

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL 8/5/13

OPERATOR: License # 5135
Name: John O. Farmer, Inc.
Address 1: P.O. Box 352
Address 2:
City: Russell State: KS Zip: 67665 + 0 3 5 2
Contact Person: Marge Schulte
Phone: (785) 483-3145, Ext. 214
CONTRACTOR: License # 31548
Name: Discovery Drilling Company, Inc.
Wellsite Geologist: Steven P. Murphy
Purchaser: Coffeyville Resources, LLC

RECEIVED

AUG 05 2011

KCC WICHITA

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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

4-13-11 4-20-11 5-17-11
Spud Date or Completion Date
Recompletion Date Date Reached TD Recompletion Date

API No. 15 - 15-147-20,639-00-00
Spot Description:
SW SE SE NW Sec. 18 Twp. 4 S. R. 18 East West
2,580 Feet from North / South Line of Section
2,030 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Phillips
Lease Name: Bredemeier "A" Well #: 1
Field Name: Mont-Sol South
Producing Formation: Lansing/KC
Elevation: Ground: 1922' Kelly Bushing: 1930'
Total Depth: 3540' Plug Back Total Depth: 3520'
Amount of Surface Pipe Set and Cemented at: 233.47 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: Port Collar @ 1,480 Feet
If Alternate II completion, cement circulated from: 1,480
feet depth to: surface w/ 200 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16,000 ppm Fluid volume: 320 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. East West
County: Permit #:

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KCC

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.

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.

Signature: John O. Farmer III
Title: John O. Farmer III, President Date: 8-4-11

KCC Office Use ONLY

- Letter of Confidentiality Received Date: 8/05/11 - 8/05/13
- Confidential Release Date:
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: [Signature] Date: 8-11-11

Operator Name: John O. Farmer, Inc. Lease Name: Bredemeier "A" Well #: 1
 Sec. 18 Twp. 4 S. R. 18 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 complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Borehole Compensated Sonic Log, Dual Induction Log, Compensated Density Neutron Log, Micro Resistivity Log, Dual Receiver Cement Bond Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1487'</td> <td>(+443)</td> </tr> <tr> <td>Topeka</td> <td>2903'</td> <td>(-973)</td> </tr> <tr> <td>Heebner</td> <td>3100'</td> <td>(-1170)</td> </tr> <tr> <td>Toronto</td> <td>3124'</td> <td>(-1194)</td> </tr> <tr> <td>Lansing</td> <td>3139'</td> <td>(-1209)</td> </tr> <tr> <td>Base/KC</td> <td>3359'</td> <td>(-1429)</td> </tr> <tr> <td>Arbuckle</td> <td>3456'</td> <td>(-1526)</td> </tr> </table>	Name	Top	Datum	Anhydrite	1487'	(+443)	Topeka	2903'	(-973)	Heebner	3100'	(-1170)	Toronto	3124'	(-1194)	Lansing	3139'	(-1209)	Base/KC	3359'	(-1429)	Arbuckle	3456'	(-1526)
Name	Top	Datum																							
Anhydrite	1487'	(+443)																							
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Lansing	3139'	(-1209)																							
Base/KC	3359'	(-1429)																							
Arbuckle	3456'	(-1526)																							

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
Surface	12-1/4"	8-5/8" (used)	23#	233.47'	Common	160	3% C.C., 2% gel
Production	7-7/8"	5-1/2" (new)	14#	3538'	Common	125	10% salt
D.V. Tool				1480'	Q-MDC	200	

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
4 SPF	3174-3180' (Lansing "C" - not producing)	350 gals. 15% MCA	
4 SPF	3213-3216' (Lansing "E") 3220-3225' (Lansing "F")	treated together w/350 gals. 15% MCA	
4 SPF	3232-3242' (Lansing "G")	350 gals. 15% MCA	
4 SPF	3264-3274' (Lansing "H") 3288-3294' (Lansing "I")	treated together w/ 350 gals. 15% MCA	
		750 gals. 15% NE over E, F, I, H & 900 gals. over E, F, G, H, I	

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>3514'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>6-8-11</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>45.00</u>	Gas Mcf	Water Bbls. <u>0.00</u>	Gravity <u>40.0°</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input checked="" type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3213-3294' OA</u>
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QUALITY OILWELL CEMENTING, INC.

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

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

No. 5070

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-21-11	18	4	18	Phillips	Kansas		3:00pm
Lease Bredemeier A	Well No. 1	Location State 46 21 3W					
Contractor Discovery Drilling	Owner			To Quality Oilwell Cementing, Inc.			
Type Job Longstring	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 7 7/8	T.D. 3540	Charge To JO Farmer					
Csg. 5 1/2 1416	Depth	Street					
Tbg. Size	Depth	City		State			
Tool Port Collar #51	Depth 1480	The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg. 17	Shoe Joint 17	Cement Amount Ordered 175 Common 102 Salt					
Meas Line	Displace 86 BH	500 Gal Mud Clear 48 200 gal KCL					
EQUIPMENT							
Pumptrk 9	No. Cementer	Helper Steve		Common 175			
Bulktrk 8	No. Driver	Paul		Poz. Mix			
Bulktrk	No. Driver	Dan		Gel.			
JOB SERVICES & REMARKS				Calcium			
Remarks:	Hulls						
Rat Hole	Salt 15			RECEIVED			
Mouse Hole	Flowseat 2 gal KCL			AUG 05 2011			
Centralizers	Kol-Seal			KCC WICHITA			
Baskets	Mud CLR 48 500 gal						
D/V or Port Collar	CFL-117 or CD110 CAF 38						
30 ex Rat Hole	Sand						
20 ex Mouse Hole	Handling 190						
Land plug @ 1200 psi	Mileage			FLOAT EQUIPMENT			
Float Held	Guide Shoe						
	Centralizer 8 Turbos			CONFIDENTIAL			
	Baskets 3			AUG 05 2011			
	AFU Inserts			KCC			
	Float Shoe 1						
	Latch Down 1						
	Port Collar						
	200 Rotating Sealers						
	Pumptrk Charge						
	Mileage 60						
	Thank You						
	Signature Ann W. ...			Tax			
				Discount			
				Total Charge			

QUALITY OILWELL CEMENTING, INC.

