



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217307
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
-----------------------------------	-----------------	---

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: _____

1217307

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	States B 1
Doc ID	1217307

Tops

Name	Top	Datum
Anhydrite	1815'	(+423)
Topeka	3190'	(-952)
Heebner	3384'	(-1146)
Toronto	3409'	(-1171)
Lansing	3427'	(-1189)
Base/KC	3614'	(-1376)
Arbuckle	3661'	(-1423)
Reagan	3669'	(-1431)
L.T.D.	3740'	(-1502)

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 420

Date	4-29-14	Sec.	30	Twp.	S	Range	20	County	Phillips	State	KS	On Location	6:00pm	Finish	7:00 PM						
Lease								States B		Well No. 1		Location Loan 5 to Day Dream RD									
Contractor								WV 6		Owner						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Surface		Charge To						John O Farmer					
Hole Size								12 1/4		T.D.		217									
Csg.								4 3/8		Depth		Street						John O Farmer			
Tbg. Size										Depth		City						State			
Tool										Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.								DOT4		Shoe Joint		20 ft						Cement Amount Ordered		150 com	
Meas Line								Displace		12.5 BBL		3% ACC 2% gel 1/2 H Flow									
EQUIPMENT																					
Pumptrk		No.		Cementer		Helper		Common													
10				Matt				Poz. Mix													
Bulktrk		No.		Driver		Driver		Gel.													
1				Mike																	
Bulktrk		No.		Driver		Driver		Calcium													
20				Chad																	
JOB SERVICES & REMARKS																					
Remarks:								Hulls													
Rat Hole								Salt													
Mouse Hole								Flowseal													
Centralizers								Kol-Seal													
Baskets								Mud CLR 48													
D/V or Port Collar								CFL-117 or CD110 CAF 38													
Cement								Sand													
Circulate								Handling													
Thank you								Mileage													
QUALITY OILWELL CEMENTING								FLOAT EQUIPMENT													
								Guide Shoe													
								Centralizer													
								Baskets													
								AFU Inserts													
								Float Shoe													
								Latch Down													
								Pumptrk Charge													
								Mileage													
								Tax													
								Discount													
								Total Charge													
Signature								Mar Basso													

QUALITY OILWELL CEMENTING, INC.

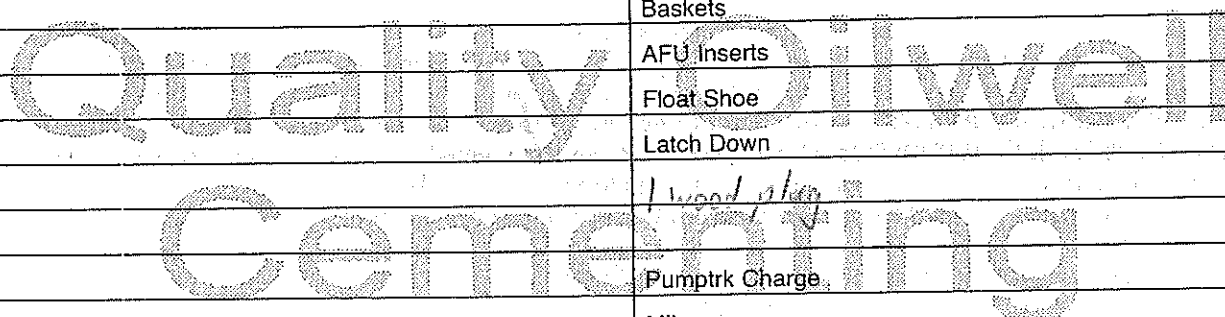
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 217

Date	5-5-14	Sec.	30	Twp.	5	Range	20	County	Phillips	State	KS	On Location		Finish	10.45 AM
Lease States								Well No. /		Location <i>Logan S to Day Dream Rd. W to 1600 Rd</i>					
Contractor <i>WW C</i>								Owner <i>W N, F n 7</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job <i>Plug</i>								Charge To <i>J O Farmer</i>							
Hole Size								T.D.		Street					
Csg.								Depth		City					
Tbg. Size								Depth		State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered <i>205 sx 60/40 4% oil 1/4 # Flow</i>					
Meas Line								Displace							
EQUIPMENT								Common							
Pumptrk	5	No.	Cementer				Helper		<i>David</i>						
Bulktrk	1	No.	Driver				Driver		<i>Ryan</i>						
Bulktrk	<i>Ph</i>	No.	Driver				Driver		<i>Travis</i>						
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
<i>25 sx at 1930</i>								Handling							
<i>100 sx at 1125</i>								Mileage							
<i>40 sx at 270</i>								FLOAT EQUIPMENT							
<i>10 sx at 40</i>								Guide Shoe							
<i>30 sx Rat</i>								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								<i>1 wood plug</i>							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature <i>Mail Box</i>															





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS. 67665

ATTN: Austin Klaus

States B #1

30-5s-20w.Phillips,KS

Start Date: 2014.05.02 @ 16:30:00

End Date: 2014.05.02 @ 23:28:30

Job Ticket #: 57617 DST #: 1

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

Printed: 2014.05.06 @ 09:31:22

John O Farmer
30-5s-20w.Phillips,KS
States B #1
DST # 1
Toronto - LKC A
2014.05.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57617

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.05.02 @ 16:30:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:43:00

Time Test Ended: 23:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 67

Interval: 3372.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2238.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Outside

Press@RunDepth: 41.88 psig @ 3410.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.02

End Date:

2014.05.02

Last Calib.:

2014.05.02

Start Time: 16:30:01

End Time:

23:28:30

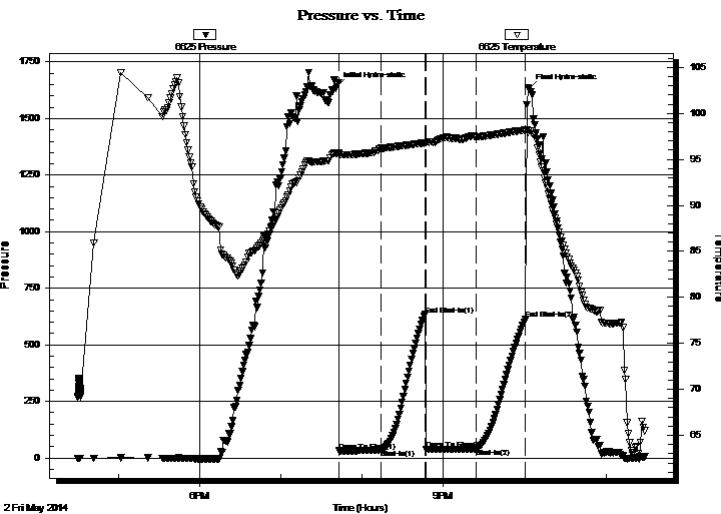
Time On Btm:

2014.05.02 @ 19:41:30

Time Off Btm:

2014.05.02 @ 22:03:30

TEST COMMENT: I.F. - 30 - Weak surface blow throughout
I.S.I. - 30 - No blow back
F.F. - 30 - Weak surface blow throughout
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.16	95.64	Initial Hydro-static
2	31.56	95.55	Open To Flow (1)
33	36.29	96.19	Shut-In(1)
65	633.47	96.80	End Shut-In(1)
66	37.12	96.80	Open To Flow (2)
103	41.88	97.48	Shut-In(2)
139	613.00	98.19	End Shut-In(2)
142	1632.58	98.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer
 PO Box 352
 Russell, KS. 67665
 ATTN: Austin Klaus

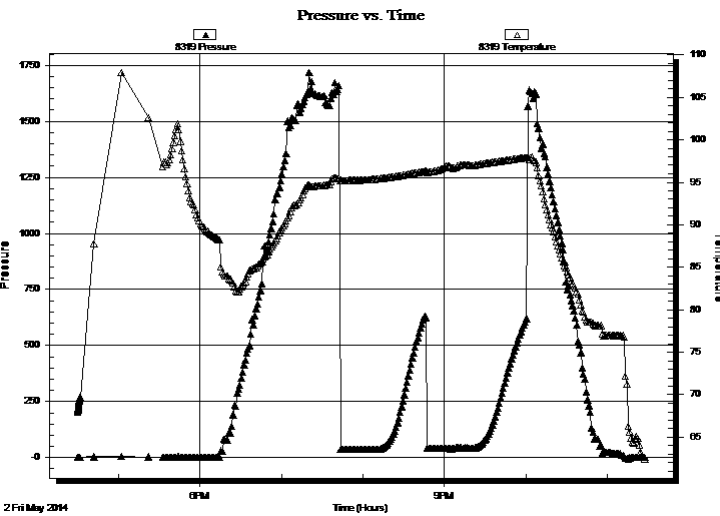
30-5s-20w.Phillips,KS
States B #1
 Job Ticket: 57617 **DST#: 1**
 Test Start: 2014.05.02 @ 16:30:00

GENERAL INFORMATION:

Formation: Toronto - LKC A		
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 19:43:00	Tester: Bob Hamel	
Time Test Ended: 23:28:30	Unit No: 67	
Interval: 3372.00 ft (KB) To 3440.00 ft (KB) (TVD)	Reference Elevations: 2238.00 ft (KB)	
Total Depth: 3440.00 ft (KB) (TVD)	2233.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft

Serial #: 8319	Inside			
Press@RunDepth: psig @ 3410.00 ft (KB)	Capacity: 8000.00 psig			
Start Date: 2014.05.02 End Date: 2014.05.02	Last Calib.: 2014.05.02			
Start Time: 16:30:01 End Time: 23:28:00	Time On Btm: Time Off Btm:			

TEST COMMENT: I.F. - 30 - Weak surface blow throughout
 I.S.I. - 30 - No blow back
 F.F. - 30 - Weak surface blow throughout
 F.S.I. - 30 - No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57617

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.05.02 @ 16:30:00

Tool Information

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.80 inches	Volume: 45.72 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose:	38000.00 lb
			<u>Total Volume: 46.34 bbl</u>	Tool Chased	7.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3372.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	88.00 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			3353.00	
Shut In Tool	5.00			3358.00	
Hydraulic tool	5.00			3363.00	
Packer	4.00			3367.00	20.00 Bottom Of Top Packer
Packer	5.00			3372.00	
Stubb	1.00			3373.00	
Perforations	3.00			3376.00	
Change Over Sub	1.00			3377.00	
Drill Pipe	32.00			3409.00	
Change Over Sub	1.00			3410.00	
Recorder	0.00	6625	Outside	3410.00	
Recorder	0.00	8319	Inside	3410.00	
Perforations	26.00			3436.00	
Bullnose	4.00			3440.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57617

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.05.02 @ 16:30:00

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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

