

**WELL COMPLETION FORM**
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

 Yes No

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West_____ Feet from North / South Line of Section_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

 NE NW SE SWGPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY Confidentiality Requested

Date: _____

 Confidential Release Date: _____ Wireline Log Received Geologist Report Received UIC DistributionALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Camp Unit 1
Doc ID	1227022

All Electric Logs Run

Dual Compensated Porosity Log
Microresistivity Log
Dual Induction Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Camp Unit 1
Doc ID	1227022

Tops

Name	Top	Datum
Anhydrite	744'	(+1008)
Tarkio	2362'	(-610)
Topeka	2628'	(-876)
Heebner	2860'	(-1108)
Lansing	2922'	(-1170)
Base/KC	3154'	(-1402)
Arbuckle	3177'	(-1425)
L.T.D.	3268'	(-1516)

Summary of Changes

Lease Name and Number: Camp Unit 1

API/Permit #: 15-167-23890-00-00

Doc ID: 1227022

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	08/05/2014	10/09/2014
Completion Or Recompletion Date	04/25/2014	05/16/2014
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1216916	../kcc/detail/operatorEditDetail.cfm?docID=1227022



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1216916
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

CONFIDENTIAL WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Camp Unit 1
Doc ID	1216916

All Electric Logs Run

Dual Compensated Porosity Log
Microresistivity Log
Dual Induction Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Camp Unit 1
Doc ID	1216916

Tops

Name	Top	Datum
Anhydrite	744'	(+1008)
Tarkio	2362'	(-610)
Topeka	2628'	(-876)
Heebner	2860'	(-1108)
Lansing	2922'	(-1170)
Base/KC	3154'	(-1402)
Arbuckle	3177'	(-1425)
L.T.D.	3268'	(-1516)

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Camp Unit 1
Doc ID	1216916

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3180-88' (Arbuckle)	None - completed natural	



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
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 - 2635 Hays, KS 67601

Lease: Camp Unit # 1 Location: 330 FSL - ³⁰⁰~~265~~FWL
W/2-SW-SW-SW
Section 35/ 14S/ 14W
Russell County, KS

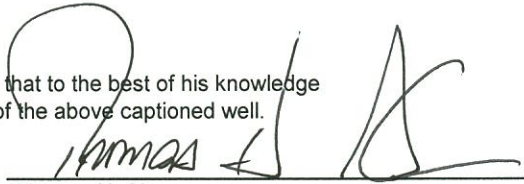
Loggers Total Depth: 3268' API#15- 167-23,890-00-00
Rotary Total Depth: 3270' Elevation: 1744 GL - 1752 KB
Commenced: 4/27/2014 Completed: 4/25/2014
Casing: 8 5/8" @ ⁴⁷³~~468~~W/225sks Status: Oilwell
5 1/2" @ 3265.18'W/130sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>781'</u>
Dakota Sand	<u>377'</u>	Shale & Lime	<u>1408'</u>
Shale	<u>398'</u>	Shale	<u>1756'</u>
Cedar Hill Sand	<u>405'</u>	Shale & Lime	<u>2429'</u>
Red Bed Shale	<u>571'</u>	Lime & Shale	<u>2867'</u>
Anhydrite	<u>748'</u>	RTD	<u>3270'</u>
Base Anhydrite	<u>781'</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.

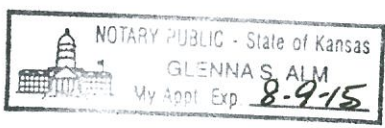

Thomas H. Alm

Subscribed and sworn to before me on 4-29-14

My Commission expires: 8-9-15

(Place stamp or seal below)


Notary Public



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 161

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-18-14	35	14	14	Russell	KS		11:00 AM

Location Russell 7 1/2 S E into

Lease	Camp Unit	Well No. #1	Owner
Contractor	Discovery # 2		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 <u>John O Farmer</u>
Hole Size	12 1/4	T.D. 473	Street
Csg.	8 5/8	Depth 473	City
Tbg. Size		Depth	State
Tool		Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	30'	Shoe Joint	Cement Amount Ordered <u>250 com 3% cc 2% Gel</u>
Meas Line		Displace <u>28 1/4 bbl</u>	

EQUIPMENT

Pumptrk	5	No.	Cementer	Helper	<u>David</u>	Common	<u>250</u>
Bulktrk	3	No.	Driver	<u>Clayton</u>		Poz. Mix	
Bulktrk	<u>Pu</u>	No.	Driver	<u>Brett</u>		Gel.	<u>5</u>
			Driver			Calcium	<u>9</u>

JOB SERVICES & REMARKS

Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling <u>264</u>
		Mileage <u>8 5/8</u>
		FLOAT EQUIPMENT
		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down
		<u>Wood Plug-1</u>
		Pumptrk Charge <u>Surface</u>
		Mileage <u>7</u>

Cement

Circulated!!

Cementing

X Signature Paul White

Tax
Discount
Total Charge

JOB LOG

SWIFT Services, Inc.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
John U. Farmer		#1		Camp Unit		Logging		25482	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0345							on loc w/FE	
								RTD 3270' LTD 3268'	
								5 1/2" x 14 # x 3268' x 23'	
								Cent. 1, 3, 5, 7, 9, 11, 13	
								Back 2, 12	
	0445							Start FE	
	0630							Break Circ	
	0700	2	7 1/4					Plug RH & MH 30/15 sks EA-2	
	0710	5	0			200		Start Mud Flush 500 gal	
		5	12/0			200		Start K.C.L Flush 2 cbb1	
		5	20/0			200		Start 130 sks EA-2	
	0725		32					End Cement	
								Wash P/L	
								Drop L-D Plug	
	0731	6	0			200		Start Displacement	
	0740	5	52			250		Catch Cement	
	0745		79			600 / 1200		Land Plug	
								Release Pressure	
								Float Hold	
Thank you!									
Nick, David E. & J.S.									



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Camp Unit #1

35 14s 14w Russell,KS

Start Date: 2014.04.21 @ 22:14:00

End Date: 2014.04.22 @ 05:00:00

Job Ticket #: 57596 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.25 @ 14:02:31

John O Farmer Inc
35 14s 14w Russell,KS
Camp Unit #1
DST # 1
LKC " C "
2014.04.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57596

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.21 @ 22:14:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:15

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 2928.00 ft (KB) To 2968.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 2968.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 28.66 psig @ 2933.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.21

End Date:

2014.04.22

Last Calib.:

2014.04.22

Start Time: 22:14:02

End Time:

05:00:00

Time On Btm:

2014.04.22 @ 00:20:00

Time Off Btm:

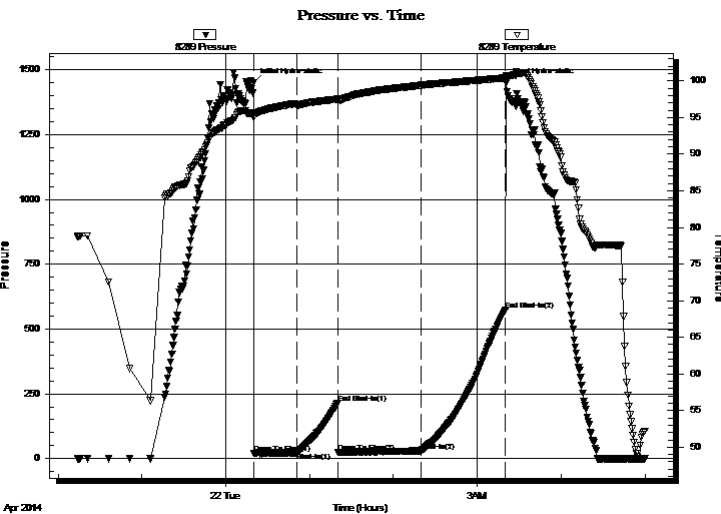
2014.04.22 @ 03:20:45

TEST COMMENT: 30-IFP- Packer Failed on 1st Open 2nd Open Good Seat Surface Blow Building to 9"

30-ISIP- No Blow

60-FFP- BOB in 9 min.