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

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

No. 5040

Date	4-13-11	Sec.	18	Twp.	4	Range	18	County	Phillips	State	Ks	On Location		Finish	6:00 PM	
Lease	Bredemeier	Well No.	2	Location	Salade 4W 2N 3/4 S 11+U											
Contractor	Discovery #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	Surface							Charge To	J.O. Farmer							
Hole Size	12 1/4							T.D.	233'							
Csg.	8 5/8							Depth	233.47							
Tbg. Size								Depth								
Tool								Depth								
Cement Left in Csg.	15'							Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line								Displace	13.89 bbls							
								Cement Amount Ordered	160 Cum 3% GCC 2% Gel							

EQUIPMENT

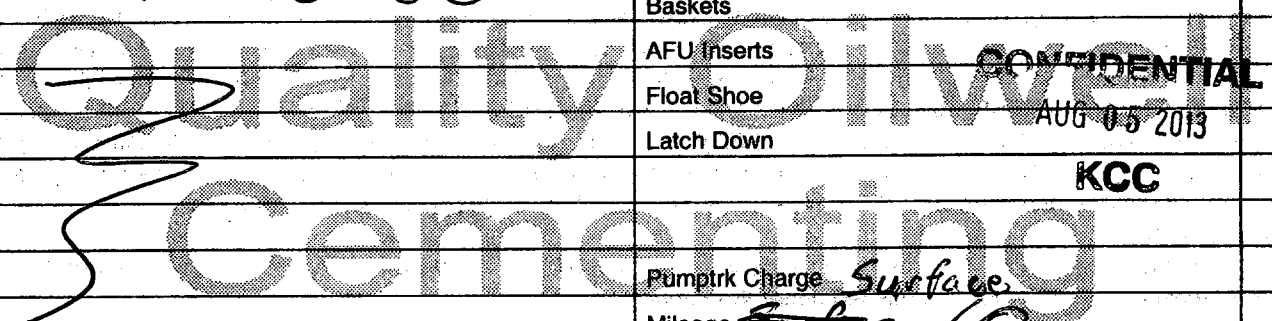
Pumptrk	5	No.	Cementer	Brandon	Common	160
			Helper			
Bulktrk		No.	Driver	Craig	Poz. Mix	
			Driver			
Bulktrk	8	No.	Driver	Mat	Gel.	3
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls	
Rat Hole	Salt	RECEIVED
Mouse Hole	Flowseal	AUG 05 2011
Centralizers	Kol-Seal	
Baskets	Mud CLR 48	KCC WICHITA
D/V or Port Collar	CFL-117 or CD110 CAF 38	
8 5/8 on bottom. Est. Circulation	Sand	
Mix hose & Displace	Handling	169
Cement Did Circ'd	Mileage	
Thank You's	Guide Shoe	
	Centralizer	
	Baskets	
	AFU Inserts	
	Float Shoe	
	Latch Down	
	Pumptrk Charge	Surface
	Mileage	60 60

FLOAT EQUIPMENT

X Signature	[Signature]	Tax	
		Discount	
		Total Charge	



QUALITY OILWELL CEMENTING, INC.

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

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

No. 5003

Date	5/3/11	Sec.	18	Twp.	4	Range	18	County	Phillips	State	KS	On Location		Finish	12:00 Pm
Lease	Bredemeir "A"			Well No.	1			Location	Glade, 4W, 2N, 3/4 W, S into						
Contractor	Abe Servicing							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	Port Collar							Charge To	John O. Farmer						
Hole Size	7 7/8"							T.D.							
Csg.	5 1/2"							Depth							
Tbg. Size	2 7/8"							Depth							
Tool	Port Collar							Depth	1480'						
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace							
								Cement Amount Ordered	300x Q-MDC 1/4 Above						

EQUIPMENT

Pumptrk	9	No.	Cementer		Common	200	RECEIVED
			Helper	Penn			AUG 05 2011
Bulktrk	12	No.	Driver	Neale	Poz. Mix		
			Driver				
Bulktrk	PV	No.	Driver	Rocky	Gel.		KCC WICHITA
			Driver				

JOB SERVICES & REMARKS

Remarks:	Hulls	RECEIVED
Rat Hole	Salt	AUG 05 2011
Mouse Hole	Flowseal	75 #
Centralizers	Kol-Seal	KCC WICHITA
Baskets	Mud CLR 48	
D/V or Port Collar	CFL-117 or CD110 CAF 38	
Pressure to 1000 #	Sand	
Open Tool	Handling	300
Mix 200x to Liner Cement	Mileage	
Displace	FLOAT EQUIPMENT	
Close Tool	Guide Shoe	
Pressure to 1000 #	Centralizer	CONFIDENTIAL
Wash Clean	Baskets	AUG 05 2013
Run 5 Jts.	AFU Inserts	KCC
Thank You!!	Float Shoe	
	Latch Down	5 1/2" Opening Tool
	Pumptrk Charge	port collar
	Mileage	49

X Signature *James [unclear]*

Tax
Discount
Total Charge



Discovery Drilling

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

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: Bredemeier "A" # 1 Location: SW/SE/SE/NW
Section 18/4S/18W
Phillips Co., KS

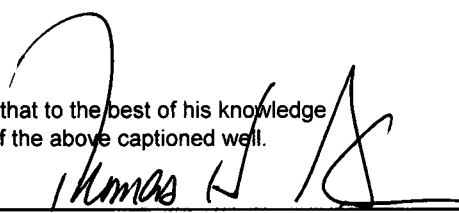
Loggers Total Depth: 3541' API#15- 147-20,639-00-00
Rotary Total Depth: 3540' Elevation: 1922 GL / 1930 KB
Commenced: 4/13/2011 Completed: 4/21/2011
Casing: 8 5/8" @ 233.47'W/160sks Status: Oilwell
5 1/2" @ 3538'W/120sks
Port Collar @ 1480'

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1518'</u>
Dakota Sand	<u>843'</u>	Shale & Lime	<u>1791'</u>
Shale	<u>920'</u>	Shale	<u>2017'</u>
Cedar Hill Sand	<u>1036'</u>	Shale & Lime	<u>2562'</u>
Red Bed Shale	<u>1197'</u>	Lime & Shale	<u>3064'</u>
Anhydrite	<u>1479'</u>	RTD	<u>3540'</u>
Base Anhydrite	<u>1518'</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.



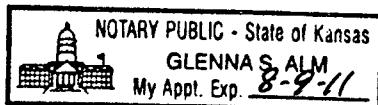
Thomas H. Alm

Subscribed and sworn to before me on 4-25-11

My Commission expires: 8-9-11

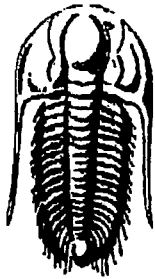
Glenna S. Alm
Notary Public

(Place stamp or seal below)



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AUG 05 2013
KCC



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.16 @ 22:19:00

End Date: 2011.04.17 @ 03:10:39

Job Ticket #: 43109 DST #: 1

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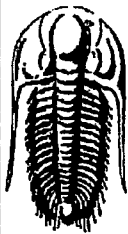
AUG 05 2011

KCC WICHITA

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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43109

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.04.16 @ 22:19:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:52:20

Time Test Ended: 03:10:39

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **3090.00 ft (KB) To 3130.00 ft (KB) (TVD)**

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 21.19 psig @ 3095.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.16

End Date:

2011.04.17

Last Calib.: 2011.04.17

Start Time: 22:19:05

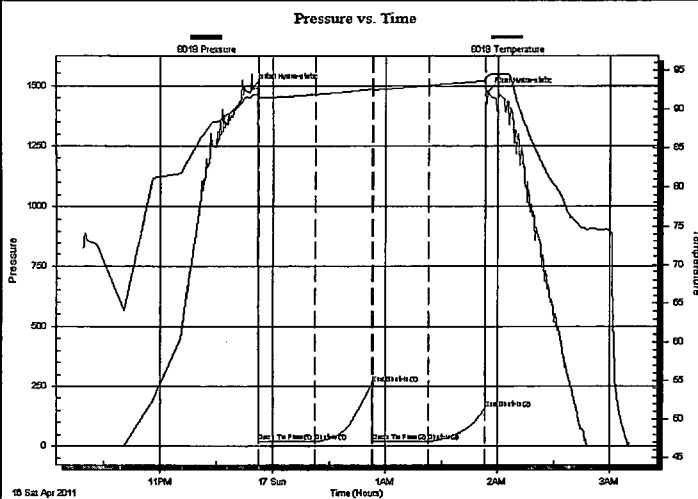
End Time:

03:10:40

Time On Btm: 2011.04.16 @ 23:49:00

Time Off Btm: 2011.04.17 @ 01:54:30

TEST COMMENT: IF: 1/2" Blow.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

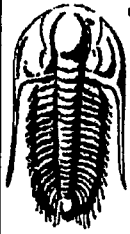
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1489.36	91.79	Initial Hydro-static
4	19.16	91.49	Open To Flow (1)
34	19.77	91.89	Shut-In(1)
64	261.47	92.62	End Shut-In(1)
65	20.64	92.48	Open To Flow (2)
94	21.19	93.06	Shut-In(2)
125	156.87	93.68	End Shut-In(2)
126	1473.82	94.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43109

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.04.16 @ 22:19:00

Tool Information

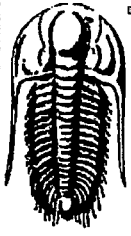
Drill Pipe:	Length: 3045.00 ft	Diameter: 3.80 inches	Volume: 42.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.50 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3090.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.50 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			3063.50	
Shut In Tool	5.00			3068.50	
Hydraulic tool	5.00			3073.50	
Jars	5.00			3078.50	
Safety Joint	2.50			3081.00	
Packer	5.00			3086.00	27.50 Bottom Of Top Packer
Packer	4.00			3090.00	
Stubb	1.00			3091.00	
Perforations	4.00			3095.00	
Recorder	0.00	8018	Inside	3095.00	
Recorder	0.00	6751	Outside	3095.00	
Change Over Sub	1.00			3096.00	
Drill Pipe	30.00			3126.00	
Change Over Sub	1.00			3127.00	
Bullnose	3.00			3130.00	40.00 Bottom Packers & Anchor

Total Tool Length: 67.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43109

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.04.16 @ 22:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 0 ppm

Viscosity: 68.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.57 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
10.00	OSM 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

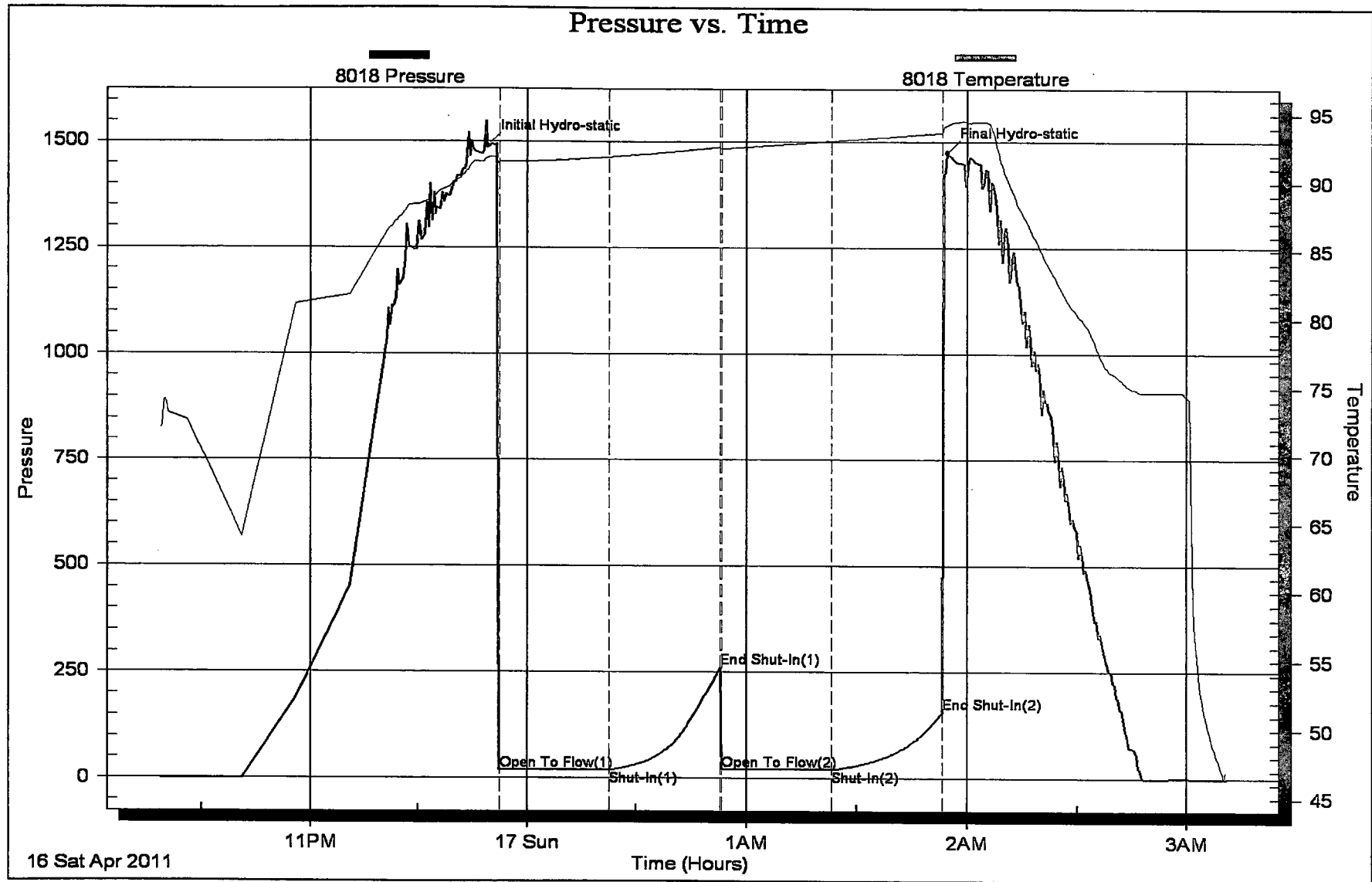
Num Gas Bombs: 0

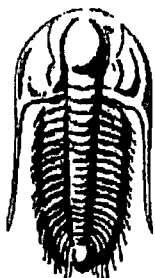
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.17 @ 08:41:00

End Date: 2011.04.17 @ 14:21:30

Job Ticket #: 43110 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O. Farmer Inc

Bredemeier A#1

S184s18w Phillips,KS

DST # 2

LKC 'A'

2011.04.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43110 DST#: 2

ATTN: Steve Murphy

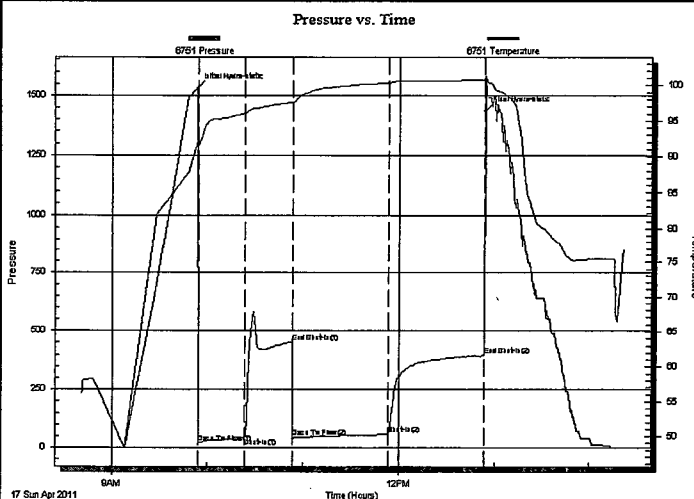
Test Start: 2011.04.17 @ 08:41:00

GENERAL INFORMATION:

Formation: LKC 'A'
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:53:30
 Time Test Ended: 14:21:30
 Interval: 3132.00 ft (KB) To 3146.00 ft (KB) (TVD)
 Total Depth: 3146.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 1930.00 ft (KB)
 1922.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6751 Outside
 Press@RunDepth: 56.37 psig @ 3143.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.04.17 End Date: 2011.04.17 Last Calib.: 2011.04.17
 Start Time: 08:41:05 End Time: 14:21:29 Time On Btm: 2011.04.17 @ 09:53:20
 Time Off Btm: 2011.04.17 @ 12:54:00

TEST COMMENT: IF: 5" Blow.
 IS: 1/2" Return.
 FF: 4 1/2" Blow.
 FS: 1" Return.



PRESSURE SUMMARY

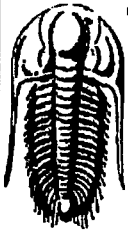
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.15	92.11	Initial Hydro-static
1	21.90	91.49	Open To Flow (1)
30	39.84	96.06	Shut-In(1)
60	452.82	97.61	End Shut-In(1)
61	43.42	97.38	Open To Flow (2)
121	56.37	100.35	Shut-In(2)
181	399.69	100.74	End Shut-In(2)
181	1436.37	101.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OSMW 20m 80w	0.99
10.00	CGO 20g 80o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43110

DST#: 2

ATTN: Steve Murphy

Test Start: 2011.04.17 @ 08:41:00

Tool Information

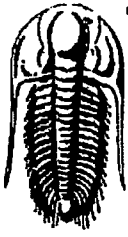
Drill Pipe:	Length: 3077.00 ft	Diameter: 3.80 inches	Volume: 43.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 43.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.50 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3132.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	41.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3105.50	
Shut In Tool	5.00			3110.50	
Hydraulic tool	5.00			3115.50	
Jars	5.00			3120.50	
Safety Joint	2.50			3123.00	
Packer	5.00			3128.00	27.50 Bottom Of Top Packer
Packer	4.00			3132.00	
Stubb	1.00			3133.00	
Perforations	10.00			3143.00	
Recorder	0.00	8018	Inside	3143.00	
Recorder	0.00	6751	Outside	3143.00	
Bullnose	3.00			3146.00	14.00 Bottom Packers & Anchor

Total Tool Length: 41.50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43110

DST#: 2

ATTN: Steve Murphy

Test Start: 2011.04.17 @ 08:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.95 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 bbf
90.00	OSMW 20m 80w	0.989
10.00	CGO 20g 80o	0.140

Total Length: 100.00 ft

Total Volume: 1.129 bbf

Num Fluid Samples: 0

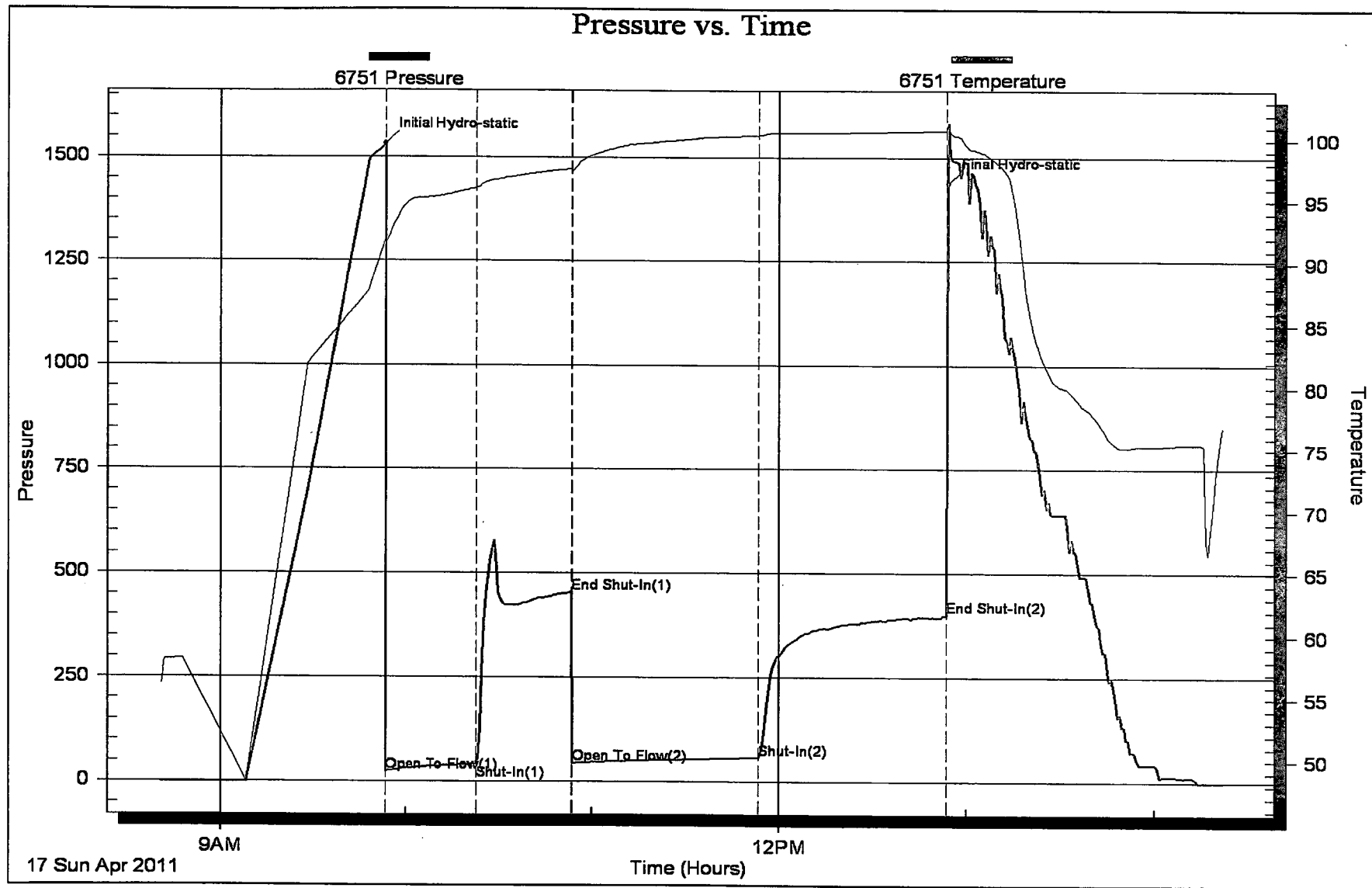
Num Gas Bombs: 0

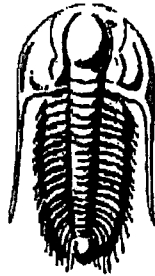
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 40 @ 70 Degrees F = 39. RW: .250 @ 75 deg F