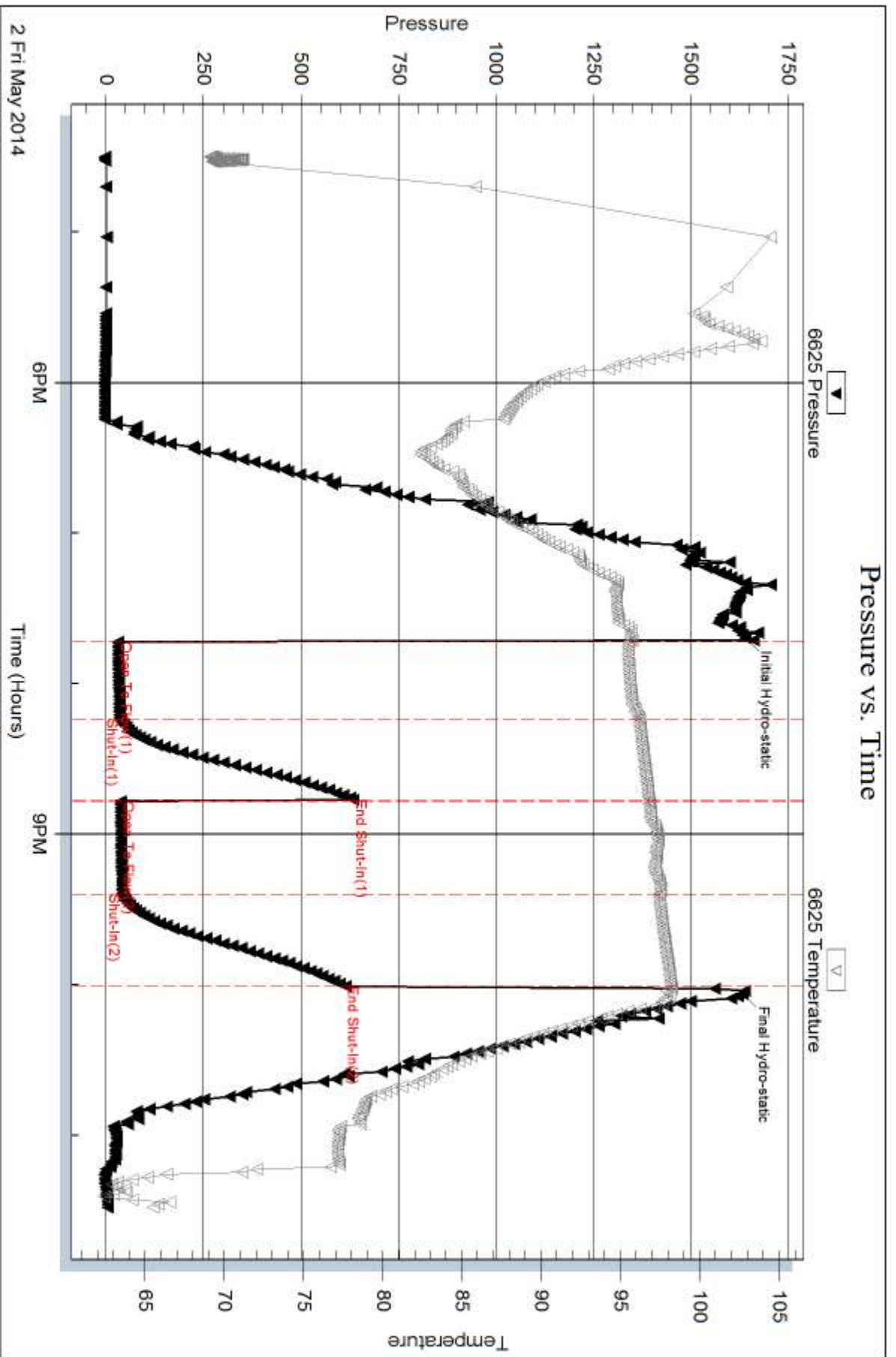
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



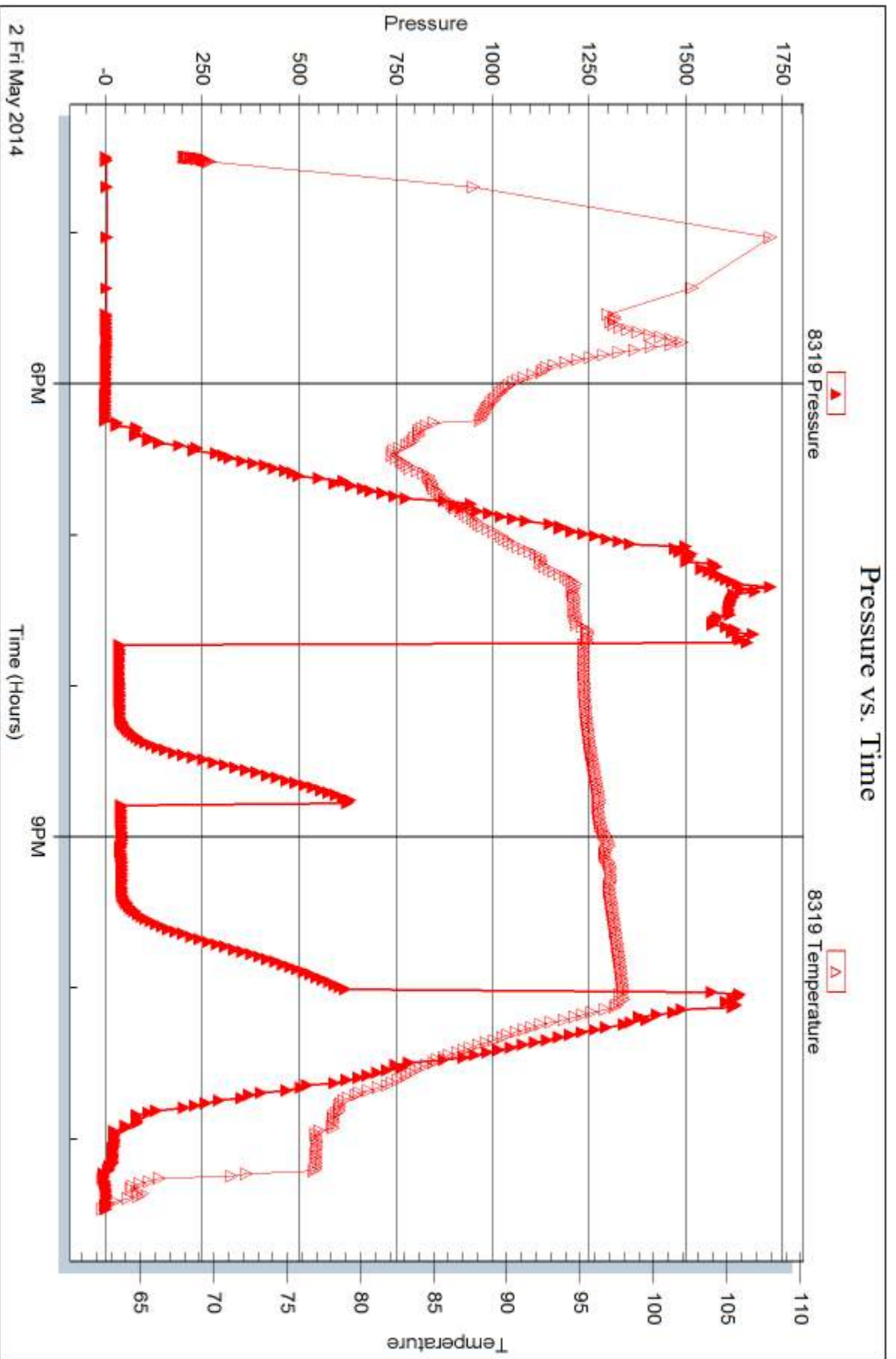
Serial #: 8319

Inside

John O Farmer

States B #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57617

Printed: 2014.05.06 @ 09:31:23



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS. 67665

ATTN: Austin Klaus

States B #1

30-5s-20w.Phillips,KS

Start Date: 2014.05.03 @ 06:15:00

End Date: 2014.05.03 @ 11:23:00

Job Ticket #: 57618 DST #: 2

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

Printed: 2014.05.06 @ 09:29:47

John O Farmer
30-5s-20w.Phillips,KS
States B #1
DST # 2
LKC " D "
2014.05.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57618

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 06:15:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:00

Time Test Ended: 11:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 3466.00 ft (KB) To 3486.00 ft (KB) (TVD)

Reference Elevations: 2238.00 ft (KB)

Total Depth: 3486.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Outside

Press@RunDepth: 258.39 psig @ 3467.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.03

End Date:

2014.05.03

Last Calib.:

2014.05.03

Start Time: 06:15:01

End Time:

11:23:00

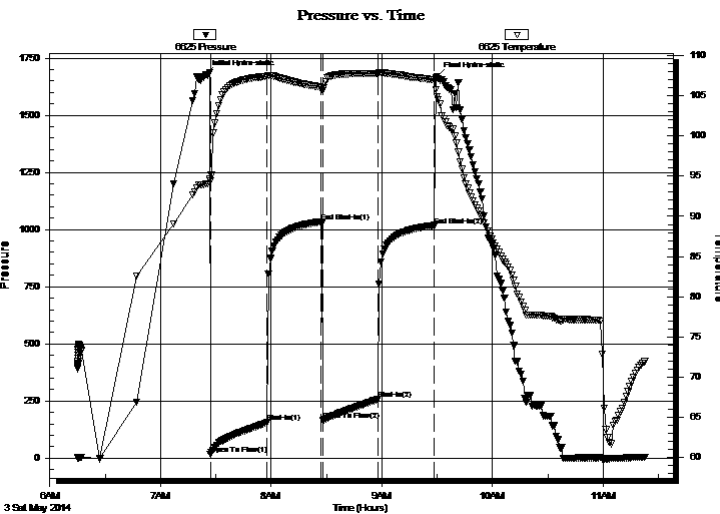
Time On Btm:

2014.05.03 @ 07:24:30

Time Off Btm:

2014.05.03 @ 09:30:00

TEST COMMENT: I.F - 30 - BOB in 8 min
I.S.I. - 30 - No blow back
F.F. - 30 - BOB in 10 min
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.19	94.03	Initial Hydro-static
3	18.29	94.47	Open To Flow (1)
33	155.03	107.44	Shut-In(1)
63	1034.16	106.08	End Shut-In(1)
64	166.17	105.63	Open To Flow (2)
94	258.39	107.82	Shut-In(2)
124	1018.08	106.99	End Shut-In(2)
126	1668.34	104.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	S,O,C,M, 5% O 95% M	0.25
483.00	S,O,C,M,W, 5%O 10%M 85%W	6.08
3.00	CLEAN OIL 100%	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57618

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 06:15:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 07:27:00 Tester: Bob Hamel

Time Test Ended: 11:23:00 Unit No: 67

Interval: 3466.00 ft (KB) To 3486.00 ft (KB) (TVD) Reference Elevations: 2238.00 ft (KB)