60-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1449.49	95.51	Initial Hydro-static
1	19.95	95.02	Open To Flow (1)
31	22.33	96.66	Shut-In(1)
60	213.83	97.50	End Shut-In(1)
61	23.11	97.43	Open To Flow (2)
120	28.66	99.39	Shut-In(2)
181	573.24	100.41	End Shut-In(2)
181	1448.86	100.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 20%o 80%m	0.56
0.00	270 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell,KS

PO Box 352
Russell KS 67665

Camp Unit #1

ATTN: Austin Klaus

Job Ticket: 57596

DST#: 1

Test Start: 2014.04.21 @ 22:14:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:20:15

Time Test Ended: 05:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 2928.00 ft (KB) To 2968.00 ft (KB) (TVD)

Total Depth: 2968.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1752.00 ft (KB)

1744.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: psig @ 2933.00 ft (KB)

Start Date: 2014.04.21

Start Time: 22:14:02

End Date:

End Time:

Capacity: 8000.00 psig

Last Calib.:

Time On Btm:

Time Off Btm:

2014.04.22

2014.04.22

04:59:45

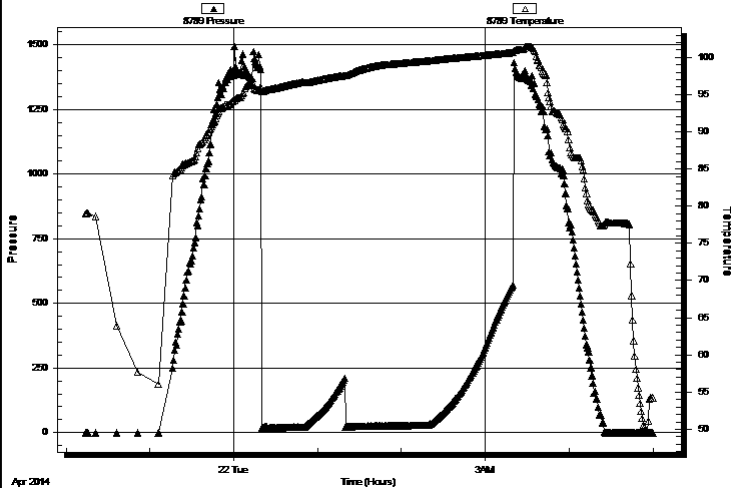
TEST COMMENT: 30-IFP- Packer Failed on 1st Open 2nd Open Good Seat Surface Blow Building to 9"

30-ISIP- No Blow

60-FFP- BOB in 9 min.

60-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 20%o 80%m	0.56
0.00	270 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

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57596

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.21 @ 22:14:00

Tool Information

Drill Pipe:	Length: 2941.00 ft	Diameter: 3.80 inches	Volume: 41.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 41.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	2928.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2908.00	
Shut In Tool	5.00			2913.00	
Hydraulic tool	5.00			2918.00	
Packer	5.00			2923.00	21.00 Bottom Of Top Packer
Packer	5.00			2928.00	
Stubb	1.00			2929.00	
Perforations	3.00			2932.00	
Change Over Sub	1.00			2933.00	
Recorder	0.00	8789	Inside	2933.00	
Recorder	0.00	8289	Outside	2933.00	
Blank Spacing	31.00			2964.00	
Change Over Sub	1.00			2965.00	
Bullnose	3.00			2968.00	40.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57596

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.21 @ 22:14:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 20%o 80%m	0.561
0.00	270 GIP	0.000

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

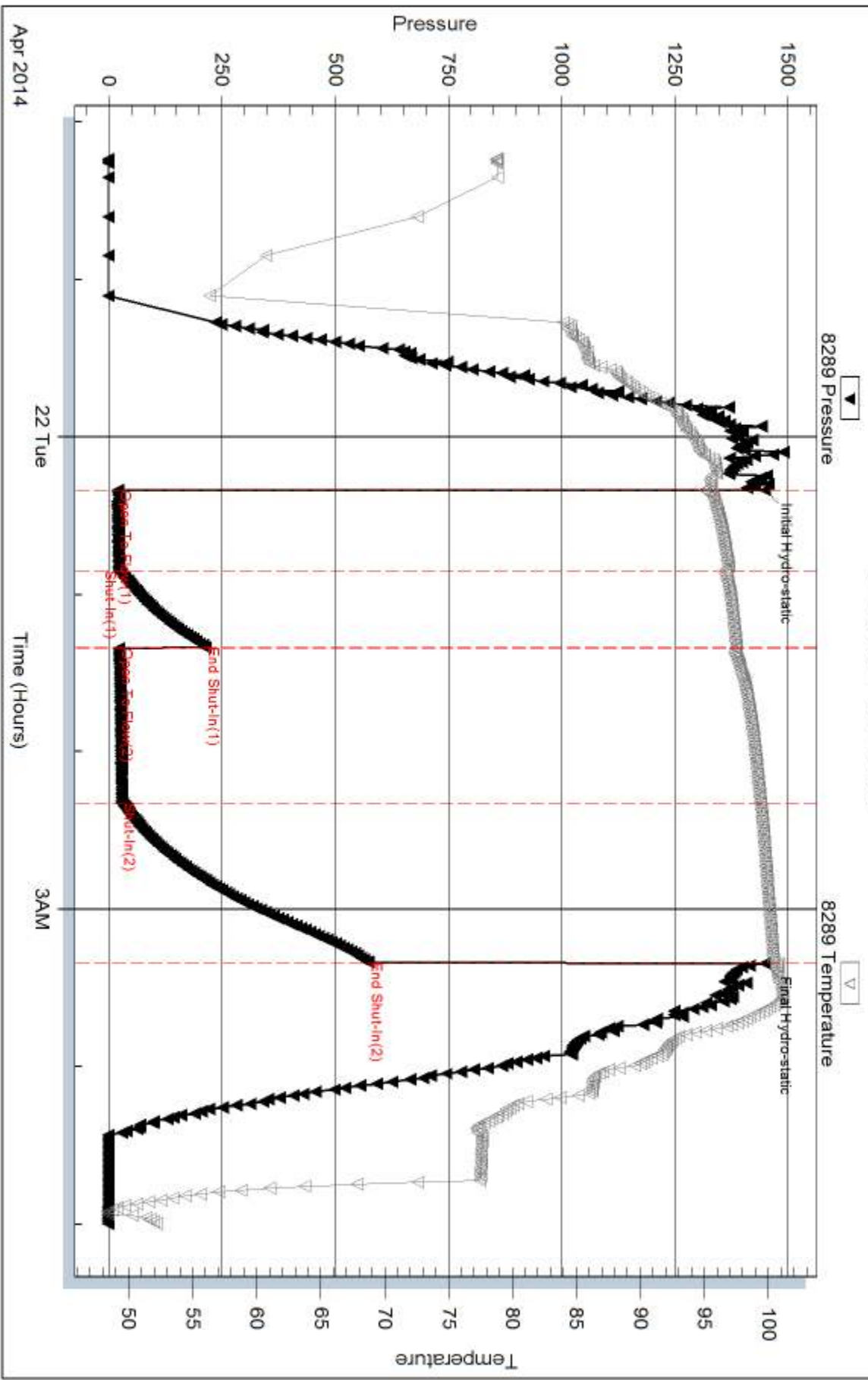
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