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.17 @ 23:07:00

End Date: 2011.04.18 @ 04:55:09

Job Ticket #: 43111 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O. Farmer Inc

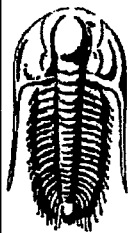
Bredemeier A#1

S184s18w Phillips,KS

DST # 3

LKC 'C-D'

2011.04.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43111

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.04.17 @ 23:07:00

GENERAL INFORMATION:

Formation: **LKC 'C-D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:24:40

Time Test Ended: 04:55:09

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **3164.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Total Depth: 3200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1930.00 ft (KB)

1922.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 51.01 psig @ 3197.00 ft (KB)

Start Date: 2011.04.17

End Date:

2011.04.18

Start Time: 23:07:05

End Time:

04:55:10

Capacity: 8000.00 psig

Last Calib.: 2011.04.18

Time On Btm: 2011.04.18 @ 00:22:20

Time Off Btm: 2011.04.18 @ 03:26:39

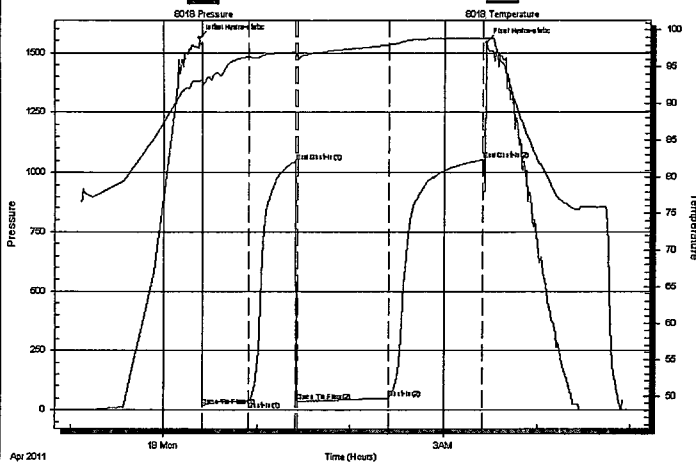
TEST COMMENT: IF: 3 1/4" Blow.

ISI: No return.

FF: B.O.B. @ 50 min.

FSI: Weak return died @ 5 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1559.90	93.07	Initial Hydro-static
3	18.38	92.28	Open To Flow (1)
33	37.79	96.32	Shut-In(1)
63	1045.04	96.97	End Shut-In(1)
64	36.05	96.29	Open To Flow (2)
123	51.01	98.01	Shut-In(2)
183	1053.87	98.89	End Shut-In(2)
185	1542.02	98.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 5o 95m	0.57
30.00	CGO 20g 80o	0.42
0.00	30 Feet GIP	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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43111

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.04.17 @ 23:07:00

Tool Information

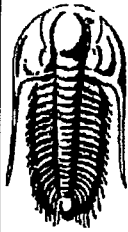
Drill Pipe:	Length: 3138.00 ft	Diameter: 3.80 inches	Volume: 44.02 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.50 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3164.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Tool Slid 4'

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3137.50	
Shut In Tool	5.00			3142.50	
Hydraulic tool	5.00			3147.50	
Jars	5.00			3152.50	
Safety Joint	2.50			3155.00	
Packer	5.00			3160.00	27.50 Bottom Of Top Packer
Packer	4.00			3164.00	
Stubb	1.00			3165.00	
Perforations	32.00			3197.00	
Recorder	0.00	8018	Inside	3197.00	
Recorder	0.00	6751	Outside	3197.00	
Bullnose	3.00			3200.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43111

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.04.17 @ 23:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

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 bbbl
60.00	OCM 5o 95m	0.568
30.00	CGO 20g 80o	0.421
0.00	30 Feet GIP	0.000

Total Length: 90.00 ft Total Volume: 0.989 bbl

Num Fluid Samples: 0

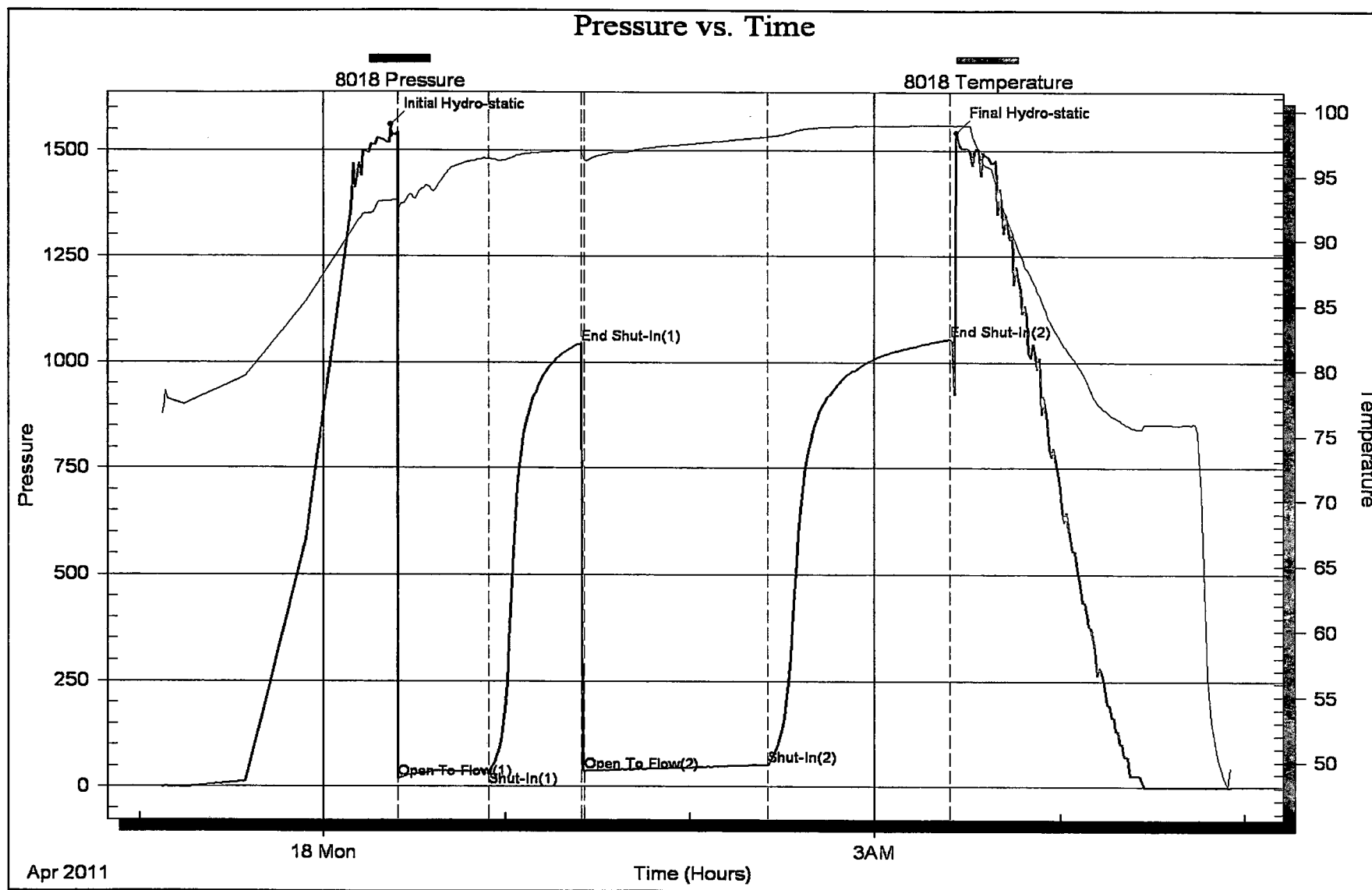
Num Gas Bombs: 0

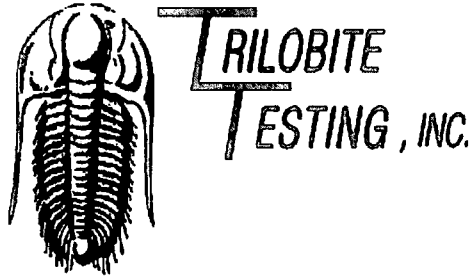
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API:38 @ 50 Degrees F = 39





DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.18 @ 11:20:00

End Date: 2011.04.18 @ 17:05:30

Job Ticket #: 43112 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O. Farmer Inc

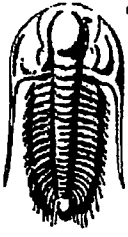
Bredemeier A#1

S184s18w Phillips,KS

DST # 4

LKC E-F

2011.04.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43112 **DST#: 4**

ATTN: Steve Murphy

Test Start: 2011.04.18 @ 11:20:00

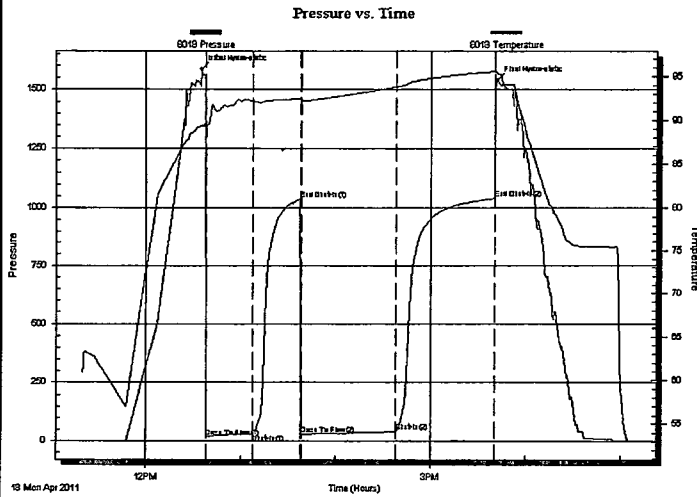
GENERAL INFORMATION:

Formation: **LKC 'E-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:38:00
 Time Test Ended: 17:05:30
 Interval: **3204.00 ft (KB) To 3230.00 ft (KB) (TVD)**
 Total Depth: **3230.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**
 Tester: **Chuck Smith**
 Unit No: **37**
 Reference Elevations: **1930.00 ft (KB)**
1922.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8018 **Inside**
 Press@RunDepth: **41.22 psig @ 3227.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.04.18** End Date: **2011.04.18** Last Calib.: **2011.04.18**
 Start Time: **11:20:05** End Time: **17:05:29** Time On Btm: **2011.04.18 @ 12:34:40**
 Time Off Btm: **2011.04.18 @ 15:42:00**

TEST COMMENT: IF: 3 1/2" Blow.
 IS: Weak surface return.
 FF: 8 1/2" Blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.64	89.40	Initial Hydro-static
4	18.24	88.97	Open To Flow (1)
33	30.28	92.11	Shut-In(1)
63	1038.43	92.43	End Shut-In(1)
64	27.84	92.14	Open To Flow (2)
124	41.22	93.76	Shut-In(2)
186	1040.23	95.51	End Shut-In(2)
188	1538.90	95.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 15o 85m	0.57
10.00	CGO 10g 90o	0.14
0.00	50 Feet weak GIP	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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43112

DST#: 4

ATTN: Steve Murphy

Test Start: 2011.04.18 @ 11:20:00

Tool Information

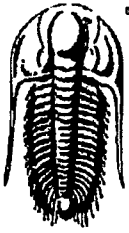
Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 44.63 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.50 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3204.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.50 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			3177.50	
Shut In Tool	5.00			3182.50	
Hydraulic tool	5.00			3187.50	
Jars	5.00			3192.50	
Safety Joint	2.50			3195.00	
Packer	5.00			3200.00	27.50 Bottom Of Top Packer
Packer	4.00			3204.00	
Stubb	1.00			3205.00	
Perforations	22.00			3227.00	
Recorder	0.00	8018	Inside	3227.00	
Recorder	0.00	6751	Outside	3227.00	
Bullnose	3.00			3230.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43112

DST#: 4

ATTN: Steve Murphy

Test Start: 2011.04.18 @ 11:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
60.00	OCM 15o 85m	0.568
10.00	CGO 10g 90o	0.140
0.00	50 Feet weak GIP	0.000