Total Depth: 3486.00 ft (KB) (TVD) 2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 3467.00 ft (KB) Capacity: 8000.00 psig

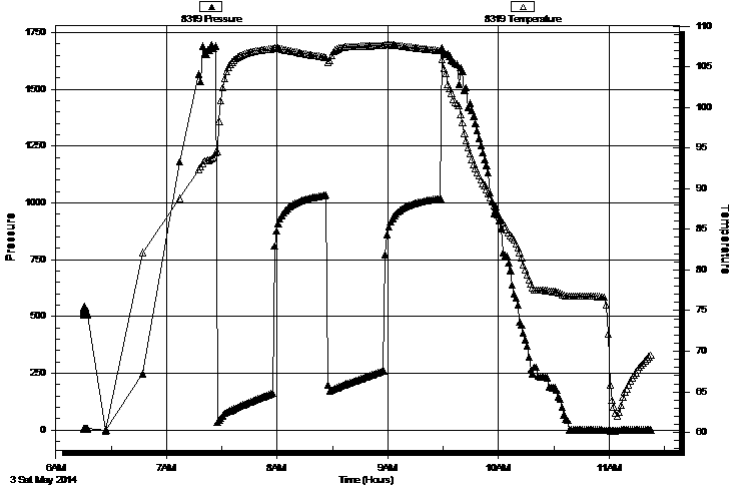
Start Date: 2014.05.03 End Date: 2014.05.03 Last Calib.: 2014.05.03

Start Time: 06:15:01 End Time: 11:23:00 Time On Btm:

Time Off Btm:

TEST COMMENT: I.F - 30 - BOB in 8 min
I.S.I. - 30 - No blow back
F.F. - 30 -BOB in 10 min
F.S.I. - 30 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	S,O,C,M, 5% O 95% M	0.25
483.00	S,O,C,M,W, 5%O 10%M 85%W	6.08
3.00	CLEAN OIL 100%	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57618

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 06:15:00

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose:	38000.00 lb
			<u>Total Volume: 47.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3466.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	40.00 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			3447.00	
Shut In Tool	5.00			3452.00	
Hydraulic tool	5.00			3457.00	
Packer	4.00			3461.00	20.00 Bottom Of Top Packer
Packer	5.00			3466.00	
Stubb	1.00			3467.00	
Recorder	0.00	6625	Outside	3467.00	
Recorder	0.00	8319	Inside	3467.00	
Perforations	15.00			3482.00	
Bullnose	4.00			3486.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57618

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 06:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

17.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

126000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	S,O,C,M, 5% O 95% M	0.246
483.00	S,O,C,M,W, 5%O 10%M 85%W	6.083
3.00	CLEAN OIL 100%	0.042

Total Length: 536.00 ft Total Volume: 6.371 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

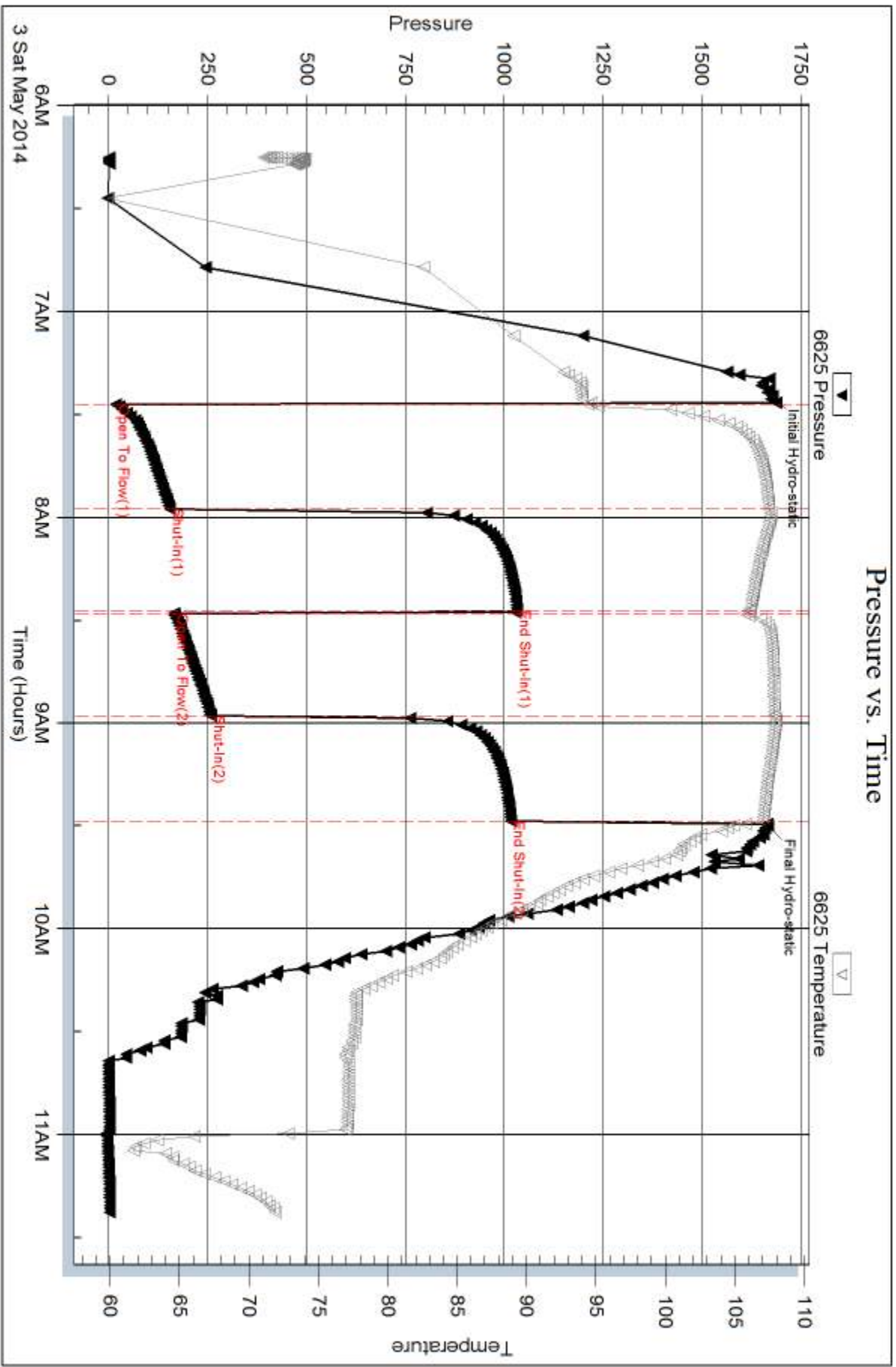
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .07 OHMS @ 71 DEG.

CORRECTED OIL GRAVITY = 17.2 A.P.I. @ 60 DEG.



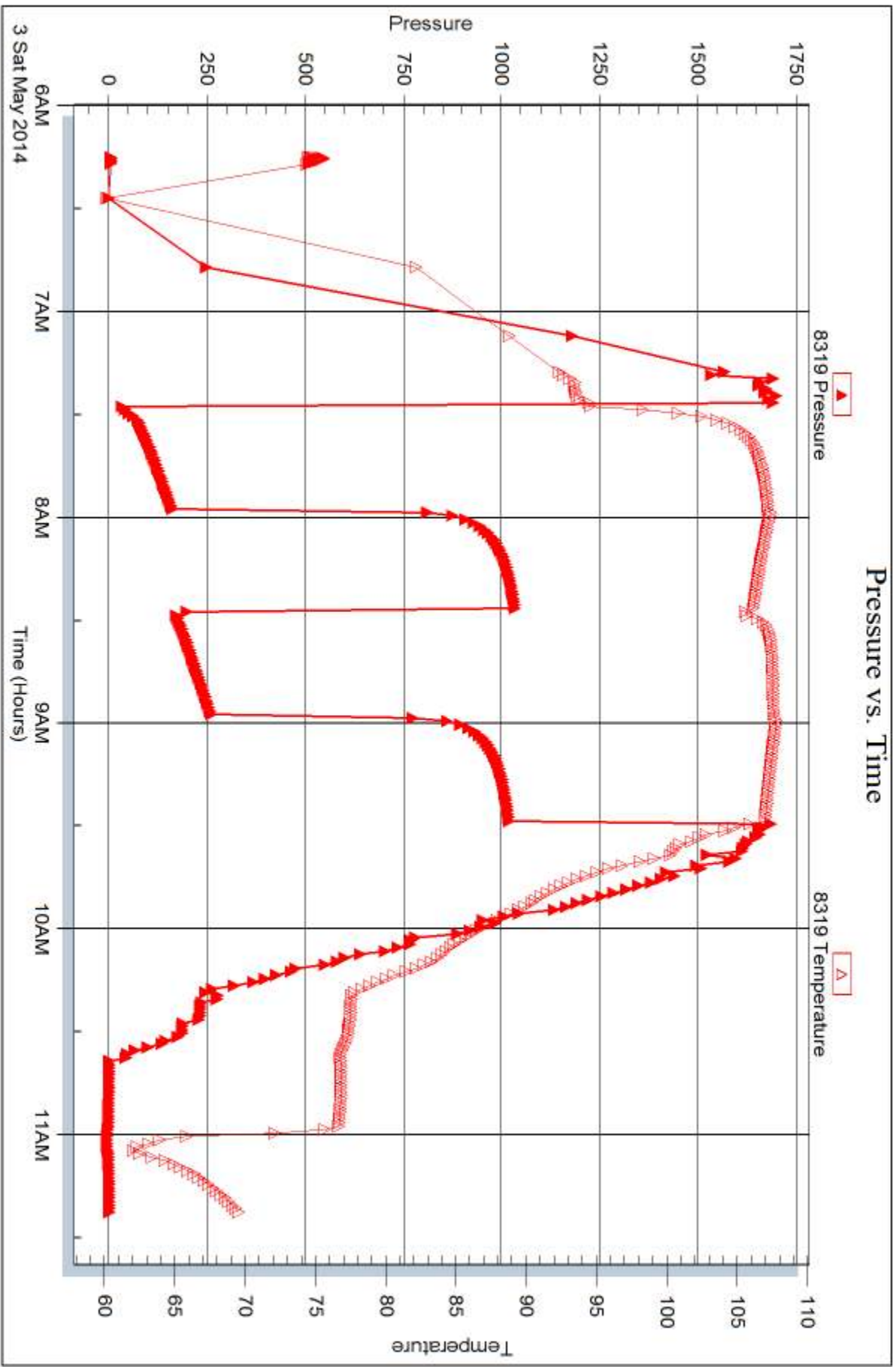
Serial #: 8319

Inside

John O Farmer

States B #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS. 67665

ATTN: Austin Klaus

States B #1

30-5s-20w.Phillips,KS

Start Date: 2014.05.03 @ 18:04:00

End Date: 2014.05.04 @ 00:39:00

Job Ticket #: 57619 DST #: 3

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

Printed: 2014.05.06 @ 09:29:17

John O Farmer
30-5s-20w.Phillips,KS
States B #1
DST # 3
LKC "G"
2014.05.03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57619