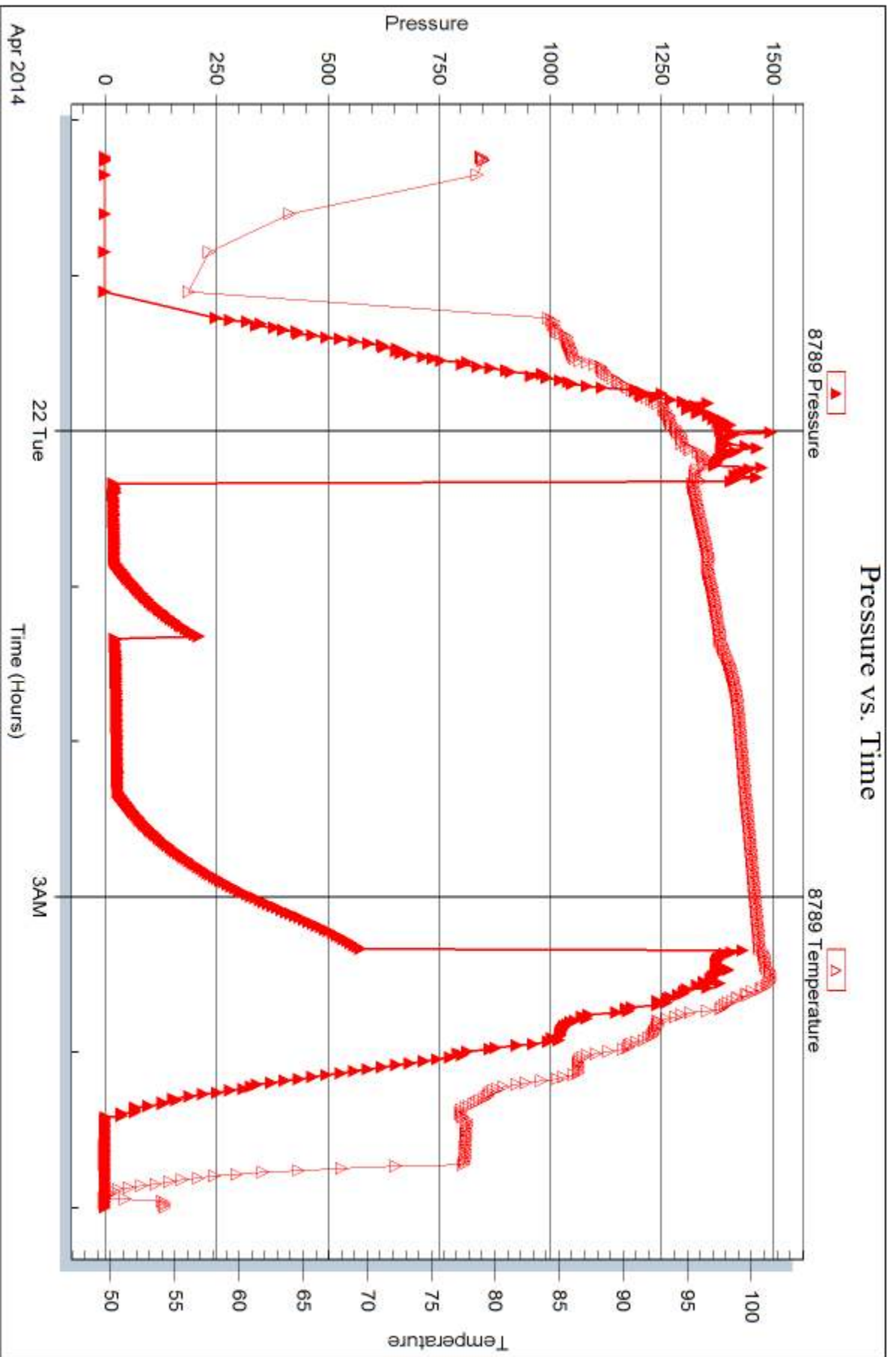
Serial #: 8789

Inside

John O Farmer Inc

Camp Unit #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 57596

Printed: 2014.04.25 @ 14:02:32



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Camp Unit #1

35 14s 14w Russell,KS

Start Date: 2014.04.22 @ 12:38:00

End Date: 2014.04.22 @ 18:42:00

Job Ticket #: 57597 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.25 @ 14:02:00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57597

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.22 @ 12:38:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:15

Time Test Ended: 18:42:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 2989.00 ft (KB) To 3018.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3018.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 44.86 psig @ 2990.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.22 End Date: 2014.04.22

Last Calib.: 2014.04.22

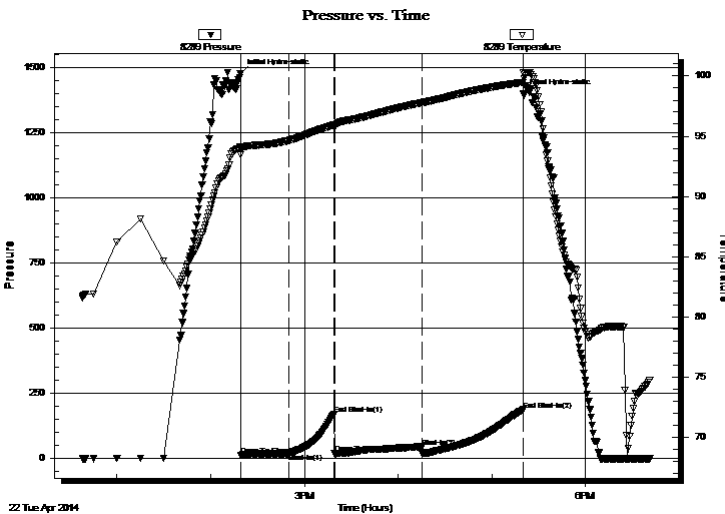
Start Time: 12:38:02 End Time: 18:41:00

Time On Btm: 2014.04.22 @ 14:19:00

Time Off Btm: 2014.04.22 @ 17:20:15

TEST COMMENT: 30-IFP- Surface Blow Building to 2 3/4"
30-ISIP- No Blow
60-FFP- Surface Blow 3 1/4"
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1475.13	94.14	Initial Hydro-static
1	12.67	93.44	Open To Flow (1)
31	20.04	94.64	Shut-In(1)
60	169.24	95.92	End Shut-In(1)
61	18.86	95.86	Open To Flow (2)
117	44.86	97.79	Shut-In(2)
181	186.90	99.48	End Shut-In(2)
182	1399.29	100.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil Speck WCM 25%w 75%m	0.42

