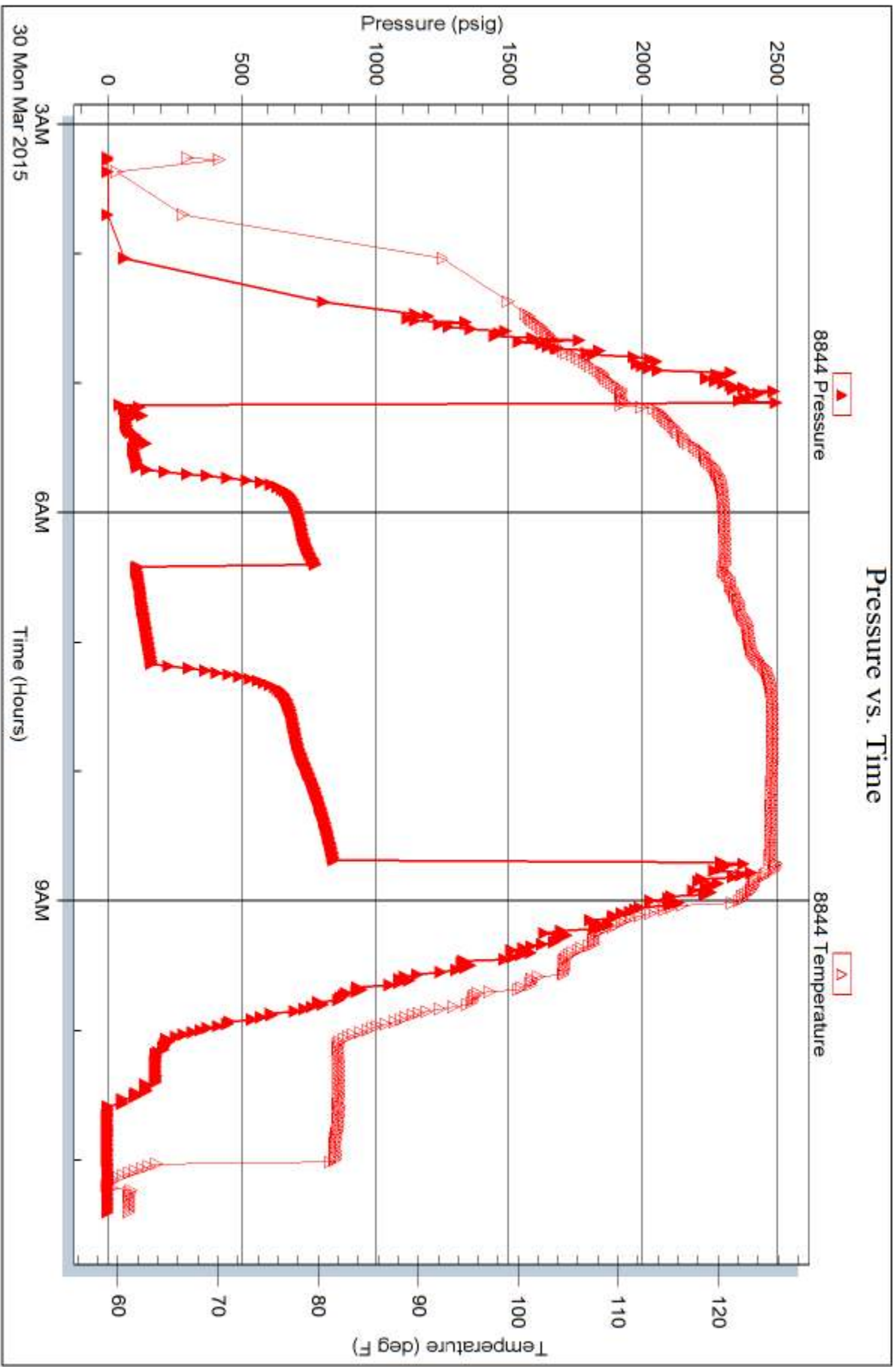
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61477