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 18:04:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:46:00

Time Test Ended: 00:39:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 3498.00 ft (KB) To 3525.00 ft (KB) (TVD)

Reference Elevations: 2238.00 ft (KB)

Total Depth: 3525.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Outside

Press@RunDepth: 89.16 psig @ 3499.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.03

End Date:

2014.05.04

Last Calib.:

2014.05.03

Start Time: 18:04:01

End Time:

00:39:00

Time On Btm:

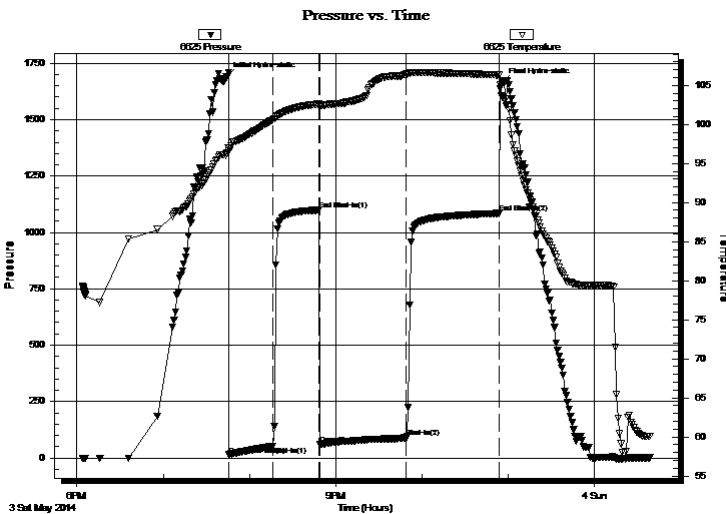
2014.05.03 @ 19:44:00

Time Off Btm:

2014.05.03 @ 22:56:00

TEST COMMENT: I.F. - 30 - Weak blow built to 3"
I.S.I. - 30 - No blow back
F.F. - 60 - Weak blow built to 4"
F.S.I - 60 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.55	96.22	Initial Hydro-static
2	13.18	96.61	Open To Flow (1)
33	51.78	100.63	Shut-In(1)
65	1099.28	102.62	End Shut-In(1)
65	59.66	102.48	Open To Flow (2)
125	89.16	106.44	Shut-In(2)
190	1084.60	106.32	End Shut-In(2)
192	1666.04	103.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	S,O,S,M,W 1% OIL 5% MUD 94% WTR.	1.17

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

ATTN: Austin Klaus

Job Ticket: 57619 **DST#: 3**

Test Start: 2014.05.03 @ 18:04:00

GENERAL INFORMATION:

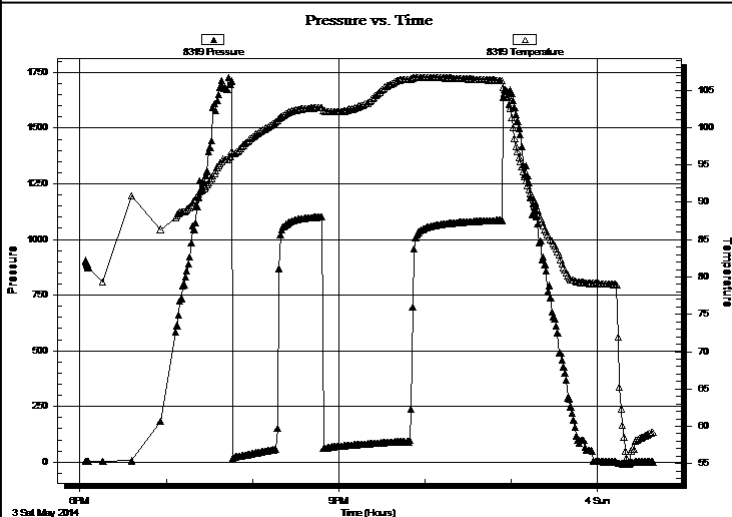
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:46:00
 Time Test Ended: 00:39:00
 Interval: **3498.00 ft (KB) To 3525.00 ft (KB) (TVD)**
 Total Depth: 3525.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 67
 Reference Elevations: 2238.00 ft (KB)
 2233.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: psig @ 3499.00 ft (KB)
 Start Date: 2014.05.03 End Date: 2014.05.04
 Start Time: 18:04:01 End Time: 00:39:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.05.04
 Time On Btm:
 Time Off Btm:

TEST COMMENT: I.F. - 30 - Weak blow built to 3"
 I.S.I. - 30 - No blow back
 F.F. - 60 - Weak blow built to 4"
 F.S.I - 60 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
165.00	S,O,S,M,W 1% OIL 5% MUD 94% WTR.	1.17

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57619

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 18:04:00

Tool Information

Drill Pipe:	Length: 3358.00 ft	Diameter: 3.80 inches	Volume: 47.10 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose:	38000.00 lb
			<u>Total Volume: 47.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3498.00 ft			Final	35000.00 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			3479.00	
Shut In Tool	5.00			3484.00	
Hydraulic tool	5.00			3489.00	
Packer	4.00			3493.00	20.00 Bottom Of Top Packer
Packer	5.00			3498.00	
Stubb	1.00			3499.00	
Recorder	0.00	6625	Outside	3499.00	
Recorder	0.00	8319	Inside	3499.00	
Perforations	22.00			3521.00	
Bullnose	4.00			3525.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57619

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.05.03 @ 18:04:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	S,O,S,M,W 1% OIL 5%MUD 94%WTR.	1.167

Total Length: 165.00 ft Total Volume: 1.167 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

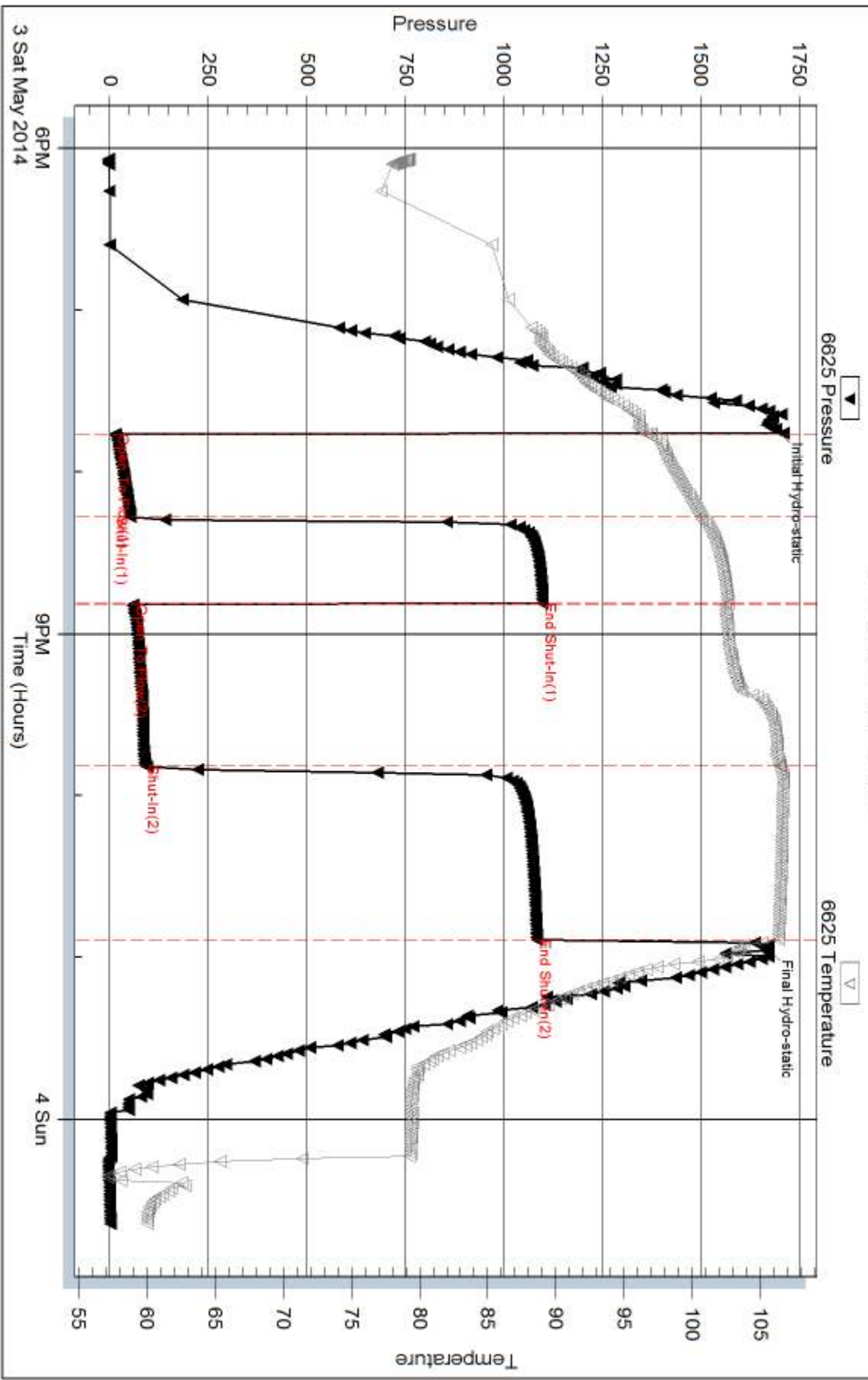
Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = .074 OHMS @ 60 DEG.

CHLORIDES = 150,000 P.P.M.