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57597

DST#: 2

ATTN: Austin Klaus

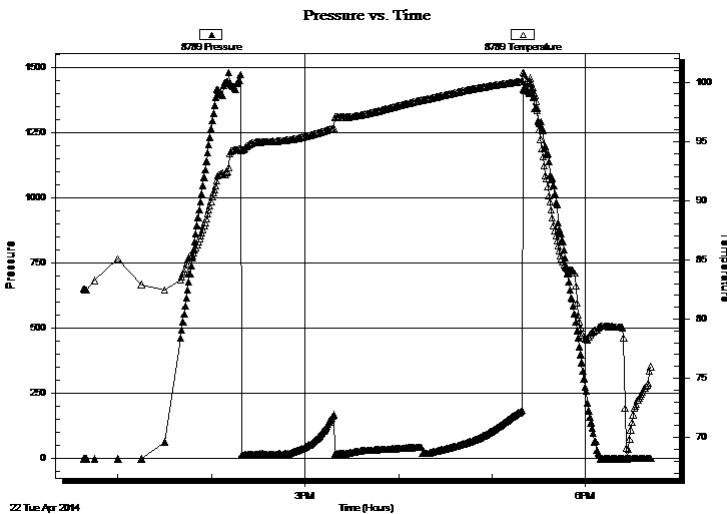
Test Start: 2014.04.22 @ 12:38:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:19:15
 Time Test Ended: 18:42:00
Interval: 2989.00 ft (KB) To 3018.00 ft (KB) (TVD)
 Total Depth: 3018.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 1752.00 ft (KB)
 1744.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8789 Inside
 Press@RunDepth: psig @ 2990.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.22 End Date: 2014.04.22 Last Calib.: 2014.04.22
 Start Time: 12:38:02 End Time: 18:41:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 2 3/4"
 30-ISIP- No Blow
 60-FFP- Surface Blow 3 1/4"
 60-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil Speck WCM 25%w 75%m	0.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57597

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.22 @ 12:38:00

Tool Information

Drill Pipe:	Length: 2973.00 ft	Diameter: 3.80 inches	Volume: 41.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 41.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	2989.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2969.00	
Shut In Tool	5.00			2974.00	
Hydraulic tool	5.00			2979.00	
Packer	5.00			2984.00	21.00 Bottom Of Top Packer
Packer	5.00			2989.00	
Stubb	1.00			2990.00	
Recorder	0.00	8789	Inside	2990.00	
Recorder	0.00	8289	Outside	2990.00	
Perforations	25.00			3015.00	
Bullnose	3.00			3018.00	29.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57597

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.22 @ 12:38:00

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:

15000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Oil Speck WCM 25%w 75%m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

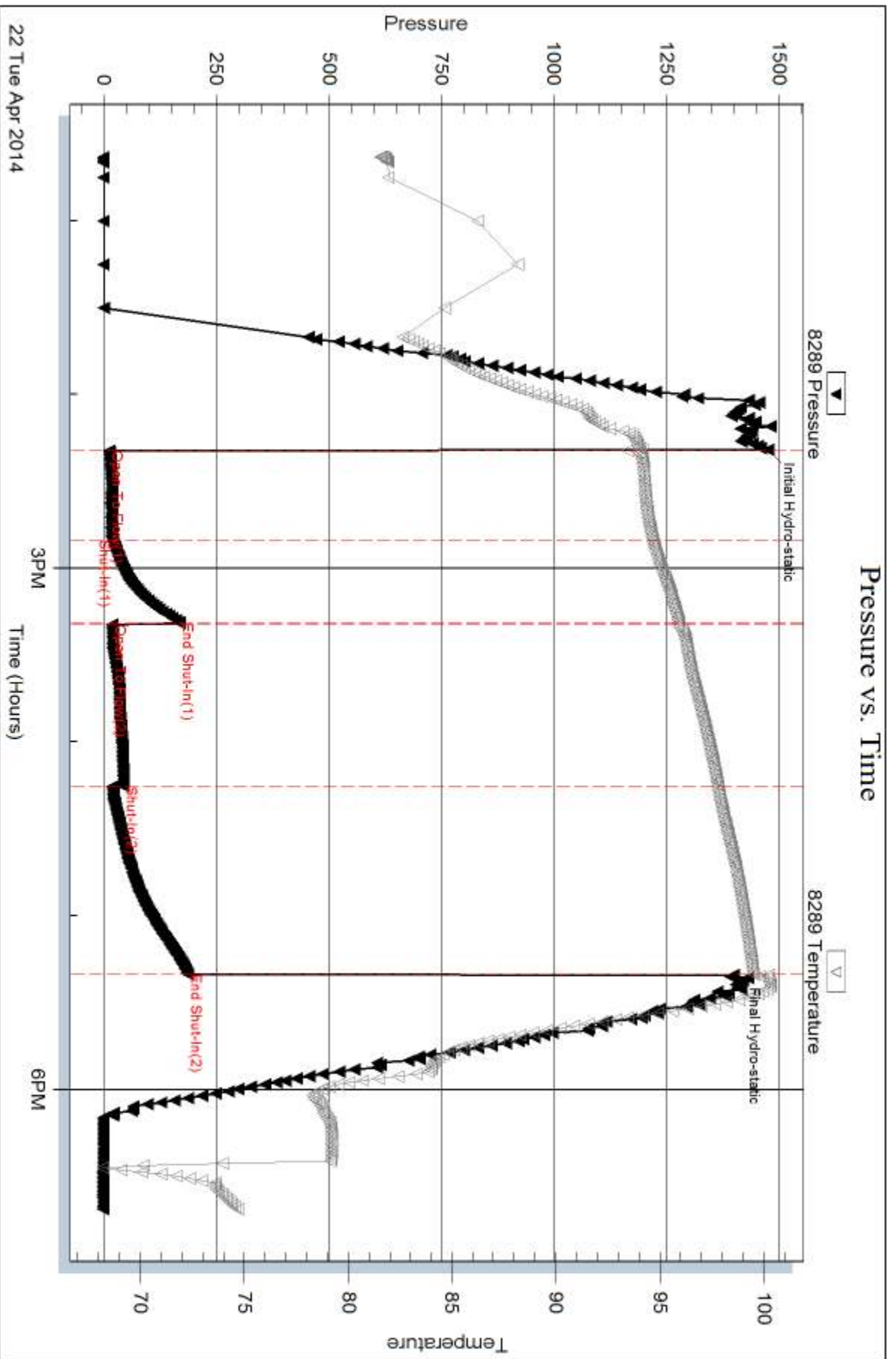
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .392 @ 77



