

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251638
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1251638

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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

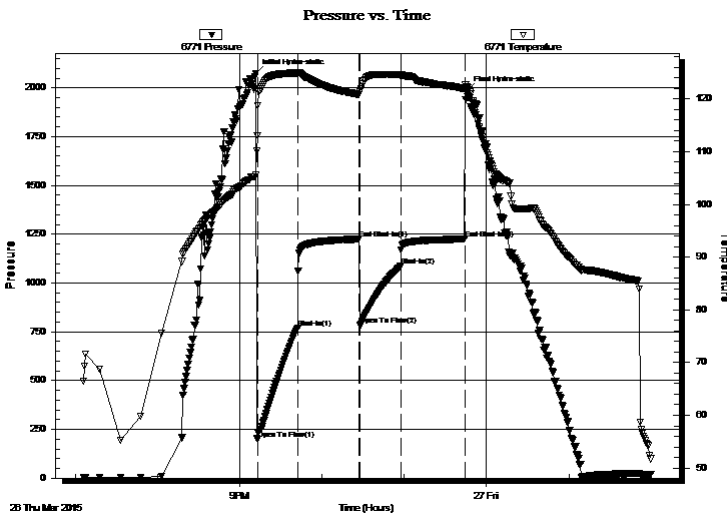
Outside

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

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 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

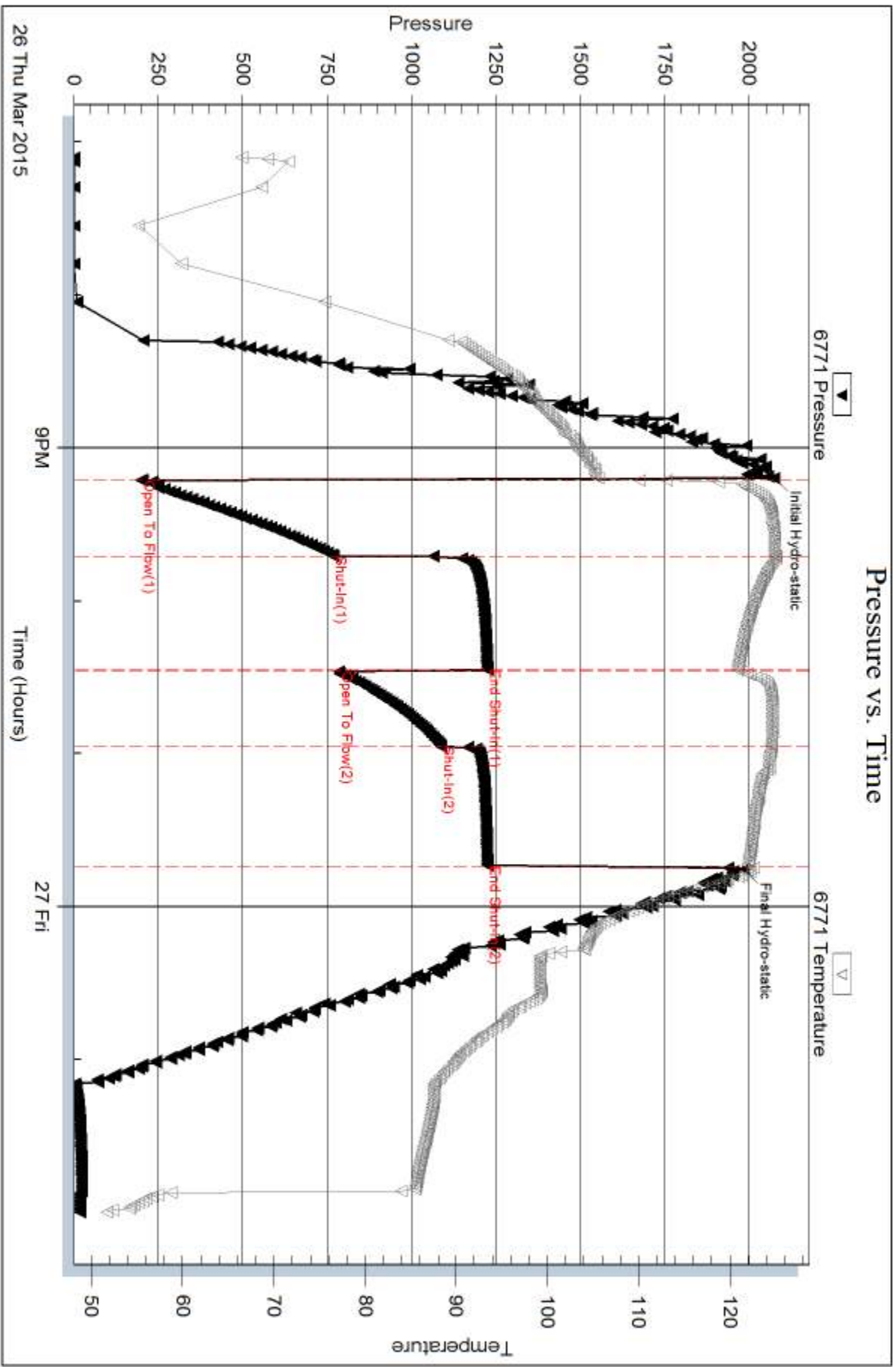
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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





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

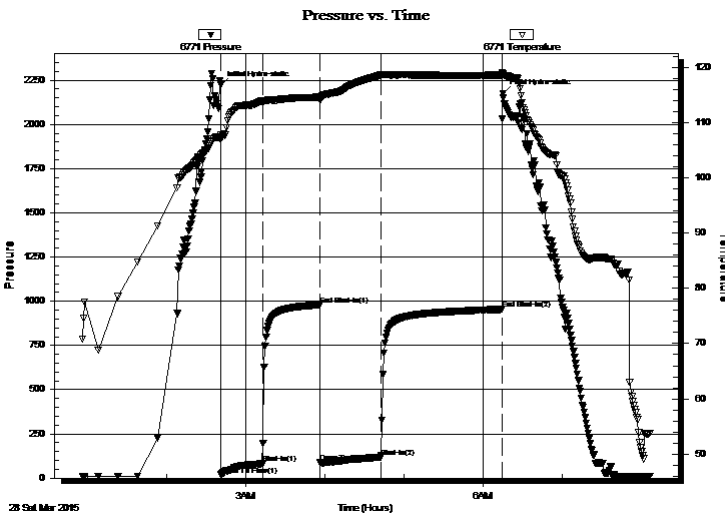
Serial #: 6771

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

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

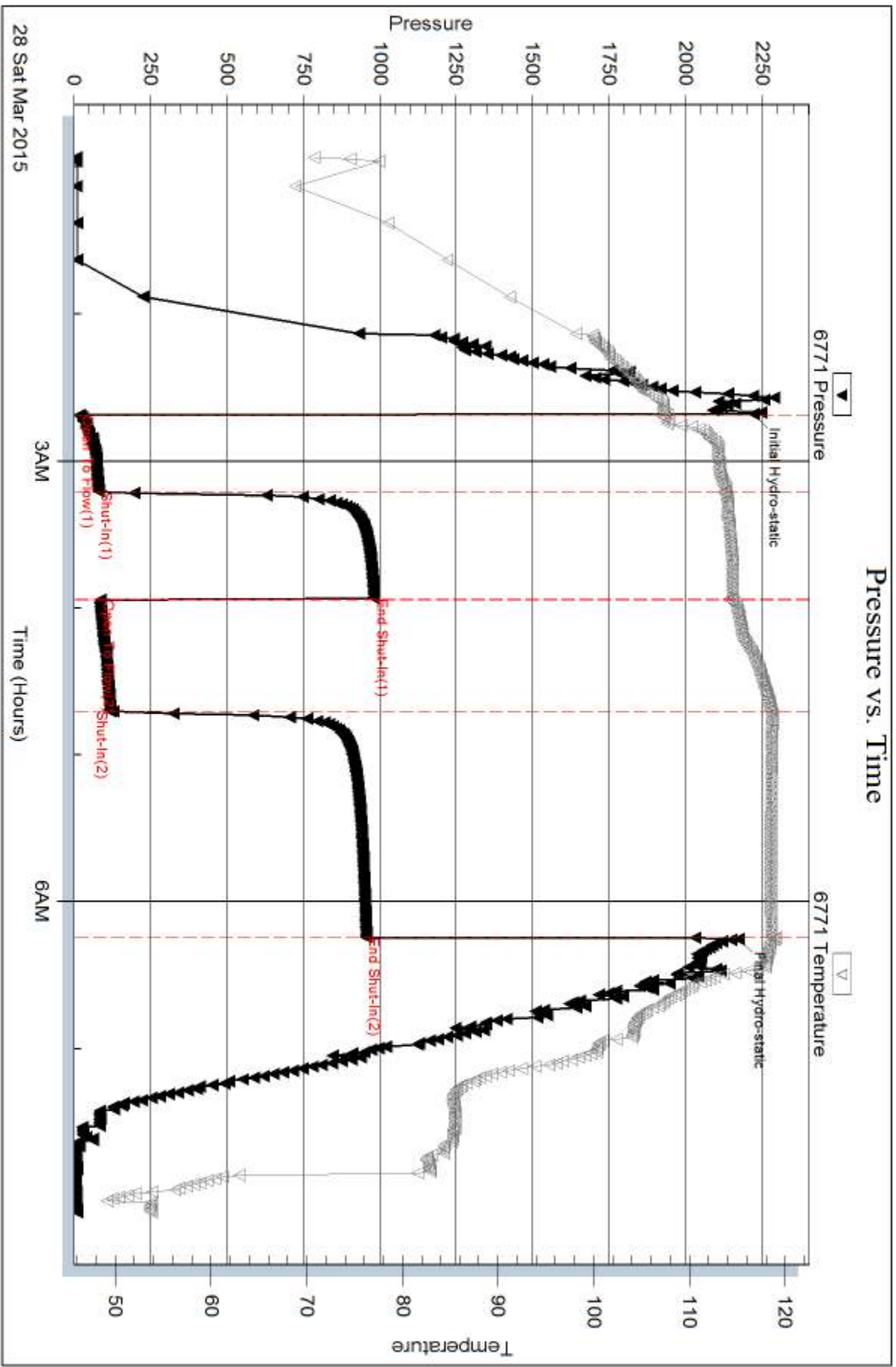
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 27500 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 10000.00 ppm		
Filter Cake: 1.00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