Pressure vs. Time



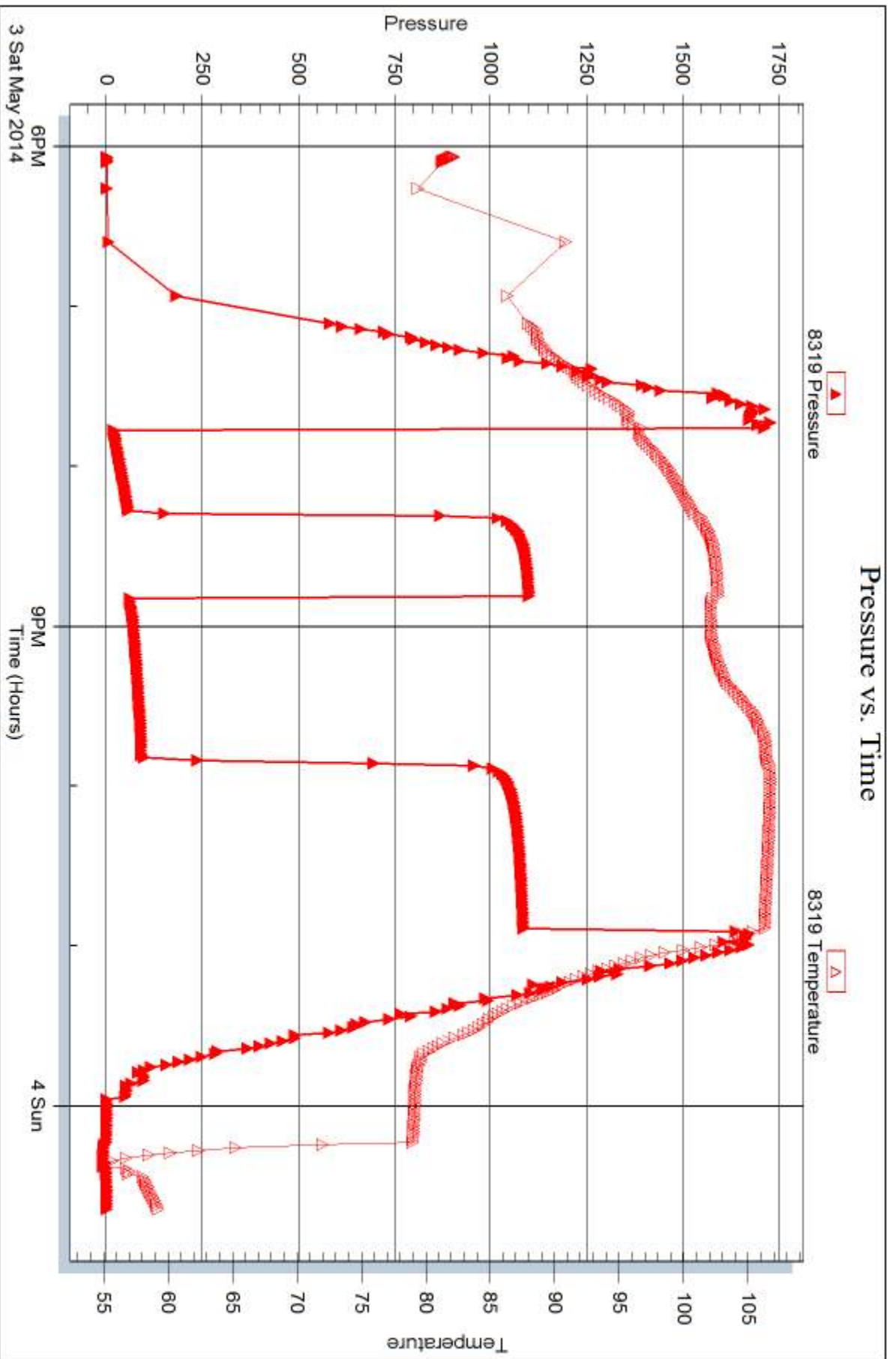
Serial #: 8319

Inside

John O Farmer

States B #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 57619

Printed: 2014.05.06 @ 09:29:18



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell, KS. 67665

ATTN: Austin Klaus

States B #1

30-5s-20w.Phillips,KS

Start Date: 2014.05.04 @ 12:35:00

End Date: 2014.05.04 @ 18:27:00

Job Ticket #: 57620 DST #: 4

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

Printed: 2014.05.06 @ 09:28:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57620

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.05.04 @ 12:35:00

GENERAL INFORMATION:

Formation: **Regan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:44:30

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 3600.00 ft (KB) To 3677.00 ft (KB) (TVD)

Reference Elevations: 2238.00 ft (KB)

Total Depth: 3677.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Outside

Press@RunDepth: 981.63 psig @ 3666.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.04

End Date:

2014.05.04

Last Calib.:

2014.05.04

Start Time: 12:35:01

End Time:

18:27:00

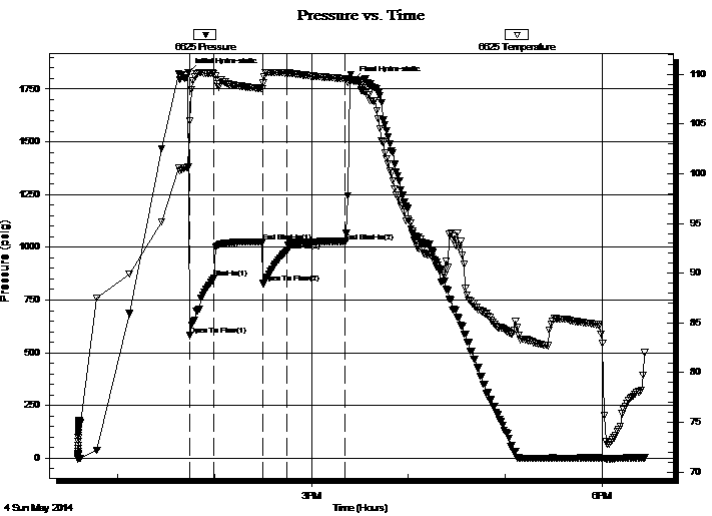
Time On Btm:

2014.05.04 @ 13:43:30

Time Off Btm:

2014.05.04 @ 15:25:30

TEST COMMENT: I.F. - 15 - BOB in 10 sec
I.S.I. - 30 - No blow back
F.F. - 15 - BOB in 30 sec
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.30	100.64	Initial Hydro-static
1	582.33	105.27	Open To Flow (1)
16	852.36	110.09	Shut-In(1)
46	1027.20	108.56	End Shut-In(1)
47	829.13	109.13	Open To Flow (2)
62	981.63	110.12	Shut-In(2)
98	1026.89	109.55	End Shut-In(2)
102	1789.13	109.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05
1376.00	S,M,C,W, 5%M 95%WTR	18.24
756.00	S,O,S,M,C,W, 1%O 15%M 84%WTR	10.60

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57620

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.05.04 @ 12:35:00

GENERAL INFORMATION:

Formation: **Regan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:44:30

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

Interval: 3600.00 ft (KB) To 3677.00 ft (KB) (TVD)

Total Depth: 3677.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2238.00 ft (KB)

2233.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press@RunDepth: psig @ 3666.00 ft (KB)

Start Date: 2014.05.04

End Date: 2014.05.04

Start Time: 12:35:01

End Time: 19:56:30

Capacity: 8000.00 psig

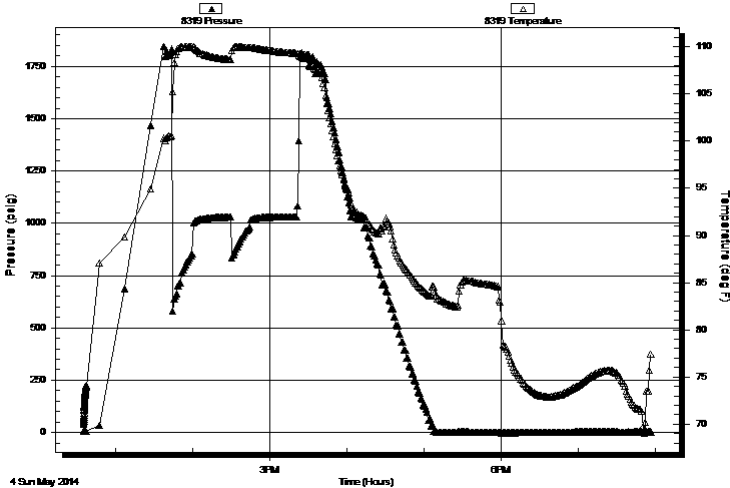
Last Calib.: 2014.05.04

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 15 - BOB in 10 sec
I.S.I. - 30 - No blow back
F.F. - 15 - BOB in 30 sec
F.S.I. - 30 - No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05
1376.00	S,M,C,W, 5%M 95%WTR	18.24
756.00	S,O,S,M,C,W, 1%O 15%M 84%WTR	10.60

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57620

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.05.04 @ 12:35:00

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 49.52 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3600.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	97.00 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			3581.00	
Shut In Tool	5.00			3586.00	
Hydraulic tool	5.00			3591.00	
Packer	4.00			3595.00	20.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Perforations	1.00			3602.00	
Change Over Sub	1.00			3603.00	
Drill Pipe	62.00			3665.00	
Change Over Sub	1.00			3666.00	
Recorder	0.00	6625	Outside	3666.00	
Recorder	0.00	8319	Inside	3666.00	
Perforations	7.00			3673.00	
Bullnose	4.00			3677.00	77.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

30-5s-20w.Phillips,KS

PO Box 352
Russell, KS. 67665

States B #1

Job Ticket: 57620

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.05.04 @ 12:35:00

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	MUD 100%	0.049
1376.00	S,M,C,W, 5%M 95%WTR.	18.245
756.00	S,O,S,M,C,W, 1%O 15%M 84%WTR	10.605