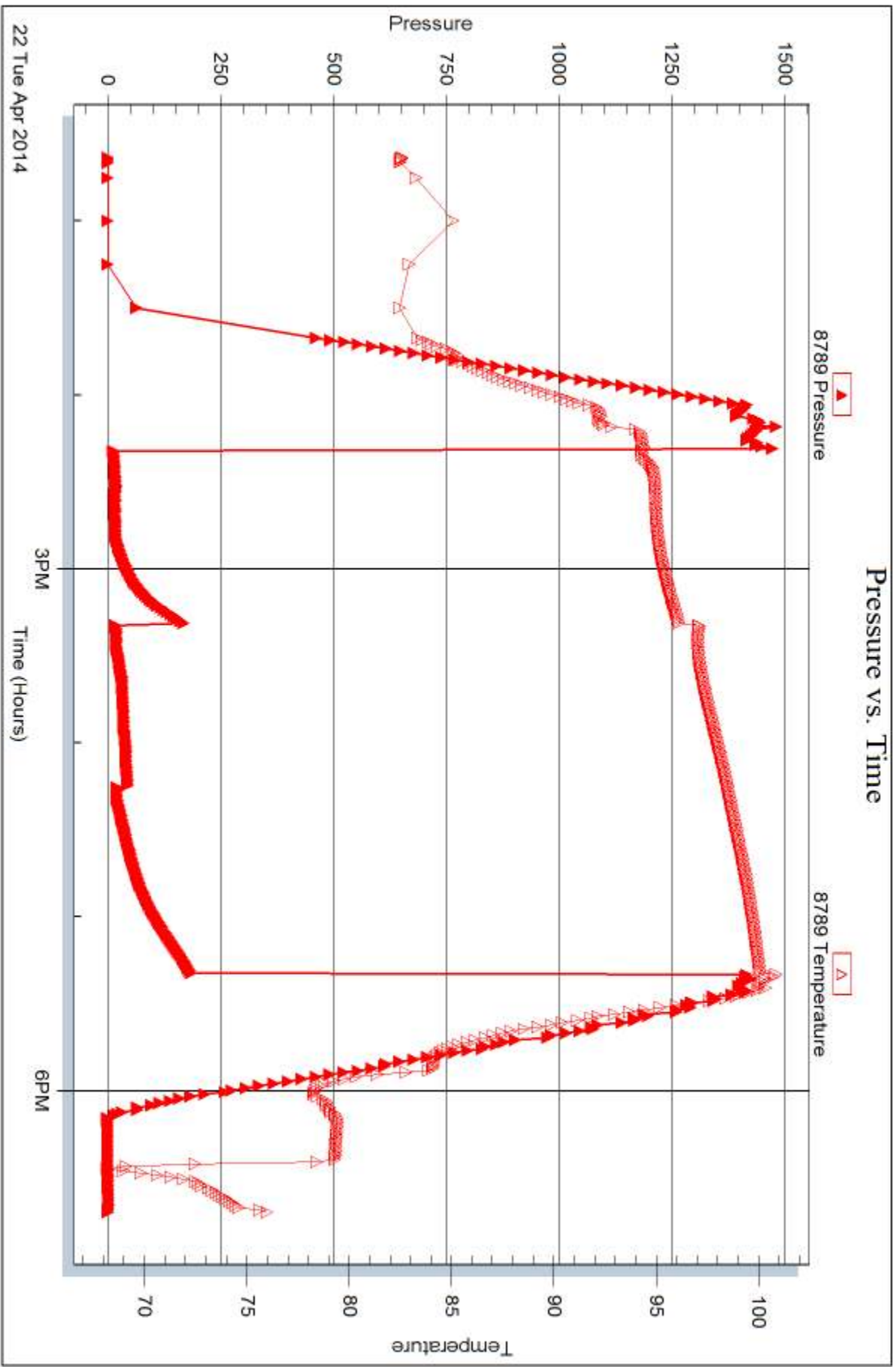
Serial #: 8789

Inside

John O Farmer Inc

Camp Unit #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Camp Unit #1

35 14s 14w Russell,KS

Start Date: 2014.04.23 @ 04:09:00

End Date: 2014.04.23 @ 10:15:00

Job Ticket #: 57598 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.25 @ 14:00:48



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell,KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57598

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 04:09:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:45

Time Test Ended: 10:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3021.00 ft (KB) To 3068.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3068.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 79.98 psig @ 3033.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.23

End Date:

2014.04.23

Last Calib.:

2014.04.23

Start Time: 04:09:02

End Time:

10:15:00

Time On Btm:

2014.04.23 @ 05:44:30

Time Off Btm:

2014.04.23 @ 08:44:45

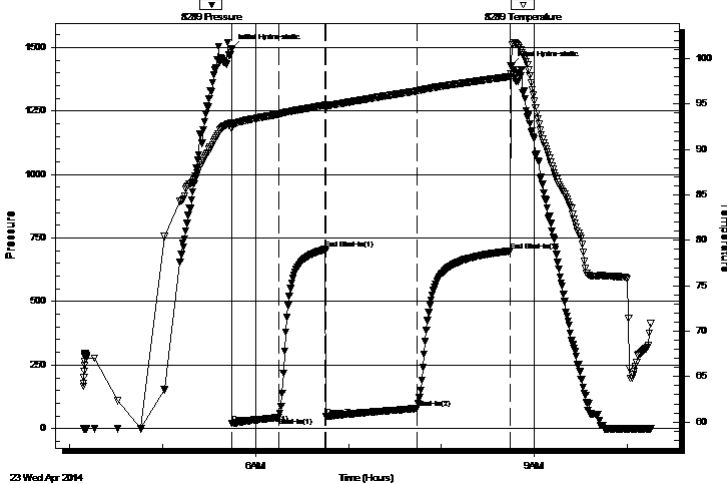
TEST COMMENT: 30-IFP- Surface Blow Building to 7"

30-ISIP- No Blow

60-FFP- Surface Blow Building to 8"

60-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.34	92.91	Initial Hydro-static
1	20.77	92.27	Open To Flow (1)
31	43.49	93.88	Shut-In(1)
61	705.12	94.86	End Shut-In(1)
61	46.69	94.63	Open To Flow (2)
120	79.98	96.44	Shut-In(2)
180	698.74	98.02	End Shut-In(2)
181	1428.64	98.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
127.00	OSMCW 5% m 95% w	1.78

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57598

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 04:09:00

GENERAL INFORMATION:

Formation: **LKC " G "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:45

Time Test Ended: 10:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3021.00 ft (KB) To 3068.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3068.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3033.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.23

End Date:

2014.04.23

Last Calib.:

2014.04.23

Start Time: 04:09:02

End Time:

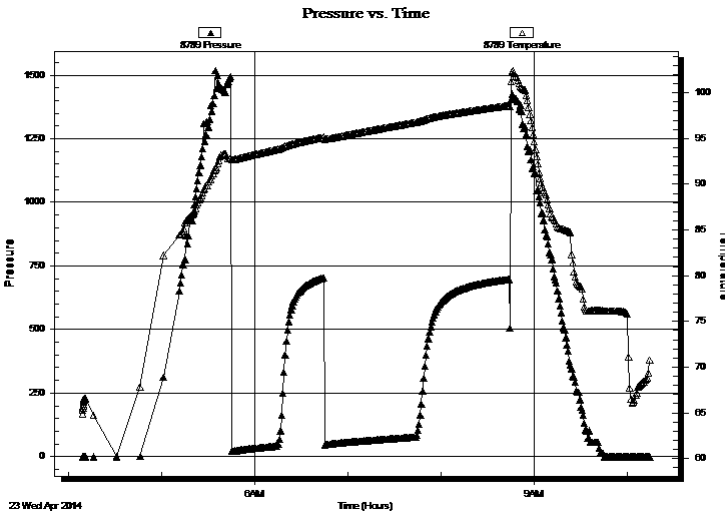
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 7"
30-ISIP- No Blow
60-FFP- Surface Blow Building to 8"
60-FSIP- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
127.00	OSMCW 5% m 95% w	1.78

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57598

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 04:09:00

Tool Information

Drill Pipe:	Length: 3004.00 ft	Diameter: 3.80 inches	Volume: 42.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 42.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3021.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 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
Change Over Sub	1.00			3001.00	
Shut In Tool	5.00			3006.00	
Hydraulic tool	5.00			3011.00	
Packer	5.00			3016.00	21.00 Bottom Of Top Packer
Packer	5.00			3021.00	
Stubb	1.00			3022.00	
Perforations	10.00			3032.00	
Change Over Sub	1.00			3033.00	
Recorder	0.00	8789	Inside	3033.00	
Recorder	0.00	8289	Outside	3033.00	
Blank Spacing	31.00			3064.00	
Change Over Sub	1.00			3065.00	
Bullnose	3.00			3068.00	47.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57598