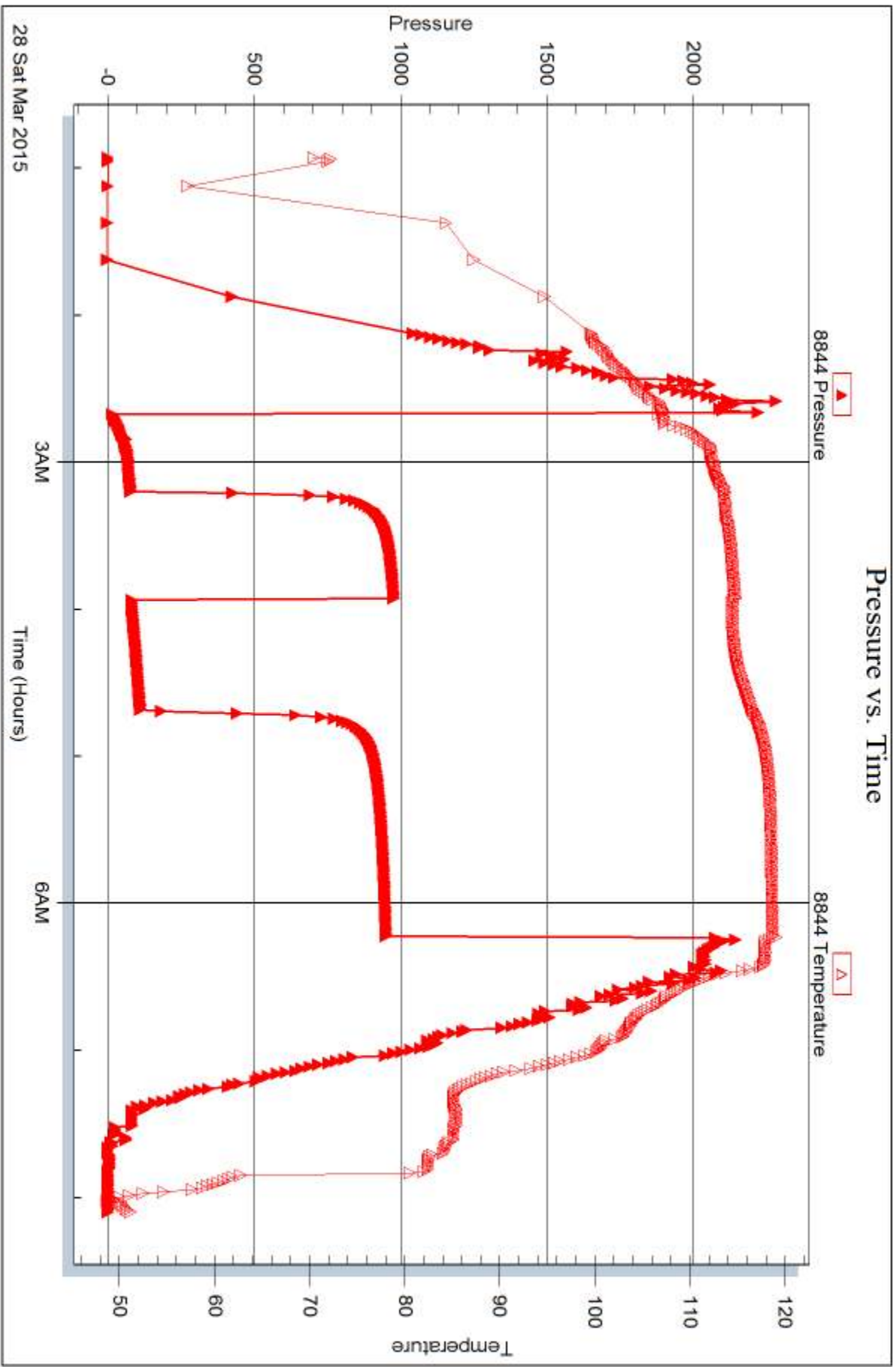
Serial #: 8844

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
 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
 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

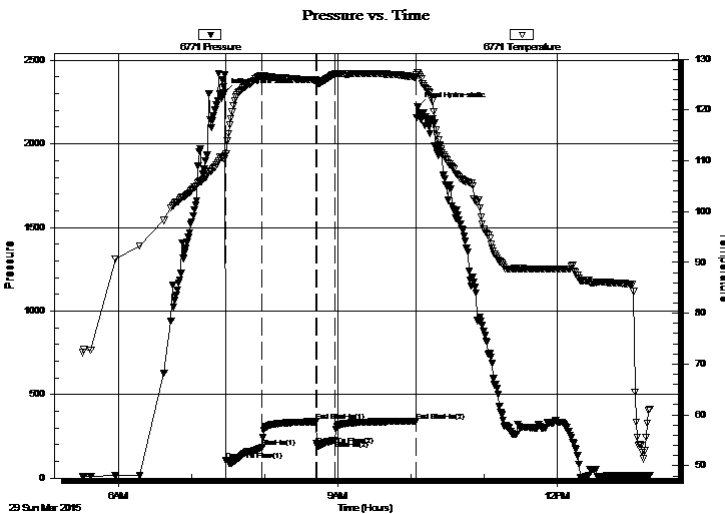
Serial #: 6771

Outside

Press@RunDepth: 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

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:

bbf

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 bbf
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

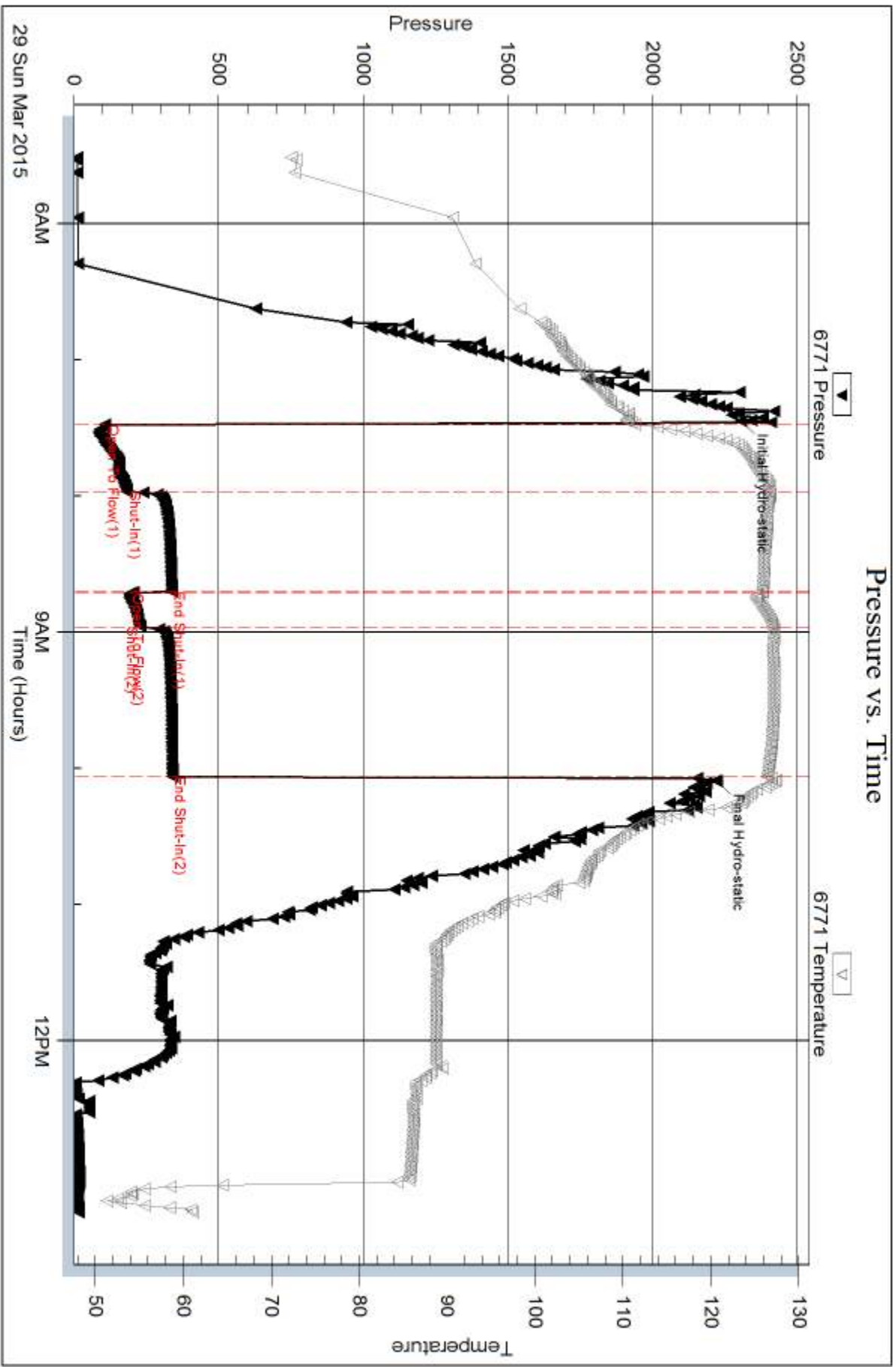
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



