

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

11/29/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5135
Name: John O. Farmer, Inc.
Address: P.O. Box 352
City/State/Zip: Russell, KS 67665
Purchaser: _____
Operator Contact Person: Marge Schulte
Phone: (785) 483-3145, Ext. 214
Contractor: Name: Discovery Drilling Company, Inc.
License: 31548
Wellsite Geologist: Steven P. Murphy

KCC
NOV 29 2010
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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

9-25-10 10-1-10
 Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 147-20.633-00-00
County: Phillips
NW NW SE NW Sec. 21 Twp. 4 S. R. 20 East West
1570 feet from S / (circle one) Line of Section
1390 feet from E / (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Schooler "A" Well #: 1
Field Name: (wildcat)

Producing Formation: _____
Elevation: Ground: 2056' Kelly Bushing: 2064'
Total Depth: 3581' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 220.59 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 PANJ 12310
(Data must be collected from the Reserve Pit)
Chloride content 16,000 ppm Fluid volume 240 bbls
Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: John O. Farmer III
Title: President Date: 11-29-10
Subscribed and sworn to before me this 29th day of November,
2010.
Notary Public: Margaret A. Schulte
Date Commission Expires: _____

KCC Office Use ONLY

Letter of Confidentiality Received 11/29/10 - 11/29/12
If Denied, Yes Date: RECEIVED
 Wireline Log Received
 Geologist Report Received NOV 30 2010
 UIC Distribution

KCC WICHITA

1-27-13

Operator Name: John C. Farmer, Inc. Lease Name: Schooler "A" Well #: 1
 Sec. 21 Twp. 4 S. R. 20 East West County: Phillips

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1647'	(+417)
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3003'	(-939)
List All E. Logs Run:		Heebner	3217'	(-1153)
		Toronto	3244'	(-1180)
		Lansing	3262'	(-1198)
		Base/KC	3469'	(-1405)
		Arbuckle	3542'	(-1478)
		L.T.D.	3581'	(-1517)

Borehole Compensated Sonic Log, Dual Induction Log, Compensated Density Neutron Log, Micro Resistivity Log

CASING RECORD <input checked="" 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
Surface	12-1/4"	8-5/8"	23#	220.59'	Common	150	3% C.C., 2% gel

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				

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, Resumerd Production, SWD or Enhr.			Producing Method			
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

KCC
NOV 29 2010
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DRILLER'S LOG

Operator: John O. Farmer, Inc. LIC # 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
P.O. Box 352 PO Box 763
Russell, KS 67665 Hays, KS 67601

Lease: Schooler "A" # 1 Location: NW/NW/SE/NW
Sec. 21/4S/20W
Phillips Co., KS

Loggers Total Depth: 3581' API#15- 147-20,633-00-00
Rotary Total Depth: 3581' Elevation: 2056 GL / 2064 KB
Commenced: 9/25/2010 Completed: 10/2/2010
Casing: 8 5/8" @ 220.59'W/150sks Status: D & A

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1676'</u>
Dakota Sand	<u>955'</u>	Shale & Lime	<u>2040'</u>
Shale	<u>1039'</u>	Shale	<u>2457'</u>
Cedar Hill Sand	<u>1184'</u>	Shale & Lime	<u>2875'</u>
Red Bed Shale	<u>1374'</u>	Lime & Shale	<u>3097'</u>
Anhydrite	<u>1649'</u>	RTD	<u>3581'</u>
Base Anhydrite	<u>1676'</u>		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well

Thomas H. Alm

Subscribed and sworn to before me on 10-4-10

My Commission expires: 6-28-14

(Place stamp or seal below)

Myrna S. Hoffman
Notary Public



RECEIVED
NOV 30 2010
KCC WICHITA

QUALITY OILWELL CEMENTING, INC.

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

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

No. 4318

Date	9.25.10	Sec.	21	Twp.	4	Range	20	County	Phillips	State	KS	On Location		Finish	5:45 p.m.
Lease	Scheeler	Well No.	A-1		Location		Cogen 1W 2N 18E S1T0								
Contractor	Discover				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		NOV 29 2010								
Hole Size	12 1/4				T.D.		221								
Csg.	8 5/8 230				Depth		220								
Tbg. Size					Depth		Street								
Tool					Depth		City								
Cement Left in Csg.	15				Shoe Joint		State								
Meas Line					Displace		13 RCL								
Cement Amount Ordered							150 4m 3 1/2 6L 2 1/2 6L								

EQUIPMENT

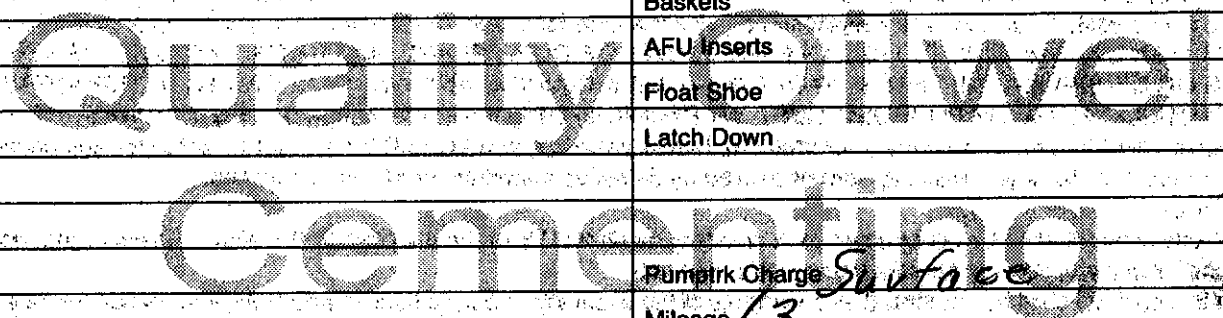
Pumptrk	5	No.	Cement	130	Common	150
Bulktrk		No.	Helper		Poz. Mix	
Bulktrk	8	No.	Driver	3	Gel.	3
			Driver	5	Calcium	5

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Ko-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar:		CFL-117 or CD110 CAF 38	
8 5/8 on bottom for circulation		Sand	
Mix 1.50% & 1.50%		Handling 150	
Cement Circulation		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	Surface	Tax	
Mileage	63	Discount	
Signature	[Signature]	Total Charge	

RECEIVED

NOV 31 2010

KCC WICHITA

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Call 785-324-1041

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

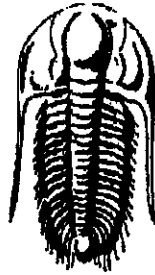
No. 4801

Date	10-24-10	Sec.	21	Twp.	4	Range	20	County	Phillips	State	Ks	On Location	6:15 PM
Lease	Schooler A	Well No.	#1	Location: Logan, Ks - 1W, 2N, 4E, 3/8									
Contractor	Discovery Drilling Rig #1							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	plug							Charge To: J. D. Farms NOV 29 2010					
Hole Size	7 7/8"		T.D.		3581'		Street: CONFIDENTIAL						
Csg.	4 1/2"		Depth		3525'		City: State:						
Tbg. Size	4 1/2"		Depth		3525'		The above was done to satisfaction and supervision of owner agent or contractor.						
Tool	2 1/2"		Depth		3525'		Cement Amount Ordered: 245-5X 60240 4 1/2" bet 2 1/2" S						
Cement Left in Csg.			Shoe Joint				Cement						
Meas Line			Displace		1126/mud		Common/47						
EQUIPMENT													
Pumptrk	5	No.	Cement Helper				Pbz. Mix 98						
Bulktrk	12	No.	Driver		Coy		Gel. 8						
Bulktrk	12	No.	Driver		Riel		Calcium						
JOB SERVICES & REMARKS													
Remarks:	Hulls												
Rat Hole	30 SX		Salt										
Mouse Hole	15 SX		Flowseal 60#										
Centralizers	Koi-Seal												
Baskets	Mud CLR 48												
D/V or Port Collar	CFL-117 or CD110 CAF 38												
	3525' - 25 SX		Sand										
	1660' - 25 SX		Handling 253										
	985' - 100 SX		Mileage										
	270' - 40 SX		FLOAT EQUIPMENT										
	40' - 10.5X		Guide Shoe										
	Rathole - 30 SX		Centralizer										
	Mousehole - 15 SX		Baskets										
	AFU Inserts												
	Float Shoe												
	Latch Down												
	1 - Dry hole plug												
	Cement dry circulate												
	Pumptrk Charge plug												
	Mileage 63												
	Tax												
	Discount												
	Total Charge												
X Signature	Coy												

RECEIVED

NOV 30 2010

KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.28 @ 13:10:00

End Date: 2010.09.28 @ 14:52:00

Job Ticket #: 48345 DST #: 1

**KCC
NOV 29 2010
CONFIDENTIAL**

**RECEIVED
NOV 30 2010
KCC WICHITA**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

John O Farmer Inc.