Total Length: 2142.00 ft Total Volume: 28.899 bbl

Num Fluid Samples: 0

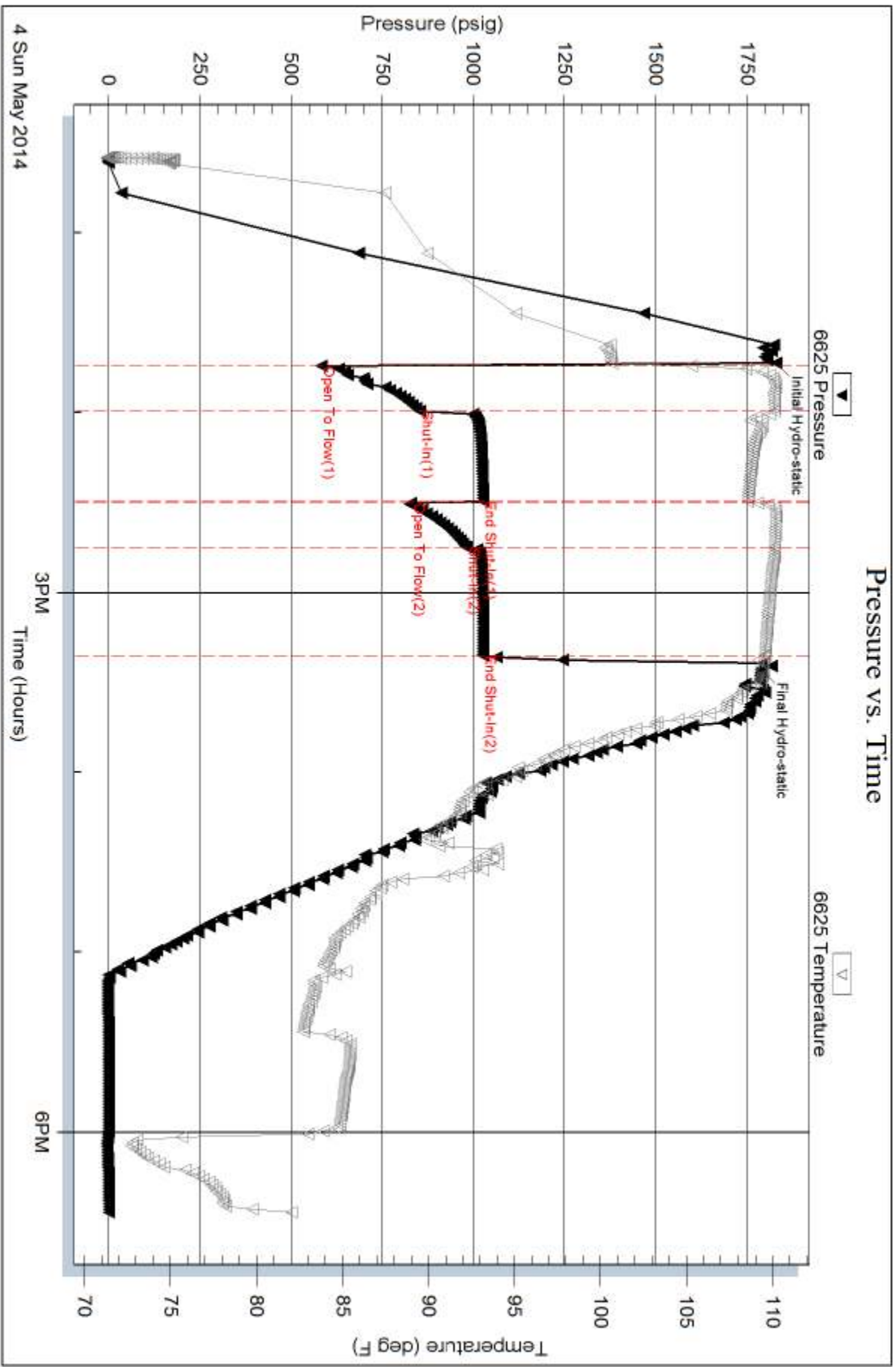
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: "R.W. = .21 OHMS @ 78.4 DEG."



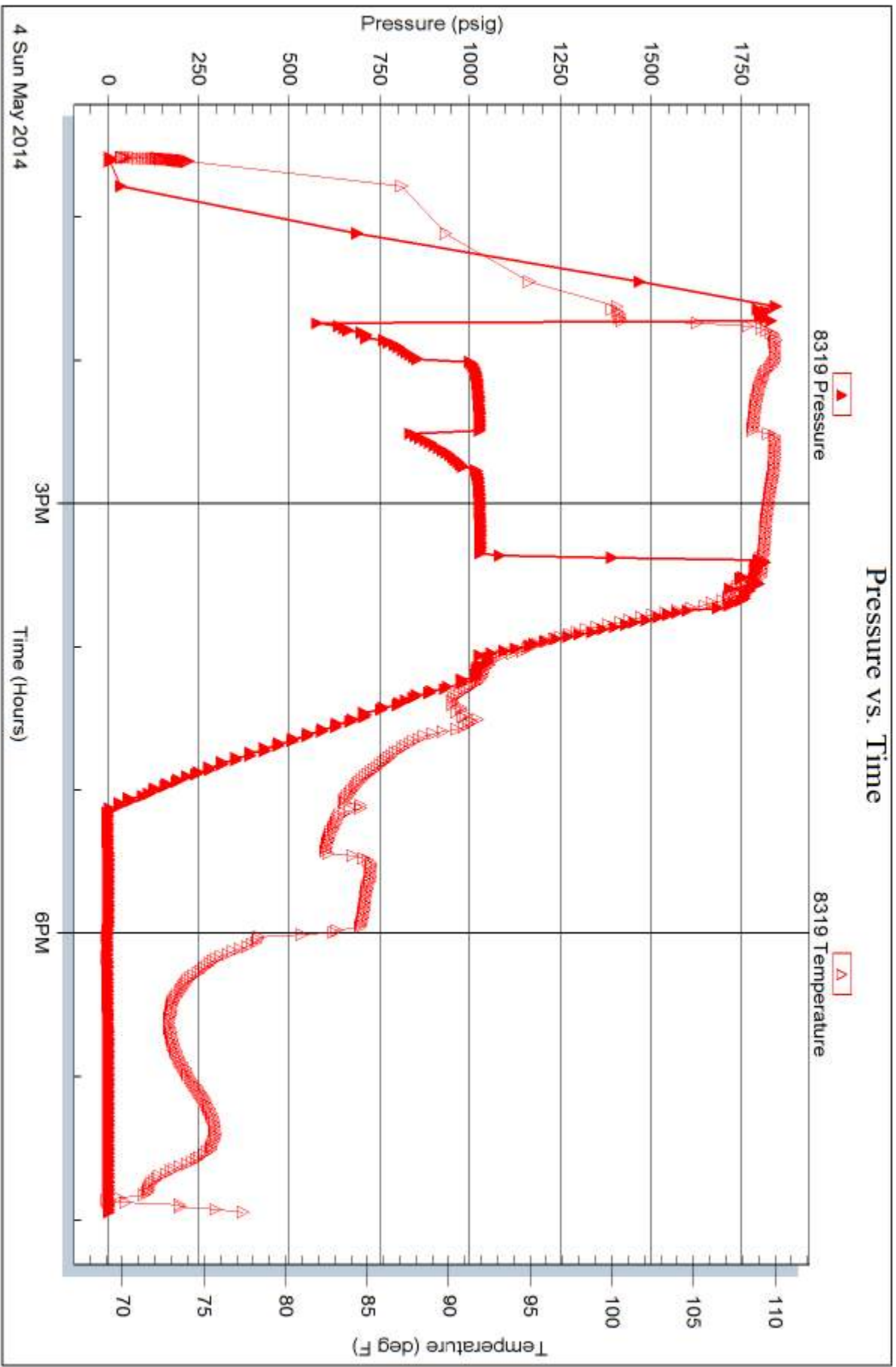
Serial #: 8319

Inside

John O Farmer

States B #1

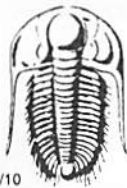
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57620

Printed: 2014.05.06 @ 09:28:26



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57617

Well Name & No. States B#1 Test No. 1 Date 5-2-14
 Company John v. farmer h.h.c Elevation 2238 KB 2233 GL
 Address 370 W. Wichita P.O. Box 352 Russell KS. 67665
 Co. Rep / Geo. Austin Klaus Rig WW. Rig #6
 Location: Sec. 30 Twp. S - S. Rge. 20 - W Co. Phillips State KS.

Interval Tested 3372 - 3440 Zone Tested h.k.c. 'A' + toronto
 Anchor Length 68 Drill Pipe Run 3259 Mud Wt. 9.0
 Top Packer Depth 3367 Drill Collars Run 126 Vis 68
 Bottom Packer Depth 3372 Wt. Pipe Run --- WL 7.2
 Total Depth 3440 Chlorides 500 ppm System LCM 1 1/2

Blow Description I.F-30 - 1/2 INT. Blow NO build
I.S.I-30 - No B.B.
E.F-30 - W.S.B. No Build
E.S.I-30 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud.</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

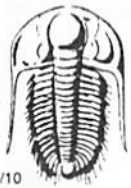
Rec Total 10' BHT 98 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1640 Test 1150 T-On Location 15:40:00
 (B) First Initial Flow 32 Jars --- T-Started 16:30:00
 (C) First Final Flow 36 Safety Joint --- T-Open 19:54:00
 (D) Initial Shut-In 633 Circ Sub --- T-Pulled 21:54:00
 (E) Second Initial Flow 37 Hourly Standby --- T-Out 23:39:00
 (F) Second Final Flow 42 Mileage 140 / R.T. Comments tool slid 7'
 (G) Final Shut-In 613 Sampler 130rt 201.50
 (H) Final Hydrostatic 1,633 Straddle --- "thank-you"
 Ruined Shale Packer ---
 Ruined Packer ---

Initial Open 30 Extra Packer --- Extra Copies ---
 Initial Shut-In 30 Extra Recorder --- Sub Total 0
 Final Flow 30 Day Standby --- Total 1351.50
 Final Shut-In 30 Accessibility --- MP/DST Disc't ---
 Sub Total 1351.50

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57618

Well Name & No. States B#1 Test No. 2 Date 5-3-14
 Company John O. Farmer L.L.C. Elevation 2238 KB 22383 GL
 Address 320 W. Wichita P.O. Box 352 Russell KS. 67665
 Co. Rep / Geo. Austin Klaus Rig W.W. Rig 6
 Location: Sec. 30 Twp. 5-s. Rge. 20-w. Co. Phillips State KS.

Interval Tested 3466-3486 Zone Tested h.k.c. 'D'
 Anchor Length 20' Drill Pipe Run 3332.0 Mud Wt. 9.0
 Top Packer Depth 3461 Drill Collars Run 126 Vis 68
 Bottom Packer Depth 3466 Wt. Pipe Run _____ WL 7.2
 Total Depth 3486 Chlorides 500 ppm System LCM 1/2

Blow Description I.F. - 30 - 1/2" INT. Blow Built to (B.O.B. in 8 min.)
I.S.I. - 30 - No B.B.
E.F. - 30 - 1/2" INT. Blow Built to (B.O.B. in 10 min.)
E.S.I. - 30 - No B.B.

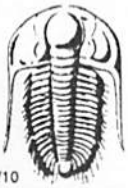
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Clean oil</u>	<u>100</u>			
<u>483</u>	<u>5.0' m, w</u>	<u>5</u>	<u>85</u>	<u>10</u>	
<u>50</u>	<u>5.0' C, m</u>	<u>5</u>		<u>95</u>	
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 536 BHT 104.9 Gravity 17.2 API RW .07 @ 71 °F Chlorides 126,000 ppm
 (A) Initial Hydrostatic 1,679 Test 1150 T-On Location 05:58:00
 (B) First Initial Flow 18 Jars _____ T-Started 06:15:00
 (C) First Final Flow 155 Safety Joint _____ T-Open 07:49:00
 (D) Initial Shut-In 1,034 Circ Sub _____ T-Pulled 09:49:00
 (E) Second Initial Flow 166 Hourly Standby _____ T-Out 11:45:00
 (F) Second Final Flow 258 Mileage 140/R+ 201.50 Comments _____
 (G) Final Shut-In 1,018 Sampler _____ "Thank you"
 (H) Final Hydrostatic 1,668 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1351.50
 Total 1351.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57619

Well Name & No. States B#1 Test No. 3 Date 5-3-14
 Company John o. farmer L. h. c. Elevation 2238 KB 2233 GL
 Address 370 W. Wichita P.O. Box 352 Russell KS, 67665
 Co. Rep / Geo. Austin Klaus Rig W.W. Rig #6
 Location: Sec. 30 Twp. S - S. Rge. 20 - W. Co. Phillips State KS.

Interval Tested 3498 - 3525 Zone Tested L.H.C. "G."
 Anchor Length 27' Drill Pipe Run 3358 Mud Wt. 9.1
 Top Packer Depth 3493 Drill Collars Run 126 Vis 55
 Bottom Packer Depth 3498 Wt. Pipe Run _____ WL 7.6
 Total Depth 3525 Chlorides 750 ppm System LCM 1

Blow Description I.F.-30-1/2" I.H.T. Blow Built to (3" in 30min.)
I.S.I.-30-NO B.B.
F.F.-60-W.S.B. Started @ 4min. Built to (4" in 60min.)
F.S.I.-60-NO B.B.

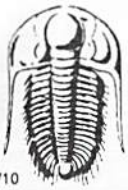
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>165</u>	Feet of <u>S, O, S, M, W</u>	%gas	<u>1</u> %oil	<u>94</u> %water	<u>5</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 165 BHT 103.5 Gravity _____ API RW, 074 @ 60 °F Chlorides 150,000 ppm
 (A) Initial Hydrostatic 1692 Test 1150 T-On Location 17:45:00
 (B) First Initial Flow 13 Jars _____ T-Started 18:04:00
 (C) First Final Flow 52 Safety Joint _____ T-Open 19:46:00
 (D) Initial Shut-In 1,099 Circ Sub _____ T-Pulled 22:46:00
 (E) Second Initial Flow 60 Hourly Standby _____ T-Out 00:38:00
 (F) Second Final Flow 89 Mileage 140 R.T. 201.50 Comments _____
 (G) Final Shut-In 1,085 Sampler _____ "Thank-you"
 (H) Final Hydrostatic 1,666 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1351.50
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1351.50

Approved By _____ Our Representative Bob Thomas

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. 57620

Well Name & No. States B^{#1} Test No. 4 Date 5-4-14
 Company John O. Farmer Elevation 2238 KB 2233 GL
 Address 320 W. Wichita P.O. Box 352 Russell KS. 67665
 Co. Rep / Geo. Austin Klaus Rig W.W. Rig #6
 Location: Sec. 30 Twp. S - S. Rge. 20 - W. Co. Phillips State KS.

Interval Tested 3608 - 3877 Zone Tested Regan Sand
 Anchor Length 77 Drill Pipe Run 3486 Mud Wt. 9.4
 Top Packer Depth 3595 Drill Collars Run 126 Vis 54
 Bottom Packer Depth 3600 Wt. Pipe Run 750 WL 8
 Total Depth 3677 Chlorides 750 ppm System LCM 1/2

Blow Description I.F. - 15 - B.O.B. INSTANT.
I.S.I - 30 - NO B.B.
F.F. - 15 - B.O.B. in 30 Sec.
F.S.I - 30 - NO B.B.

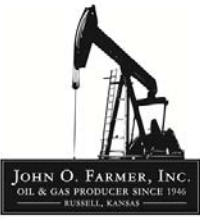
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>756</u>	Feet of <u>5.05 M, C, W (sum of oil)</u>	%gas	<u>1</u> %oil	<u>84</u> %water	<u>15</u> %mud
Rec <u>1376</u>	Feet of <u>5, M, C, W</u>	%gas	%oil	<u>95</u> %water	<u>5</u> %mud
Rec <u>10</u>	Feet of <u>Mud</u>	%gas	%oil	%water	<u>10</u> %mud

Rec Total 2,142 BHT 109 Gravity - API RW 21 @ 78.4° F Chlorides 30,000 ppm
 Test 1150 T-On Location 12:07:00
 Jars T-Started 12:35:00
 Safety Joint T-Open 13:50:00
 Circ Sub T-Pulled 15:20:00
 Hourly Standby T-Out 18:33:00
 Mileage 140/R.T. 201.50 Comments "Thank-you"
 Sampler
 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1351.50
 Accessibility MP/DST Disc't

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 1351.50

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.



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: States B #1
Location: Phillips County
License Number: API #15-147-20,737-0000
Spud Date: 4/29/14
Surface Coordinates: Section 30 - Township 5 South - Range 20 West
2,085' FNL & 475' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,233' **K.B. Elevation (ft):** 2,238'
Logged Interval (ft): 3,150' **To:** 3,740' **Total Depth (ft):** 3,740'
Formation: Lansing, Reagan
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 5/4/14

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

GEOLOGIST

Name:
Company:
Address:

Cores

DSTs

Comments


























































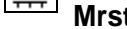













The States B #1 well was drilled by WW Drilling Rig #6 (Tool Pusher: Mark Bigge).

The location for the States B #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 3,100'-3,740'. Three bottom-hole tests were conducted in the Lansing, all of which yielded negative results. A final bottom-hole test was conducted over the top 8' of the Reagan Sand, which resulted in water. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the States B #1 well on 5/5/14.
























ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
---	---	---	---	---

ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau	 Gyp  Hvymin  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff	FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite	 Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst	 Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackst
---	---	---	--	---

OTHER SYMBOLS

POROSITY  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy SORTING  Well  Moderate  Poor	ROUNDING  Rounded  Subrnd  Subang  Angular OIL SHOW  Even	 Spotted  Ques  Dead INTERVAL  Core  Dst	EVENT  Rft  Sidewall
---	---	--	---	---

Curve Track 1

ROP (min/ft) ———
 Gas (units) - - - - -
 Gamma (API) ———

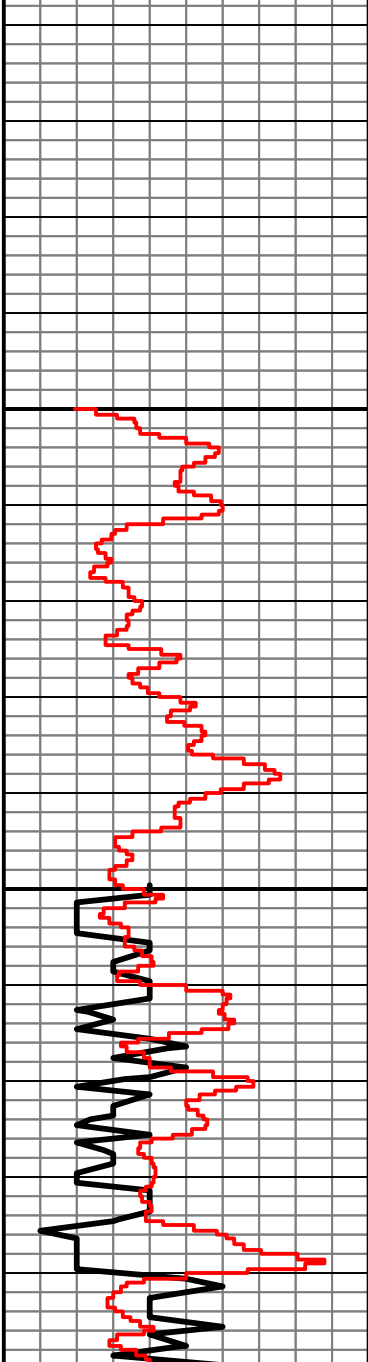
Depth

Lithology

Geological Descriptions

Drill Stem Tests

ROP (min/ft) 5
 Gas (units) 500
 Gamma (API) 150



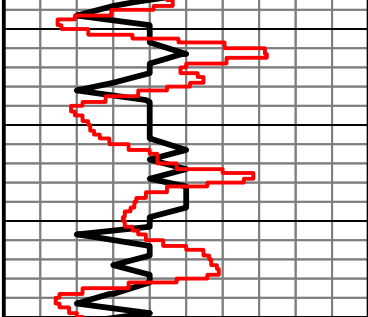
30

3100

3150

3200

ROP (min/ft) 5
 Gas (units) 500
 Gamma (API) 150



The open-hole logging was performed by Mr. Gus Pfannenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity.

Formation tops and datums from the open-hole logs include the following:

Anhydrite	1815	423
Topeka	3190	-952
Heebner	3384	-1146
Toronto	3409	-1171
Lansing	3427	-1189
B/KC	3614	-1376
Arbuckle	3661	-1423
Reagan	3669	-1431
Granite		
TD	3740	-1502

Tester: Bob Hamel
 Mud Engineer: Brandon Mendez

Sh: lt gry-drk gry

Ls: tan-lt gry, fn-sub xln, DNS

Sh: drk gry-brn, soft

Topeka 3192' (-954)

Ls: tan-lt gry, fn xln, scat pp vuggy porosity, NSFO, scat sh: drk gry, soft

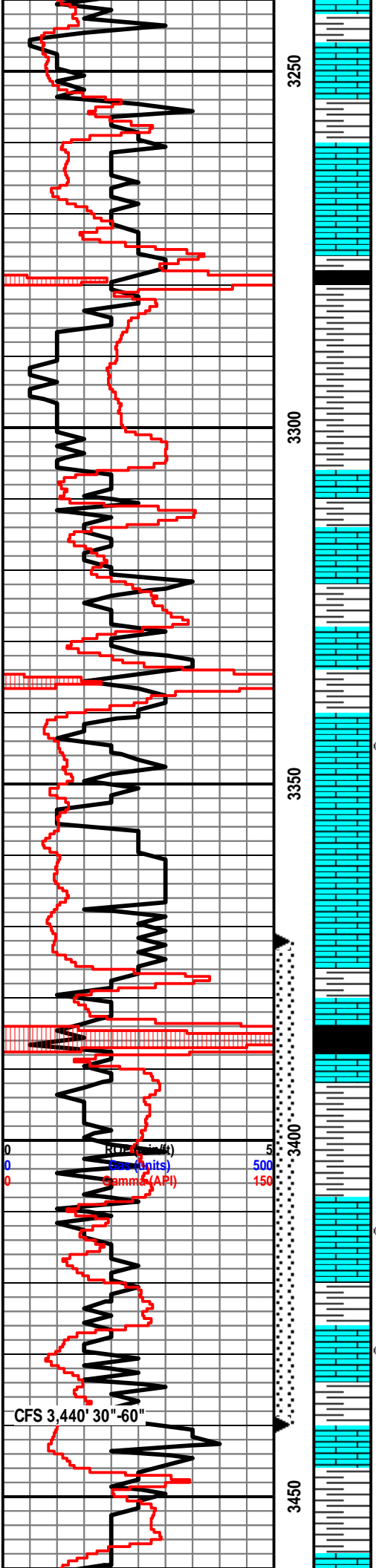
Sh: drk gry

Ls: lt-drk gry, fn xln, scat pp vuggy porosity, NSFO, fossil

Ls: lt gry-tan, fn xln, scat int xln porosity, vry lt oil st, NSFO, no odor, scat fossil

Sh: drk gry-blk

Ls: tan-buff, fn xln, trace pp vuggy porosity, NSFO, fossil



NSFO, fossil

Sh: drk gry

Ls: off wh-crm, fn xln, no visible porosity, hvy chalk

Ls: off wh-tan, fn-sub xln, vry DNS, no visible porosity, hvy chert-off wh

Ls: ala

Sh: drk gry-blk

Sh: lt gry, vry soft

Sh: drk gry-brn, vry soft

Ls: off wh-tan, fn xln, fossil, scat int fossil porosity, scat chalk, NSFO, no odor

Sh: drk brn-gry, soft

Ls: tan-lt gry, fn-sub xln, mostly DNS, NSFO, no visible porosity, scat chert-off wh

Ls: off wh-tan, fn xln, poor vuggy porosity, lt oil st in porosity, SSFO, vry lt odor, scat chert-off wh

Ls: off wh-tan, fn xln, mostly DNS, NSFO, scat fossil, chert-off wh

Ls: ala

Heebner 3383' (-1145)

Sh: blk, carb, fissile

Ls: lt gry, fn-sub xln, vry DNS, no visible porosity, chert-off wh

Sh: drk gry-brn, soft

Toronto 3410' (-1172)

Ls: off wh-tan, fn xln, poor pp vuggy porosity, fair oil sat, SSFO, sl odor, hvy chert-off wh

Sh: drk gry-brn

Lansing 3429' (-1191)

Ls: off wh-tan, fn xln, vry poor int xln porosity, scat oil st, VSSFO, sl odor, chert-off wh

Sh: drk gry-brn-grn

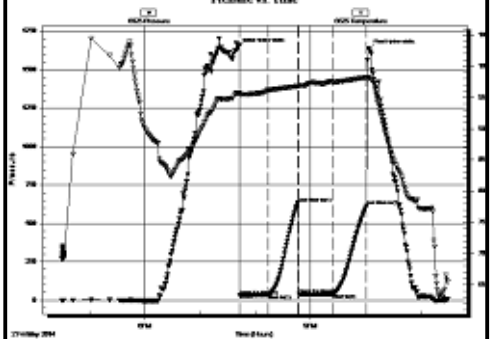
Ls: off wh-tan, fn xln, mostly DNS, no visible porosity, hvy chalk, scat chert-off wh

Sh: drk gry-brn-grn, scat soft

Ls: off wh, fn xln, scat int xln porosity, NSFO, no

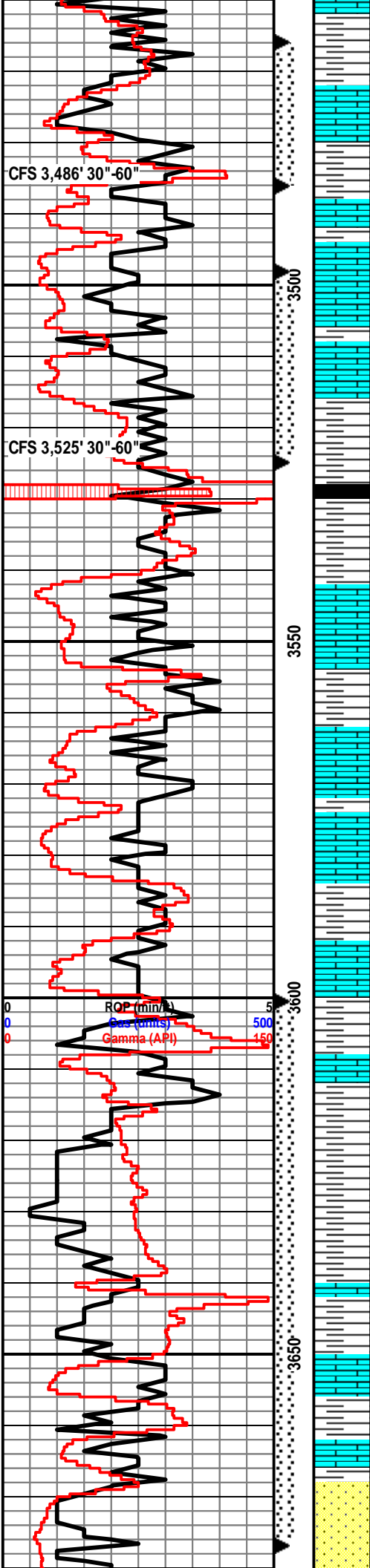
DST #1 3,372'-3,440' (Toronto-LKC A)
30"-30"-30"-30"

IF: weak blow built to 1/2"
FF: weak surface blow
Rec: 10' M
FP: 32-36, 37-42#
SIP: 633-613
HP: 1,640-1,633#
BHT: 98



DST #2 3,466'-3,486' (LKC D)
30"-30"-30"-30"

IF: BOB in 8 minutes, no blow back
FF: BOB in 10 minutes, no blow back
Rec: 3' CO, 50' OCM (5% O, 95% M), 483' OCMW (5% O, 10% M, 85% W)
FP: 18-155, 166-258#
SIP: 1,034-1,018#
HP: 1,679-1,668#
BHT: 105



odor, hvy chalk, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, poor int xln and vuggy porosity, fair-good oil sat, SSFO, sl odor, hvy chert-off wh, chalky

CFS 3,486' 30"-60"

Sh: drk gry-brn-grn

Ls: off wh, fn xln, poor int xln porosity, sl oil st, NSFO, sl odor, scat chert-wh-off wh, chalky

3500

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil st, SSFO, sl odor, chalky, hvy chert-off wh

Sh: drk gry

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO, hvy chert-off wh

CFS 3,525' 30"-60"

Sh: drk gry

Sh: drk gry-grn, vry soft

Ls: off wh-tan, fn xln, scat int xln porosity, scat oil st, NSFO, no odor, chalky

3550

Sh: drk gry-grn, soft

Ls: off wh-tan, fn xln, scat int xln porosity, NSFO, no odor, chalky

Ls: off wh-brn, fn xln, poor int xln porosity, fair oil sat, SSFO, sl odor, chalky, scat chert-off wh

Sh: drk gry

Ls: off wh, fn xln, poor int xln porosity, sl-fair oil st, SSFO, sl odor, fossil, scat chalky

ROP (min) 5
 Gas (ml/g) 500
 Gamma (API) 450

3600

Sh: drk gry-blk

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO, no odor, chalky

B/KC 3620' (-1380)

Sh: drk gry-brn-grn

Sh: lt-drk gry, vry soft

Ls: tan-lt gry, fn xln, mostly DNS, chert-off wh, hvy chalk

3650

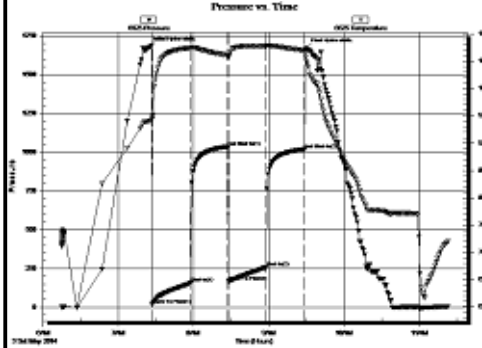
Sh: drk gry-brn-grn

Sh: drk gry-brn-grn

Reagan 3668' (-1430)

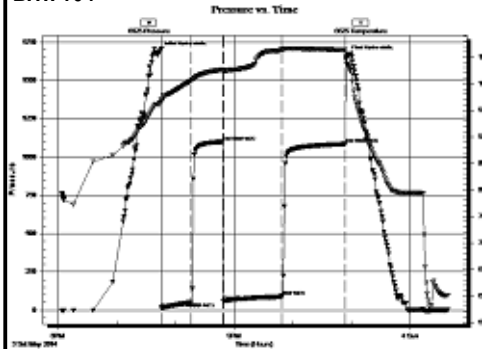
Ss: qtz, off wh-lt gry, fn-md grn, sub rnd, fair-poorly sorted, fair int grn porosity, SSFO, sl-fair odor, dull yel fluor

Ss: qtz, off wh-lt gry, fn-md grn, fairly well and



DST #3 3,498'-3,525' (LKC G)
 30"-30"-60"-60"

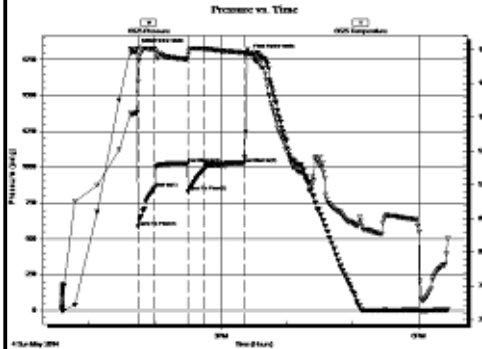
IF: weak blow built to 3"
 FF: weak blow built to 4"
 Rec: 165' SOCMW (1% O, 5% M, 94% W)
 FP: 13-52, 60-89#
 SIP: 1,099-1,085#
 HP: 1,692-1,666#
 BHT: 104

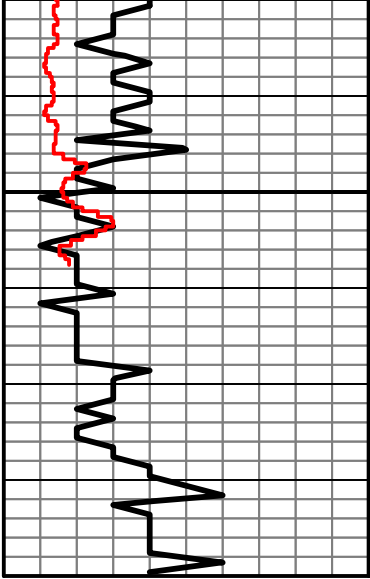


Wt: 9.1
 Vis: 55

DST #4 3,600'-3,677' (Reagan Sand)
 15"-30"-15"-30"

IF: BOB in 10 seconds, no blow back
 FF: BOB in 30 seconds, no blow back
 Rec: 756' SOCMW (1% O, 15% M, 84% W), 1,376'
 MW (5% M, 95% W), 10' M
 FP: 582-852, 829-982#
 SIP: 1,027-1,027#
 HP: 1,829-1,789#
 BHT: 109





3700



● Ss: qtz, off wh-lt gry, m-fnd grn, fairly well rnd, fair-poorly sorted, poor int grn porosity, GSFO, good odor, good yel fluor

○ Ss: qtz, off wh-lt gry, fn grn, well rnd, well sorted, poor int grn porosity, SSFO, sl odor, dull yel fluor

Sh: drk gry-brn-grn

Sh: drk gry-brn-grn, scat pyrite, chalky

Sh: ala, vry soft, chalky, scat qtz: off wh-clr, DNS

Granite 3728' (-1490)

Qtz: off wh-pink, vry DNS

Wt: 9.4
Vis: 54