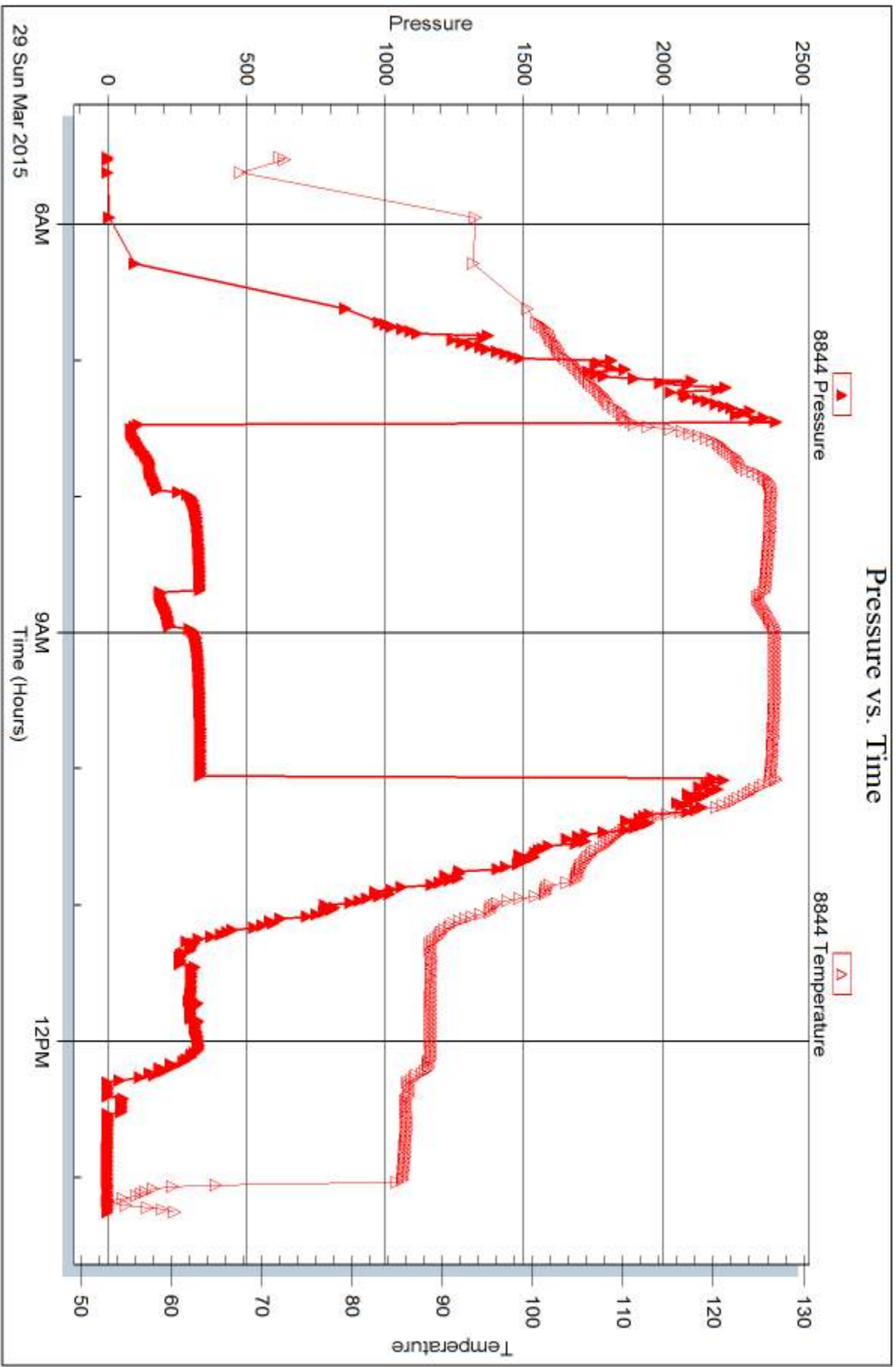
Serial #: 8844

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

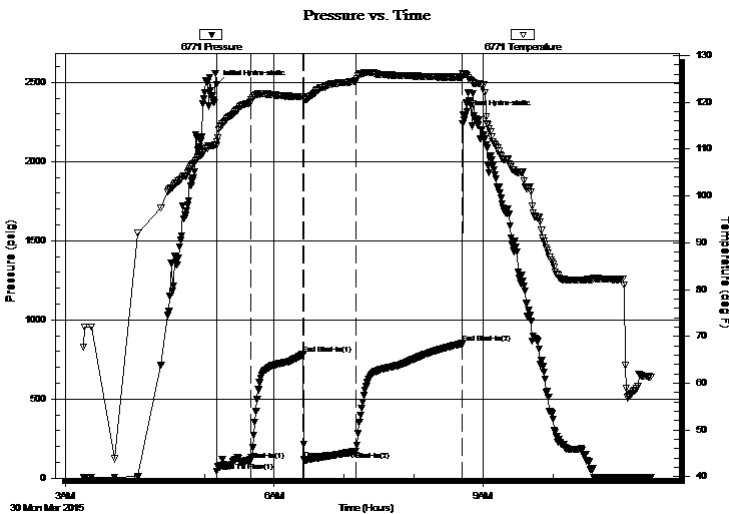
Outside

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

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

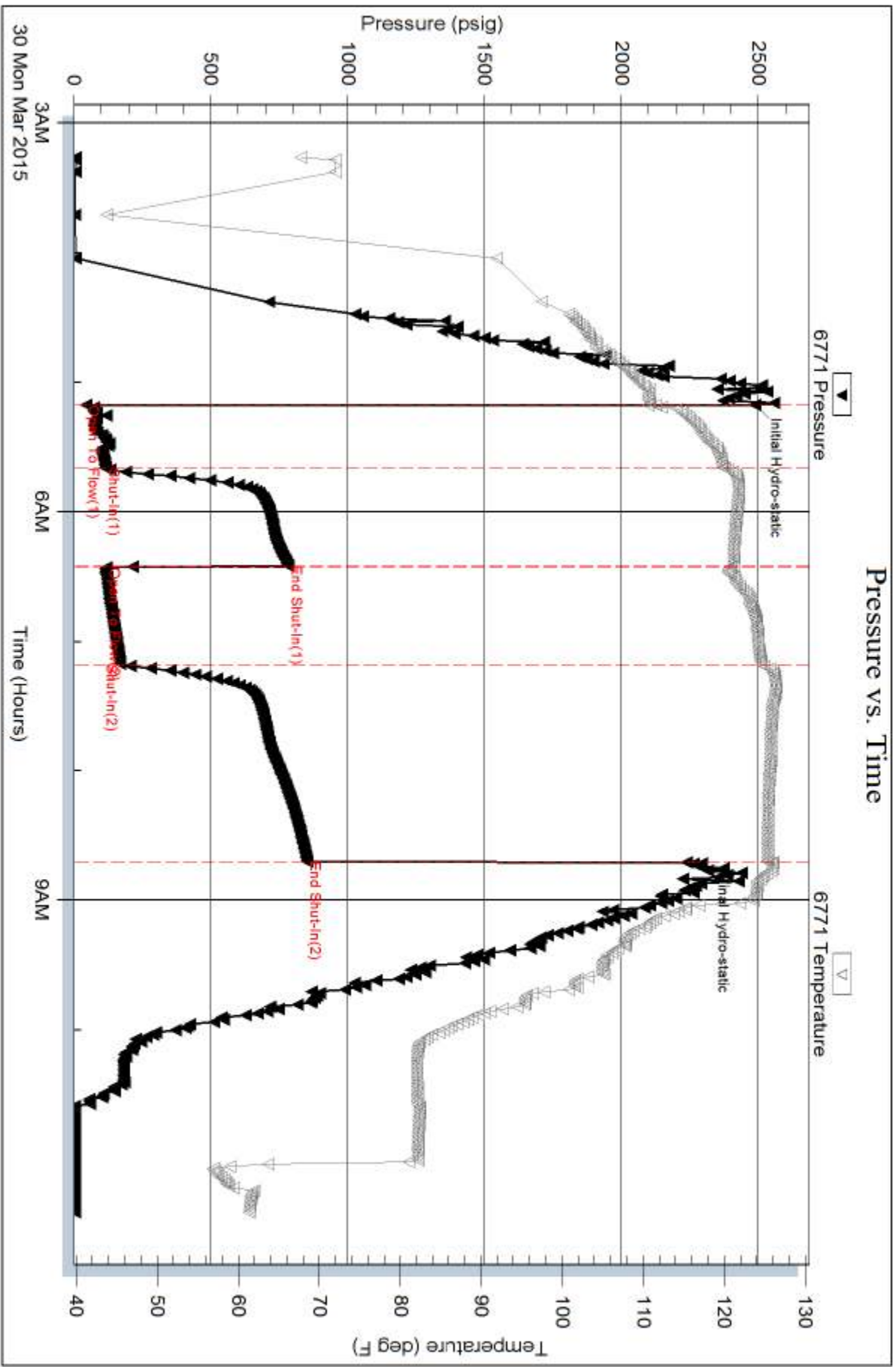
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