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 04:09:00

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:

23000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
127.00	OSMCW 5% _m 95% _w	1.781

Total Length: 127.00 ft Total Volume: 1.781 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .297 @ 70

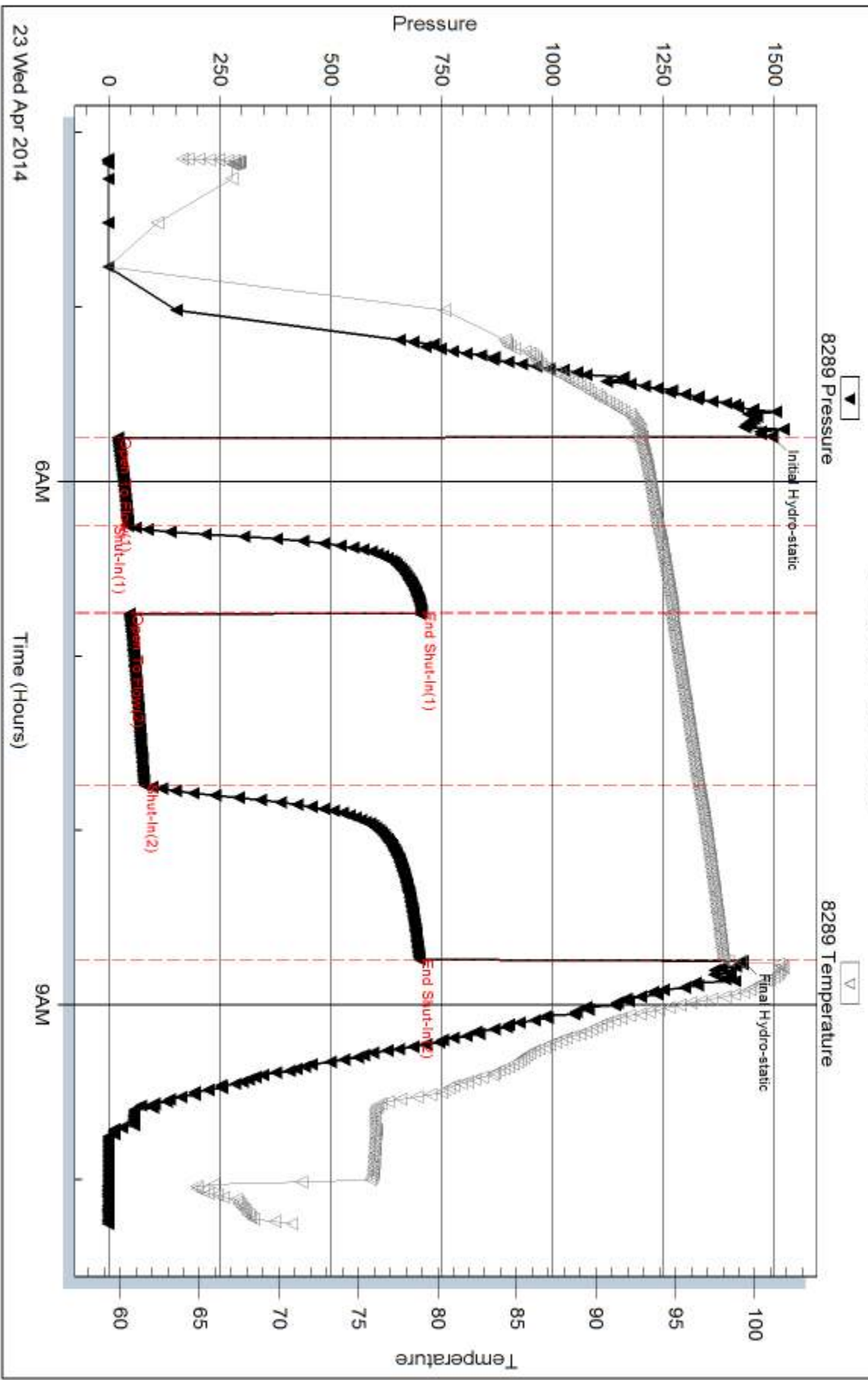
Serial #: 8289

Outside John O Farmer Inc

Camp Unit #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57598

Printed: 2014.04.25 @ 14:00:49

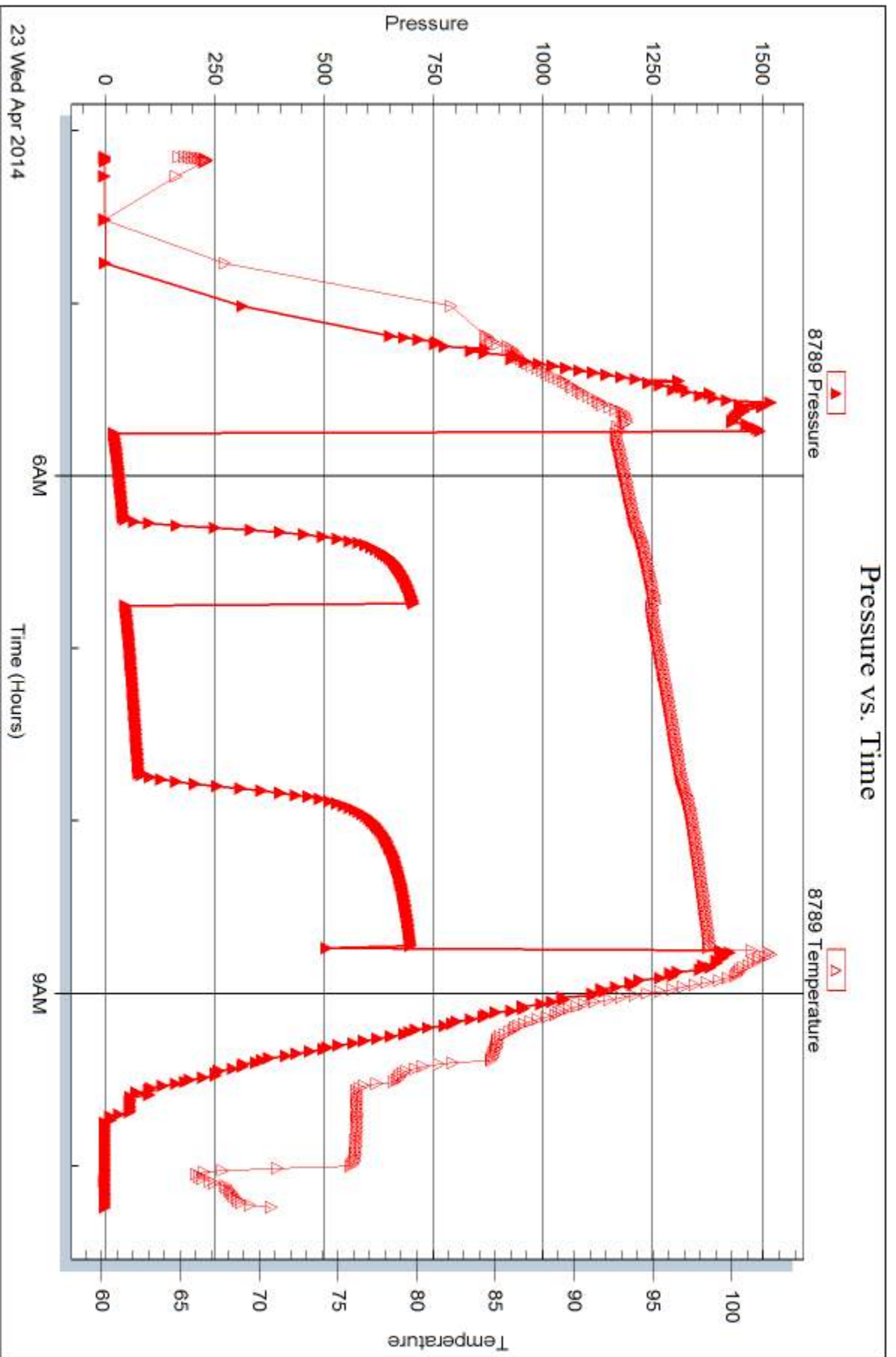
Serial #: 8789

Inside

John O Farmer Inc

Camp Unit #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 57598

Printed: 2014.04.25 @ 14:00:49



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Camp Unit #1

35 14s 14w Russell,KS

Start Date: 2014.04.23 @ 20:50:00

End Date: 2014.04.24 @ 03:31:00

Job Ticket #: 57599 DST #: 4

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

Printed: 2014.04.25 @ 14:00:15

John O Farmer Inc
35 14s 14w Russell,KS
Camp Unit #1
DST # 4
LKC " H - L "
2014.04.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57599

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 20:50:00

GENERAL INFORMATION:

Formation: **LKC " H - L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:41:45

Time Test Ended: 03:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3064.00 ft (KB) To 3156.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3156.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 55.97 psig @ 3066.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.23

End Date:

2014.04.24

Last Calib.:

2014.04.24

Start Time: 20:50:02

End Time:

03:31:00

Time On Btm:

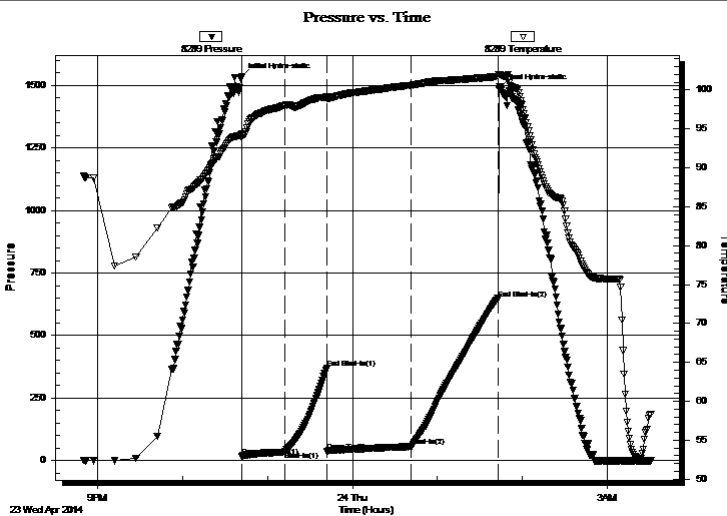
2014.04.23 @ 22:41:30

Time Off Btm:

2014.04.24 @ 01:43:15

TEST COMMENT: 30-IFP- BOB in 10 min.
30-ISIP- No Blow
60-FFP- BOB in 2 min.
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.59	94.36	Initial Hydro-static
1	15.87	93.90	Open To Flow (1)
31	34.80	98.02	Shut-In(1)
61	368.11	99.09	End Shut-In(1)
61	36.39	98.89	Open To Flow (2)
120	55.97	100.62	Shut-In(2)
181	648.02	101.72	End Shut-In(2)