Printed: 2015.03.31 @ 15:08:17



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61474

Well Name & No. James AV #4 Test No. #1 Date 3-27-15
 Company Stawson Exploration Co. Inc. Elevation 3202 KB 3197 GL
 Address 204 W. Robinson Ave Ste 2300 Oklahoma City, OK 73102-6891
 Co. Rep / Geo. Pat Deenthan Rig WW #8
 Location: Sec. 23 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4163 4193 Zone Tested B
 Anchor Length 30 Drill Pipe Run 4040' Mud Wt. 8.9
 Top Packer Depth 4158 Drill Collars Run 120' Vis 54
 Bottom Packer Depth 4163 Wt. Pipe Run --- WL 3.6
 Total Depth 4193 Chlorides 6000 ppm System LCM #1

Blow Description B.O.B. in 2 min
No return
B.O.B. in 3 1/2 min.
No return

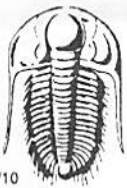
Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>186</u>	<u>SMCW</u>		<u>90</u>	<u>10</u>	
<u>2046</u>	<u>Water</u>		<u>100</u>		

Rec Total 2356 BHT 125° Gravity --- API RW 169 @ 45° F Chlorides 68,000 ppm

(A) Initial Hydrostatic 2074 Test 1150 T-On Location 18:10
 (B) First Initial Flow 199 Jars _____ T-Started 19:05
 (C) First Final Flow 767 Safety Joint _____ T-Open 21:16
 (D) Initial Shut-In 1225 Circ Sub N/C T-Pulled 23:40
 (E) Second Initial Flow 784 Hourly Standby _____ T-Out 02:15
 (F) Second Final Flow 1087 Mileage 130 RT 130 Comments _____
 (G) Final Shut-In 1225 Sampler _____
 (H) Final Hydrostatic 1985 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1530
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Approved By Pat Deenthan Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61475

Well Name & No. James AY #4 Test No. #2 Date 3/28/15
 Company Stamson Exploration Co. Inc. Elevation 3202 KB 3197 GL
 Address 204 N. Robinson Ave Ste 2300, Oklahoma City, OK, 73102-6891
 Co. Rep / Geo. Pat Deenihan Rig WW #8
 Location: Sec. 23 Twp. 105 Rge. 34 W Co. Thomas State Ks

Interval Tested 4345 4398 Zone Tested _____
 Anchor Length _____ Drill Pipe Run 4230' Mud Wt. 8.9
 Top Packer Depth _____ Drill Collars Run 120' Vis 56
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 6.4
 Total Depth _____ Chlorides 10,000 ppm System LCM #1

Blow Description 6" in blow
No return
1 1/2" in blow
No return

Rec	Feet of	%gas	spots	%oil	%water	%mud
<u>40'</u>	<u>MLW (6' in free oil tops)</u>			<u>65</u>	<u>35</u>	
<u>180'</u>	<u>SMCW w/oil spots</u>			<u>85</u>	<u>15</u>	
Rec _____	Feet of _____	%gas _____	spots _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	spots _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	spots _____	%oil _____	%water _____	%mud _____

Rec Total 220' BHT 119° Gravity _____ API RW, 352 @ 52 ° F Chlorides 27500 ppm

- (A) Initial Hydrostatic 2221
- (B) First Initial Flow 18
- (C) First Final Flow 81
- (D) Initial Shut-In 980
- (E) Second Initial Flow 87
- (F) Second Final Flow 119
- (G) Final Shut-In 954
- (H) Final Hydrostatic 2172

- Test 1150
- Jars _____
- Safety Joint _____
- Circ Sub n/c
- Hourly Standby _____
- Mileage BORT 130
- Sampler _____
- Straddle _____
- Shale Packer 250
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1530

- T-On Location 00:30
- T-Started 00:55
- T-Open 02:41
- T-Pulled 06:11
- T-Out 08:20
- Comments _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1530
- MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 43
 Final Shut-In 90

Approved By Patrick Deenihan Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61476**

Well Name & No. James AV #4 Test No. #3 Date 3-29-15
 Company Stawson Exploration Co Inc Elevation 3202 KB 3197 GL
 Address 204 N Robinson Ave Ste 2300, Oklahoma City, OK 73102-6891
 Co. Rep / Geo. Pat Deenhan Rig WW #8
 Location: Sec. 23 Twp. 10S Rge. 34W Co. Thomas State Ks

Interval Tested 4565 4592 Zone Tested Myrick Station
 Anchor Length 27' Drill Pipe Run 4446 Mud Wt. 9.0
 Top Packer Depth 4560 Drill Collars Run 120' Vis 54
 Bottom Packer Depth 4565 Wt. Pipe Run --- WL 8.0
 Total Depth 4592 Chlorides 14000 ppm System LCM #1

Blow Description B.O.B. on 2 min
Bled off for 8 min back to B.O.B. in 6 min
B.O.B. @ open.

Bled off throughout shut in G.I.S. 35 min into shut in

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>Dumped C90</u>	<u>25%</u>	<u>75%</u>		
<u>438</u>	<u>C90 (Reversed out)</u>	<u>30%</u>	<u>70%</u>		
<u>120</u>	<u>mc90 (undercirc sub)</u>	<u>30%</u>	<u>40%</u>		<u>30%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 620' BHT 127° Gravity 36 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic <u>2307</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>05:05</u>
(B) First Initial Flow <u>107</u>	<input type="checkbox"/> Jars <u>---</u>	T-Started <u>09:30</u>
(C) First Final Flow <u>184</u>	<input type="checkbox"/> Safety Joint <u>---</u>	T-Open <u>07:27</u>
(D) Initial Shut-In <u>337</u>	<input checked="" type="checkbox"/> Circ Sub <u>450°</u> <u>50</u>	T-Pulled <u>09:57</u>
(E) Second Initial Flow <u>194</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>13:30</u>
(F) Second Final Flow <u>228</u>	<input checked="" type="checkbox"/> Mileage <u>130RT</u> <u>130</u>	Comments <u>---</u>
(G) Final Shut-In <u>339</u>	<input type="checkbox"/> Sampler <u>---</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
(H) Final Hydrostatic <u>2224</u>	<input type="checkbox"/> Straddle <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Initial Shut-In <u>413</u>	<input type="checkbox"/> Extra Packer <u>---</u>	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	Total <u>1580</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>---</u>	MP/DST Disc't <u>---</u>
	<input type="checkbox"/> Accessibility <u>---</u>	
	Sub Total <u>1580</u>	

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61477

Well Name & No. James AV #4 Test No. #4 Date 3/30/15
 Company Shawson Exploration Co Inc. Elevation 3202 KB 3197 GL
 Address 204 W. Robinson Ave. Ste. 2300 Oklahoma City, OK 73102-6891
 Co. Rep / Geo. Pat Deenihan Rig WV #8
 Location: Sec. 23 Twp. 105 Rge. 34w Co. Thomas State KS

Interval Tested 4649 4711 Zone Tested Johnson
 Anchor Length 62 Drill Pipe Run 43612 Mud Wt. 9.1
 Top Packer Depth 4644 Drill Collars Run 120 Vis 57
 Bottom Packer Depth 4649 Wt. Pipe Run _____ WL 8.8
 Total Depth 4711 Chlorides 11,000 ppm System LCM #1

Blow Description B.O.B. in 12 min.
No return
B.O.B. in 10 min.
4" in. Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>C90</u>	<u>30</u>	<u>70</u>		
<u>124</u>	<u>gmco</u>	<u>30</u>	<u>55</u>	<u>15</u>	<u>15</u>
<u>248</u>	<u>gmco</u>	<u>35</u>	<u>35</u>	<u>30</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>913' Gas in pipe</u>	%gas	%oil	%water	%mud
Rec Total	<u>387'</u>	BHT <u>126°</u>	Gravity <u>25</u>	API RW <u>_____</u>	@ <u>_____</u> °F Chlorides <u>_____</u> ppm

(A) Initial Hydrostatic 2488 Test 1150 T-On Location 03:05
 (B) First Initial Flow 44 Jars _____ T-Started 03:15
 (C) First Final Flow 115 Safety Joint _____ T-Open 05:10
 (D) Initial Shut-In 782 Circ Sub N/C T-Pulled 08:40
 (E) Second Initial Flow 118 Hourly Standby _____ T-Out 11:45
 (F) Second Final Flow 169 Mileage 130 RT 130 Comments Released & Loaded tools on 3/30/15 @ 11:45 AM.
 (G) Final Shut-In 851 Sampler _____
 (H) Final Hydrostatic 2294 Straddle _____ Ruined Shale Packer _____

Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1530
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 90
 Sub Total 1530
 Approved By Pat Deenihan Our Representative [Signature]

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