Total Length: 70.00 ft Total Volume: 0.708 bbl

Num Fluid Samples: 0

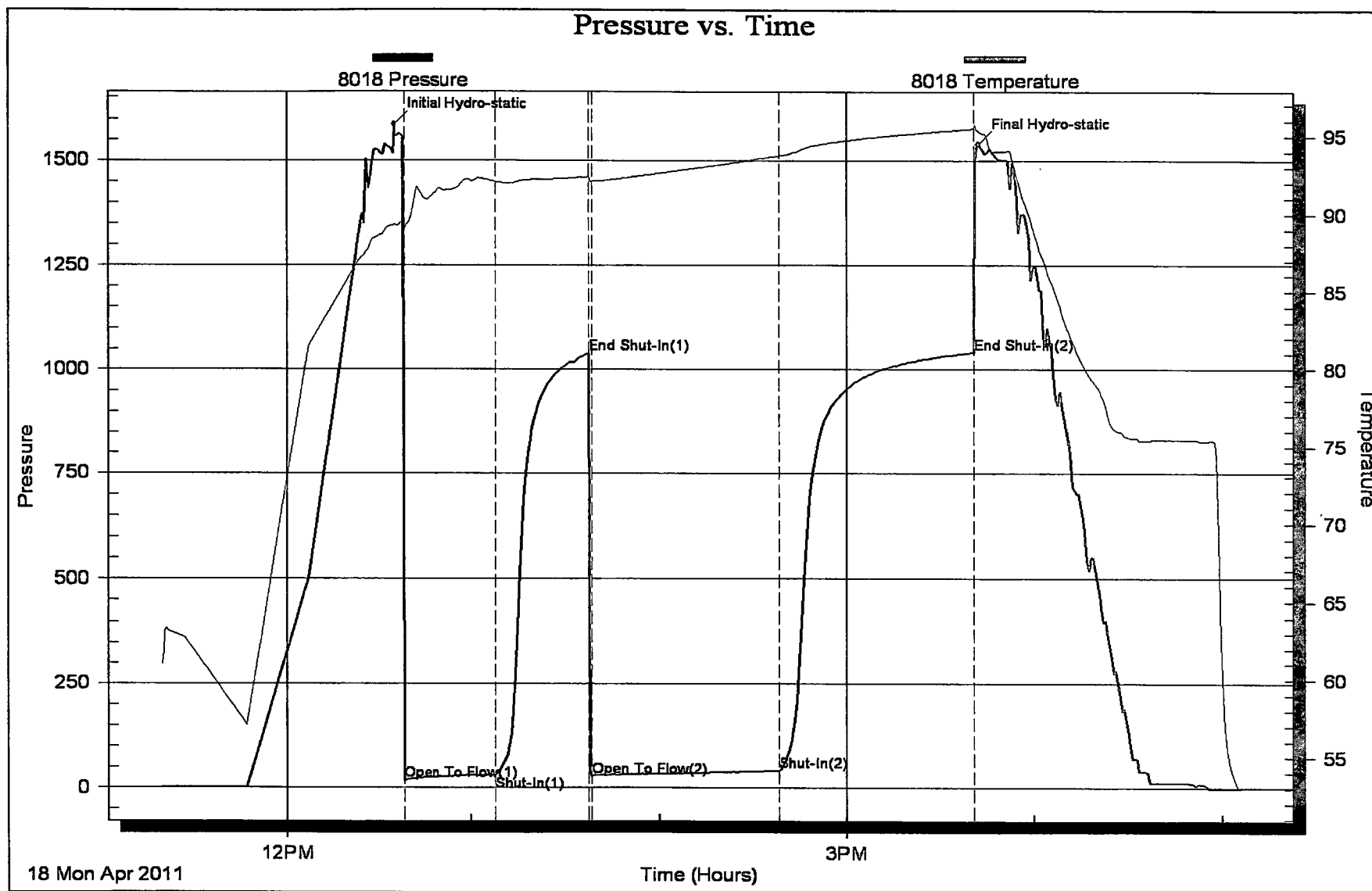
Num Gas Bombs: 0

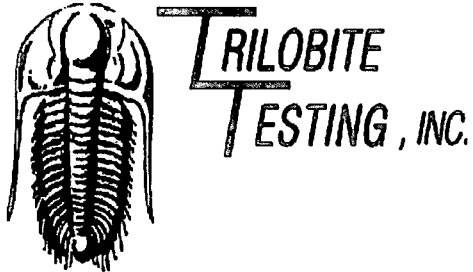
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 40 @ 60 Degrees F = 40.





DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.19 @ 00:41:00

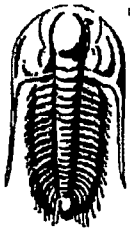
End Date: 2011.04.19 @ 06:52:09

Job Ticket #: 43113 DST #: 5

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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43113 DST#: 5

ATTN: Steve Murphy

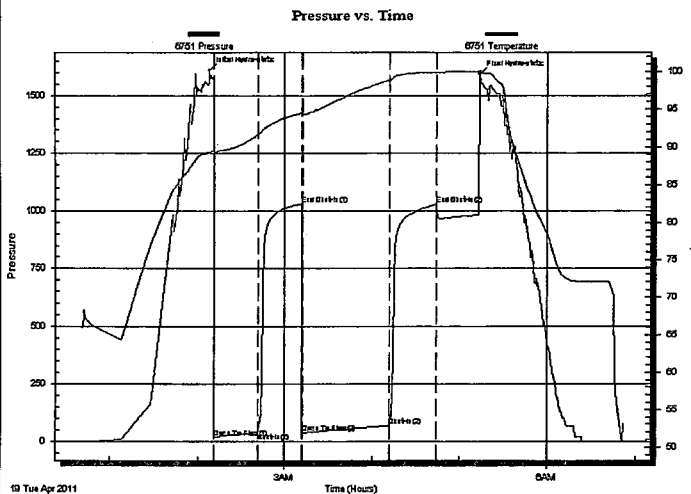
Test Start: 2011.04.19 @ 00:41:00

GENERAL INFORMATION:

Formation: LKC 'G'
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:11:30
 Time Test Ended: 06:52:09
 Interval: 3232.00 ft (KB) To 3242.00 ft (KB) (TVD)
 Total Depth: 3242.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 1930.00 ft (KB)
 1922.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6751 Outside
 Press@RunDepth: 67.60 psig @ 3239.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.04.19 End Date: 2011.04.19 Last Calib.: 2011.04.19
 Start Time: 00:41:05 End Time: 06:52:10 Time On Btm: 2011.04.19 @ 02:08:10
 Time Off Btm: 2011.04.19 @ 05:13:09

TEST COMMENT: IF: B.O.B. @ 26 min.
 IS: No return.
 FF: B.O.B. @ 25 min.
 FS: 1" Return.



PRESSURE SUMMARY

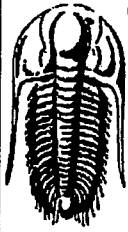
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.26	89.37	Initial Hydro-static
4	18.61	88.98	Open To Flow (1)
34	36.99	91.56	Shut-In(1)
64	1031.90	94.43	End Shut-In(1)
64	36.98	94.15	Open To Flow (2)
124	67.60	98.86	Shut-In(2)
156	1030.80	99.88	End Shut-In(2)
185	1591.11	100.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	CGO 15g 85o	0.99
60.00	GMCO 5g 25m 70o	0.84
0.00	150 Feet GIP	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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43113

DST#: 5

ATTN: Steve Murphy

Test Start: 2011.04.19 @ 00:41:00

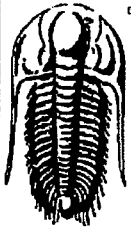
Tool Information

Drill Pipe:	Length: 3200.00 ft	Diameter: 3.80 inches	Volume: 44.89 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 45.04 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.50 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3232.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3205.50	
Shut In Tool	5.00			3210.50	
Hydraulic tool	5.00			3215.50	
Jars	5.00			3220.50	
Safety Joint	2.50			3223.00	
Packer	5.00			3228.00	27.50 Bottom Of Top Packer
Packer	4.00			3232.00	
Stubb	1.00			3233.00	
Perforations	6.00			3239.00	
Recorder	0.00	8018	Inside	3239.00	
Recorder	0.00	6751	Outside	3239.00	
Bullnose	3.00			3242.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43113 **DST#: 5**

ATTN: Steve Murphy

Test Start: 2011.04.19 @ 00:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 39 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