182	1489.04	101.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 25%o 75% m	0.56
62.00	Gassy OCM 20%o 40%g 40% m	0.87
0.00	520 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57599

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 20:50:00

GENERAL INFORMATION:

Formation: **LKC " H - L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:41:45

Time Test Ended: 03:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3064.00 ft (KB) To 3156.00 ft (KB) (TVD)

Total Depth: 3156.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1752.00 ft (KB)

1744.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3066.00 ft (KB)

Start Date: 2014.04.23

End Date:

2014.04.24

Start Time: 20:50:02

End Time:

03:30:45

Capacity: 8000.00 psig

Last Calib.:

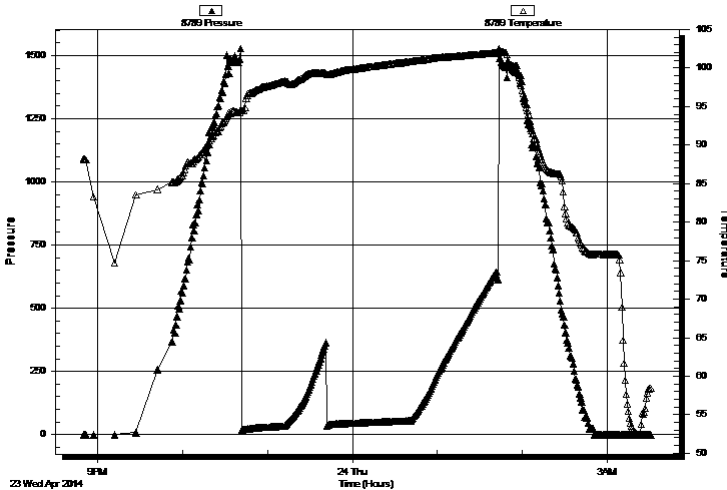
2014.04.24

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 10 min.
30-ISIP- No Blow
60-FFP- BOB in 2 min.
60-FSIP- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 25%o 75%m	0.56
62.00	Gassy OCM 20%o 40%g 40%m	0.87
0.00	520 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

35 14s 14w Russell,KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57599

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3068.00 ft	Diameter: 3.80 inches	Volume: 43.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 43.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3064.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3044.00	
Shut In Tool	5.00			3049.00	
Hydraulic tool	5.00			3054.00	
Packer	5.00			3059.00	21.00 Bottom Of Top Packer
Packer	5.00			3064.00	
Stubb	1.00			3065.00	
Perforations	1.00			3066.00	
Recorder	0.00	8789	Inside	3066.00	
Recorder	0.00	8289	Outside	3066.00	
Perforations	23.00			3089.00	
Change Over Sub	1.00			3090.00	
Blank Spacing	62.00			3152.00	
Change Over Sub	1.00			3153.00	
Bullnose	3.00			3156.00	92.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57599

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.23 @ 20:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 25%o 75%m	0.561
62.00	Gassy OCM 20%o 40%g 40%m	0.870
0.00	520 GIP	0.000