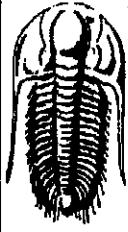
Schooler A #1

21-4-20 Phillips,KS

DST # 1

Toronto

2010.09.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc.

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

Schooler A #1

21-4-20 Phillips,KS

Job Ticket: 48345 DST#: 1

Test Start: 2010.09.28 @ 13:10:00

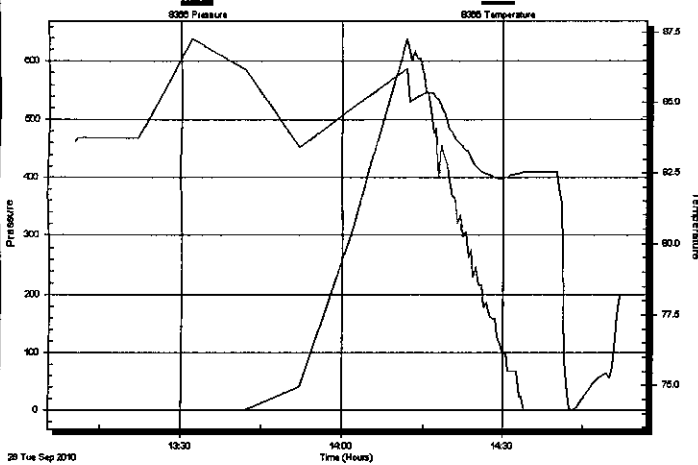
GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 14:52:00
Interval: 3233.00 ft (KB) To 3250.00 ft (KB) (TVD)
Total Depth: 3250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2064.00 ft (KB)
2056.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46

Serial #: 8366 Inside
Press@RunDepth: psig @ 3234.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2010.09.28 End Date: 2010.09.28 Last Calib.: 2010.09.28
Start Time: 13:10:05 End Time: 14:52:00 Time On Btm:
Time Off Btm:

TEST COMMENT: Hit Bridge 24 stands on way in w/tool
Couldn't work through it
Pulled tool so rig could go in w/bit to recondition hole
Mis-run

Pressure vs. Time



PRESSURE SUMMARY

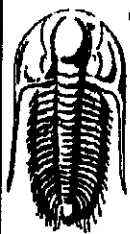
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Russell, KS 67665

Job Ticket: 48345

DST#: 1

ATTN: Steve Murphy

Test Start: 2010.09.28 @ 13:10:00

Tool Information

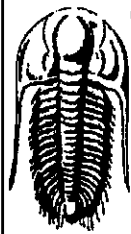
Drill Pipe:	Length: 3204.00 ft	Diameter: 3.80 inches	Volume: 44.94 bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 45.09 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3233.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3210.00	
Hydraulic tool	5.00			3215.00	
Jars	5.00			3220.00	
Safety Joint	3.00			3223.00	
Packer	5.00			3228.00	28.00 Bottom Of Top Packer
Packer	5.00			3233.00	
Packer - Shale	0.00			3233.00	
Stubb	1.00			3234.00	
Recorder	0.00	8366	Inside	3234.00	
Recorder	0.00	8320	Inside	3234.00	
Perforations	13.00			3247.00	
Bullnose	3.00			3250.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 48345 DST#: 1
Test Start: 2010.09.28 @ 13:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 8.71 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

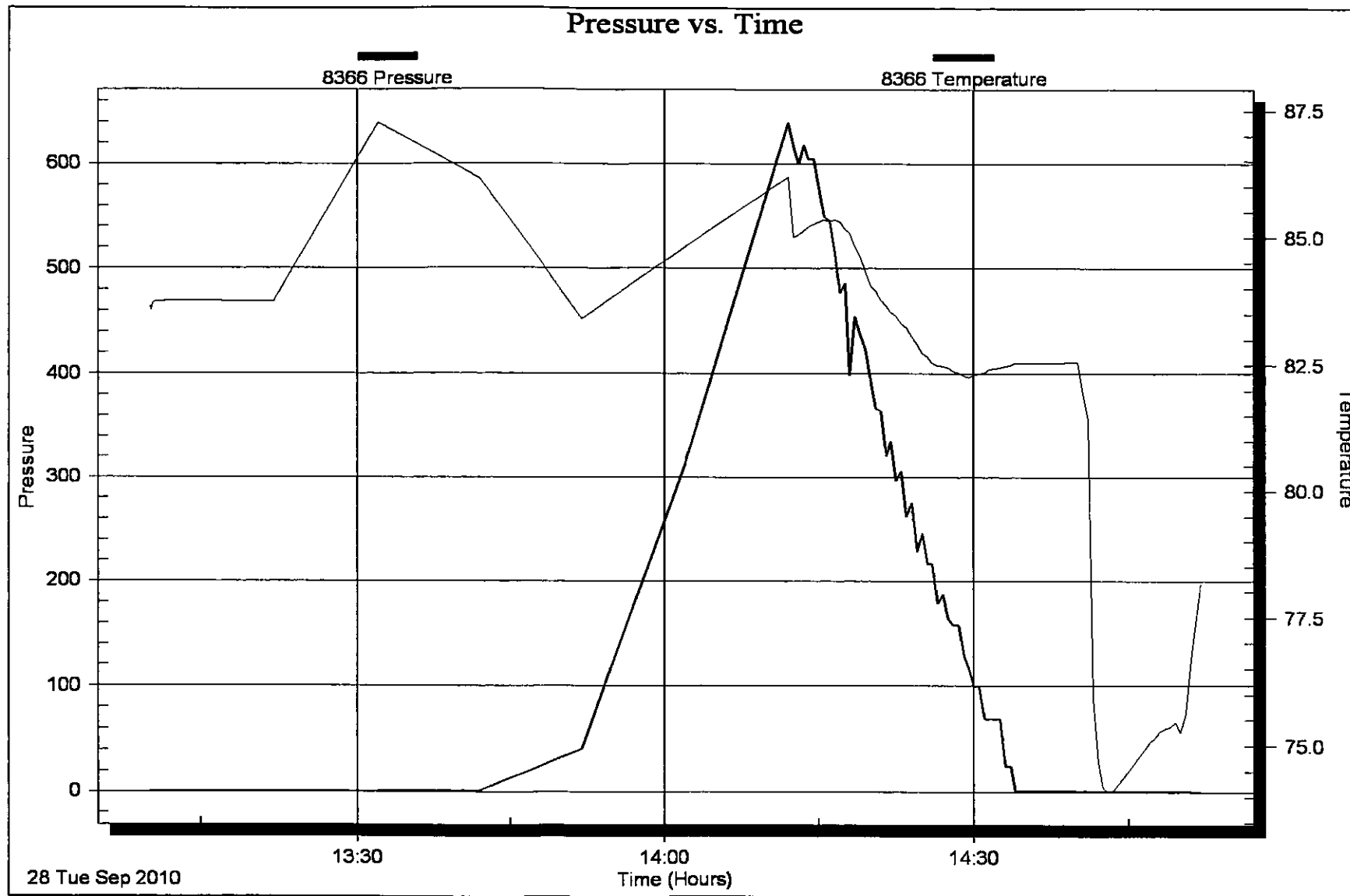
Oil API: deg API
Water Salinity: ppm

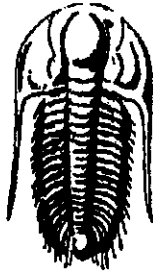
Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.28 @ 19:26:00

End Date: 2010.09.28 @ 23:37:30

Job Ticket #: 38436 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer Inc.

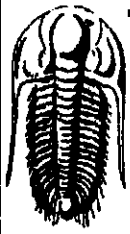
Schooler A #1

21-4-20 Phillips,KS

DST # 2

Toronto

2010.09.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS

Job Ticket: 38436

DST#: 2

Test Start: 2010.09.28 @ 19:26:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:13:00

Time Test Ended: 23:37:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3233.00 ft (KB) To 3250.00 ft (KB) (TVD)

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2064.00 ft (KB)

2056.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8366

Inside

Press@RunDepth: psig @ 3234.00 ft (KB)

Start Date: 2010.09.28

End Date:

2010.09.28

Start Time: 19:26:05

End Time:

23:37:30

Capacity: 8000.00 psig

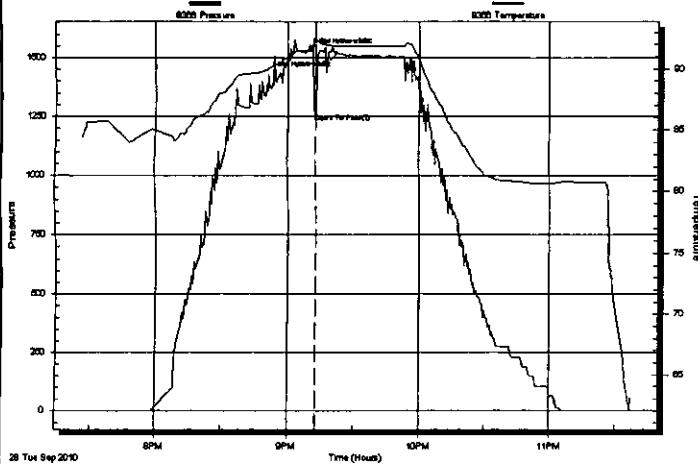
Last Calib.: 2010.09.28

Time On Btm: 2010.09.28 @ 21:08:30

Time Off Btm: 2010.09.28 @ 21:22:30

TEST COMMENT: Packer Failure
Tried to set 3 times
Pulled tool

Pressure vs. Time



PRESSURE SUMMARY

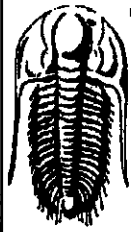
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1522.80	91.53	Initial Hydro-static
5	1227.46	92.21	Open To Flow (1)
14	1520.71	91.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
610.00	Mud 100%	8.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS

Job Ticket: 38436

DST#: 2

Test Start: 2010.09.28 @ 19:26:00

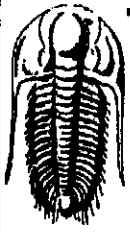
Tool Information

Drill Pipe:	Length: 3204.00 ft	Diameter: 3.80 inches	Volume: 44.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 45.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3233.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3210.00	
Hydraulic tool	5.00			3215.00	
Jars	5.00			3220.00	
Safety Joint	3.00			3223.00	
Packer	5.00			3228.00	28.00 Bottom Of Top Packer
Packer	5.00			3233.00	
Packer - Shale	0.00			3233.00	
Stubb	1.00			3234.00	
Recorder	0.00	8366	Inside	3234.00	
Recorder	0.00	8320	Inside	3234.00	
Perforations	13.00			3247.00	
Bullnose	3.00			3250.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38436 DST#: 2
Test Start: 2010.09.28 @ 19:26:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.70 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

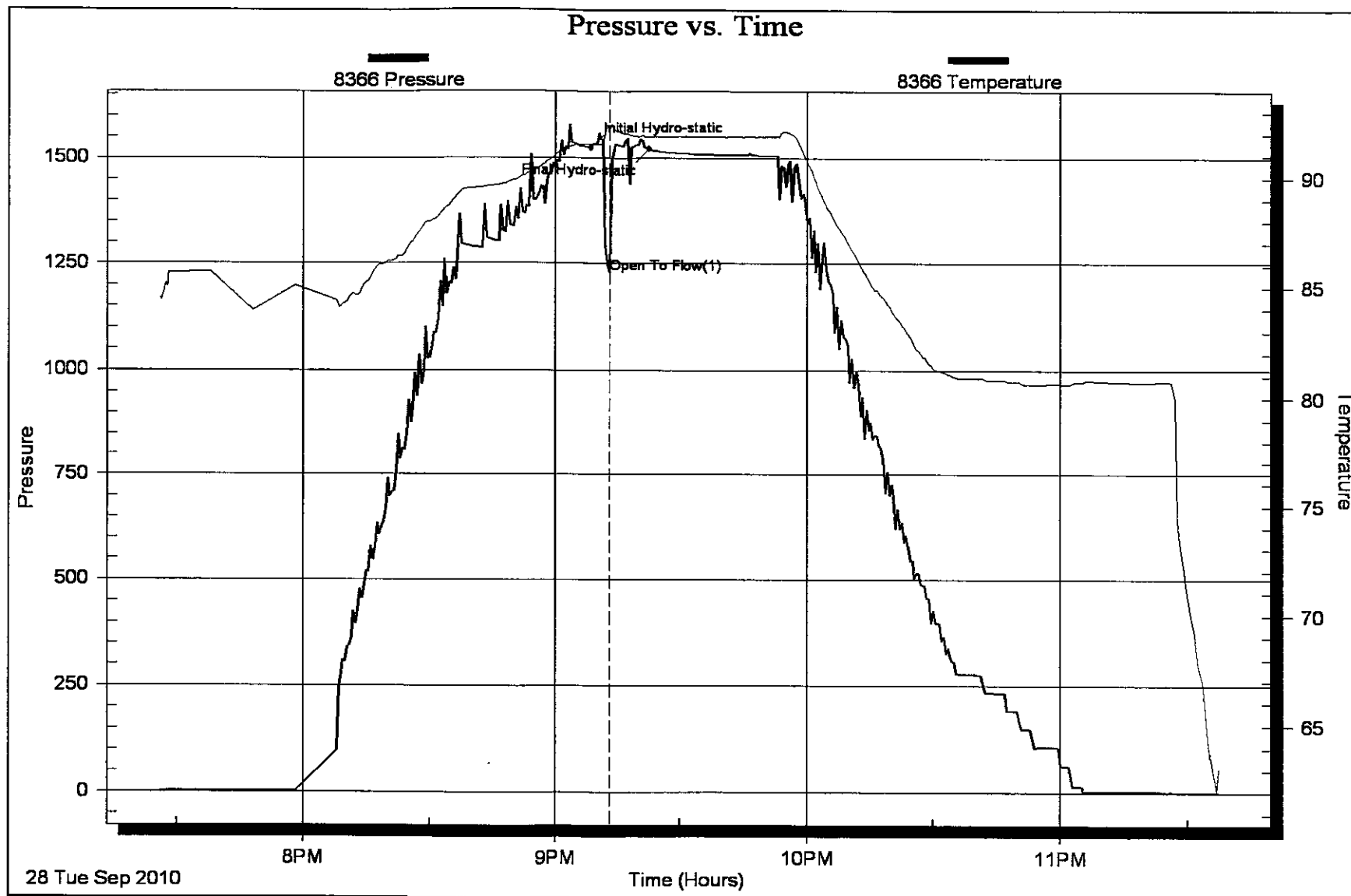
Length ft	Description	Volume bbl
610.00	Mud 100%	8.274

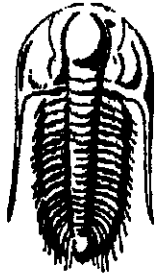
Total Length: 610.00 ft Total Volume: 8.274 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.29 @ 05:46:00

End Date: 2010.09.29 @ 10:43:00

Job Ticket #: 38437 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer Inc.

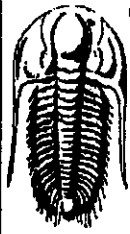
Schooler A #1

21-4-20 Phillips,KS

DST # 3

Toronto - LKC "A"

2010.09.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

Schooler A #1

21-4-20 Phillips, KS

Job Ticket: 38437

DST#: 3

Test Start: 2010.09.29 @ 05:46:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:18:00

Time Test Ended: 10:43:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: **3212.00 ft (KB) To 3275.00 ft (KB) (TVD)**

Total Depth: **3275.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2064.00 ft (KB)**

2056.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8366

Inside

Press@RunDepth: **32.40 psig @ 3213.00 ft (KB)**

Start Date: **2010.09.29**

End Date:

2010.09.29

Start Time: **05:46:05**

End Time:

10:42:59

Capacity: **8000.00 psig**

Last Calib.: **2010.09.29**

Time On Btm: **2010.09.29 @ 07:15:30**

Time Off Btm: **2010.09.29 @ 09:23:00**

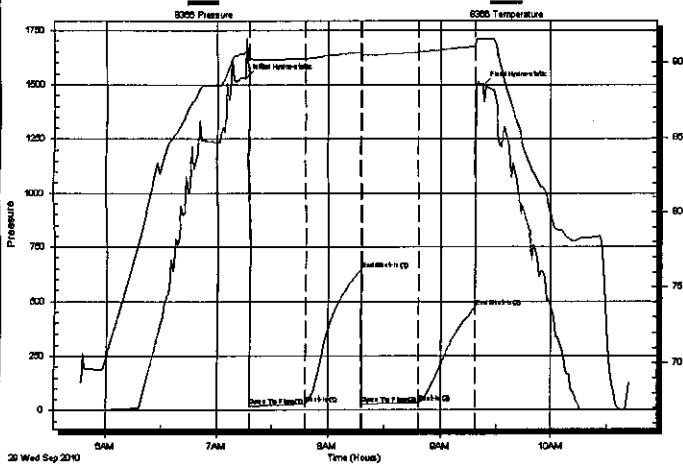
TEST COMMENT: IF: Blow built to just over 1"

IS: Bled off, No blow back

FF: Surface blow from 21 min. to 28 min.

FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

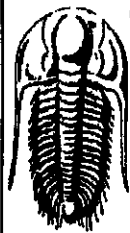
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1528.80	90.66	Initial Hydro-static
3	18.56	90.28	Open To Flow (1)
33	27.16	90.25	Shut-in(1)
62	644.27	90.64	End Shut-in(1)
63	28.70	90.47	Open To Flow (2)
93	32.40	90.65	Shut-in(2)
124	471.71	91.01	End Shut-in(2)
128	1495.86	91.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%	0.10
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS

Job Ticket: 38437 **DST#: 3**

Test Start: 2010.09.29 @ 05:46:00

Tool Information

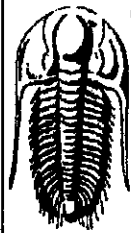
Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 44.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3212.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3189.00	
Hydraulic tool	5.00			3194.00	
Jars	5.00			3199.00	
Safety Joint	3.00			3202.00	
Packer	5.00			3207.00	28.00 Bottom Of Top Packer
Packer	5.00			3212.00	
Packer - Shale	0.00			3212.00	
Stubb	1.00			3213.00	
Recorder	0.00	8366	Inside	3213.00	
Recorder	0.00	8320	Inside	3213.00	
Perforations	23.00			3236.00	
Blank Spacing	33.00			3269.00	
Perforations	3.00			3272.00	
Bullnose	3.00			3275.00	63.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38437 DST#: 3
Test Start: 2010.09.29 @ 05:46:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.71 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

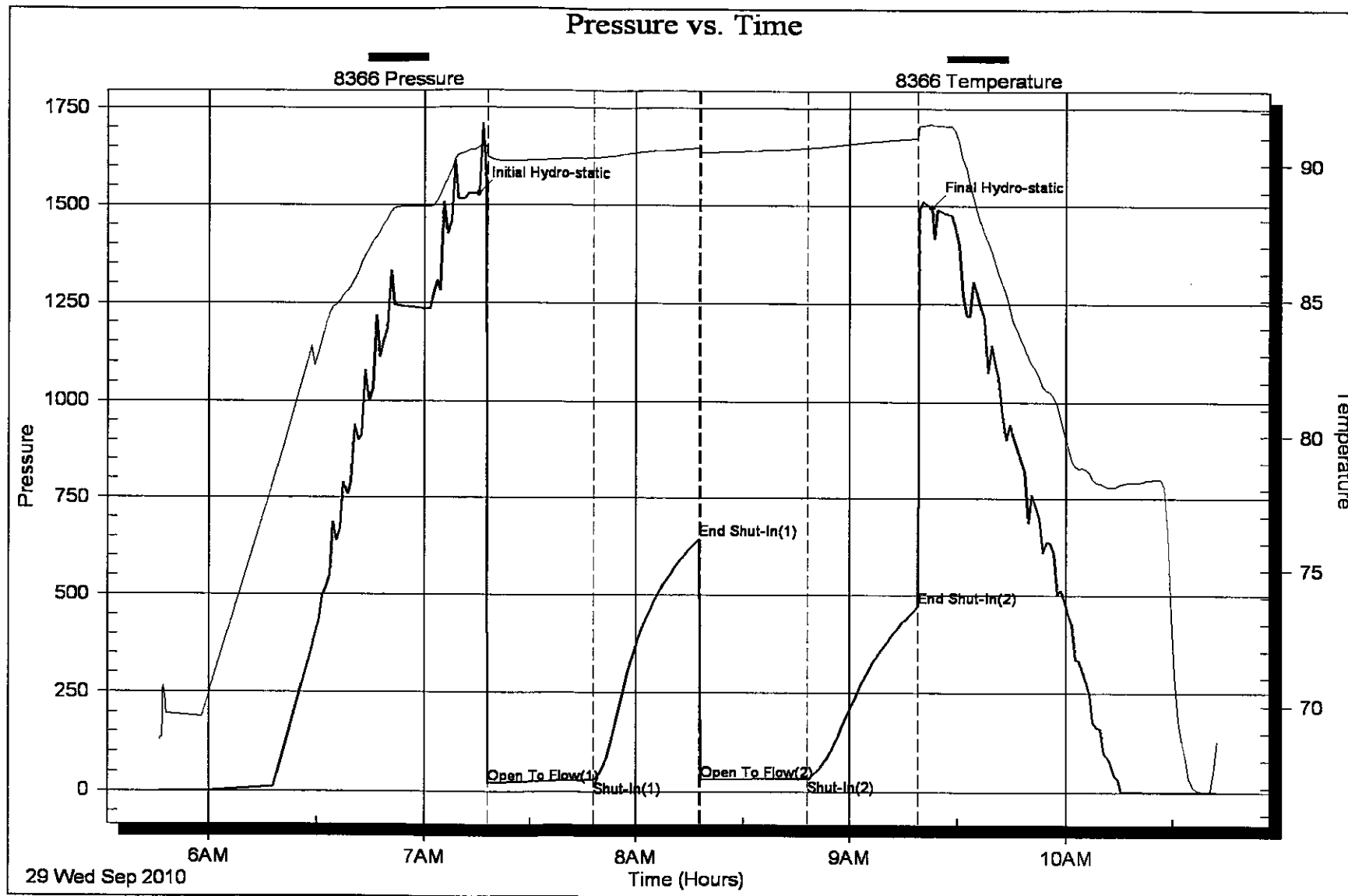
Length ft	Description	Volume bbl
20.00	Mud 100%	0.098
0.00	Oil spots in tool	0.000

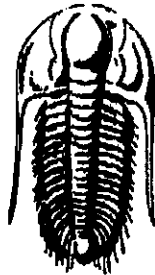
Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.29 @ 16:08:00

End Date: 2010.09.29 @ 20:59:30

Job Ticket #: 38438 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38438 DST#: 4
Test Start: 2010.09.29 @ 16:08:00

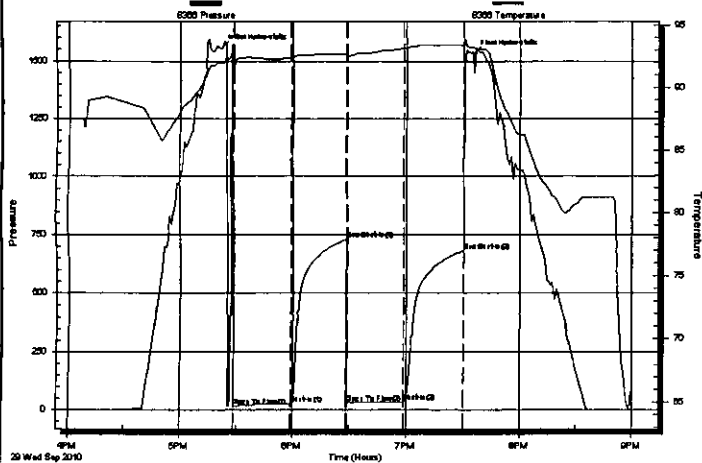
GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:28:30
 Time Test Ended: 20:59:30
 Interval: **3278.00 ft (KB) To 3295.00 ft (KB) (TVD)**
 Total Depth: 3295.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2064.00 ft (KB)
 2056.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8366 Inside
 Press@RunDepth: 33.64 psig @ 3279.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.09.29 End Date: 2010.09.29 Last Calib.: 2010.09.29
 Start Time: 16:08:05 End Time: 20:59:29 Time On Btm: 2010.09.29 @ 17:22:00
 Time Off Btm: 2010.09.29 @ 19:35:00

TEST COMMENT: IF: Blow built to 1/8"
 IS: Bled off, No blow back
 FF: No blow
 FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

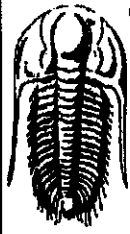
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.41	92.00	Initial Hydro-static
7	17.83	91.64	Open To Flow (1)
37	26.67	92.42	Shut-In(1)
67	730.49	92.72	End Shut-In(1)
67	31.34	92.48	Open To Flow (2)
97	33.64	93.15	Shut-In(2)
128	680.79	93.38	End Shut-In(2)
133	1532.64	93.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/trace oil 100% m	0.02
0.00	Very Strong Odor	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38438

DST#: 4

Russell, KS 67665

ATTN: Steve Murphy

Test Start: 2010.09.29 @ 16:08:00

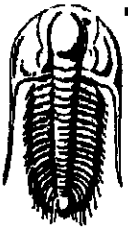
Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 45.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3278.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3255.00	
Hydraulic tool	5.00			3260.00	
Jars	5.00			3265.00	
Safety Joint	3.00			3268.00	
Packer	5.00			3273.00	28.00 Bottom Of Top Packer
Packer	5.00			3278.00	
Packer - Shale	0.00			3278.00	
Stubb	1.00			3279.00	
Recorder	0.00	8366	Inside	3279.00	
Recorder	0.00	8320	Inside	3279.00	
Perforations	13.00			3292.00	
Bullnose	3.00			3295.00	17.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38438 DST#: 4
Test Start: 2010.09.29 @ 16:08:00

Mud and Cushion Information

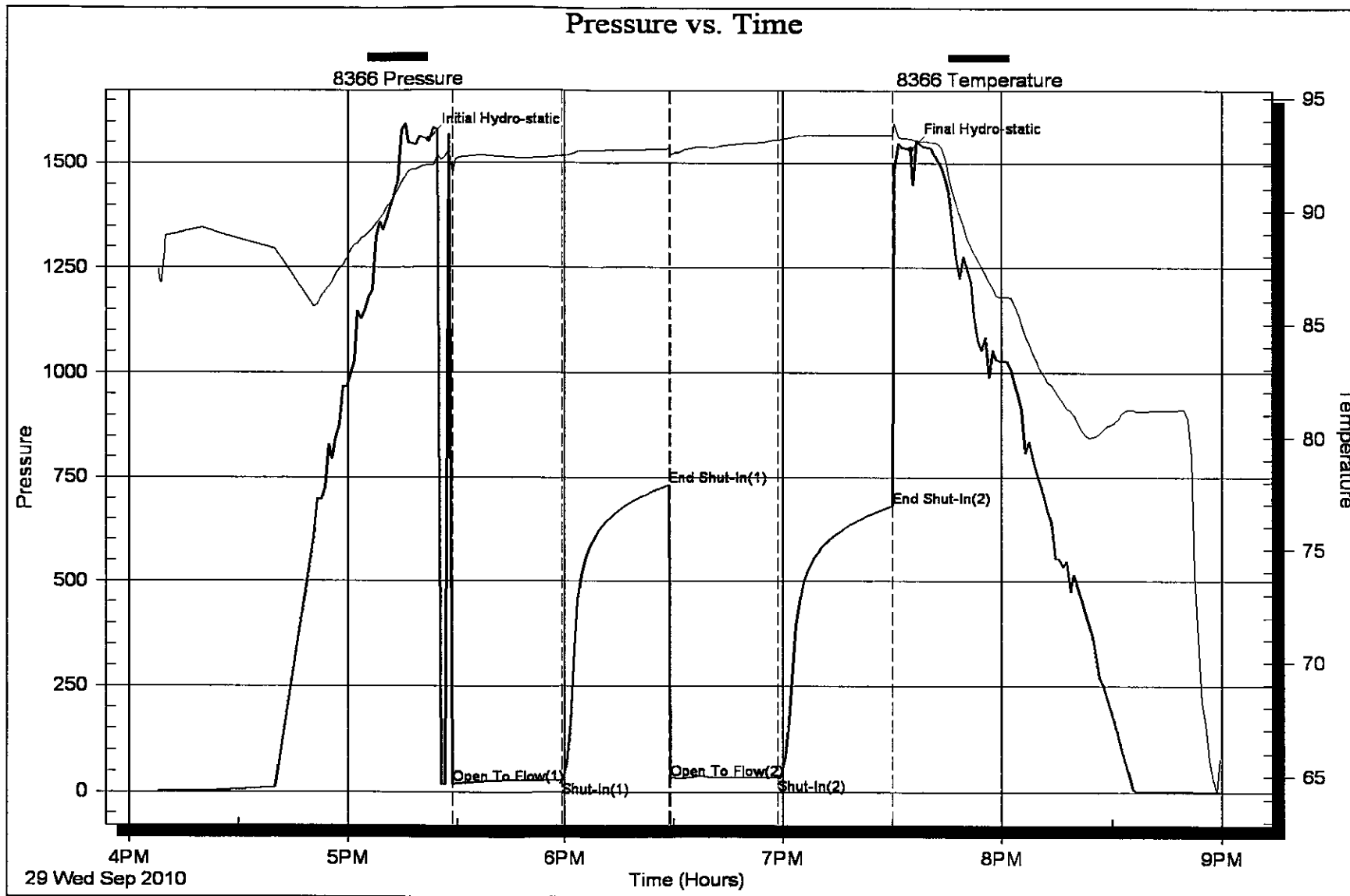
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.54 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

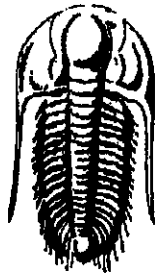
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/trace oil 100% _m	0.025
0.00	Very Strong Odor	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.30 @ 02:56:00

End Date: 2010.09.30 @ 08:44:00

Job Ticket #: 38439 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer Inc.

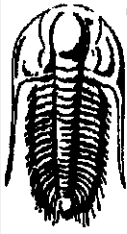
Schooler A #1

21-4-20 Phillips,KS

DST # 5

LKC "C-D"

2010.09.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

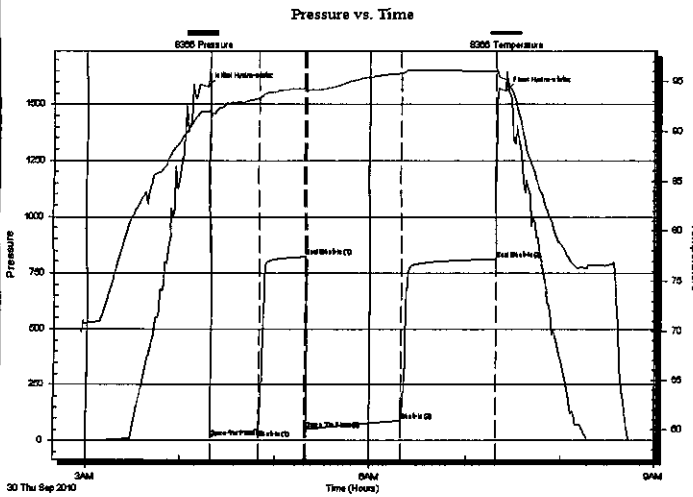
21-4-20 Phillips, KS
Job Ticket: 38439 DST#: 5
Test Start: 2010.09.30 @ 02:56:00

GENERAL INFORMATION:

Formation: LKC "C-D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:19:30
Time Test Ended: 08:44:00
Interval: 3298.00 ft (KB) To 3315.00 ft (KB) (TVD)
Total Depth: 3315.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2064.00 ft (KB)
2056.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole
Tester: James Winder
Unit No: 46

Serial #: 8366 Inside
Press@RunDepth: 88.14 psig @ 3299.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.09.30 End Date: 2010.09.30 Last Calib.: 2010.09.30
Start Time: 02:56:05 End Time: 08:43:59 Time On Btm: 2010.09.30 @ 04:17:00
Time Off Btm: 2010.09.30 @ 07:25:00

TEST COMMENT: IF: Blow built to 6 1/2"
IS: Bled off, No blow back
FF: Blow built to 10 1/2"
FSI: Bled off, No blow back



PRESSURE SUMMARY

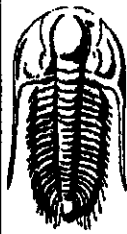
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1580.33	91.97	Initial Hydro-static
3	17.21	91.46	Open To Flow (1)
33	49.03	93.30	Shut-In(1)
62	821.30	94.31	End Shut-In(1)
63	50.98	94.01	Open To Flow (2)
122	88.14	95.76	Shut-In(2)
182	811.11	95.98	End Shut-In(2)
188	1562.19	95.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW w /trace oil 74%w , 26%m	1.47
15.00	SOCMW 52%w , 45%m, 3%o	0.21
15.00	CO 98%o, 2%m	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38439

DST#: 5

Russell, KS 67665

Test Start: 2010.09.30 @ 02:56:00

ATTN: Steve Murphy

Tool Information

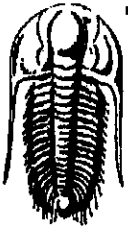
Drill Pipe:	Length: 3267.00 ft	Diameter: 3.80 inches	Volume: 45.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3298.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3275.00	
Hydraulic tool	5.00			3280.00	
Jars	5.00			3285.00	
Safety Joint	3.00			3288.00	
Packer	5.00			3293.00	28.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Packer - Shale	0.00			3298.00	
Stubb	1.00			3299.00	
Recorder	0.00	8366	Inside	3299.00	
Recorder	0.00	8320	Inside	3299.00	
Perforations	13.00			3312.00	
Bullnose	3.00			3315.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38439 DST#: 5
Test Start: 2010.09.30 @ 02:56:00

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: bbl		
Water Loss: 8.55 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

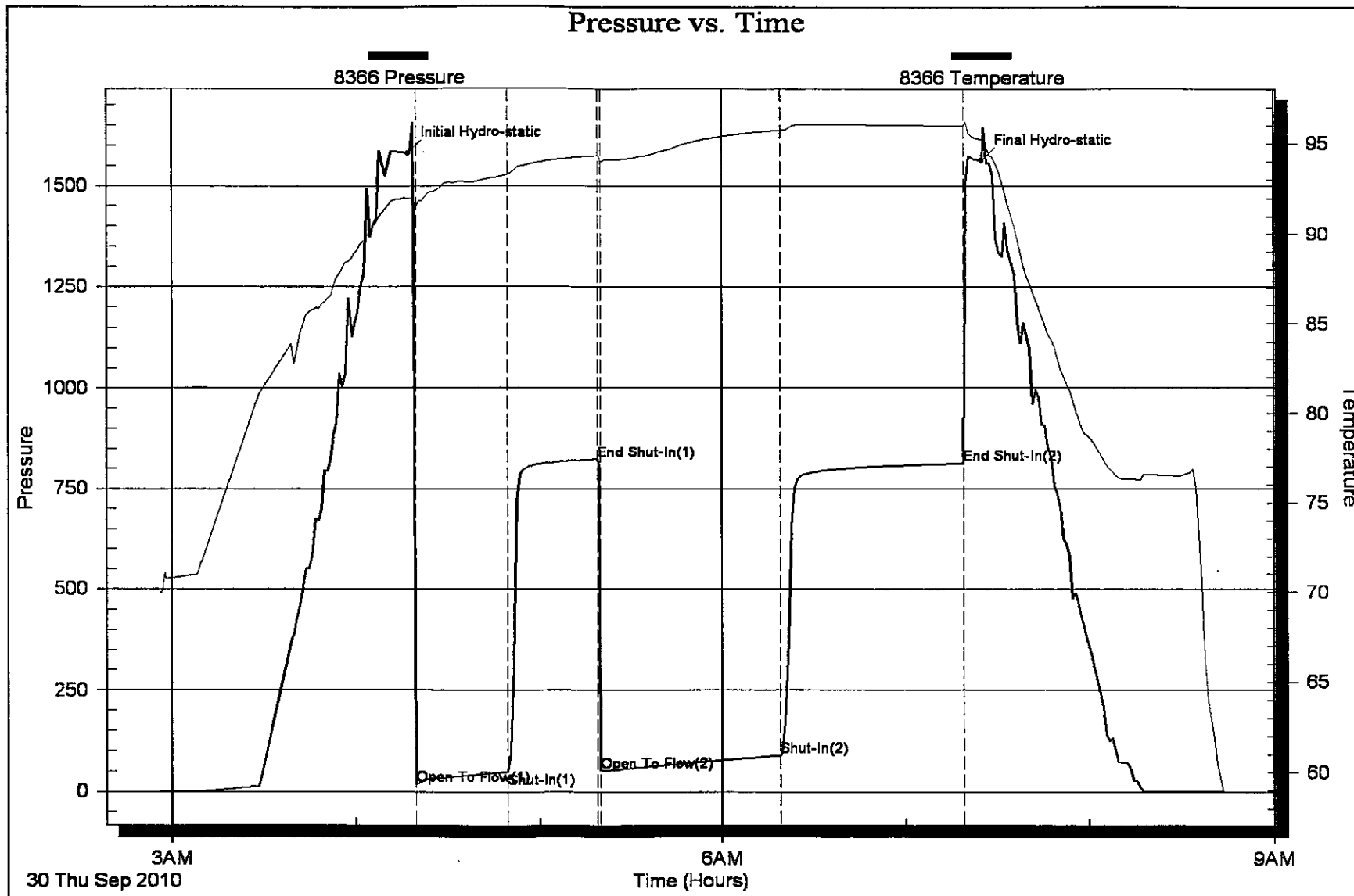
Length ft	Description	Volume bbl
125.00	MCW w /trace oil 74%w , 26%m	1.471
15.00	SOCMW 52%w , 45%m, 3%o	0.210
15.00	CO 98%o, 2%m	0.210

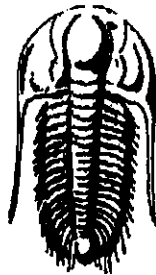
Total Length: 155.00 ft Total Volume: 1.891 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 25.8 api @ 58 deg F
Corrected Gravity = 26 api





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.09.30 @ 14:38:00

End Date: 2010.09.30 @ 20:28:00

Job Ticket #: 38440 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer Inc.

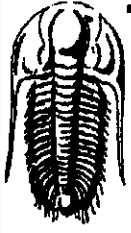
Schooler A #1

21-4-20 Phillips,KS

DST # 6

LKC "F"

2010.09.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.
370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

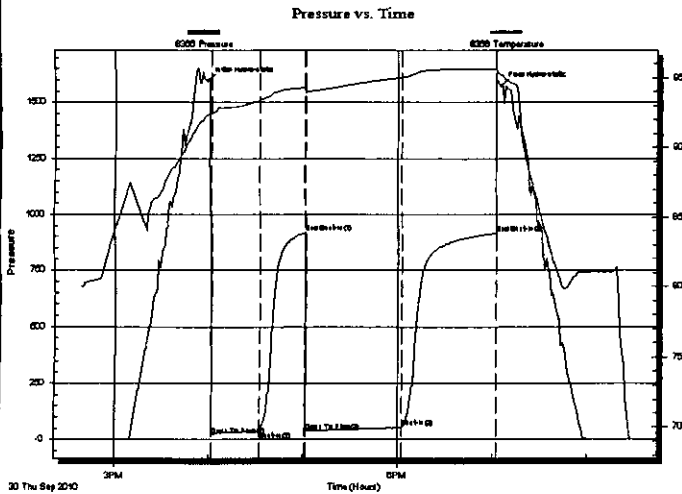
Schooler A #1
21-4-20 Phillips, KS
Job Ticket: 38440 **DST#: 6**
Test Start: 2010.09.30 @ 14:38:00

GENERAL INFORMATION:

Formation: **LKC "F"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 16:01:30
Time Test Ended: 20:28:00
Interval: **3328.00 ft (KB) To 3340.00 ft (KB) (TVD)**
Total Depth: **3340.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **James Winder**
Unit No: **46**
Reference Elevations: **2064.00 ft (KB)**
2056.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 8366 **Inside**
Press@RunDepth: **52.42 psig @ 3329.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.09.30** End Date: **2010.09.30** Last Calib.: **2010.09.30**
Start Time: **14:38:05** End Time: **20:27:59** Time On Btm: **2010.09.30 @ 15:59:00**
Time Off Btm: **2010.09.30 @ 19:05:30**

TEST COMMENT: IF: Blow built to 3"
IS: Bled off, No blow back
FF: Blow built to 5 3/4"
FSI: Bled off, No blow back



PRESSURE SUMMARY

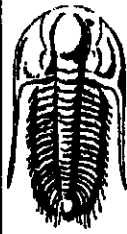
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.69	92.35	Initial Hydro-static
3	19.52	92.44	Open To Flow (1)
33	37.92	93.37	Shut-In(1)
62	917.22	94.29	End Shut-in(1)
63	36.30	94.00	Open To Flow (2)
124	52.42	95.02	Shut-In(2)
183	913.94	95.59	End Shut-In(2)
187	1572.96	95.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SO/WM 50% m, 48% w, 2% o	0.15
30.00	SO/WCM 73% m, 24% w, 3% o	0.41
5.00	WOCM 63% m, 20% o, 14% w, 3% g	0.07
15.00	SWMCO 93% o, 3% m, 2% w, 2% g	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips,KS

Job Ticket: 38440

DST#: 6

Test Start: 2010.09.30 @ 14:38:00

Tool Information

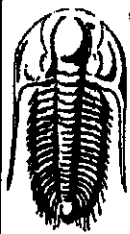
Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 46.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3328.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 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
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Jars	5.00			3315.00	
Safety Joint	3.00			3318.00	
Packer	5.00			3323.00	28.00 Bottom Of Top Packer
Packer	5.00			3328.00	
Packer - Shale	0.00			3328.00	
Stubb	1.00			3329.00	
Recorder	0.00	8366	Inside	3329.00	
Recorder	0.00	8320	Inside	3329.00	
Perforations	8.00			3337.00	
Bullnose	3.00			3340.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

21-4-20 Phillips, KS
Job Ticket: 38440 **DST#: 6**
Test Start: 2010.09.30 @ 14:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	31.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

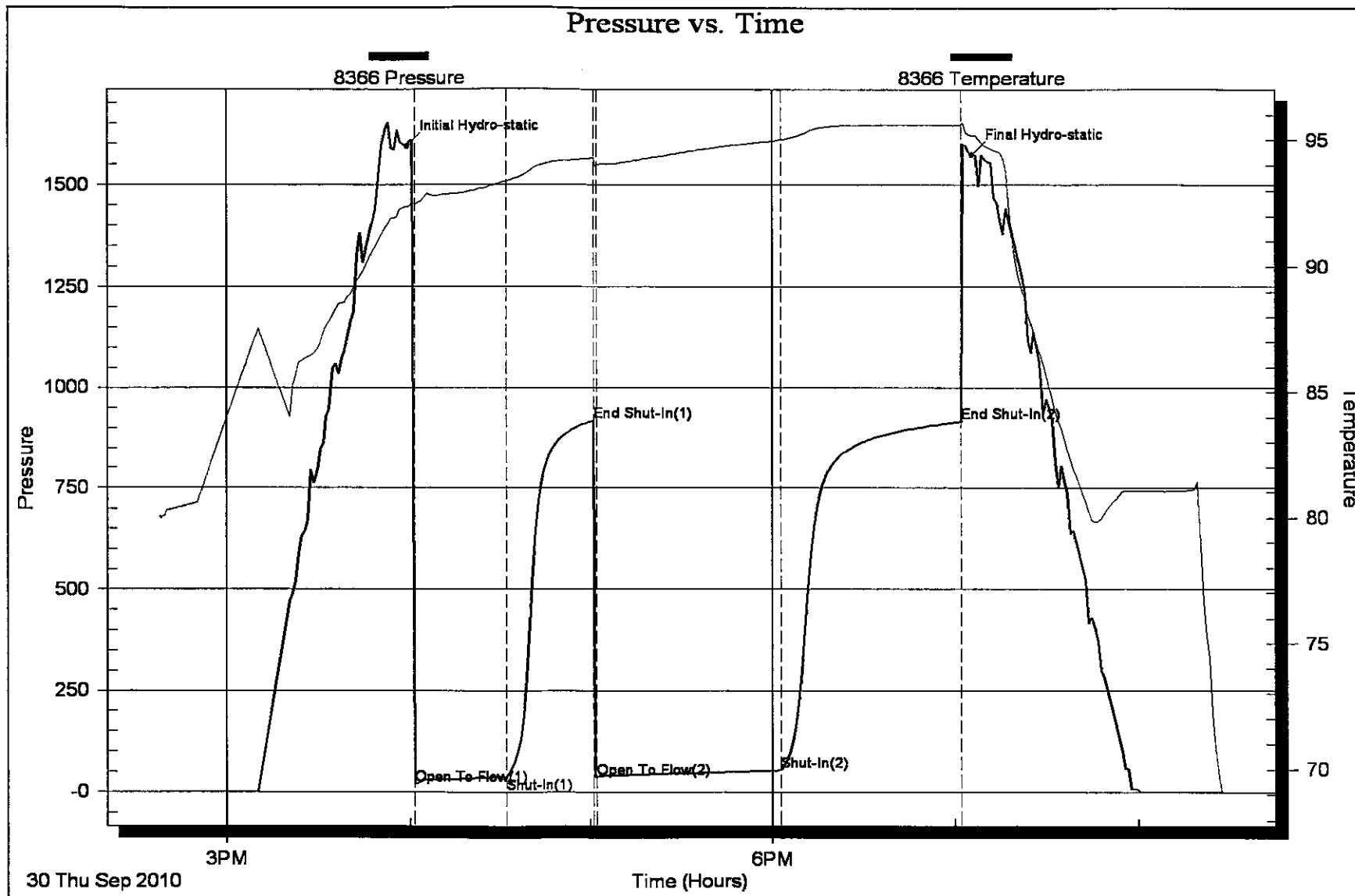
Length ft	Description	Volume bbl
30.00	SO/WM 50% <i>m</i> , 48% <i>w</i> , 2% <i>o</i>	0.148
30.00	SO/WCM 73% <i>m</i> , 24% <i>w</i> , 3% <i>o</i>	0.412
5.00	WOCM 63% <i>m</i> , 20% <i>o</i> , 14% <i>w</i> , 3% <i>g</i>	0.070
15.00	SVMCO 93% <i>o</i> , 3% <i>m</i> , 2% <i>w</i> , 2% <i>g</i>	0.210

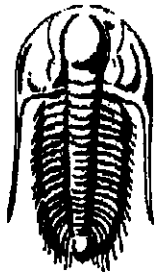
Total Length: 80.00 ft Total Volume: 0.840 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 32.6 api @ 70 deg F
Corrected Gravity = 31.6 api





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.10.01 @ 05:15:00

End Date: 2010.10.01 @ 09:45:30

Job Ticket #: 38441 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O Farmer Inc.

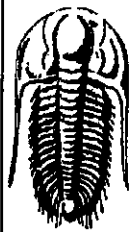
Schooler A #1

21-4-20 Phillips,KS

DST # 7

LKC "H"

2010.10.01



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.

370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

Schooler A #1

21-4-20 Phillips, KS

Job Ticket: 38441 DST#: 7

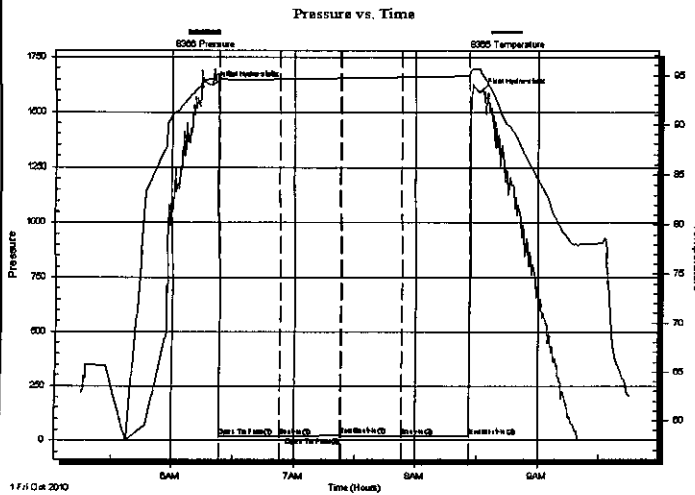
Test Start: 2010.10.01 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 06:23:00
 Time Test Ended: 09:45:30
 Interval: **3370.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Total Depth: **3410.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **James Winder**
 Unit No: **46**
 Reference Elevations: **2064.00 ft (KB)**
2056.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8366 Inside
 Press@RunDepth: **18.10 psig @ 3371.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.10.01** End Date: **2010.10.01** Last Calib.: **2010.10.01**
 Start Time: **05:15:05** End Time: **09:45:29** Time On Btm: **2010.10.01 @ 06:20:00**
 Time Off Btm: **2010.10.01 @ 08:31:30**

TEST COMMENT: IF: Blow built to 1/4" then died back, dead at 24 min.
 IS: No blow back
 FF: No blow
 FSI: No blow back



PRESSURE SUMMARY

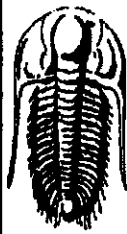
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.70	94.68	Initial Hydro-static
3	17.56	94.21	Open To Flow (1)
33	18.07	94.63	Shut-In(1)
63	23.82	94.73	End Shut-In(1)
64	16.91	94.73	Open To Flow (2)
93	18.10	94.83	Shut-In(2)
127	21.58	94.95	End Shut-In(2)
132	1593.06	95.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/trace oil 100%r	0.00
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38441

DST#: 7

Russell, KS 67665

Test Start: 2010.10.01 @ 05:15:00

ATTN: Steve Murphy

Tool Information

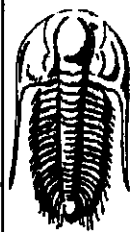
Drill Pipe:	Length: 3331.00 ft	Diameter: 3.80 inches	Volume: 46.73 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			Total Volume: 46.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3370.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3347.00	
Hydraulic tool	5.00			3352.00	
Jars	5.00			3357.00	
Safety Joint	3.00			3360.00	
Packer	5.00			3365.00	28.00 Bottom Of Top Packer
Packer	5.00			3370.00	
Packer - Shale	0.00			3370.00	
Stubb	1.00			3371.00	
Recorder	0.00	8366	Inside	3371.00	
Recorder	0.00	8320	Inside	3371.00	
Perforations	3.00			3374.00	
Blank Spacing	33.00			3407.00	
Bullnose	3.00			3410.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38441

DST#: 7

Russell, KS 67665

ATTN: Steve Murphy

Test Start: 2010.10.01 @ 05:15:00

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w/trace oil 100% _m	0.005
0.00	Oil spots in tool	0.000

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

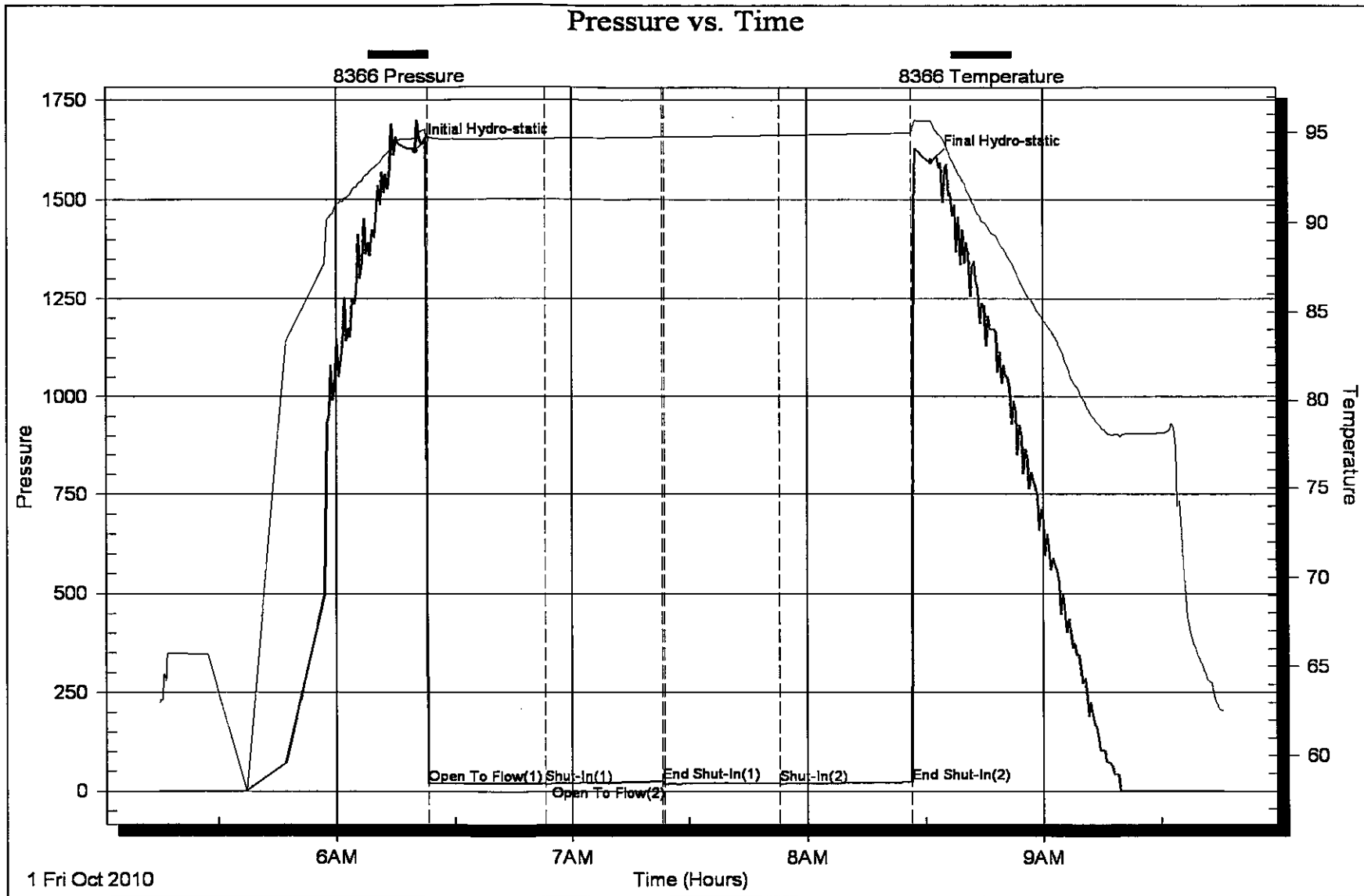
Num Gas Bombs: 0

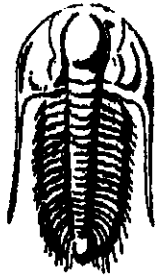
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc.**

370 W Wichita Ave
PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

21-4-20 Phillips,KS

Schooler A #1

Start Date: 2010.10.01 @ 18:31:00

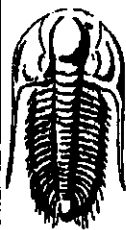
End Date: 2010.10.01 @ 23:36:00

Job Ticket #: 38442 DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc.
370 W Wichita Ave
PO Box 352
Russell, KS 67665
ATTN: Steve Murphy

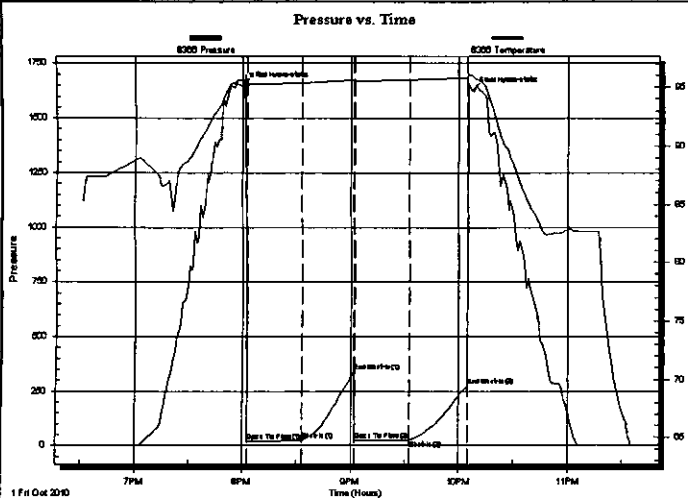
Schooler A #1
21-4-20 Phillips, KS
Job Ticket: 38442 DST#: 8
Test Start: 2010.10.01 @ 18:31:00

GENERAL INFORMATION:

Formation: **LKC "I - L"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 20:02:30
Time Test Ended: 23:36:00
Interval: **3406.00 ft (KB) To 3485.00 ft (KB) (TVD)**
Total Depth: **3485.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole**
Tester: **James Winder**
Unit No: **46**
Reference Elevations: **2064.00 ft (KB)**
2056.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 8366 **Inside**
Press@RunDepth: **24.88 psig @ 3407.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.10.01** End Date: **2010.10.01** Last Calib.: **2010.10.01**
Start Time: **18:31:05** End Time: **23:35:59** Time On Btm: **2010.10.01 @ 20:00:00**
Time Off Btm: **2010.10.01 @ 22:07:30**

TEST COMMENT: IF: Surface blow, dead at 11 min.
IS: No blow back
FF: No blow
FSI: No blow back



PRESSURE SUMMARY

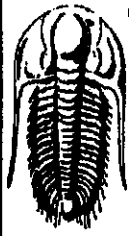
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.39	95.61	Initial Hydro-static
3	18.26	94.85	Open To Flow (1)
33	22.48	95.38	Shut-in(1)
62	339.92	95.62	End Shut-in(1)
63	22.72	95.52	Open To Flow (2)
93	24.88	95.63	Shut-in(2)
125	277.04	95.80	End Shut-in(2)
128	1626.14	96.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /trace oil 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38442

DST#: 8

Russell, KS 67665

Test Start: 2010.10.01 @ 18:31:00

ATTN: Steve Murphy

Tool Information

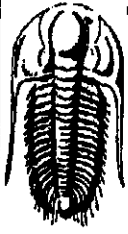
Drill Pipe:	Length: 3363.00 ft	Diameter: 3.80 inches	Volume: 47.17 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 47.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3406.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3383.00	
Hydraulic tool	5.00			3388.00	
Jars	5.00			3393.00	
Safety Joint	3.00			3396.00	
Packer	5.00			3401.00	28.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Packer - Shale	0.00			3406.00	
Stubb	1.00			3407.00	
Recorder	0.00	8366	Inside	3407.00	
Recorder	0.00	8320	Inside	3407.00	
Perforations	10.00			3417.00	
Blank Spacing	63.00			3480.00	
Perforations	2.00			3482.00	
Bullnose	3.00			3485.00	79.00 Bottom Packers & Anchor

Total Tool Length: 107.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc.

Schooler A #1

370 W Wichita Ave

21-4-20 Phillips, KS

PO Box 352

Job Ticket: 38442

DST#: 8

Russell, KS 67665

ATTN: Steve Murphy

Test Start: 2010.10.01 @ 18:31:00

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: 65.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud w/trace oil 100% m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