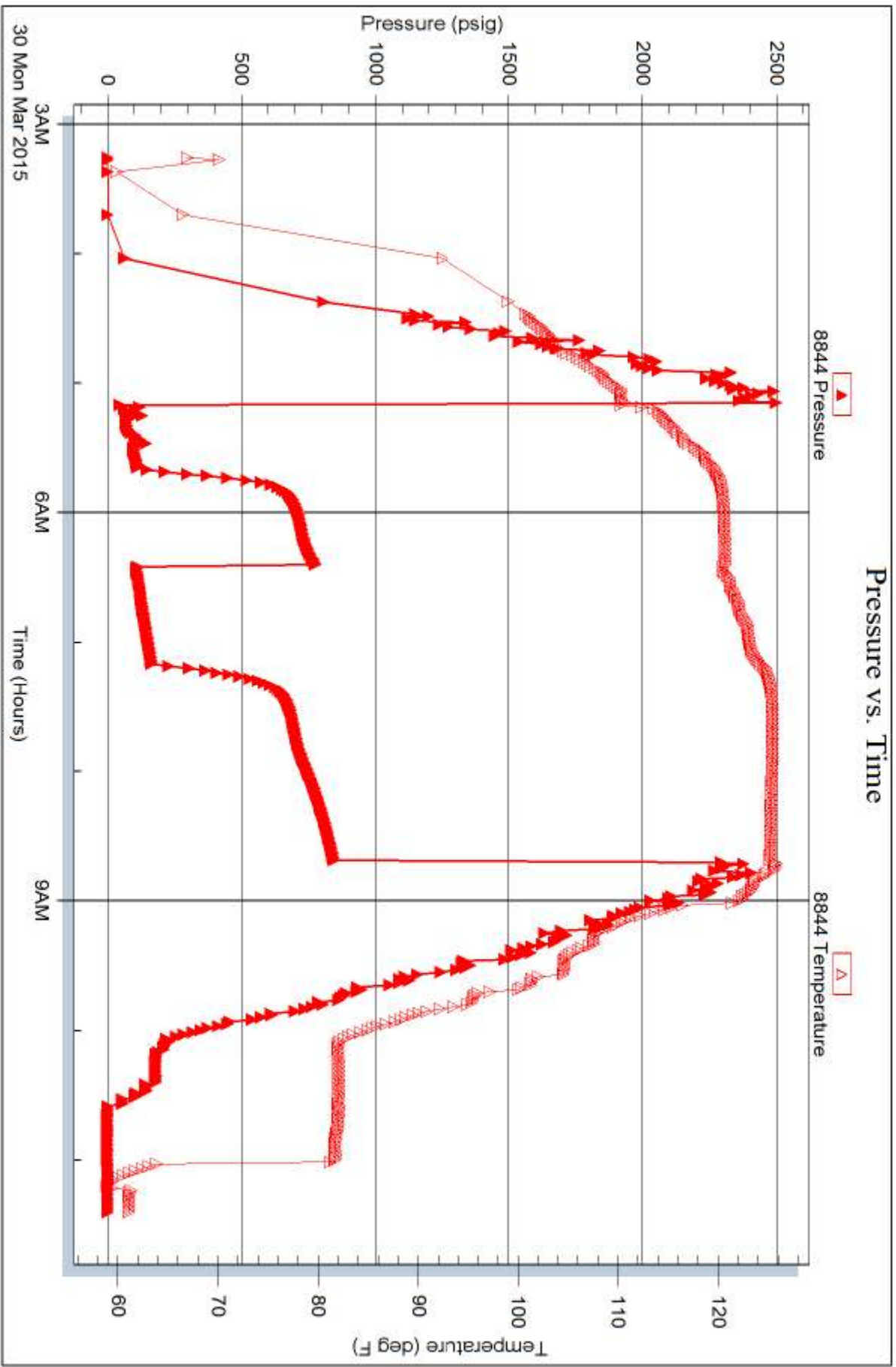
Serial #: 8844

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

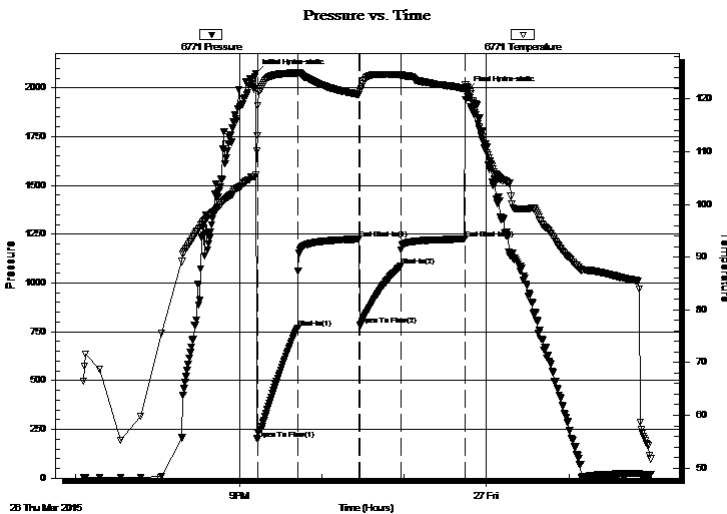
Outside

Press@RunDepth: 1087.43 psig @ 4164.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.26 End Date: 2015.03.27 Last Calib.: 2015.03.27
 Start Time: 19:06:01 End Time: 02:00:16 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

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 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

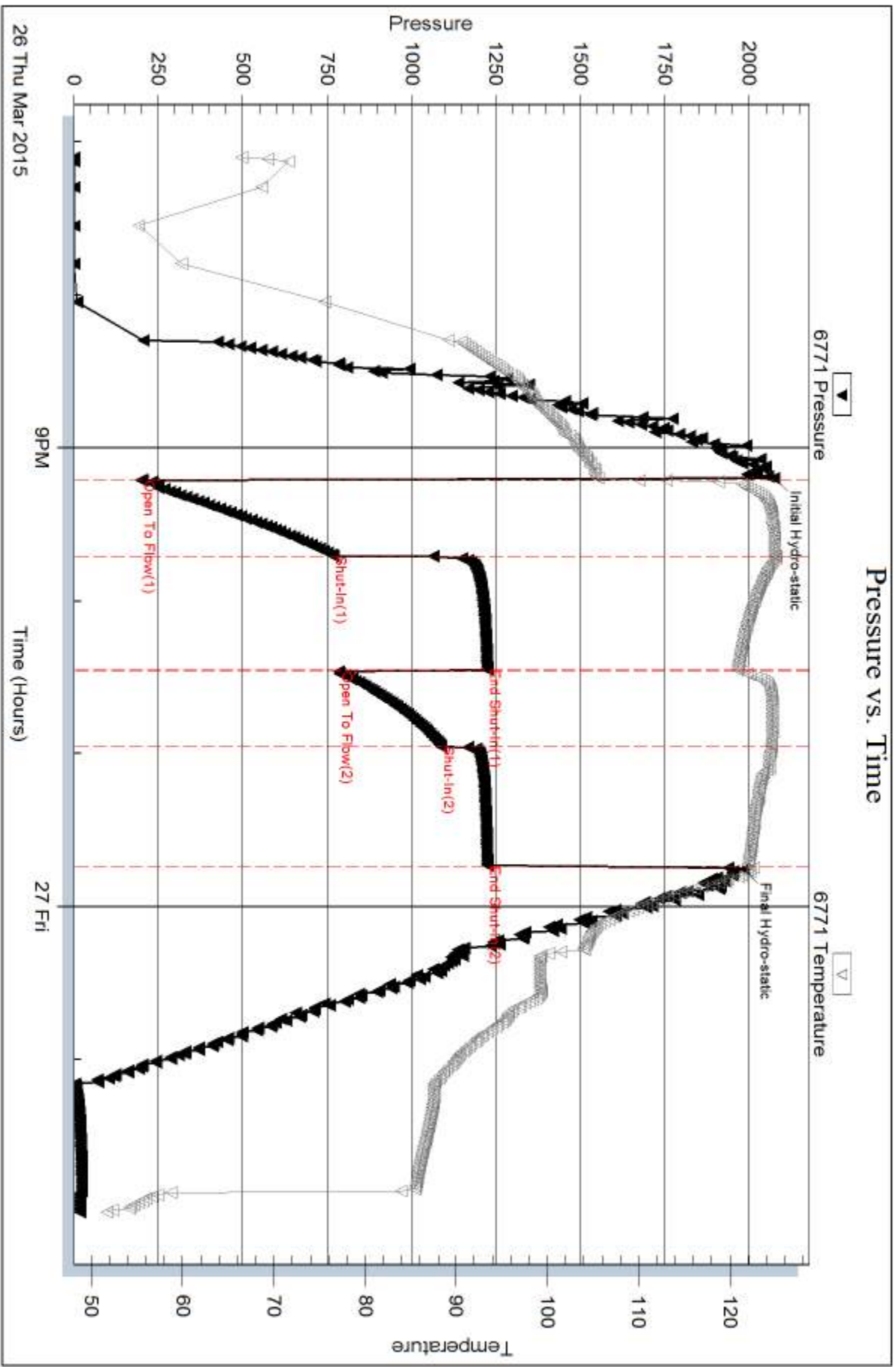
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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



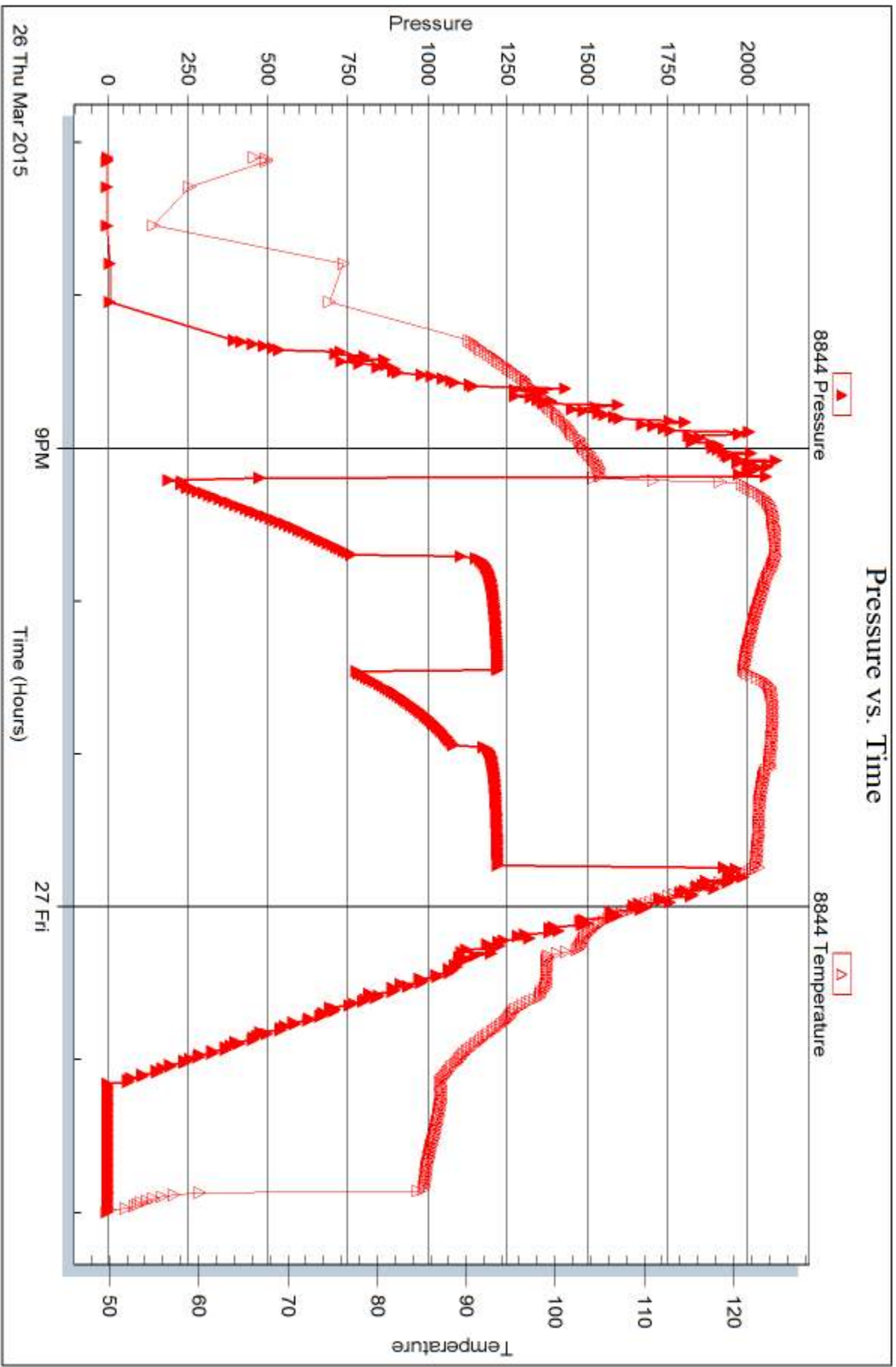
Serial #: 8844

Inside

Saw son Exploration Co. Inc

James A Y #4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61474

Printed: 2015.03.31 @ 15:10:04



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

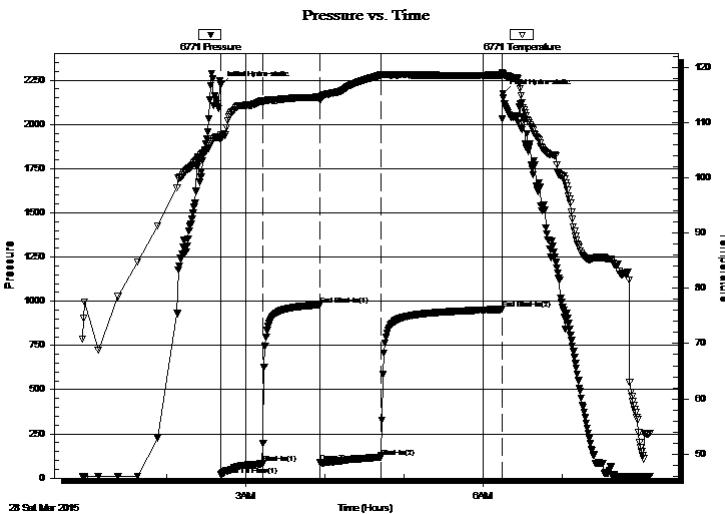
Serial #: 6771

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

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

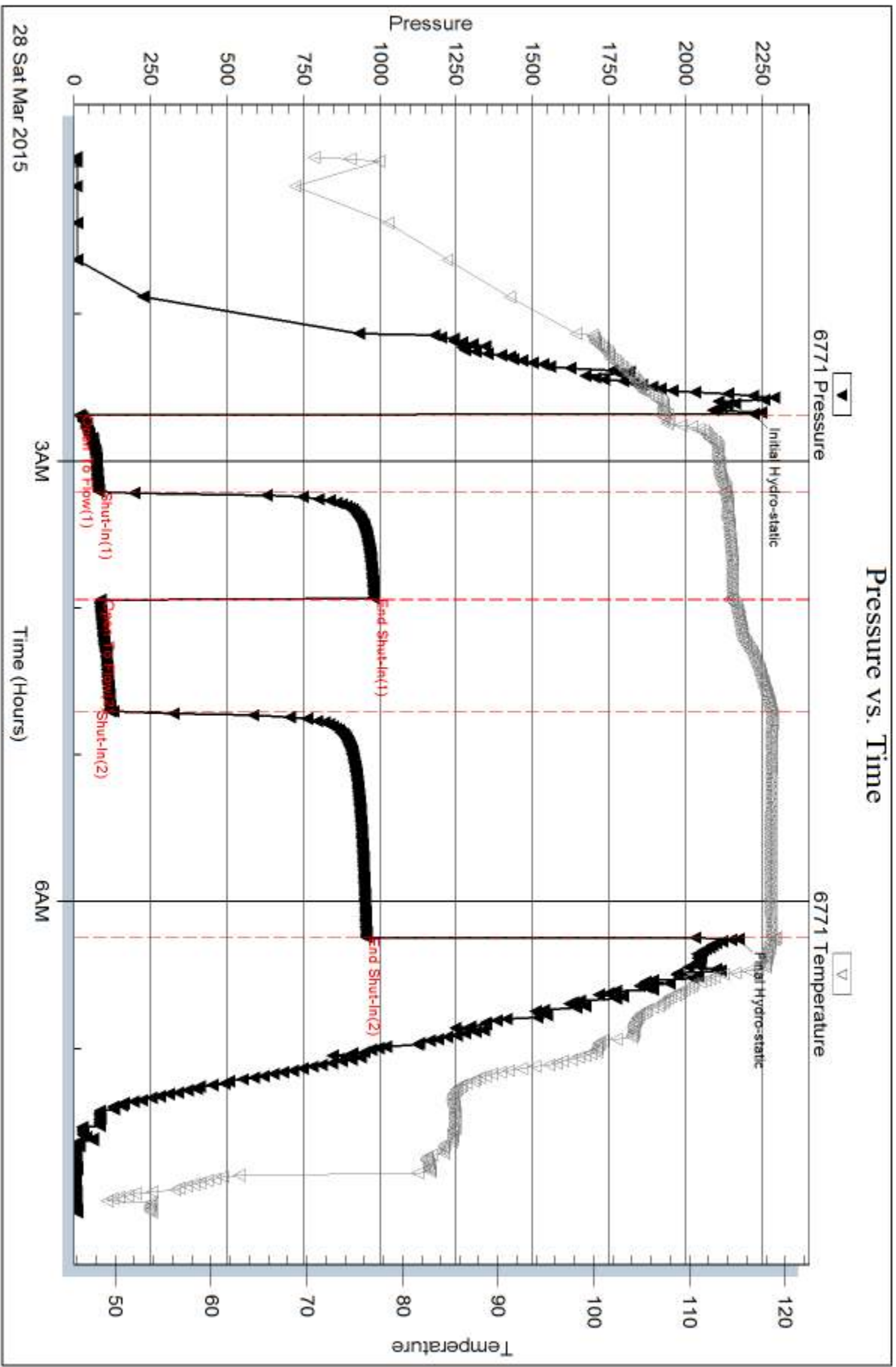
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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



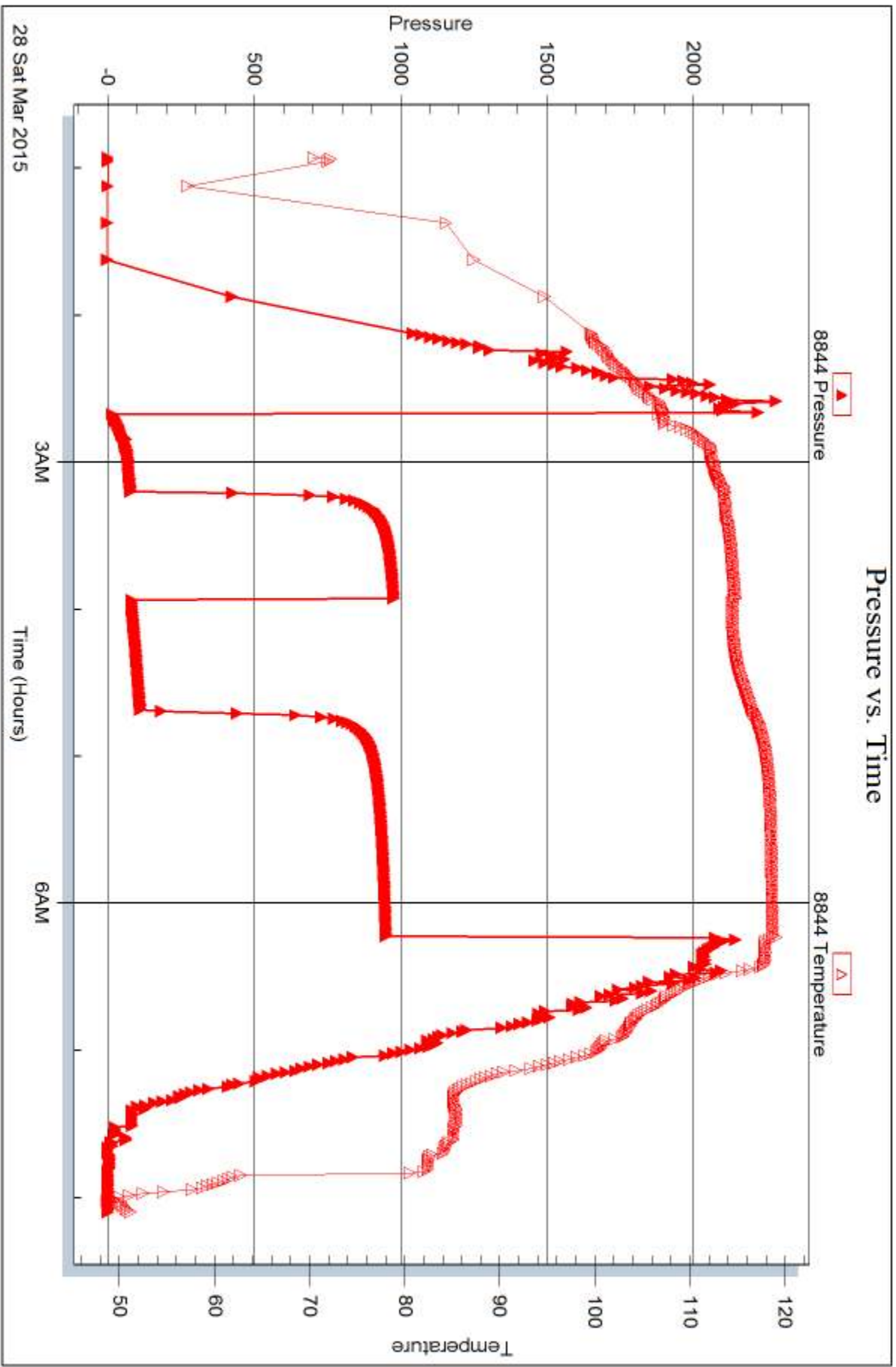
Serial #: 8844

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

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

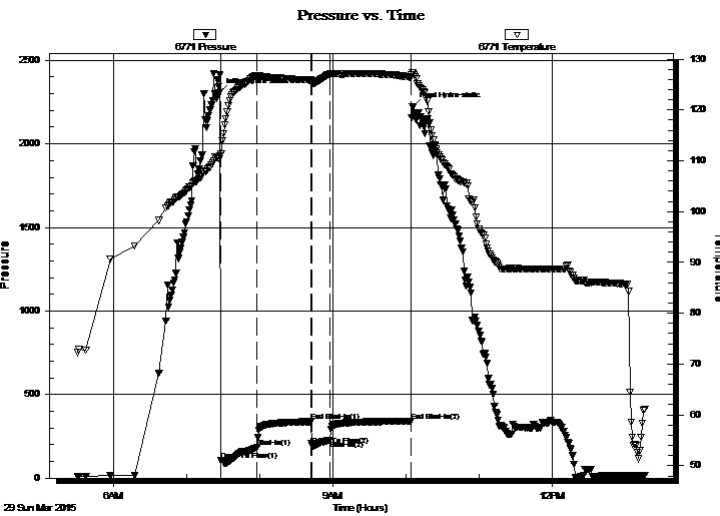
Start Time: 05:30:53

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

* 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: 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:

bbf

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 bbf
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 bbf

Num Fluid Samples: 0

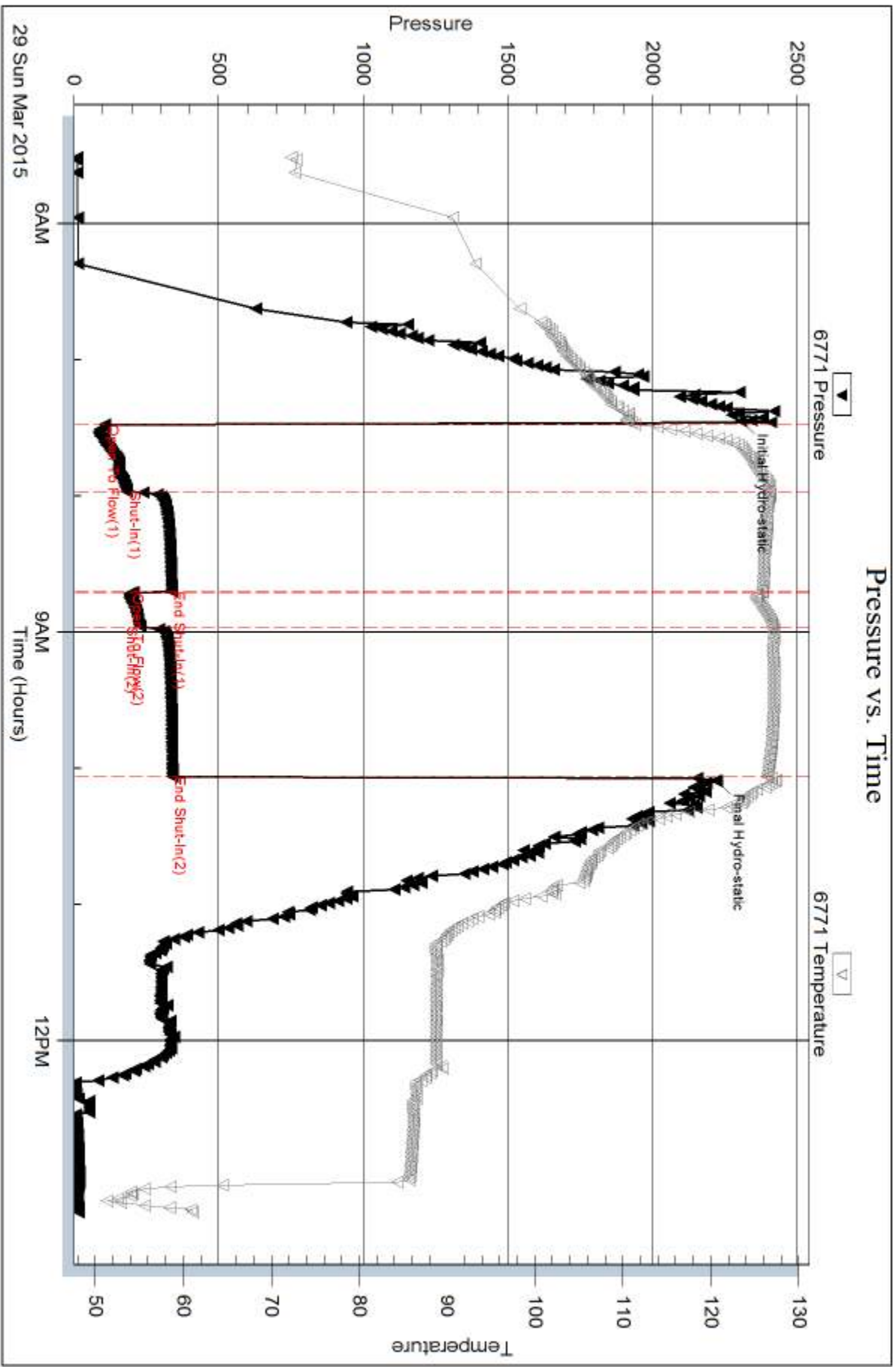
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



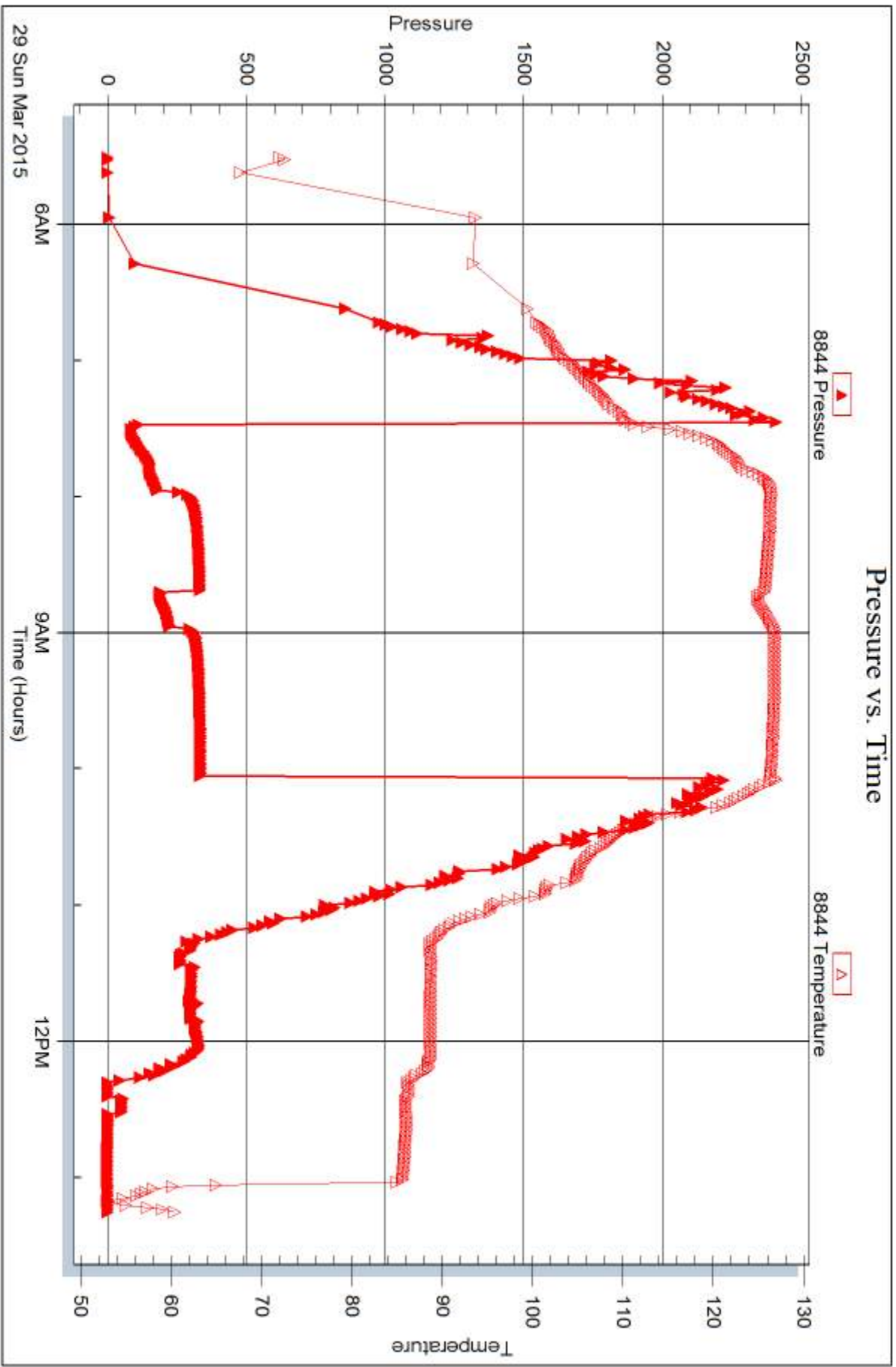
Serial #: 8844

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

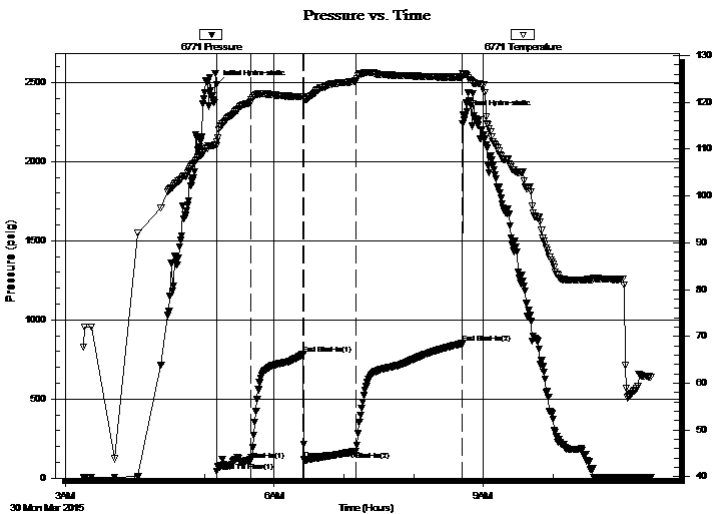
Serial #: 6771

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

* 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

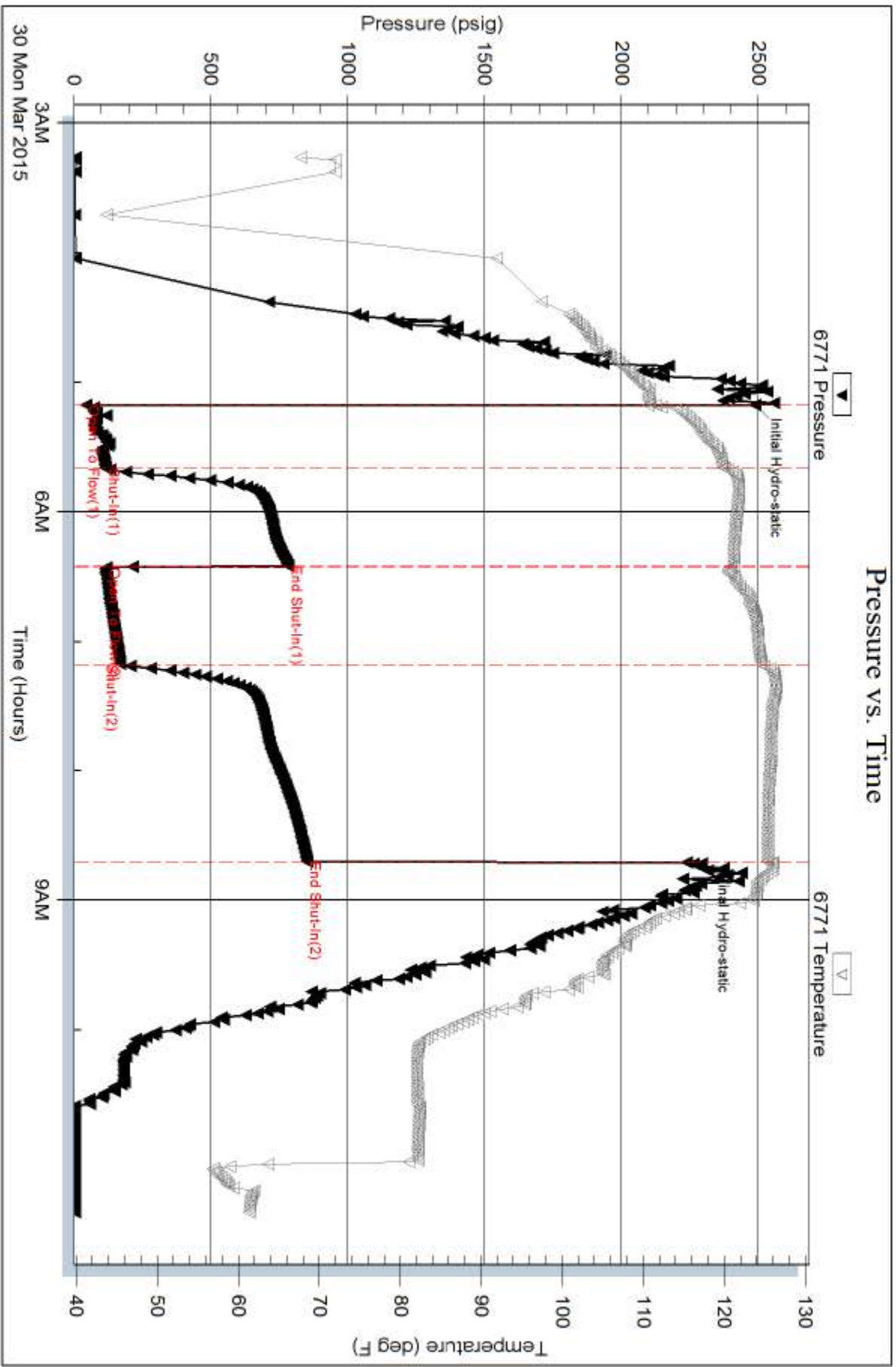
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



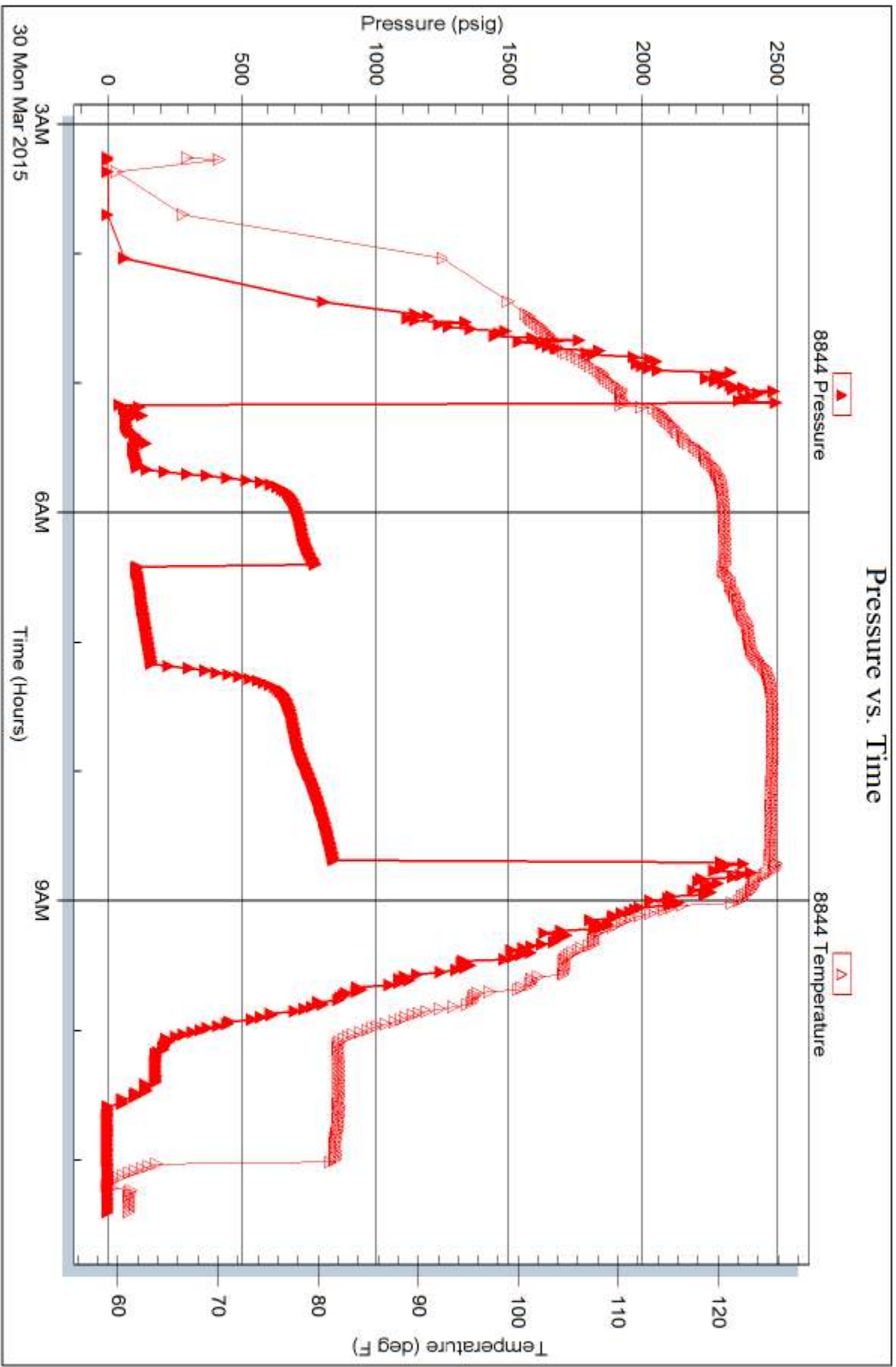
Serial #: 8844

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



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 mwd
No return
B.O.B. in 3 1/2 mwd.
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 _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

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

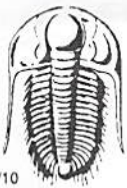
(A) Initial Hydrostatic 2074 Test 1150 T-On Location 18:10
 (B) First Initial Flow 199 Jars _____ T-Started 19:05
 (C) First Final Flow 767 Safety Joint _____ T-Open 21:16
 (D) Initial Shut-In 1225 Circ Sub N/C T-Pulled 23:40
 (E) Second Initial Flow 784 Hourly Standby _____ T-Out 02:15
 (F) Second Final 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
 Sub Total 1530

Approved By Patricia 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 A4 #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>Flow (6" in free oil on top)</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

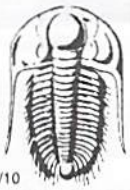
T-On Location 00:30
 T-Started 00:55
 T-Open 02:41
 T-Pulled 06:11
 T-Out 08:20

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

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1530
 MP/DST Disc't _____

Approved By Patrick Deenihan Our Representative [Signature]

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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 2307
- (B) First Initial Flow 107
- (C) First Final Flow 184
- (D) Initial Shut-In 337
- (E) Second Initial Flow 194
- (F) Second Final Flow 228
- (G) Final Shut-In 339
- (H) Final Hydrostatic 2224

Initial Open 30
 Initial Shut-In 413
 Final Flow 15
 Final Shut-In 60

Test 1150 T-On Location 05:05
 Jars _____ T-Started 09:30
 Safety Joint _____ T-Open 07:27
 Circ Sub 450° 50 T-Pulled 09:57
 Hourly Standby _____ T-Out 13:30
 Mileage 130RT 130 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1580
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1580

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.

ALLIED OIL & GAS SERVICES, LLC 063858

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dublin, Ky

DATE <u>3/31/15</u>	SEC <u>23</u>	TWP <u>10</u>	RANGE <u>-34</u>	CALLED OUT.	ON LOCATION	JOB START <u>10:30a</u>	JOB FINISH <u>12:30p</u>
LEASE <u>Taney #1</u>	WELL # <u>#1</u>	LOCATION <u>Monument 2000 N 70 E 1 1/2 W</u>			COUNTY <u>Thomas</u>	STATE <u>Ky</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>WV 8</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production - 2 Stage</u>	
HOLE SIZE <u>7 1/8</u> T.D.	CEMENT
CASING SIZE <u>4 1/2</u> DEPTH <u>4805</u>	AMOUNT ORDERED <u>165 BSL 1070 S&T 2070 C&L</u>
TUBING SIZE DEPTH	<u>5" 6 1/2 S&T</u>
DRILL PIPE <u>4 1/2</u> DEPTH <u>4810</u>	<u>680 ADV 44 P&O</u>
TOOL DEPTH <u>2858 2858</u>	<u>60/40 8" mud</u>
PRES. MAX MINIMUM	COMMON <u>680 S&T</u> @ <u>19.89</u> <u>13525.20</u>
MEAS. LINE SHOE JOINT <u>31</u>	POZMIX
CEMENT LEFT IN CSG. <u>18</u> BBL	GEL
PERFS. <u>Bottom 120 30 Dog mud on</u>	CHLORIDE
DISPLACEMENT <u>top - 14 0'</u>	ASC <u>165 9 1/2" @ 23.80</u> <u>3872.00</u>

EQUIPMENT		
PUMP TRUCK CEMENTER <u>Alan Ryan</u>		<u>S&T 858 16 @ .68</u> <u>583.28</u>
# <u>495-281</u> HELPER <u>Kevin Ryan</u>		<u>Galvanize 825 16 @ .70</u> <u>577.50</u>
BULK TRUCK		<u>W&H 12 BBL @ 41.00</u> <u>492.00</u>
# <u>WV 800</u> DRIVER <u>Wayne McGibby</u>		<u>Floqual 171 16 @ 2.92</u> <u>500.32</u>
BULK TRUCK		<u>Material Total</u> @ <u>19,795.59</u>
# <u>WV 818</u> DRIVER <u>Carene Wentz</u>		<u>(5,542.77/283)</u>
	HANDLING <u>981 2.7 @ 2.48</u> <u>2433.47</u>	
	MILEAGE <u>223 m/ade 40,918 ton</u> <u>2025.14</u>	