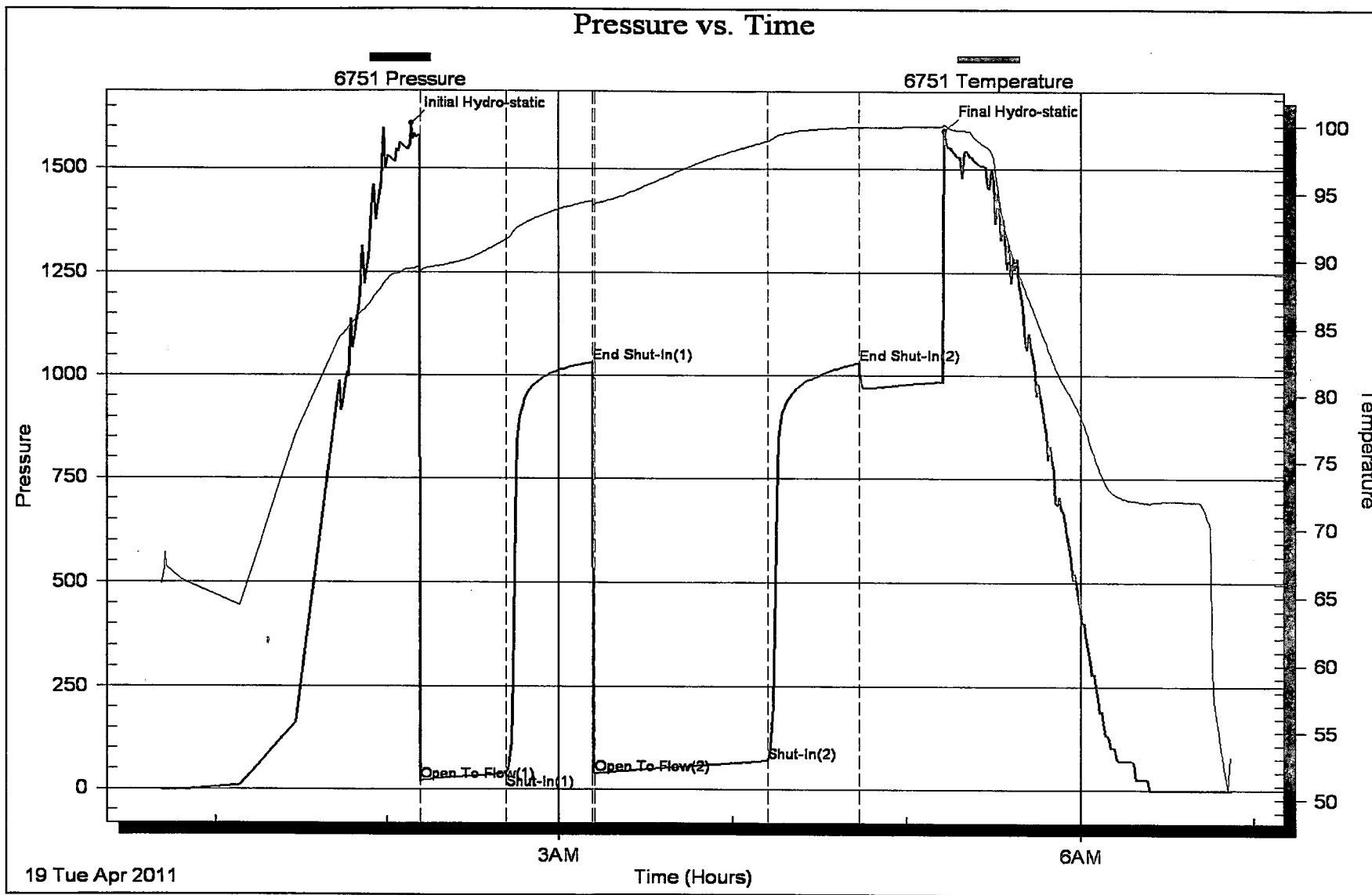
Length ft	Description	Volume bbl
90.00	CGO 15g 85o	0.989
60.00	GMCO 5g 25m 70o	0.842
0.00	150 Feet GIP	0.000

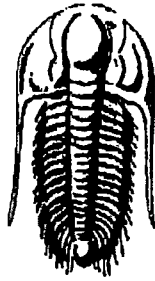
Total Length: 150.00 ft Total Volume: 1.831 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API: 39 @ 60 Degrees F





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Steve Murphy

S184s18w Phillips,KS

Bredemeier A#1

Start Date: 2011.04.19 @ 18:09:00

End Date: 2011.04.19 @ 23:13:20

Job Ticket #: 43114 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

John O. Farmer Inc

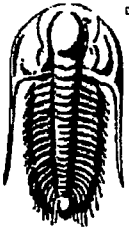
Bredemeier A#1

S184s18w Phillips,KS

DST # 6

LKC T-J-K

2011.04.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43114

DST#: 6

ATTN: Steve Murphy

Test Start: 2011.04.19 @ 18:09:00

GENERAL INFORMATION:

Formation: LKC 'I-J-K'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:31:00

Time Test Ended: 23:13:20

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 3278.00 ft (KB) To 3336.00 ft (KB) (TVD)

Reference Elevations: 1930.00 ft (KB)

Total Depth: 3336.00 ft (KB) (TVD)

1922.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 27.91 psig @ 3301.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.19

End Date: 2011.04.19

Last Calib.: 2011.04.19

Start Time: 18:09:05

End Time: 23:13:20

Time On Btm: 2011.04.19 @ 19:27:10

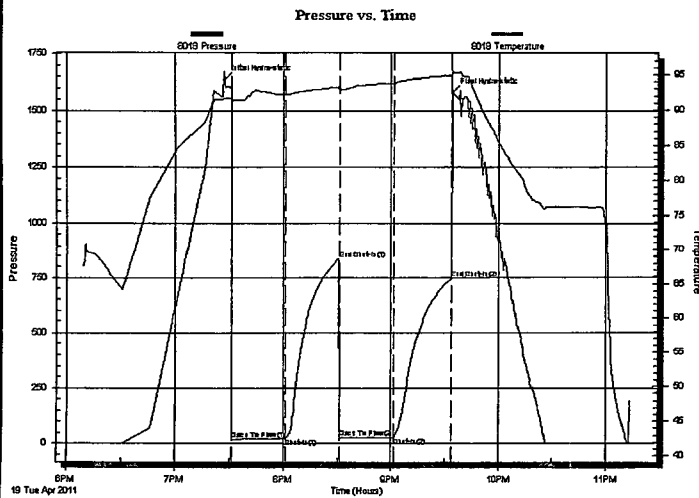
Time Off Btm: 2011.04.19 @ 21:34:20

TEST COMMENT: IF: 1/2" Blow receded to surface blow.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

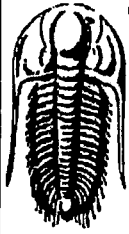
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.44	91.66	Initial Hydro-static
4	18.67	91.00	Open To Flow (1)
34	24.31	92.22	Shut-In(1)
64	836.95	93.27	End Shut-In(1)
65	26.40	92.83	Open To Flow (2)
95	27.91	93.82	Shut-In(2)
127	747.43	94.92	End Shut-In(2)
128	1582.31	95.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100m	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

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43114

DST#: 6

ATTN: Steve Murphy

Test Start: 2011.04.19 @ 18:09:00

Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.50 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3278.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

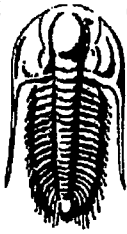
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3251.50	
Shut In Tool	5.00			3256.50	
Hydraulic tool	5.00			3261.50	
Jars	5.00			3266.50	
Safety Joint	2.50			3269.00	
Packer	5.00			3274.00	27.50 Bottom Of Top Packer
Packer	4.00			3278.00	
Stubb	1.00			3279.00	
Perforations	22.00			3301.00	
Recorder	0.00	8018	Inside	3301.00	
Recorder	0.00	6751	Outside	3301.00	
Change Over Sub	1.00			3302.00	
Drill Pipe	30.00			3332.00	
Change Over Sub	1.00			3333.00	
Bullnose	3.00			3336.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

Bredemeier A#1

PO Box 352
Russell, KS 67665

S184s18w Phillips,KS

Job Ticket: 43114

DST#: 6

ATTN: Steve Murphy

Test Start: 2011.04.19 @ 18:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

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	OSM 100m	0.025

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:

