

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1265917
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1265917



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Geologist Report / Mud Logs	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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>			PRODUCTION INTERVAL: Top _____ Bottom _____	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	Shuler 17B 1
Doc ID	1265917

Tops

Name	Top	Datum
ANHYDRITE	2570	+278
BASE ANHYDRITE	2605	+243
HEEBNER	3898	-1050
TORONTO	3928	-1080
LANSING	3943	-1095
MUNCIE	4043	-1195
STARK SHALE	4103	-1255
HUSH	4131	-1283
BASE KANSAS CITY	4151	-1303
PLEASANTON	4158	-1310
MARMATON	4223	-1375
PAWNEE	4264	-1416
FORT SCOTT	4297	-1449
CHEROKEE SHALE	4332	-1484
MISSISSIPPI/OSAGE	4444	-1596



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.28 @ 02:23:00

End Date: 2015.08.28 @ 09:03:00

Job Ticket #: 65216 DST #: 1

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

Printed: 2015.09.03 @ 09:16:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65216

DST#: 1

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 02:23:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:22:50

Time Test Ended: 09:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3895.00 ft (KB) To 3937.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 3937.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 126.64 psig @ 3896.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.28

End Date:

2015.08.28

Last Calib.:

2015.08.28

Start Time: 02:24:00

End Time:

09:03:00

Time On Btm:

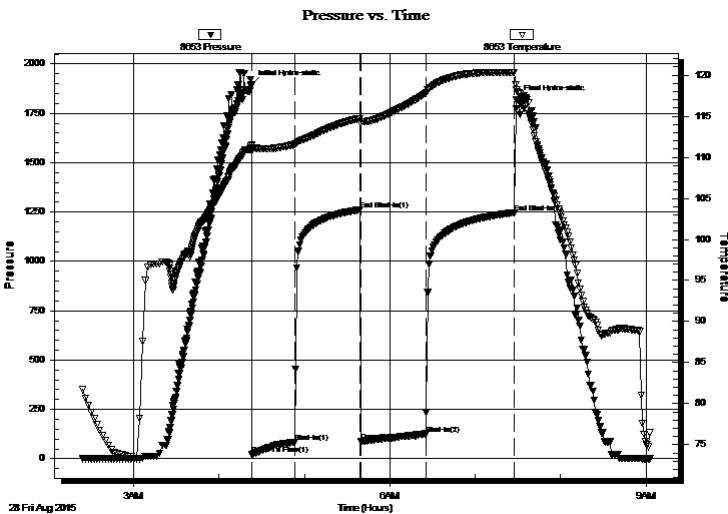
2015.08.28 @ 04:22:40

Time Off Btm:

2015.08.28 @ 07:29:00

TEST COMMENT: 30 - IF- 1/8" Blow built to 7 1/4"
45 - IS- No Return
45 - FF- Surface Blow stated at 2 min. Built to 7 1/2"
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.56	111.46	Initial Hydro-static
1	22.11	110.74	Open To Flow (1)
31	84.51	111.55	Shut-In(1)
76	1260.98	114.74	End Shut-In(1)
77	89.99	114.12	Open To Flow (2)
123	126.64	117.77	Shut-In(2)
185	1247.46	120.33	End Shut-In(2)
187	1820.64	118.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	OSMW 30M 70W (oil spots)	0.60
63.00	OSMW 50M 50W (oil spots)	0.88
58.00	OSWM 40W 60M (oil spots)	0.81

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65216

DST#: 1

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 02:23:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:22:50

Time Test Ended: 09:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3895.00 ft (KB) To 3937.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 3937.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8520 Inside

Press@RunDepth: psig @ 3896.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.28

End Date:

2015.08.28

Last Calib.:

2015.08.28

Start Time: 02:24:00

End Time:

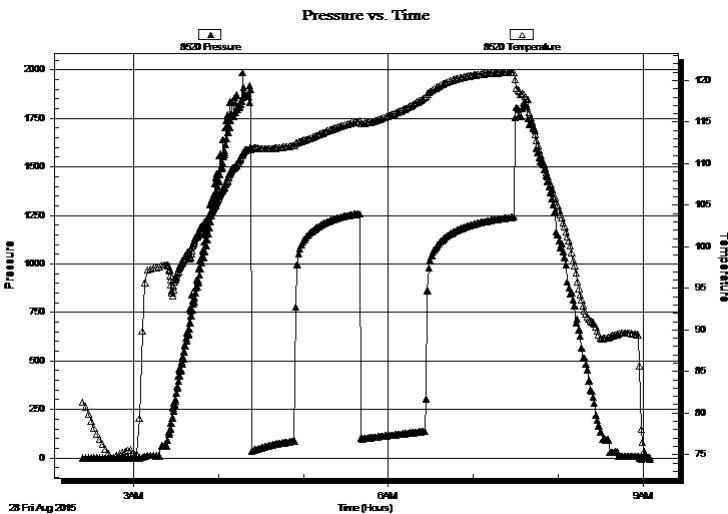
09:04:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/8" Blow built to 7 1/4"
45 - IS- No Return
45 - FF- Surface Blow stated at 2 min. Built to 7 1/2"
60 - FS- No Return

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
121.00	OSMW 30M 70W (oil spots)	0.60
63.00	OSMW 50M 50W (oil spots)	0.88
58.00	OSWM 40W 60M (oil spots)	0.81

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N#700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65216

DST#: 1

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 02:23:00

Tool Information

Drill Pipe:	Length: 3752.00 ft	Diameter: 3.80 inches	Volume: 52.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.23 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3895.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			3868.00	
Shut In Tool	5.00			3873.00	
Hydraulic tool	5.00			3878.00	
Jars	5.00			3883.00	
Safety Joint	3.00			3886.00	
Packer	5.00			3891.00	28.00 Bottom Of Top Packer
Packer	4.00			3895.00	
Stubb	1.00			3896.00	
Recorder	0.00	8653	Outside	3896.00	
Recorder	0.00	8520	Inside	3896.00	
Perforations	3.00			3899.00	
Change Over Sub	1.00			3900.00	
Drill Pipe	31.00			3931.00	
Change Over Sub	1.00			3932.00	
Bullnose	5.00			3937.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65216

DST#: 1

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 02:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	OSMW 30M 70W (oil spots)	0.595
63.00	OSMW 50M 50W (oil spots)	0.884
58.00	OSWM 40W 60M (oil spots)	0.814

Total Length: 242.00 ft Total Volume: 2.293 bbl

Num Fluid Samples: 0

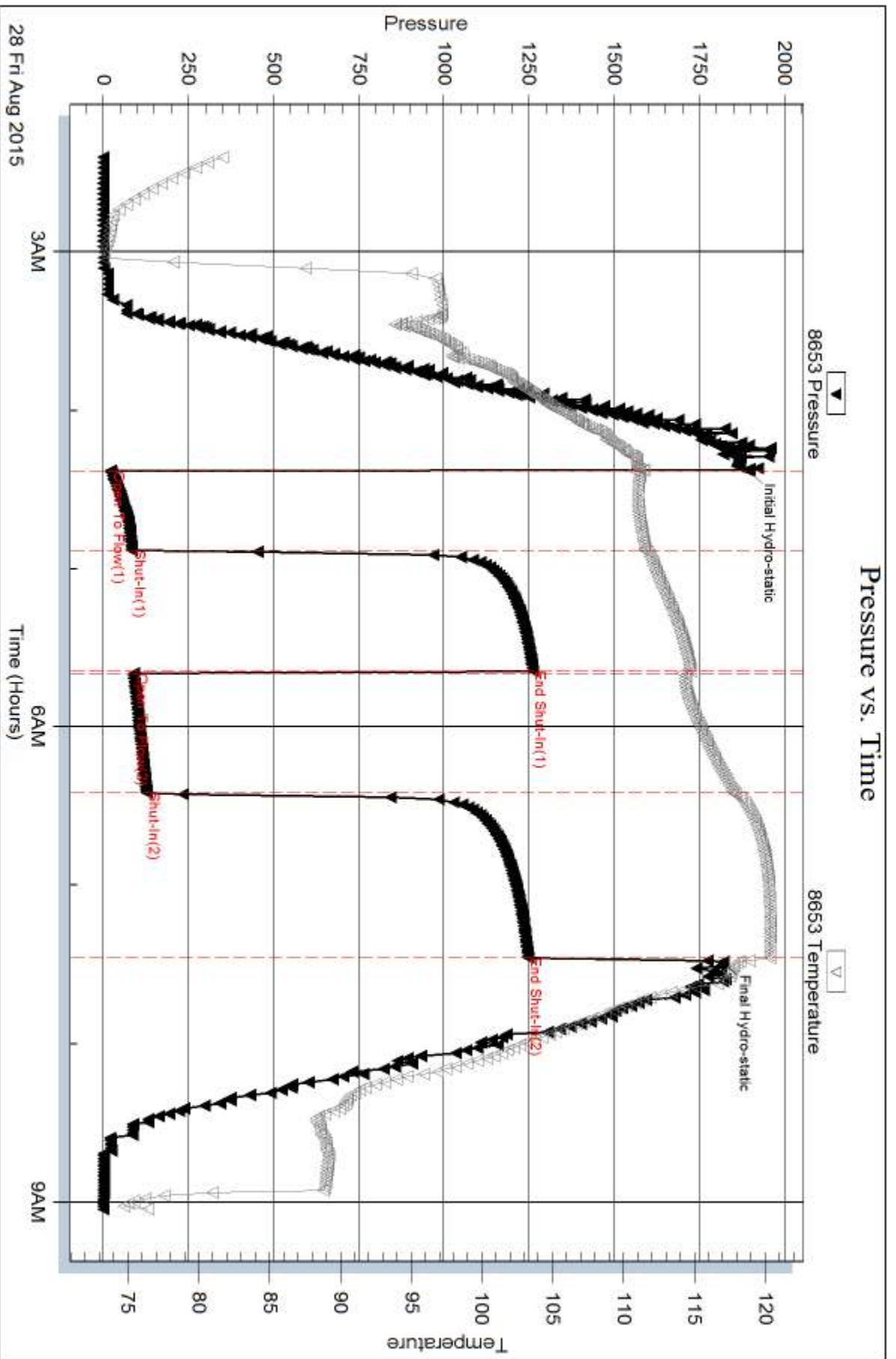
Num Gas Bombs: 0

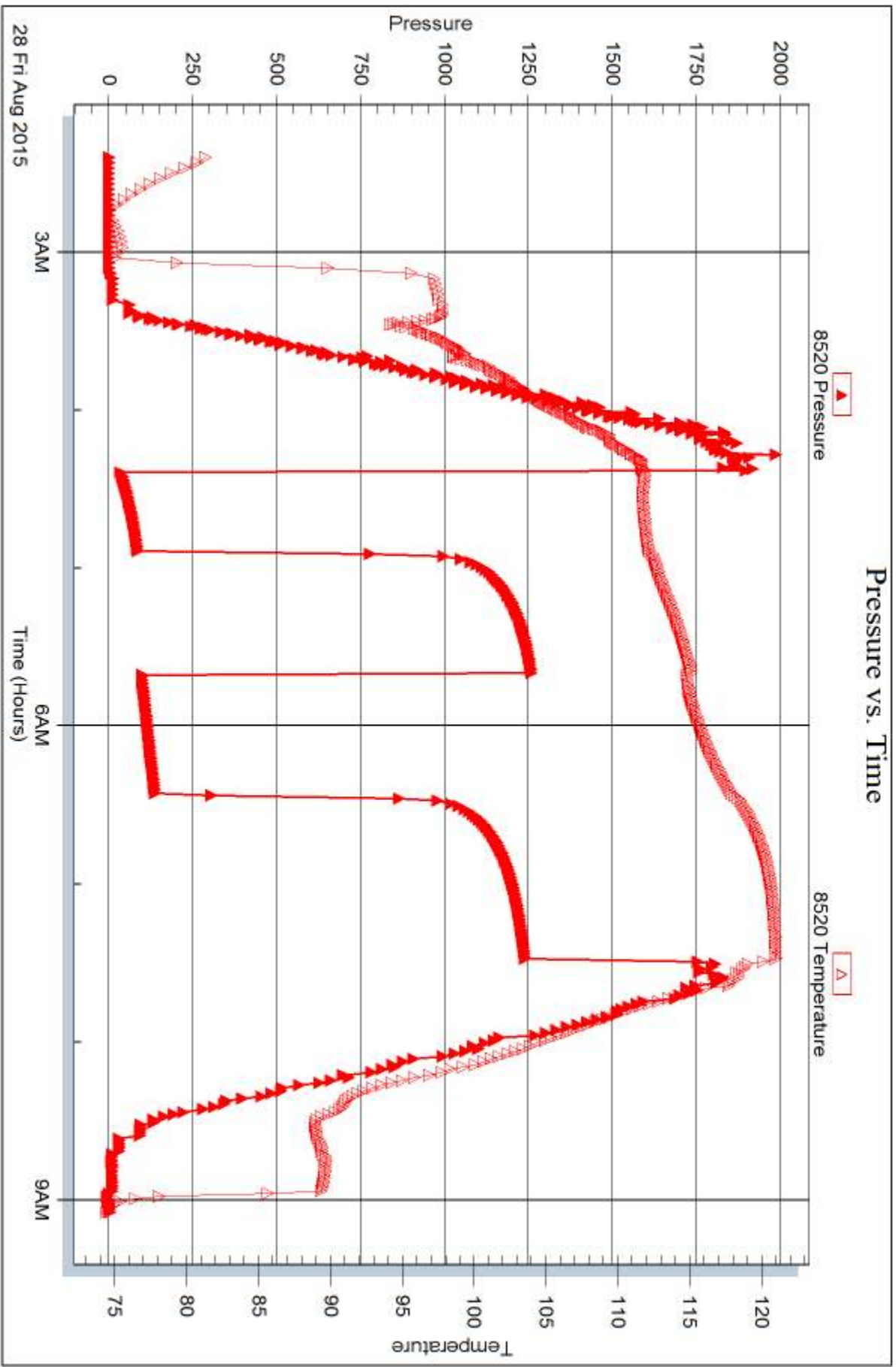
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .25 @ 68 deg = 30,000ppm







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.28 @ 17:45:00

End Date: 2015.08.29 @ 01:19:00

Job Ticket #: 65217 DST #: 2

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

Printed: 2015.09.03 @ 08:40:59

Ritchie Exploration, Inc.
17-6s-29w Sheridan,KS
Shuler 17B #1
DST # 2
LKC "A-B"
2015.08.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 2

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 17:45:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:10

Time Test Ended: 01:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3951.00 ft (KB) To 3977.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 3977.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 906.76 psig @ 3952.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.28

End Date:

2015.08.29

Last Calib.:

2015.08.29

Start Time: 17:46:00

End Time:

01:19:00

Time On Btm:

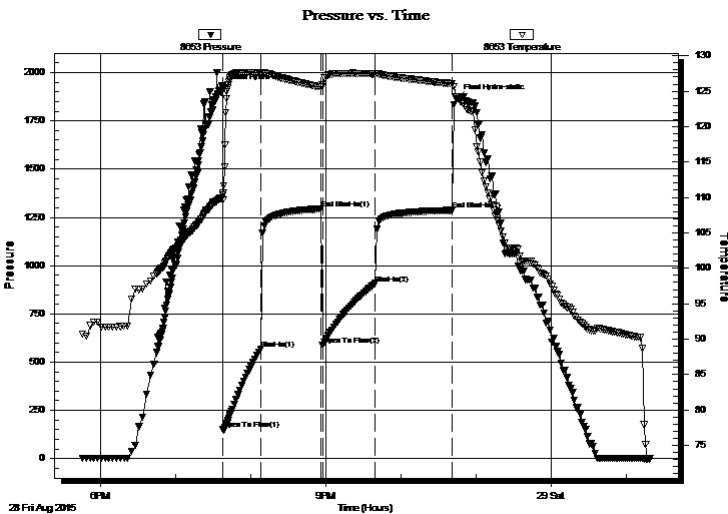
2015.08.28 @ 19:38:00

Time Off Btm:

2015.08.28 @ 22:44:30

TEST COMMENT: 30 - IF- BoB 1 1/2 min.
45 - IS- No Return
45 - FF- BoB in 3 min.
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.74	110.61	Initial Hydro-static
1	152.91	109.67	Open To Flow (1)
30	566.74	127.57	Shut-In(1)
78	1294.14	125.56	End Shut-In(1)
80	588.75	125.83	Open To Flow (2)
122	906.76	127.42	Shut-In(2)
183	1286.90	126.04	End Shut-In(2)
187	1865.82	124.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
688.00	OSMW 5M 95W (oil spots)	8.55
693.00	OCMW 10o 5M 85W	9.72
315.00	OCMW 10o 10M 80W	4.42
297.00	OCMW 20o 40M 40W	4.17
10.00	Free Oil 100o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 2

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 17:45:00

Tool Information

Drill Pipe:	Length: 3815.00 ft	Diameter: 3.80 inches	Volume: 53.51 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.11 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3951.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 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			3924.00	
Shut In Tool	5.00			3929.00	
Hydraulic tool	5.00			3934.00	
Jars	5.00			3939.00	
Safety Joint	3.00			3942.00	
Packer	5.00			3947.00	28.00 Bottom Of Top Packer
Packer	4.00			3951.00	
Stubb	1.00			3952.00	
Recorder	0.00	8653	Outside	3952.00	
Recorder	0.00	8520	Inside	3952.00	
Perforations	20.00			3972.00	
Bullnose	5.00			3977.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 2

ATTN: Adam Eldani

Test Start: 2015.08.28 @ 17:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
688.00	OSMW 5M 95W (oil spots)	8.549
693.00	OCMW 10o 5M 85W	9.721
315.00	OCMW 10o 10M 80W	4.419
297.00	OCMW 20o 40M 40W	4.166
10.00	Free Oil 100o	0.140

Total Length: 2003.00 ft Total Volume: 26.995 bbl

Num Fluid Samples: 0

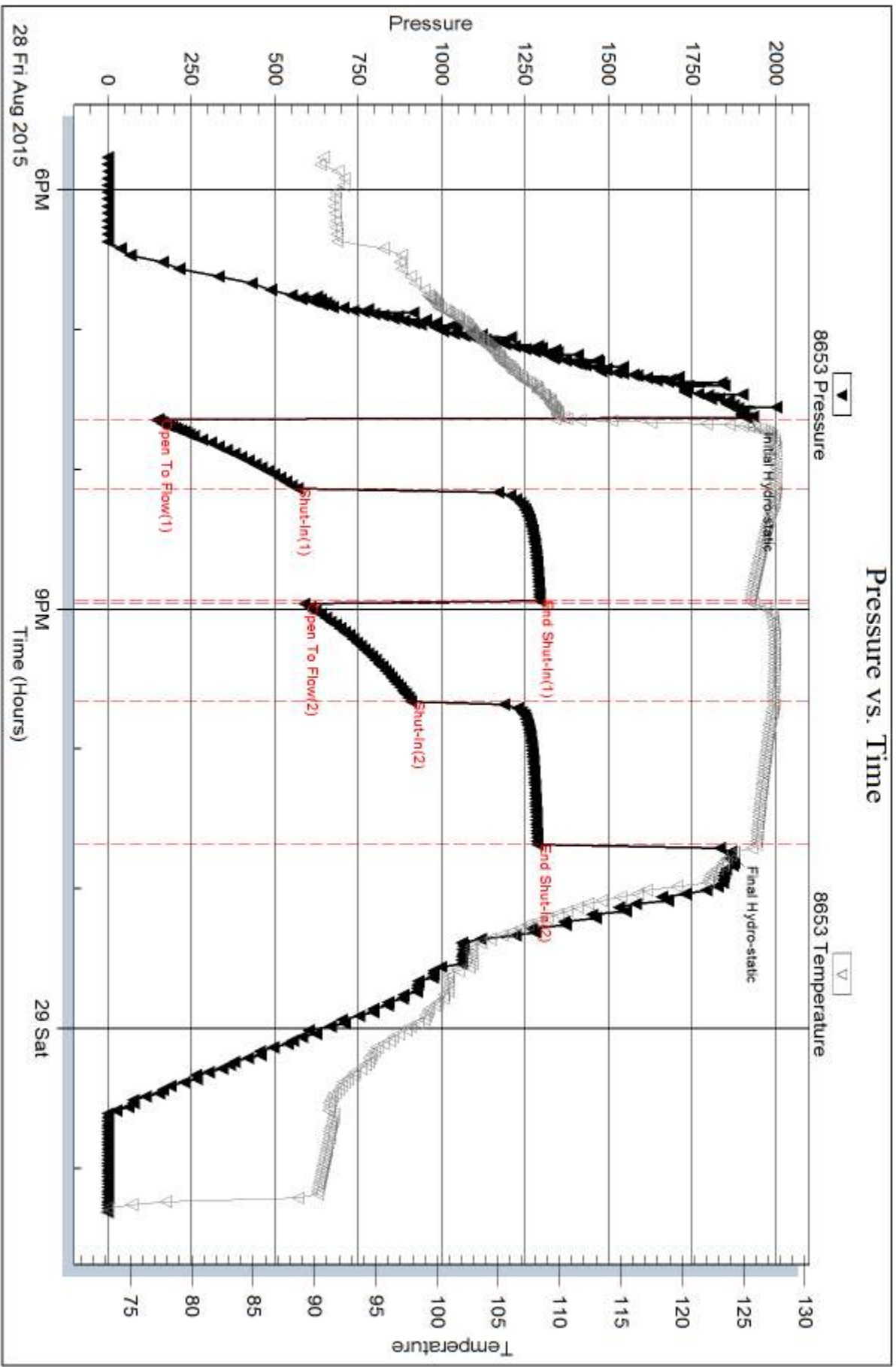
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 70 deg = 42000ppm



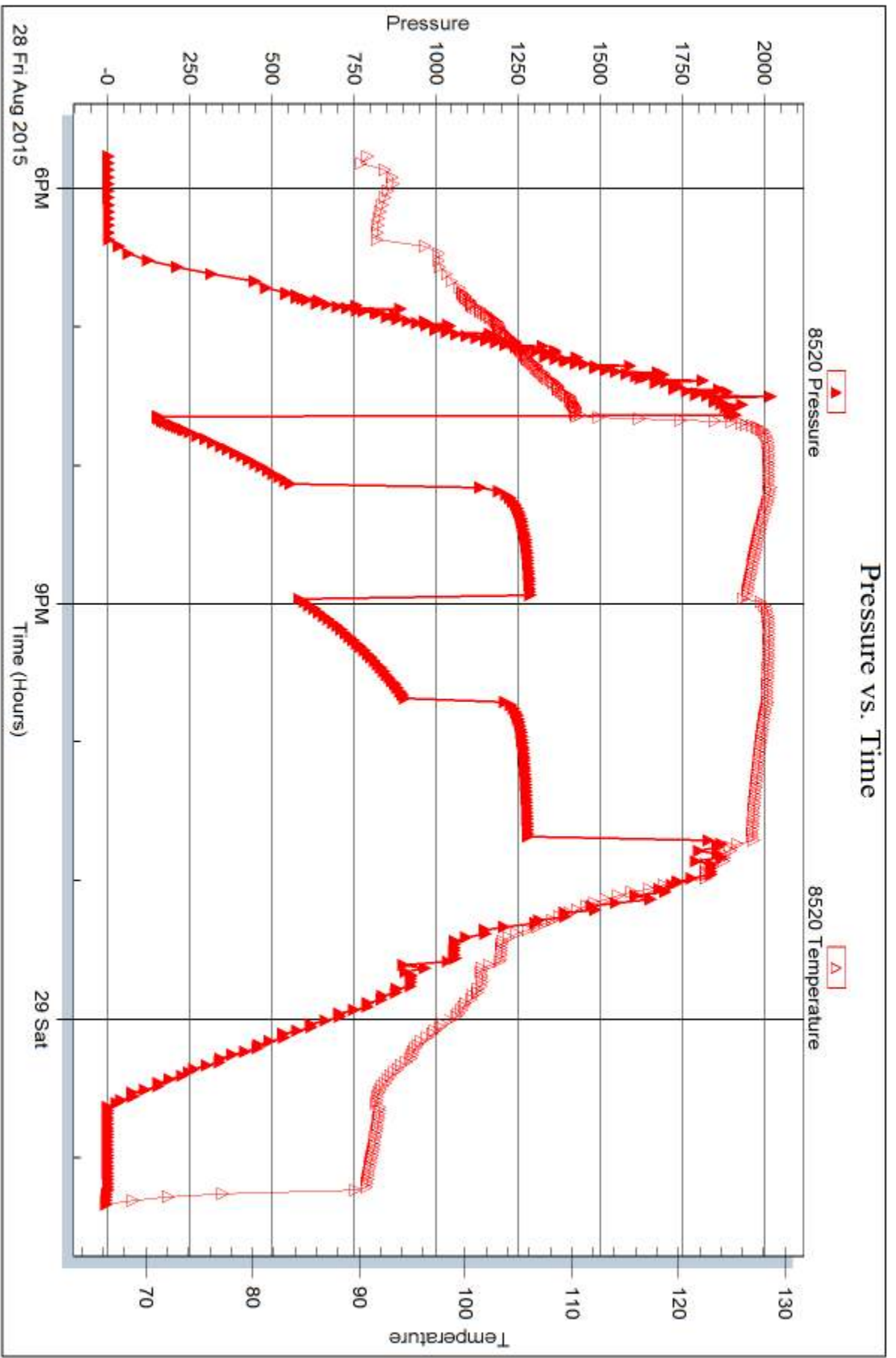
Serial #: 8520

Inside

Ritchie Exploration, Inc.

Shuler 17B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65217

Printed: 2015.09.03 @ 08:41:01



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.29 @ 07:50:00

End Date: 2015.08.29 @ 13:58:30

Job Ticket #: 65217 DST #: 3

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

Printed: 2015.09.03 @ 08:40:15

Ritchie Exploration, Inc.
17-6s-29w Sheridan,KS
Shuler 17B #1
DST # 3
LKC "B"
2015.08.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 3

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 07:50:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:18:30

Time Test Ended: 13:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3975.00 ft (KB) To 3988.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 3988.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 295.64 psig @ 3976.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.29

End Date:

2015.08.29

Last Calib.:

2015.08.29

Start Time: 07:51:00

End Time:

13:58:30

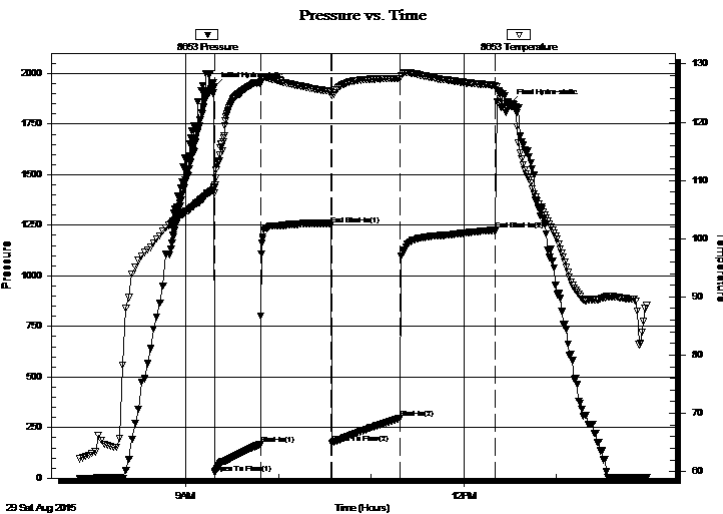
Time On Btm:

2015.08.29 @ 09:18:20

Time Off Btm:

2015.08.29 @ 12:30:00

TEST COMMENT: 30 - IF- BoB in 9 min
45 - IS- Weak Surface Return started at 20 min. did not build or die
45 - FF- BoB in 14 min
60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.25	108.92	Initial Hydro-static
1	25.28	107.90	Open To Flow (1)
30	167.91	126.64	Shut-In(1)
76	1252.67	125.27	End Shut-In(1)
77	173.78	124.58	Open To Flow (2)
121	295.64	127.52	Shut-In(2)
183	1225.16	126.27	End Shut-In(2)
192	1850.91	122.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	OSMW 5M 95W (oil spots)	3.25
189.00	OCMW 5o 10M 85W	2.65
63.00	OCMW 50 20M 75W	0.88
63.00	OCMW 10o 45M 45W	0.88
2.00	Free Oil 100o	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 3

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 07:50:00

Tool Information

Drill Pipe:	Length: 3846.00 ft	Diameter: 3.80 inches	Volume: 53.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 54.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3975.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	3.00			3966.00	
Packer	5.00			3971.00	28.00 Bottom Of Top Packer
Packer	4.00			3975.00	
Stubb	1.00			3976.00	
Recorder	0.00	8653	Outside	3976.00	
Recorder	0.00	8520	Inside	3976.00	
Perforations	7.00			3983.00	
Bullnose	5.00			3988.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65217

DST#: 3

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 07:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	OSMW 5M 95W (oil spots)	3.246
189.00	OCMW 5o 10M 85W	2.651
63.00	OCMW 50 20M 75W	0.884
63.00	OCMW 10o 45M 45W	0.884
2.00	Free Oil 100o	0.028

Total Length: 627.00 ft Total Volume: 7.693 bbl

Num Fluid Samples: 0

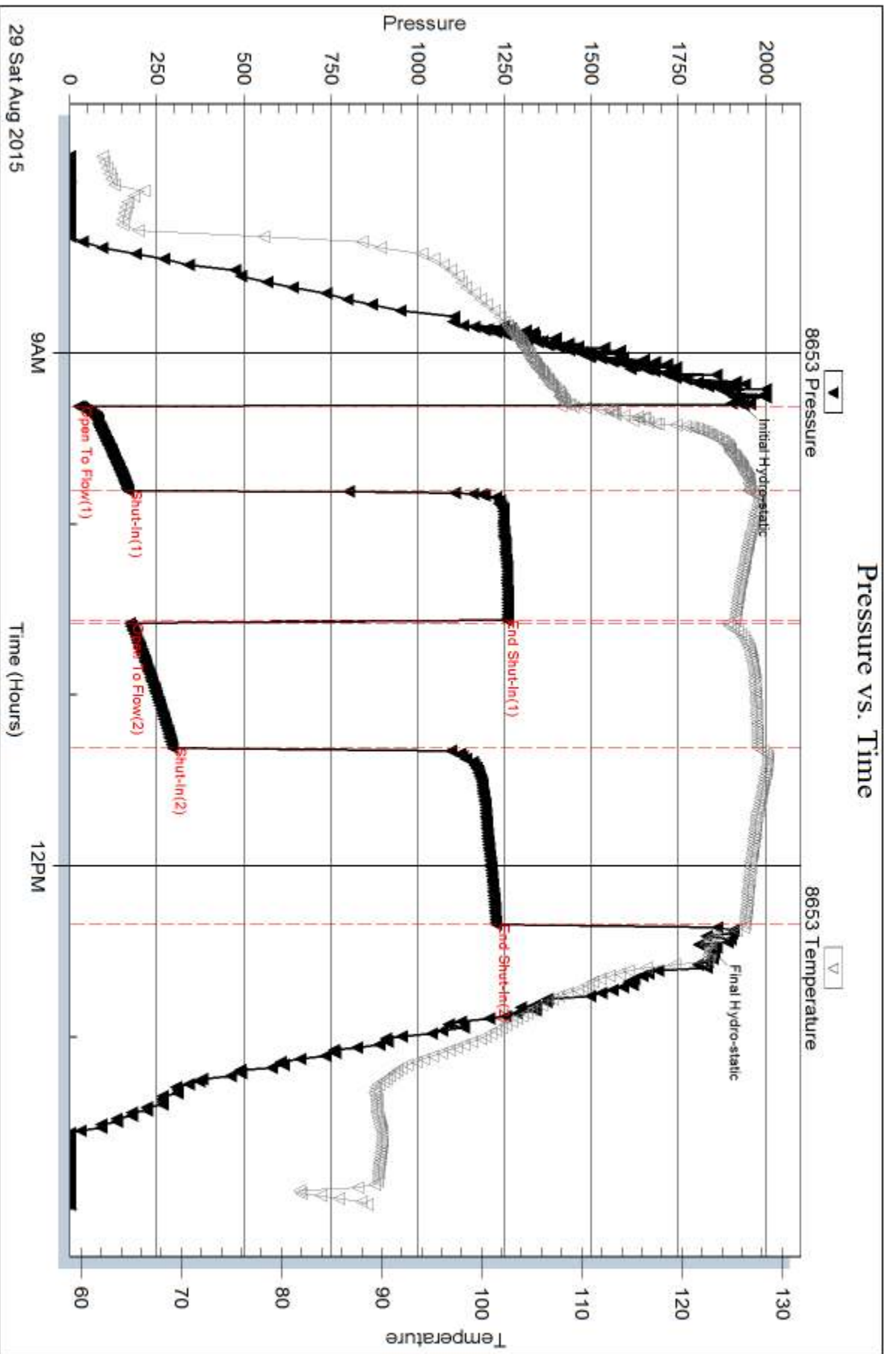
Num Gas Bombs: 0

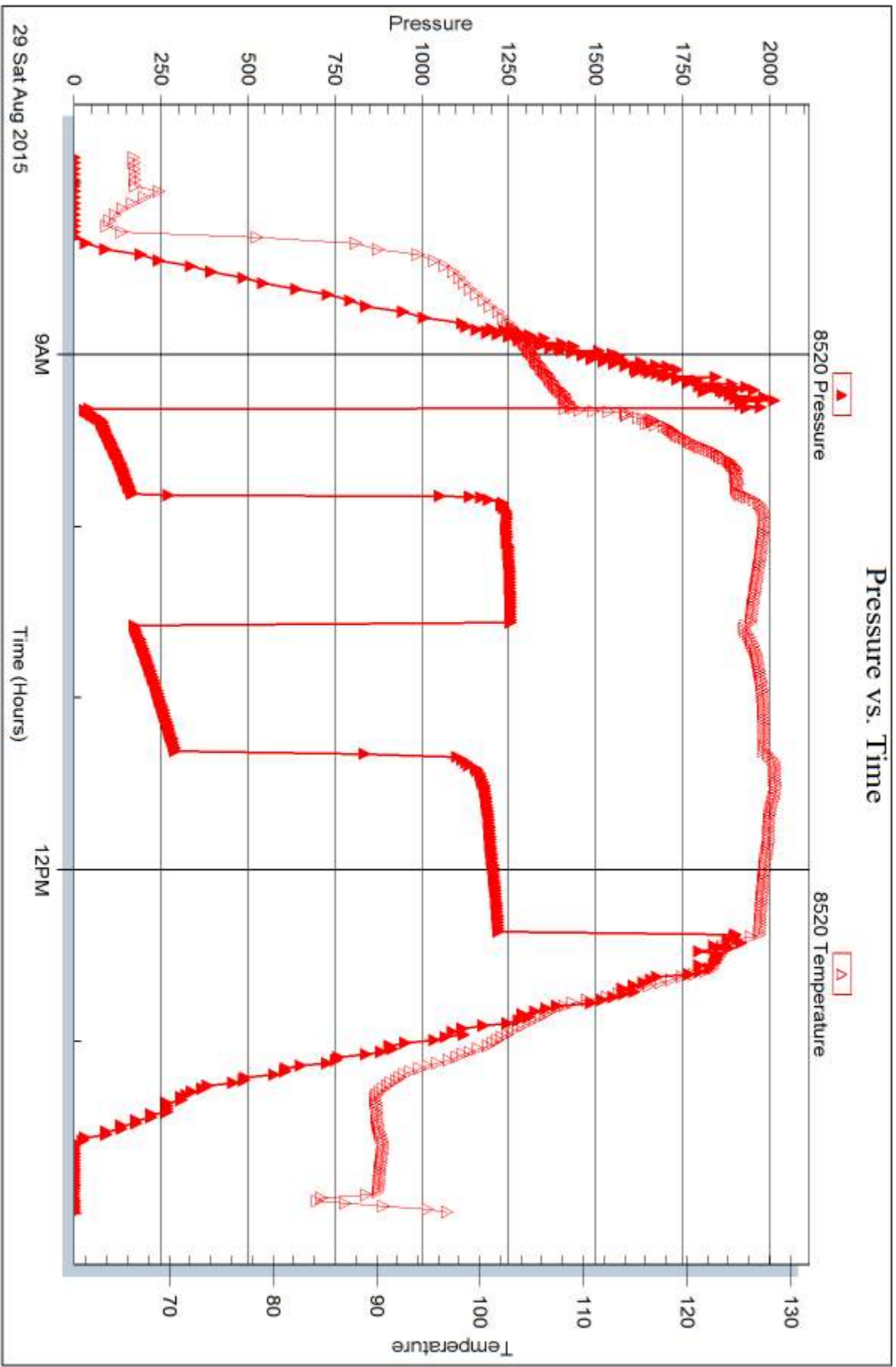
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 @ 87 = 45000ppm







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.29 @ 22:09:00

End Date: 2015.08.30 @ 04:21:00

Job Ticket #: 65219 DST #: 4

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

Printed: 2015.09.03 @ 08:39:49

Ritchie Exploration, Inc.
17-6s-29w Sheridan,KS
Shuler 17B #1
DST # 4
LKC "E-F"
2015.08.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65219

DST#: 4

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 22:09:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:00

Time Test Ended: 04:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3992.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 47.45 psig @ 3993.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.29

End Date:

2015.08.30

Last Calib.: 2015.08.30

Start Time: 22:10:00

End Time:

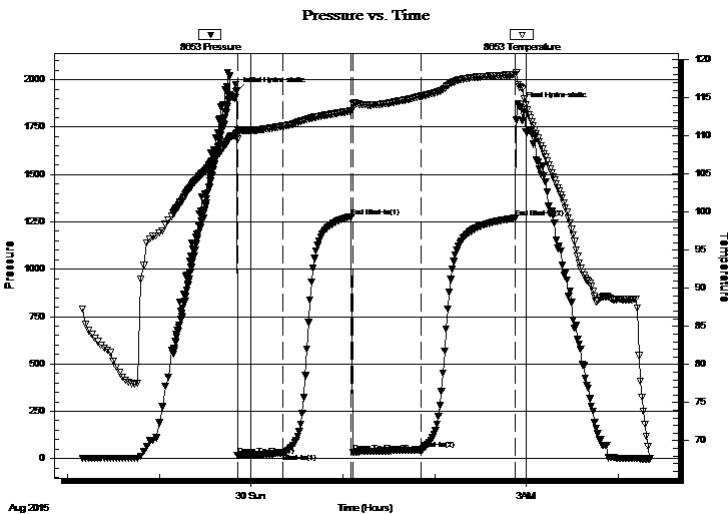
04:21:00

Time On Btm: 2015.08.29 @ 23:50:50

Time Off Btm: 2015.08.30 @ 02:55:30

TEST COMMENT: 30 - IF- 1/8" Blow built to 2 1/4"
45 - IS- No Return
45 - FF- Surface Blow built to 3 1/4"
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.90	110.40	Initial Hydro-static
1	19.51	109.59	Open To Flow (1)
31	28.12	111.29	Shut-In(1)
75	1276.91	113.29	End Shut-In(1)
76	34.43	114.19	Open To Flow (2)
121	47.45	115.21	Shut-In(2)
182	1269.20	118.04	End Shut-In(2)
185	1857.84	116.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 30o 70M	0.20
30.00	CGO 10G 90o	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65219

DST#: 4

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 22:09:00

Tool Information

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 54.68 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3992.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 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			3973.00	
Shut In Tool	5.00			3978.00	
Hydraulic tool	5.00			3983.00	
Packer	5.00			3988.00	20.00 Bottom Of Top Packer
Packer	4.00			3992.00	
Stubb	1.00			3993.00	
Recorder	0.00	8653	Outside	3993.00	
Recorder	0.00	8520	Inside	3993.00	
Perforations	22.00			4015.00	
Bullnose	5.00			4020.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65219

DST#: 4

ATTN: Adam Eldani

Test Start: 2015.08.29 @ 22:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 30o 70M	0.197
30.00	CGO 10G 90o	0.148

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0

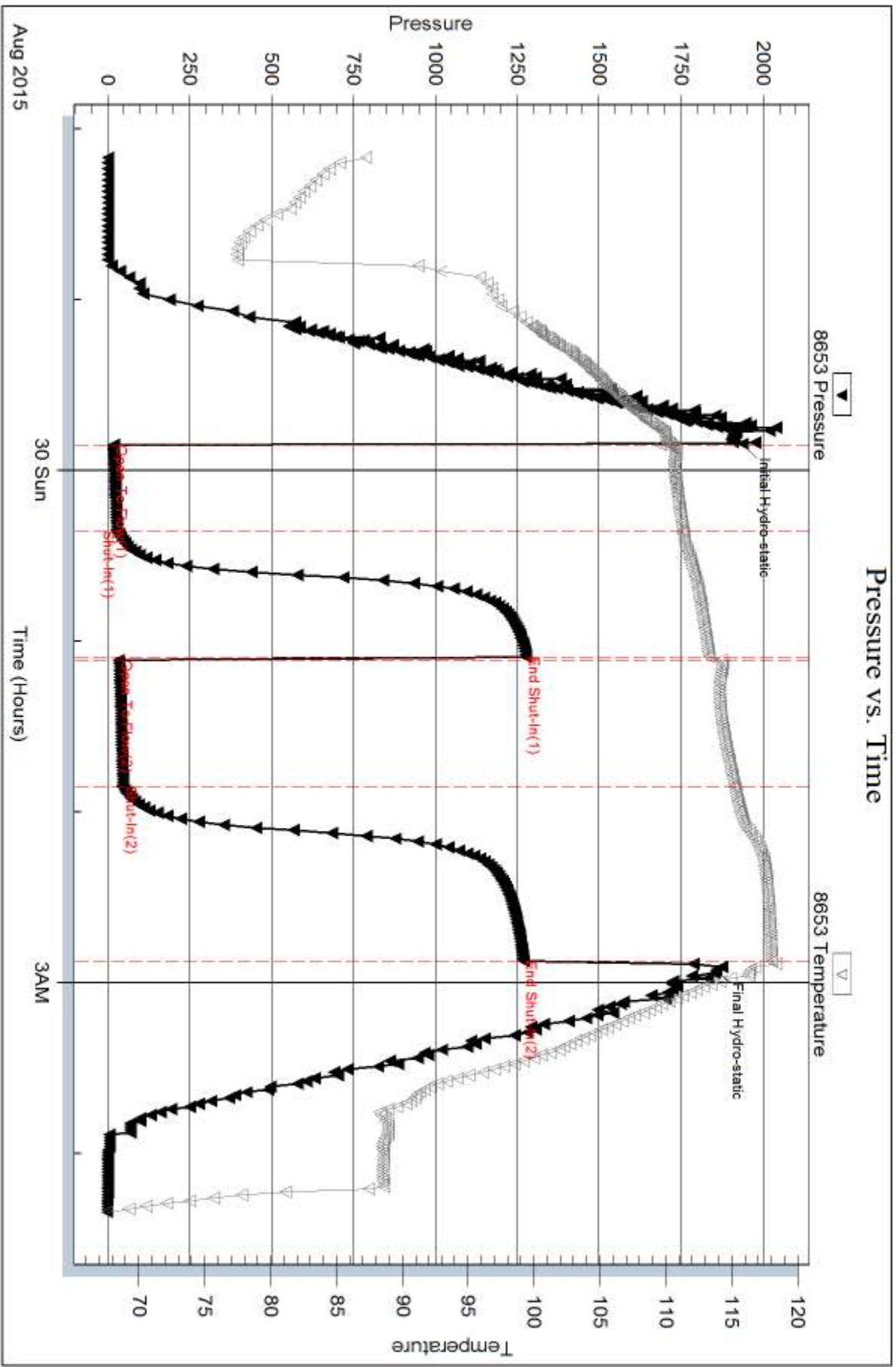
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 34 @ 80 deg = 32 corrected



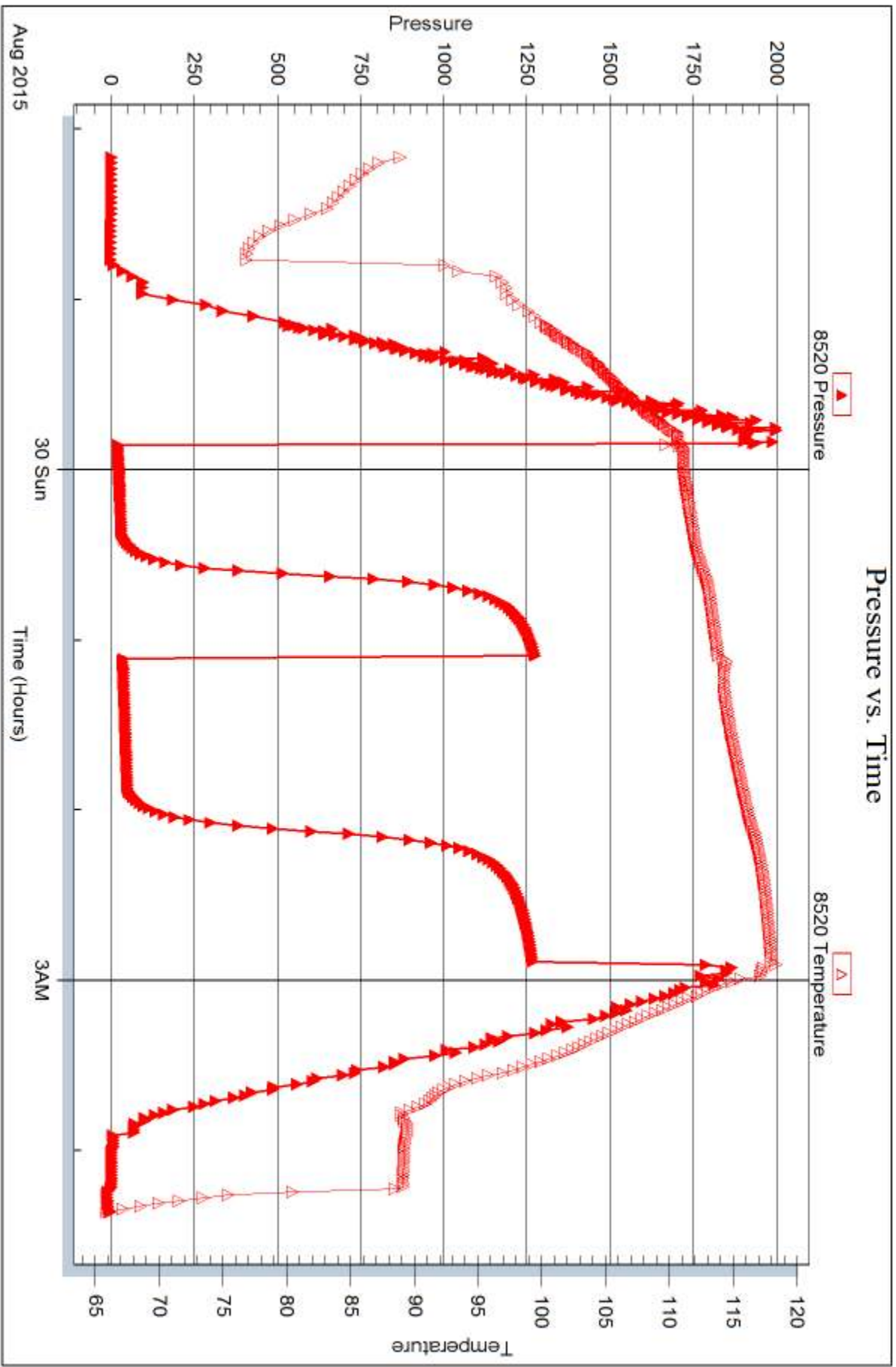
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Inside

Ritchie Exploration, Inc.

Shuler 17B #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65219

Printed: 2015.09.03 @ 08:39:50



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.30 @ 10:50:00

End Date: 2015.08.30 @ 16:58:00

Job Ticket #: 65220 DST #: 5

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

Printed: 2015.09.03 @ 08:39:21

Ritchie Exploration, Inc.
17-6s-29w Sheridan,KS
Shuler 17B #1
DST # 5
LKC "G"
2015.08.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65220

DST#: 5

ATTN: Adam Eldani

Test Start: 2015.08.30 @ 10:50:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:13:10

Time Test Ended: 16:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4017.00 ft (KB) To 4041.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 4041.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 107.86 psig @ 4018.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.30

End Date:

2015.08.30

Last Calib.:

2015.08.30

Start Time: 10:51:00

End Time:

16:58:00

Time On Btm:

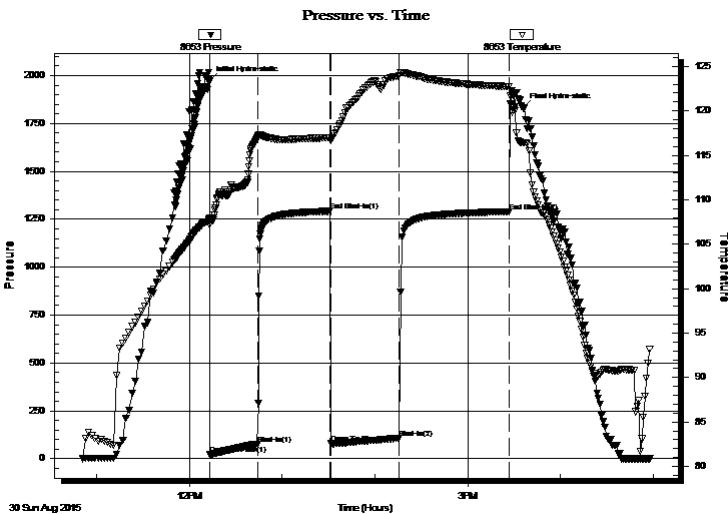
2015.08.30 @ 12:13:00

Time Off Btm:

2015.08.30 @ 15:36:00

TEST COMMENT: 30 - IF- Surface Blow built to 5"
45 - IS- No Return
45 - FF- Surface Blow built to 6"
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.06	107.98	Initial Hydro-static
1	22.44	107.21	Open To Flow (1)
32	75.60	117.02	Shut-In(1)
78	1292.32	117.01	End Shut-In(1)
79	78.35	116.68	Open To Flow (2)
123	107.86	123.95	Shut-In(2)
194	1289.17	122.71	End Shut-In(2)
203	1830.13	116.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	OSMW 20M 80W (oil spots)	0.60
78.00	OSWM 40W 60M (oil spots)	1.09

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65220

DST#: 5

ATTN: Adam Eldani

Test Start: 2015.08.30 @ 10:50:00

Tool Information

Drill Pipe:	Length: 3886.00 ft	Diameter: 3.80 inches	Volume: 54.51 bbl	Tool Weight: 2000.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.11 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4017.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			3998.00	
Shut In Tool	5.00			4003.00	
Hydraulic tool	5.00			4008.00	
Packer	5.00			4013.00	20.00 Bottom Of Top Packer
Packer	4.00			4017.00	
Stubb	1.00			4018.00	
Recorder	0.00	8653	Outside	4018.00	
Recorder	0.00	8520	Inside	4018.00	
Perforations	18.00			4036.00	
Bullnose	5.00			4041.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65220

DST#: 5

ATTN: Adam Eldani

Test Start: 2015.08.30 @ 10:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	OSMW 20M 80W (oil spots)	0.595
78.00	OSWM 40W 60M (oil spots)	1.094

Total Length: 199.00 ft Total Volume: 1.689 bbl

Num Fluid Samples: 0

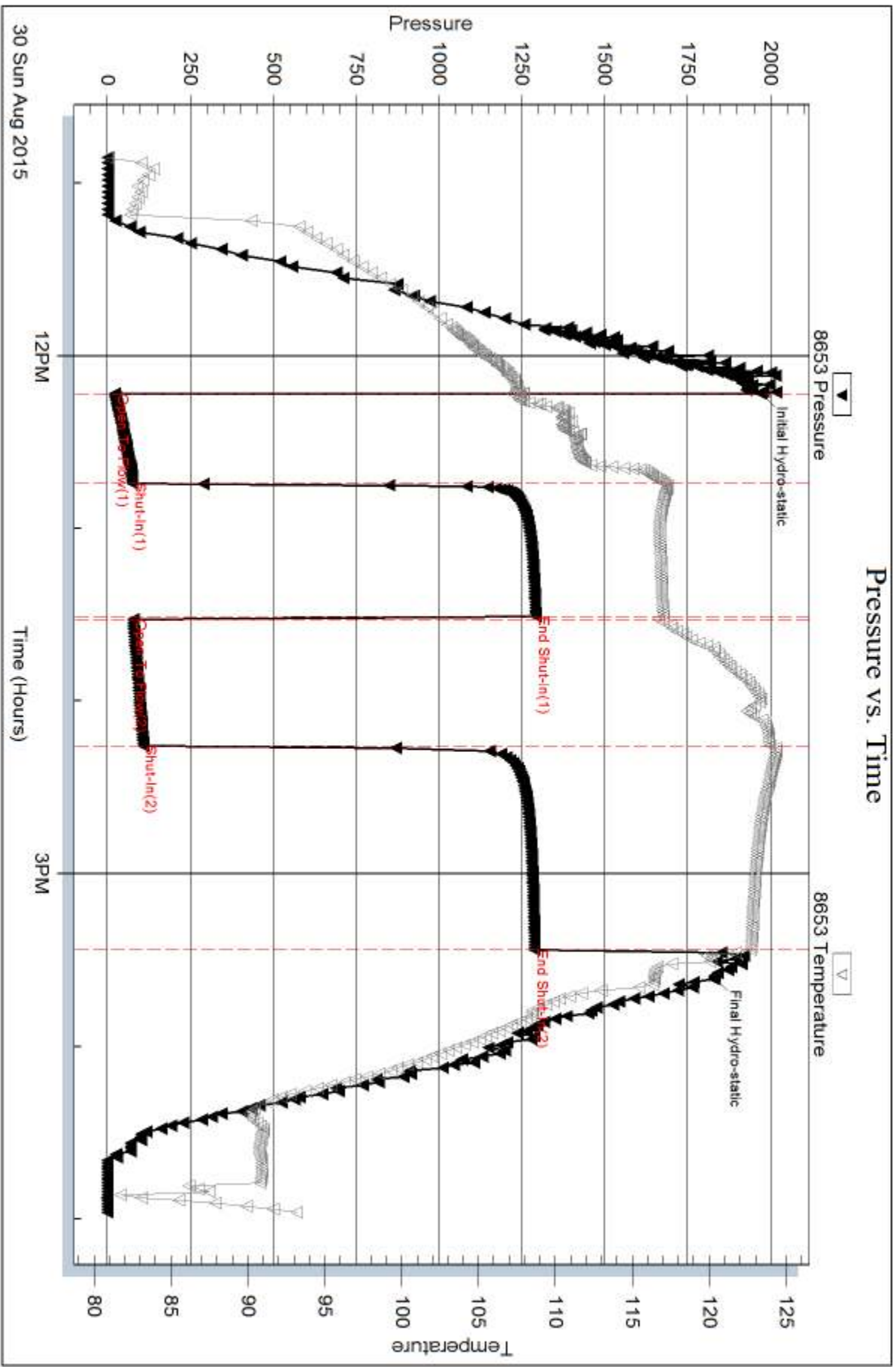
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .13 @ 99 deg = 40000ppm



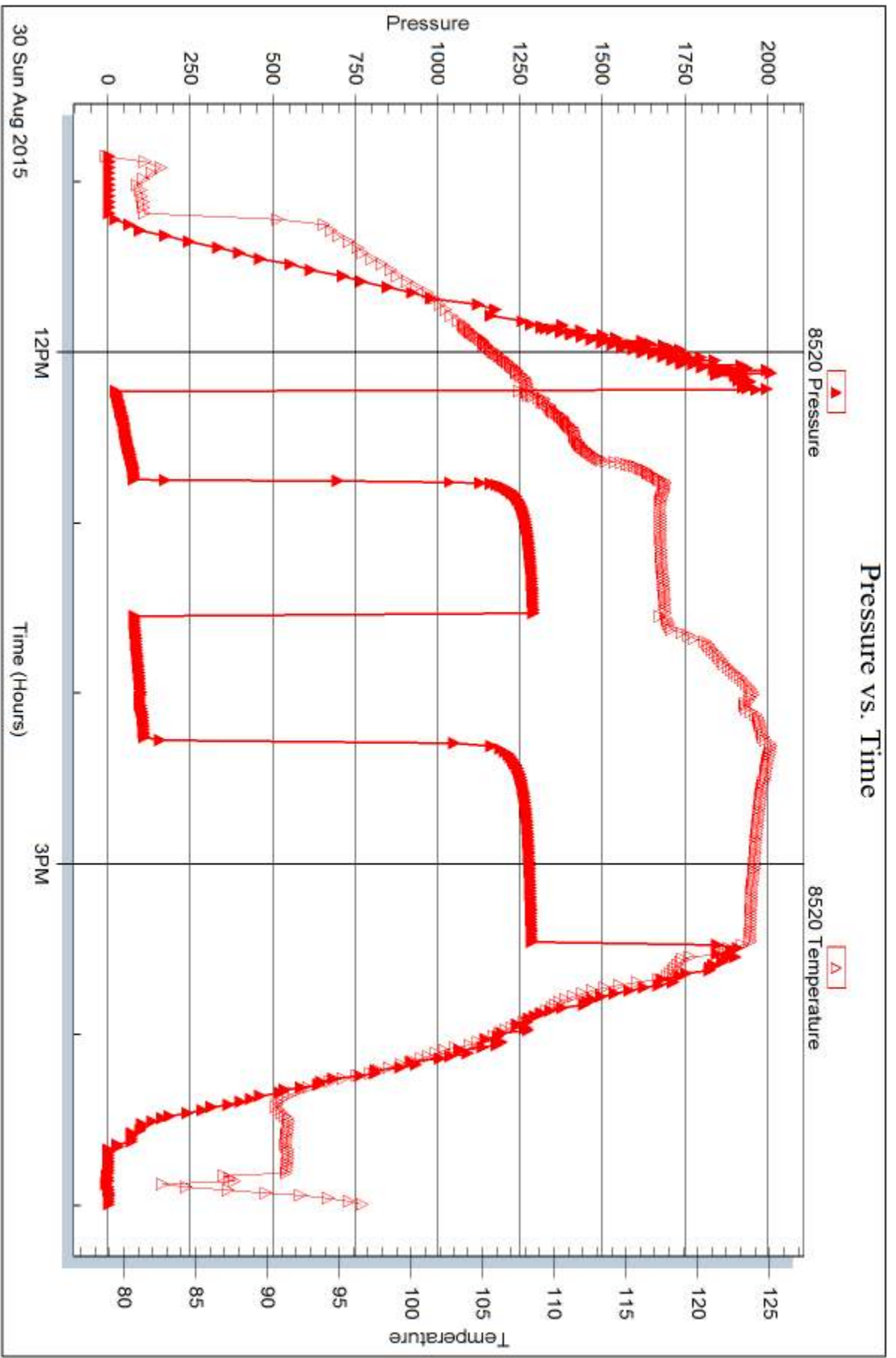
Serial #: 8520

Inside

Ritchie Exploration, Inc.

Shuler 17B #1

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration, Inc.**

8100 E 22nd St. N #700
Wichita, KS 67278

ATTN: Adam Eldani

Shuler 17B #1

17-6s-29w Sheridan,KS

Start Date: 2015.08.31 @ 04:50:00

End Date: 2015.08.31 @ 10:58:30

Job Ticket #: 65221 DST #: 6

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

Printed: 2015.09.03 @ 08:37:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65221

DST#: 6

ATTN: Adam Eldani

Test Start: 2015.08.31 @ 04:50:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:29:30

Time Test Ended: 10:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4043.00 ft (KB) To 4101.00 ft (KB) (TVD)

Reference Elevations: 2850.00 ft (KB)

Total Depth: 4101.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 3.00 ft

Serial #: 8653 Outside

Press@RunDepth: 39.98 psig @ 4044.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.31

End Date:

2015.08.31

Last Calib.: 2015.08.31

Start Time: 04:51:00

End Time:

10:58:30

Time On Btm: 2015.08.31 @ 06:29:20

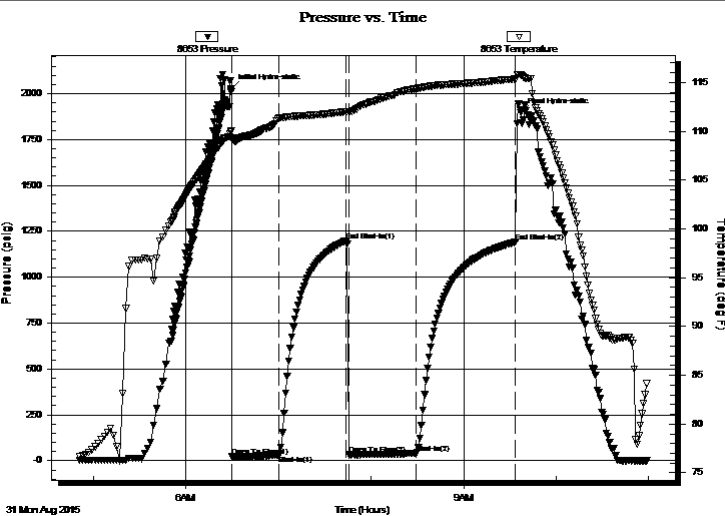
Time Off Btm: 2015.08.31 @ 09:37:00

TEST COMMENT: 30 - IF- 1/8" Blow built to 1"

45 - IS- No Return

45 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.36	110.01	Initial Hydro-static
1	21.83	109.17	Open To Flow (1)
31	29.46	111.35	Shut-In(1)
75	1198.69	112.01	End Shut-In(1)
77	32.88	111.96	Open To Flow (2)
120	39.98	114.37	Shut-In(2)
185	1191.35	115.36	End Shut-In(2)
188	1897.69	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100M (oil spots)	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N#700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65221

DST#: 6

ATTN: Adam Eldani

Test Start: 2015.08.31 @ 04:50:00

Tool Information

Drill Pipe:	Length: 3917.00 ft	Diameter: 3.80 inches	Volume: 54.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4043.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Packer	5.00			4039.00	20.00 Bottom Of Top Packer
Packer	4.00			4043.00	
Stubb	1.00			4044.00	
Recorder	0.00	8653	Outside	4044.00	
Recorder	0.00	8520	Inside	4044.00	
Perforations	19.00			4063.00	
Change Over Sub	1.00			4064.00	
Drill Pipe	31.00			4095.00	
Change Over Sub	1.00			4096.00	
Bullnose	5.00			4101.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration, Inc.

17-6s-29w Sheridan,KS

8100 E 22nd St. N #700
Wichita, KS 67278

Shuler 17B #1

Job Ticket: 65221

DST#: 6

ATTN: Adam Eldani

Test Start: 2015.08.31 @ 04:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100M (oil spots)	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

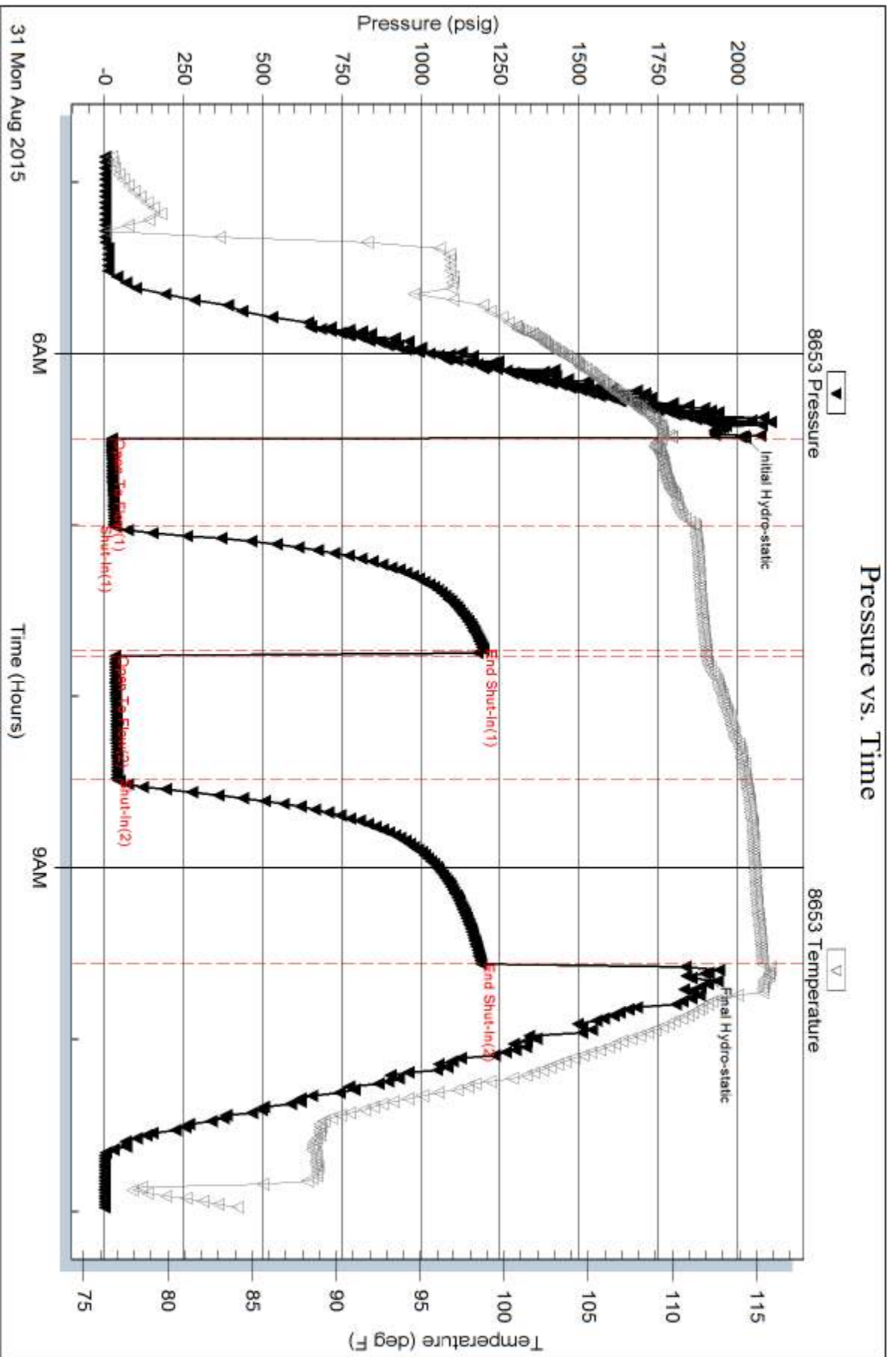
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



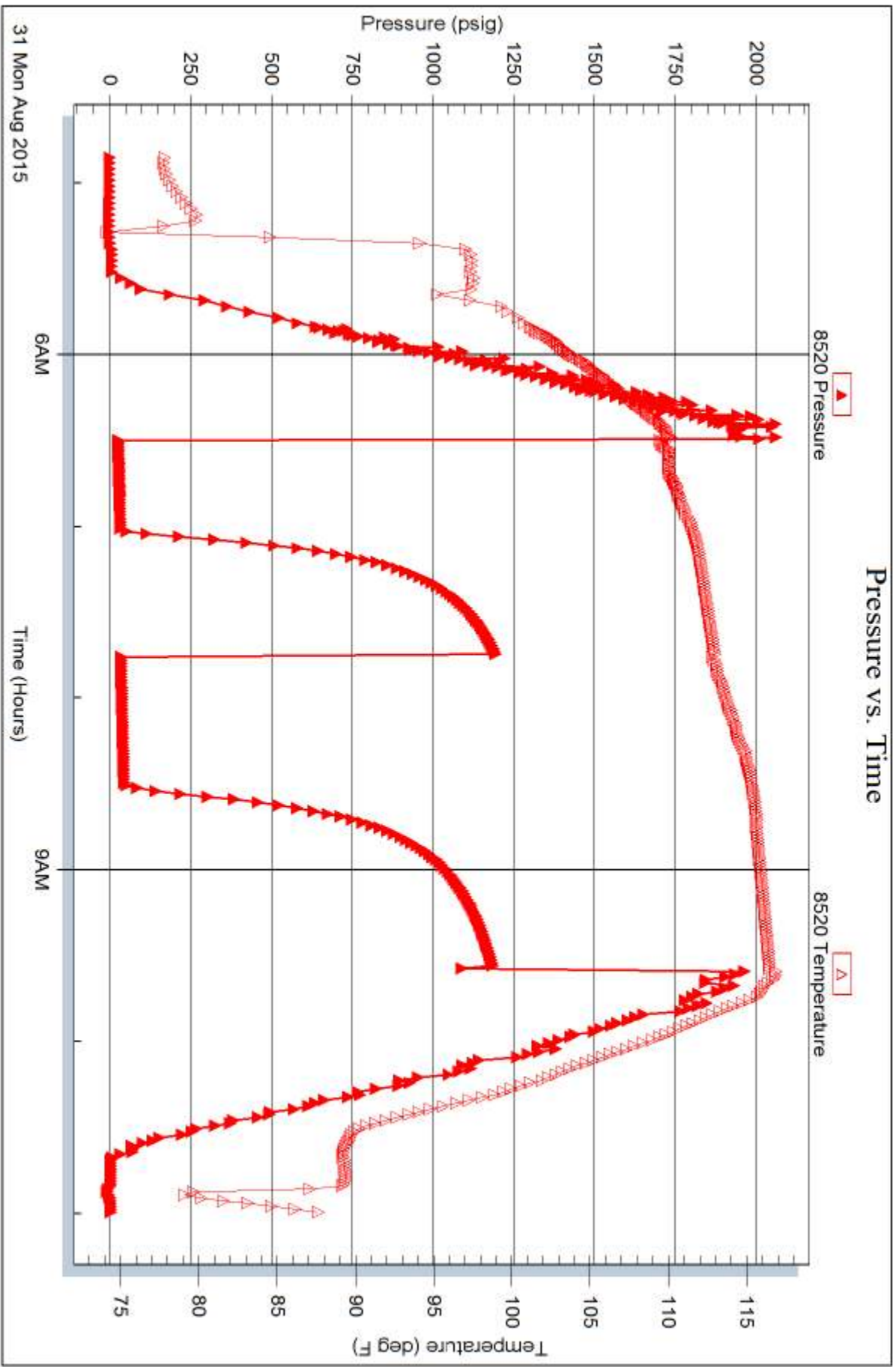
Serial #: 8520

Inside

Ritchie Exploration, Inc.

Shuler 17B #1

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 65221

Printed: 2015.09.03 @ 08:37:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65216**

Well Name & No. Shuler 17B #1 Test No. 1 Date 8-28-15
 Company Ritchie Exploration, Inc Elevation 2850 KB 2847 GL
 Address 8100 E 22nd St. N#7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldani Rig HW#8
 Location: Sec. 17 Twp. G5 Rge. 29W Co. Sheridan State KS

Interval Tested 3895-3937 Zone Tested Turonto
 Anchor Length 42' Drill Pipe Run 3752 Mud Wt. 8.8
 Top Packer Depth 3891 Drill Collars Run 121' Vis 52
 Bottom Packer Depth 3895 Wt. Pipe Run 0 WL 7.2
 Total Depth 3937 Chlorides 20000 ppm System LCM 2#
 Blow Description IF - 1/8" Blow built to 7 1/4"
FSI - NO Return
FF - Blow started at 2 min. Built to 7 1/2"
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>58</u>	<u>OSWm</u>	<u>SPOTS</u>	<u>40</u>	<u>60</u>	
<u>63</u>	<u>OSMW</u>	<u>SPOTS</u>	<u>50</u>	<u>50</u>	
<u>121</u>	<u>OSMW</u>	<u>SPOTS</u>	<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 242 BHT 120 Gravity - API RW 25 @ 68 °F Chlorides 30,000 ppm
 (A) Initial Hydrostatic 1894 Test 1050 T-On Location 1:40 AM
 (B) First Initial Flow 22 Jars 250 T-Started 2:23 AM
 (C) First Final Flow 84 Safety Joint 75 T-Open 4:24 AM
 (D) Initial Shut-In 1260 Circ Sub _____ T-Pulled 7:24 AM
 (E) Second Initial Flow 89 Hourly Standby _____ T-Out 9:05 AM
 (F) Second Final Flow 126 Mileage START 45 Comments _____
 (G) Final Shut-In 1247 Sampler _____
 (H) Final Hydrostatic 1820 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1420 MP/DST Disc't _____

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

Approved By _____ Our Representative

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. **65217**

4/10

Well Name & No. Shuler 17 B #1 Test No. 2 Date 8-28-15
 Company Ritchie Exploration, Inc. Elevation 2850 KB 2847 GL
 Address 8100 E 22nd St. N #7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldeni Rig WW#8
 Location: Sec. 17 Twp. 6S Rge. 29W Co. Sheridan State KS

Interval Tested 3951-3977 Zone Tested LKC "A-B"
 Anchor Length 26' Drill Pipe Run 3815 Mud Wt. 9.2
 Top Packer Depth 3947 Drill Collars Run 121' Vis 600
 Bottom Packer Depth 3951 Wt. Pipe Run 0 WL 7.8
 Total Depth 3977 Chlorides 1500 ppm System LCM 2#
 Blow Description IF-BoB in 1 1/2 min
ISI-NO Return
FF-BoB in 3 min
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>166</u>	<u>Free Oil</u>	<u>1000</u>			
<u>297</u>	<u>OC MW</u>	<u>20</u>	<u>40</u>	<u>40</u>	
<u>315</u>	<u>OC MW</u>	<u>10</u>	<u>80</u>	<u>10</u>	
<u>693</u>	<u>OC MW</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>688</u>	<u>OS MW</u>	<u>SPOT</u>	<u>95</u>	<u>5</u>	

Rec Total 2,003 BHT 126 Gravity _____ API RW .18 @ 70 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic 1915 Test 1050 T-On Location 5:25 PM
 (B) First Initial Flow 152 Jars 250 T-Started 5:45 PM
 (C) First Final Flow 566 Safety Joint 75 T-Open 7:38 PM
 (D) Initial Shut-In 1294 Circ Sub _____ T-Pulled 10:38 PM
 (E) Second Initial Flow 588 Hourly Standby _____ T-Out 1:20 AM
 (F) Second Final Flow 906 Mileage 50 RT ⁴⁵ Comments _____
 (G) Final Shut-In 1286 Sampler _____
 (H) Final Hydrostatic 1865 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1420 Sub Total 0
 Total 1420 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65218**

Well Name & No. Shuler 17B#1 Test No. 3 Date 8-29-15
 Company Ritchie Exploration, Inc. Elevation 2850 KB 2847 GL
 Address 8100 E 22nd St. N #7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldani Rig WW #8
 Location: Sec. 17 Twp. 6S Rge. 29W Co. Sheridan State KS

Interval Tested 3975-3988 Zone Tested LKc "C"
 Anchor Length 13' Drill Pipe Run 3846 Mud Wt. 9.2
 Top Packer Depth 3971 Drill Collars Run 121' Vis 51
 Bottom Packer Depth 3975 Wt. Pipe Run 0 WL 7.6
 Total Depth 3988 Chlorides 1,700 ppm System LCM 2#

Blow Description IF-BoB in 9 min
ISI-Weak Surface Return Started at 20 min. Did not build or die
FF-BoB in 14 min.
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Free oil</u>	<u>1000</u>			
<u>63</u>	<u>OCMW</u>	<u>100</u>	<u>45</u>	<u>45</u>	
<u>63</u>	<u>OCMW</u>	<u>5</u>	<u>75</u>	<u>20</u>	
<u>189</u>	<u>OCMW</u>	<u>5</u>	<u>85</u>	<u>10</u>	
<u>310</u>	<u>OSMW</u>	<u>SPOTS</u>	<u>95</u>	<u>5</u>	

Rec Total 627' BHT 126 Gravity — API RW .15 @ 87 °F Chlorides 45,000 ppm

(A) Initial Hydrostatic 1936 Test 1050 T-On Location 7:45 AM
 (B) First Initial Flow 25 Jars 250 T-Started 7:50 AM
 (C) First Final Flow 167 Safety Joint 75 T-Open 9:18 AM
 (D) Initial Shut-In 1252 Circ Sub _____ T-Pulled 12:18 PM
 (E) Second Initial Flow 173 Hourly Standby _____ T-Out 2:00 PM
 (F) Second Final Flow 295 Mileage 50 RT 45
 (G) Final Shut-In 1225 Sampler _____
 (H) Final Hydrostatic 1850 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1670
 Sub Total 1670 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65219**

Well Name & No. Shuler 17B #1 Test No. 4 Date 8-29-15
 Company Ritchie Explorations Inc. Elevation 2850 KB 2847 GL
 Address 8100 E 22nd St. N #7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldani Rig LW #8
 Location: Sec. 17 Twp. 6S Rge. 29W Co. Sheridan State KS

Interval Tested 3992-4020 Zone Tested LKC "E-F"
 Anchor Length 28' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3988 Drill Collars Run 121 Vis 51
 Bottom Packer Depth 3992 Wt. Pipe Run 10 WL 7.6
 Total Depth 4020 Chlorides 1,700 ppm System LCM 2#
 Blow Description IF - 1/8" Blow built to 2 1/4"
FSI - No Return
FF - Surface Blow built to 3 1/4"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>CGO</u>	<u>10</u>	<u>90</u>		
<u>40</u>	<u>OLM</u>		<u>30</u>		<u>70</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 70' BHT 118 Gravity 32 API RW - @ - °F Chlorides _____ ppm

(A) Initial Hydrostatic 1939 Test 1150 T-On Location 10:00 PM
 (B) First Initial Flow 19 Jars _____ T-Started 10:09 PM
 (C) First Final Flow 28 Safety Joint _____ T-Open 11:51 PM
 (D) Initial Shut-In 1276 Circ Sub _____ T-Pulled 2:51 AM
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out 4:23 AM
 (F) Second Final Flow 47 Mileage 50RT 45 Comments _____
 (G) Final Shut-In 1269 Sampler _____
 (H) Final Hydrostatic 1857 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1195

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1195
 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65220**

Well Name & No. Shuler 17B #1 Test No. 5 Date 8-30-15
 Company Ritchie Exploration, Inc. Elevation 28500 KB 2847 GL
 Address 81000 E 22nd St. N #7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldan Rig WW #8
 Location: Sec. 17 Twp. 6S Rge. 29W Co. Sheridan State KS

Interval Tested 4017-4041 Zone Tested LKC "G"
 Anchor Length 24' Drill Pipe Run 3886 Mud Wt. 9.1
 Top Packer Depth 4013 Drill Collars Run 121' Vis 52
 Bottom Packer Depth 4017 Wt. Pipe Run 0 WL 7.6
 Total Depth 4041 Chlorides 2,000 ppm System LCM 2#
 Blow Description IF - Surface Blow built to 5"
ISI - NO Return
FF - Surface Blow built to 6"
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>78</u>	<u>OSWm</u>	<u>SPOTS</u>	<u>400</u>	<u>600</u>	
<u>121</u>	<u>OSmw</u>	<u>SPOTS</u>	<u>800</u>	<u>20</u>	

Rec Total 199' BHT 123 Gravity - API RW -13 @ 99 °F Chlorides 40,000 ppm
 (A) Initial Hydrostatic 1972 Test 1150 T-On Location 10:40 AM
 (B) First Initial Flow 22 Jars _____ T-Started 10:50 AM
 (C) First Final Flow 75 Safety Joint _____ T-Open 12:15 PM
 (D) Initial Shut-In 1292 Circ Sub _____ T-Pulled 3:15 PM
 (E) Second Initial Flow 78 Hourly Standby _____ T-Out 5:00 PM
 (F) Second Final Flow 107 Mileage SCRT 45 Comments _____
 (G) Final Shut-In 1289 Sampler _____
 (H) Final Hydrostatic 1836 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1195

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

Sub Total 0
 Total 1195
 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65221**

Well Name & No. Shuer 17B #1 Test No. 6 Date 8-31-15
 Company Ritchie Exploration, Inc. Elevation 2856 KB 2847 GL
 Address 8100 E 22nd St. N #7000 Wichita, KS 67278
 Co. Rep / Geo. Adam Eldani Rig LWS#8
 Location: Sec. 17 Twp. 6S Rge. 29W Co. Sheridan State KS

Interval Tested 4043-4101 Zone Tested LKC "H-I-J"
 Anchor Length 58' Drill Pipe Run 3917 Mud Wt. 9.1
 Top Packer Depth 4039 Drill Collars Run 121' Vis 52
 Bottom Packer Depth 4043 Wt. Pipe Run 0 WL 7.6
 Total Depth 4101 Chlorides 2,000 ppm System LCM 2#
 Blow Description IF - 1/8" Blow built to 1"
ISI - No Return
FP - No Blow
FSE - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OSM</u>	<u>SPOTS</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 115 Gravity 1150 API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2026 Test 1150 T-On Location 4:45 AM
 (B) First Initial Flow 21 Jars - T-Started 6:50 AM
 (C) First Final Flow 29 Safety Joint - T-Open 6:30 AM
 (D) Initial Shut-In 1198 Circ Sub - T-Pulled 9:30 AM
 (E) Second Initial Flow 32 Hourly Standby - T-Out 11:00 AM
 (F) Second Final Flow 39 Mileage 50 RT X2 Comments vacated tools
 (G) Final Shut-In 1191 Sampler 45+45 330 9-2-15
 (H) Final Hydrostatic 1897 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 800 no charge
 Day Standby 1.5d 4.5h Total 2040
 Accessibility - MP/DST Disc't -
 Sub Total 1240

Approved By _____

Our Representative 

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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11890 A

DATE _____ TICKET NO. _____

DATE OF JOB 9-3-15 DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER LD PROLLING, INC		LEASE SHULER 17B		WELL NO. 1					
ADDRESS _____		COUNTY SHERIDAN STATE KS							
CITY _____ STATE _____		SERVICE CREW KG, BECK, MESTA							
AUTHORIZED BY _____		JOB TYPE: C/W - LONG STRONG							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19919	3/4	-LZB					9-2	PM	1600
						ARRIVED AT JOB	9-2	AM	2230
19808	1/4	-LZB				START OPERATION	9-3	AM	0130
						FINISH OPERATION	1	AM	0215
						RELEASED	1	AM	0300
						MILES FROM STATION TO WELL			218

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: **LD DAVIS** BY **KAREN COONEY**
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AAZ CEMENT	SIC	175		2975-
CP103	60/40 PZ	SIC	30		360-
CC102	CELL FLAME	lb.	44		162.80
CC111	SALT	lb.	954		477-
CC113	2 1/2 P SUM	lb.	825		618.75
CC129	FUA-322	lb.	132		990-
CC201	GLYCOLITE	lb.	1050		703.50
CF607	5 1/2 LATCH DOWN FLAG	EA	1		400-
CF100	5 1/2 PACKER SHOES	EA	1		3700-
CF1651	5 1/2 TURBO LIZER	EA	6		550-
CF190	5 1/2 BASKET	EA	1		290-
CC151	MUD MUSH	gal	1000		1500-
E100	PICKUP MILE	mi.	100		450-
E101	TRUCK MILE	mi.	200		1500-
E113	BULL DELIVERY	TM	955		2387.50
CE705	DEPTH CHARGE 4001-5000	EA	1		2520-
CE240	BLENDED CHARGE	SK	205		287-
5003	SERVICE SUPERVISOR	EA	1		175-
CE504	PLUG CONTAINER	EA	1		250-

SUB TOTAL **70,296.55**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		13,192.76

SERVICE REPRESENTATIVE: **[Signature]** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **LD DAVIS** BY **[Signature]**
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	LID DRILLING, INC		Lease No.	Date	
Lease	SHULER 17B		Well #	9-3-15	
Field/Order #	Station	Casing	Depth	County	State
11890	PRATT, KS	5 1/2	4253	SHERIDAN	KS
Type Job	Formation	Legal Description			
ONW - LOW STRONG	TD-455	17-6-29			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				Pre Pad	Max		5 Min.	
4253	Depth	From	To	Pad	Min		10 Min.	
Volume	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative	LID	Station Manager	KEVIN	Treater	CONLEY
-------------------------	-----	-----------------	-------	---------	--------

Service Units	83353	38111-19919	19827-19808
Driver Names	KG	D. BECK	R. MESTRA

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
2230					ONW LOCATION 9/2/15
					RUN 109 JTS 5 1/2 CSG = 4256
					RUN PACKER SHOE BASKET
					ONW 1ST JTDWT. CENTRAL 20R ON
					2-4-6-8-10-12
					BRACK CORC. AT 4253
0030	1000				DROP BRAC - SET PER SHOE - 4253
0130	200		24	6	PUMP 24 bbl MUD FLUSH
	200		5	6	PUMP 5 bbl H ₂ O
	100		48	6	PUMP 175 SK HAZ CEMENT
					WASH LINE CLEAN
					DROP LATCH DOWN PLUG
	0		0	7	START WESP.
	200		65	7	LEFT CEMENT
	700		95	2 1/2	SLOW RATE
0215	1500		103.5	2 1/2	PLUG DOWN - HOLD
					PLUG RAT HOLE - 30SK 60/40 PZ
0300					JOB COMPLETE - KEVIN

Adam Eldani Geo-Log/Report

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: #1 Shuler 17B
Well Id: APE 15-179-21409-0000
Location: SEC 17 - TOWNSHIP 65- RANGE 29W Sheridan County, KS
License Number: 8100 E. 22nd St. N. Bldg. 700 Region: NW KANSAS
Spud Date: 08/24/2015
Surface Coordinates: 1704° 52' E of N1/2 SW NW
Drilling Completed: 09/02/2015
Bottom Hole Deviation Surveys are detailed through out the Geo-Report.

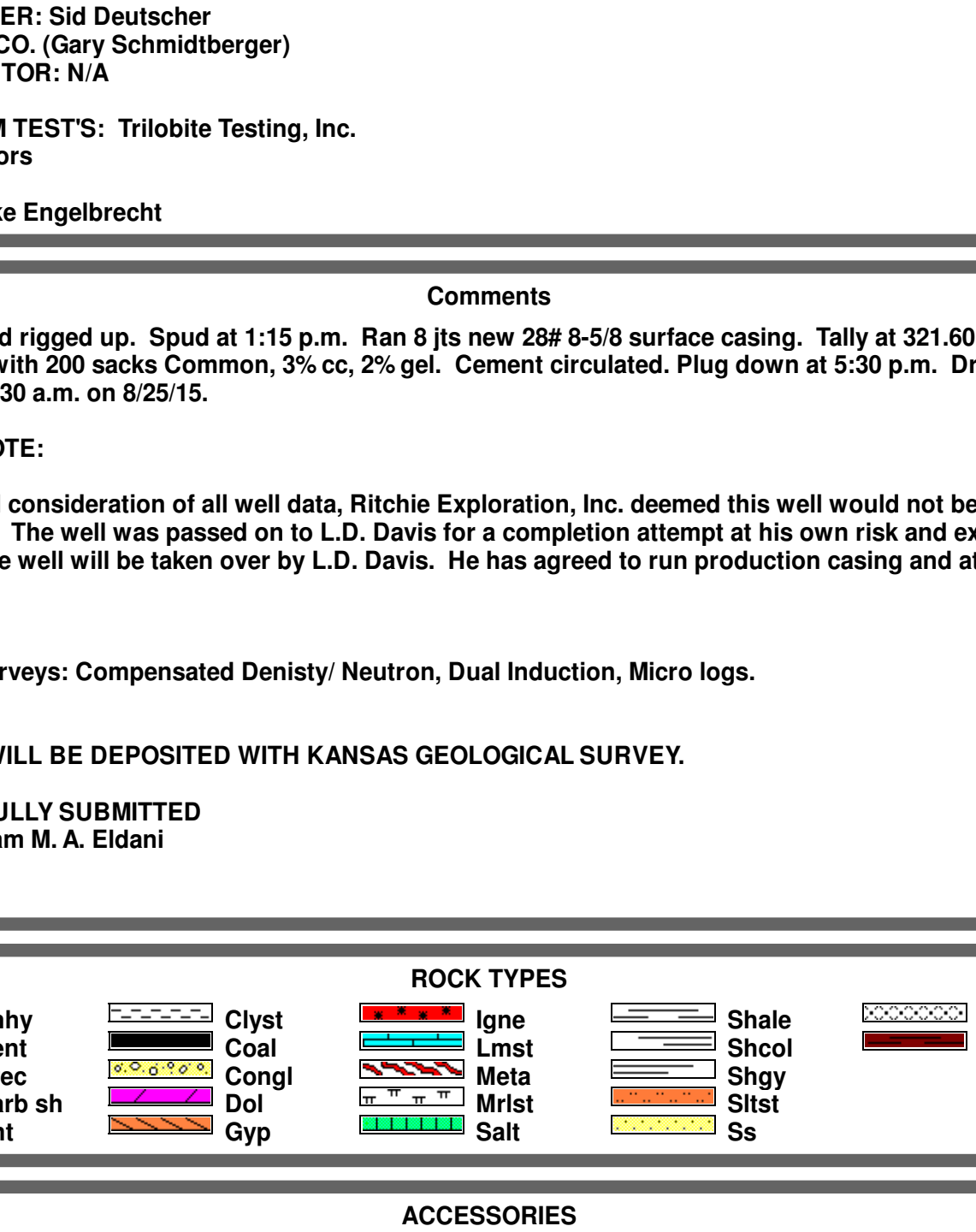
Coordinates:
Ground Elevation (ft): 2843' **K.B. Elevation (ft):** 2848'
Logged Interval (ft): 3400' To: 4557' **Total Depth (ft):** 4555'
Formation: Mississippian
Type of Drilling Fluid: Mud-Co Chemical
 Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1531 www.WellSight.com

OPERATOR

Company: Ritchie Exploration, Inc. (drilled by WW RIG: #8)
Address: 8100 E. 22nd St. N. Bldg. 700
 Wichita, Kansas
 67226-2838

GEOLOGIST

Name: Adam M.A. Eldani
Company: Adam M.A. Eldani
Address: (316) 293-6699



TOPS & DRILL REPORT

TOPS:
DRILLING REPORT

SAMPLE TOPS:
 Anhydrite: 2570+278
 Heebner: 3899-1051
 Toronto: 3925-1077
 Lansing: 3943-1095
 Muncie: 4044-1196
 Stark Sh: 4104-1256
 Hush: 4134-1286
 KBC: 4151-1303
 Pleasanton: 4167-1319
 Marmaton: 4222-1374
 Pawnee: 4252-1410
 Fort Scott: 4294-1446
 Cherokee Sh: 4332-1484
 Miss/Osage: 4443-1595
 RTD: 4555-1707

E-LOG TOPS:
 Anhydrite: 2570+278
 B/Anhydrite: 2605+243
 Heebner: 3898-1050
 Toronto: 3925-1080
 Lansing: 3943-1095
 Muncie: 4043-1195
 Stark Sh: 4103-1255
 Hush: 4131-1283
 KBC: 4151-1303
 Pleasanton: 4158-1310
 Marmaton: 4222-1375
 Pawnee: 4252-1416
 Fort Scott: 4297-1449
 Cherokee Sh: 4332-1484
 Miss/Osage: 4444-1596
 LTD: 4557-1709

DAILY DRILLING REPORT @ 7AM:
DATE DEPTH:
 8/24 112'
 8/26 2890'
 8/27 3648'
 8/28 3937'
 8/29 3985'
 8/30 4041'
 9/1 4272'
 9/2 4555'

Misc.

All DST's info. are NEAR the correct log depth.
RIG: WW RIG: #08
TOO: PUSHER: Sid Deutscher
MUD: MUD CO. (Gary Schmidtberger)
GAS DETECTOR: N/A
DRILL STEM TESTS: Trilobite Testing, Inc.
LOGS: Nabors
OFFICE: Mike Engelbrecht

Moved in and rigged up. Spud at 1:15 p.m. Ran 8 hrs on 28# 8-5/8 surface casing. Tally at 321.6', set at 328'. Cemented with 200 sacks Cement, 3% cc, 2% gel. Cement circulated. Plug down at 5:30 p.m. Drilled out cement at 1:30 a.m. on 8/25/15.

Operator NOTE:
 After careful consideration of all well data, Ritchie Exploration, Inc. deemed this well would not be economical. The well was passed on to L.D. Davis for a completion attempt at his own risk and expense. At this point the well will be taken over by L.D. Davis. He has agreed to run production casing and attempt a completion.

Well Log Surveys: Compensated Density/ Neutron, Dual Induction, Micro logs.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.

RESPECTFULLY SUBMITTED
 Adam M. A. Eldani

ROCK TYPES	
	Shale
	Silt
	Sand
	Clay
	Siltstone
	Sandstone
	Limestone
	Dolomite
	Gypsum
	Anhydrite
	Salt
	Oolite
	Mudstone
	Siltstone
	Sandstone
	Limestone
	Dolomite
	Gypsum
	Anhydrite
	Salt
	Oolite
	Mudstone
	Siltstone
	Sandstone
	Limestone
	Dolomite
	Gypsum
	Anhydrite
	Salt
	Oolite
	Mudstone
	Siltstone
	Sandstone
	Limestone
	Dolomite
	Gypsum
	Anhydrite
	Salt
	Oolite
	Mudstone
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Customer <i>L. D. Drilling</i>	Lease No.	Date <i>07/26-15</i>	
Lease <i>SHULER 17 B</i>	Well # <i>1</i>	County <i>SHERIDAN</i>	
Field Order # <i>1772</i>	Station <i>PR2-H</i>	Casing <i>3 1/2</i>	Depth
Type Job <i>CNW Spacers</i>	Formation	Legal Description <i>11-6-29</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>3 1/2</i>	<i>2 3/8</i>			Pre Pad	Max		5 Min.	
Depth <i>716</i>	Depth <i>3977</i>	From	To	Pad	Min		10 Min.	
Volume <i>2.7</i>	Volume <i>1.5</i>	From	To	Frac	Avg		15 Min.	
Max Press	Max Press <i>1,300</i>	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth <i>3856</i>	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 38117 19919 14354 37925</i>		
Driver Names <i>Sullivan Beck MESTA</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:45</i>					<i>on loc</i>
<i>8:42</i>		<i>1500</i>	<i>4</i>	<i>1 1/2</i>	<i>load a test plug</i>
<i>9:00</i>					<i>Return 5000</i>
	<i>500</i>		<i>16</i>		<i>load back side</i>
<i>9:07</i>		<i>250</i>		<i>2</i>	<i>set injection rate</i>
<i>9:15</i>		<i>0</i>		<i>2</i>	<i>st mix cont 100k</i>
<i>9:36</i>					<i>cont mix (1) shut down wash lines, pump</i>
<i>9:40</i>		<i>0</i>		<i>0</i>	<i>st disp VAC</i>
				<i>0</i>	<i>let TAKE on VAC</i>
<i>9:53</i>		<i>950</i>	<i>10 1/2</i>		<i>STOP sucking and gear</i>
<i>9:55</i>					<i>Release PS:</i>
	<i>500</i>			<i>1 1/2</i>	<i>Reverse out</i>
<i>10:18</i>					<i>shut down</i>
<i>10:20</i>		<i>950</i>			<i>Test Spacers</i>
					<i>Return PS. TRIP Tube out</i>
<i>11:40</i>					<i>Full csg</i>
	<i>500</i>		<i>7</i>		<i>PS:</i>
<i>11:45</i>					<i>50% Complete</i>
					<i>Thank you</i>