REMARKS: Anchor Cement, mix W&H, mix ASC wash tank Displace w/30 BBL 14.0
47 BBL Big Mud, 1 inch Plug @ 2800 w/ 900 PSI C&L, 0 psi 7001
800 PSI C&L, mix 30 S&T, mix 650 S&L Run 4 1/2
W&H, Displace Plug w/ 43 BBL 14.0 w/ 800
PSI C&L, 1 inch Plug @ 2800 7001
Closed

TOTAL _____

CHARGE TO Lawson

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Gonzalez

SIGNATURE Rodney Gonzalez

DEPTH OF JOB	<u>4805</u>	
PUMP TRUCK CHARGE	<u>2765.25</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>18 @ 7.22</u>	<u>130.00</u>
MANIFOLD = <u>Head</u>	@	<u>875.00</u>
<u>18 @ 4.20</u>	@	<u>75.60</u>
<u>700 Stage 2406.25</u>	@	<u>2406.25</u>
		<u>(2834.48/283)</u>
		TOTAL <u>10,123.16</u>

PLUG & FLOAT EQUIPMENT		
<u>OK TOP</u>	@	<u>483.50</u>
<u>catch drum</u>	@	<u>65.00</u>
<u>Float gate</u>	@	<u>425.00</u>
<u>Exhaust</u>	<u>2 @ 315.00</u>	<u>630.00</u>
<u>Contractors</u>	<u>11 @ 57.00</u>	<u>627.00</u>
		<u>(2007.32/283)</u>
		TOTAL <u>7,169.00</u>

SALES TAX (if Any) _____

TOTAL CHARGES 37,687.75

DISCOUNT 10,384.57 (283) IF PAID IN 30 DAYS

26,703.18 Net.

PATRICK J. DEENIHAN

PETROLEUM GEOLOGIST

316-640-5611
P.O. BOX 781924

100 CENTINARIY COX, NE1
WICHITA, K. 67278

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR SLAWSON EXPLORATION CO., INC.

LEASE JAMES A1 #4

FIELD JIMMY

CATION 540' FNL, 2060' FEL

T.C. R3 TWP. 10^S RGE. 34^W

COUNTY THOMAS STATE KANSAS

TRACTOR WIND DRILLING RIG #8
NO. 5-20-15 COMP. 3-31-15
3010' LOG TO 3808

TOES SAVED FROM 3800' TO RTD
LONG TIME KEPT FROM 3800' TO RTD
TOES EXAMINED FROM 3800' TO RTD

CONICAL SUPERVISION FROM 3800' TO RTD
UP 3894' TYPE MUD CHEMICAL
LOG # 15-193-20947-00-00

FORMATION	TOP	LOG	DATE	TOP	SAMPLE	DITUM	STRUCT.
							COMP.
MANORVILLE	2709	(1493)	2710	(1492)			-3
ASE/ANHY	2736	(1466)	2738	(1464)			-2
EEBNER	4091	(-884)	4095	(-883)			+2
ORONITO	4116	(-914)	4120	(-913)			+3
PASING	4130	(-928)	4140	(-938)			FIAT
MARIE CREEK	4274	(1072)	4274	(-1072)			-1
MARSHALE	4356	(1154)	4360	(1158)			+5
ORIMATON	4448	(1246)	4452	(-1250)			+7
WONEE	4550	(-1348)	4552	(-1351)			+2
WICK STATION	4583	(-1381)	4581	(-1379)			+4
SCOTT	4603	(-1401)	4603	(-1401)			+4
FRANK JH.	4633	(-1431)	4635	(-1433)			+3
WALSON	4676	(-1474)	4672	(-1470)			+6
MISSISSIPPIAN	4750	(-1548)	4753	(-1551)			+9

ELEVATION
KB 3202'

DF
CL 3197'

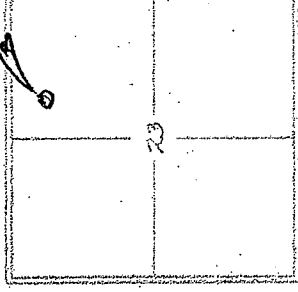
Measurements Are All
From K.S.

CASING RECORD

SURFACE 298.34' OF 8'
SET @ 305'

PRODUCTION 4 1/2" CGS.
GET TO TOTAL DEPT

WELL LOG SURVEYS
WEATH FORD
DIL-SP-GR
CNL-COL, ML
HIGH RESOLUTION



4000

SH, VARI. COLOR - ARGIL
SH, BLACK CARB., SCL. PYRITIC
LS, WHIT. CRM. AT GRAY - CHALKY, FINE FOL.
XEN. - NO SHOW
LS, WHIT. GRAY, TAN. OR DUSK. MICEL
TO P. FOL. - XEN. - NO SHOW

SH, GRAY, BRN., LT GRN. ARGIL
LS, GRN. TO LT GRN. - P. FOL. XEN. SCL.
CHALKY W/ DEPTH

SH, BLACK CARB.
LS, WHIT. CRM. P. FOL. XEN. FINE
CHALKY W/ DEPTH

SH, GRN., BRN. - ARG.
LS, WHIT. CRM. - MICRO TO FOL. XEN.
SCL. - FINE. NO SHOW

LS, GRN. GRAY, BRN. - DENSE MICRO
XEN. RAILROAD FOL., SUB. CHALKY
NO SHOW

SH, BLACK CARB.
LS, GRAY CRM. - DENSE MICRO - XEN.
SUB. CHALKY NO SHOW
SH, AROUND VARI. COLOR GRN.
GRY BRN. BLACK, ORANGE
ARGIL

LS, TAN. TO LT GRAY, MICRO - FINE
AND MICRO - FOL. SCL. CHALKY
VERY DENSE NO SHOW

LS, GRN. - TAN. FOL. XEN. - P. SORTED. OOL.
MICRO TO LARGE SIDEWAZEY
NO SHOW
SH, GRY. DK GRAY, BLACK & ORG.,
ARGIL

LS, WHIT. CRM. LT GRAY - FOL. XEN. FINE
OOL. FOL. INTER. XEN. - TAN.
AND GRN. - FINE. XEN. - GRN.
MICRO - NO. FOL. XEN. NO. ORG.
NO. SHOW. ORG. - FOL. XEN. - GRN.
OR GRN. ORG. - FOL. XEN. - GRN.
OR GRN. - FOL. XEN. - GRN.

SH, VARI. COLOR - ARG. BRN. GRAY
QUARTZ ARGIL - SAMPLES WASH
CHOCOLATE - BRN.

LS, WHIT. GRN. - SRY - DENSE MICRO
XEN. SUB. CHALKY - ARGIL
LS, WHIT. GRAY, SRY. OOL. TO
OOL. FOL. FINE. ORG. - SORT.
OOL. FOL. FINE. ORG. - SORT.
OOL. FOL. FINE. ORG. - SORT.
OOL. FOL. FINE. ORG. - SORT.
OOL. FOL. FINE. ORG. - SORT.

SH, BLACK CARB. GRN. GRAY - FOL. XEN. ARG.
RED - ARGIL
LS, WHIT. MICEL - XEN. CHALKY - TRC. OF
OOL. TO OOL. OF OOL. BLACK - FOL.
NO. FOL. NO. FOL. NO. FOL.

SH, BLACK CARB.
LS, WHIT. FINE. XEN. - FINE. CHALKY - ARGIL

SH, GRAY BRN. GRN. - ARGIL

LS, WHIT. ST. GRAY - FOL. XEN. - NO. SHOW

SH, VARI. COLOR - ARGIL

LS, WHIT. GRN. LT GRAY - FOL. XEN. SCL.
CHALKY - FOL. XEN. CHALKY
W/ DEPTH - NO SHOW

HEBNER

4095 (893)

TO RANTO

4100 (918)

-OFS-

LANSING

4140 (938)

"A"

"B"

-OFS-

-OFS-

"D"

"E"

"F"

DST #1 (4163 - 419
90" - 45" 301 - 454
150: 808 M 2 M) 10 RPT
EFF. SUM. 1.52 - 10.4
REG: 2356' TOTAL
124' NEW (90% WTR) 30%
186' SHOW (95% WTR) 104
2046' WTR (100% WTR)
IMP: 2074 FHP: 194
150: 199-707 FHP: 704
151: 1225 M FHP: 12.
BHT: 1230 CHT: 123.

MUD CHECK @ 4190
VIS. 5% WT: 8.9
CHL: 2800 LCM: 14

4200

15 WHIT (N) X 10 TO CHARITY GRAY
MUDS, SLIM SL. CL. TO ABC. IBC
OF YELLOW & REDDISH-BRG. CHART
NO. 56011

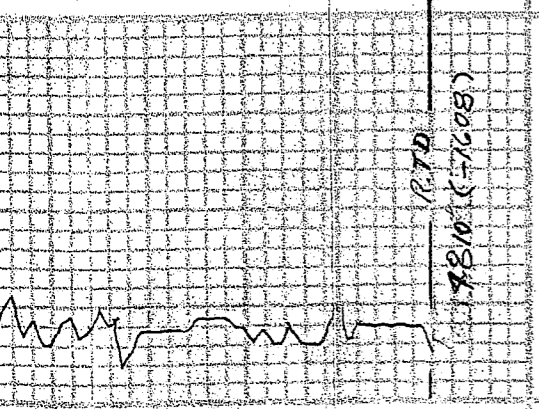
15. 17.17 M SAMPLES WASH MINT
& STAINING GRAY SHALE

574. 17.17.17 M SAMPLES WASH MINT
& STAINING GRAY SHALE

T.D. REACHED 10:00 P.M.

574. 17.17.17 M SAMPLES WASH MINT
& STAINING GRAY SHALE

T.D. REACHED 10:00 P.M.



(BOLT-) 108
R.T.D

DEPTH

TIME

DEPTH IN FEET

TIME

574. 17.17.17 M SAMPLES WASH MINT
& STAINING GRAY SHALE

T.D. REACHED 10:00 P.M.

574. 17.17.17 M SAMPLES WASH MINT
& STAINING GRAY SHALE

T.D. REACHED 10:00 P.M.

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& STAINING GRAY SHALE

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