Total Length: 102.00 ft

Total Volume: 1.431 bbl

Num Fluid Samples: 0

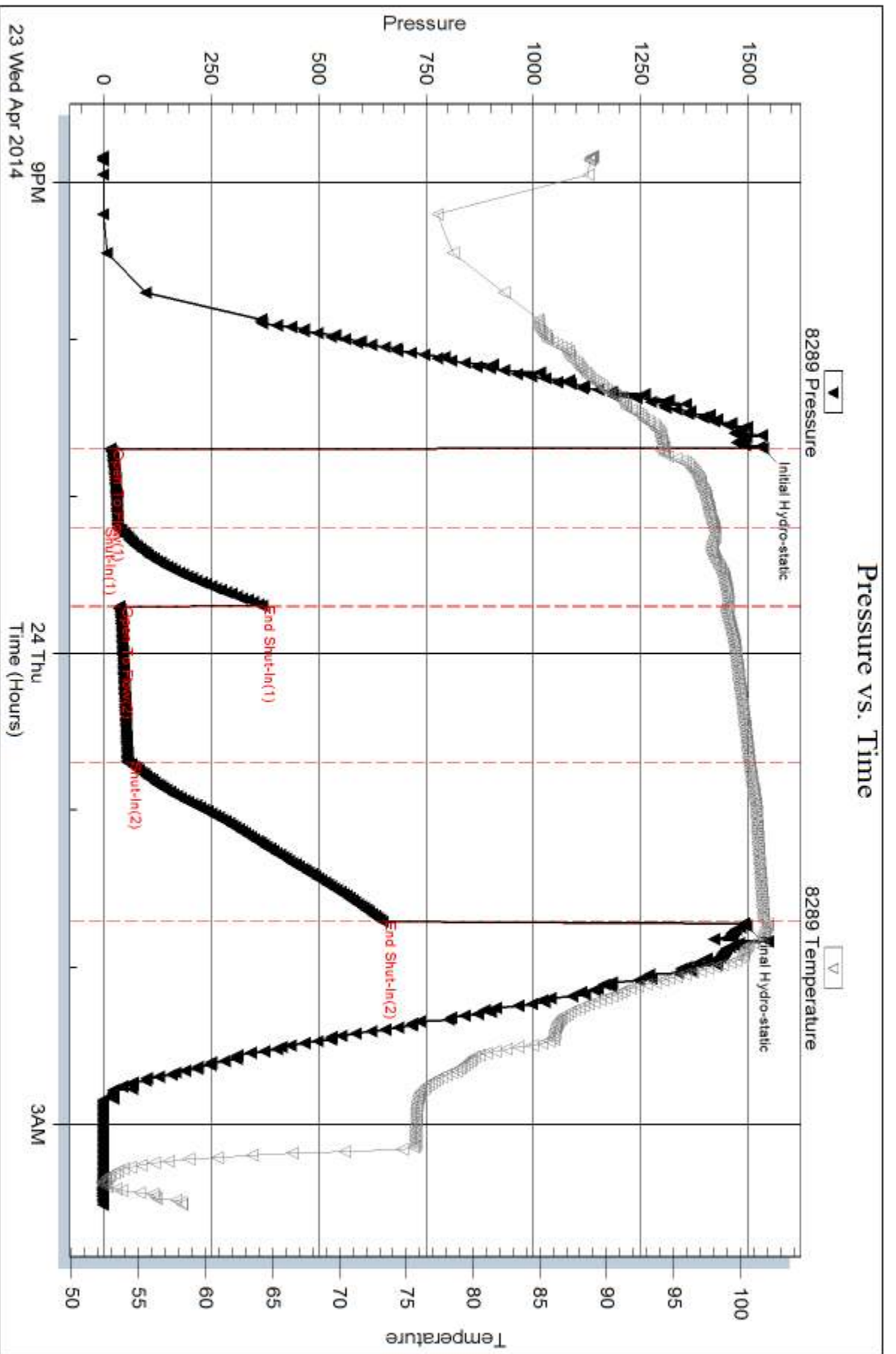
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



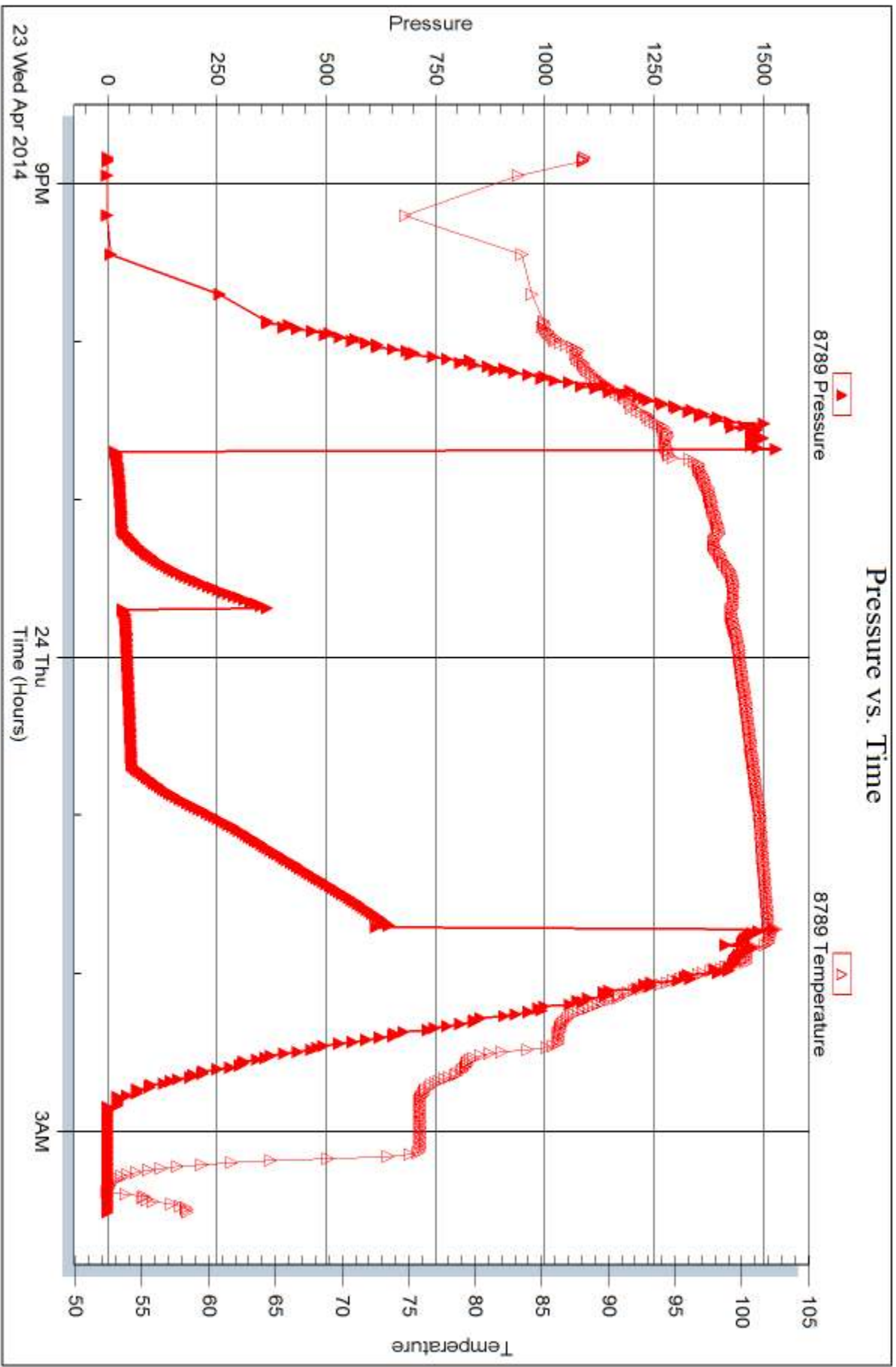
Serial #: 8789

Inside

John O Farmer Inc

Camp Unit #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57599

Printed: 2014.04.25 @ 14:00:16



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Camp Unit #1

35 14s 14w Russell,KS

Start Date: 2014.04.24 @ 16:43:00

End Date: 2014.04.24 @ 22:40:00

Job Ticket #: 57600 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.25 @ 13:59:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57600

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.24 @ 16:43:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:00

Time Test Ended: 22:40:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3145.00 ft (KB) To 3192.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 201.82 psig @ 3148.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.24 End Date: 2014.04.24

Last Calib.: 2014.04.24

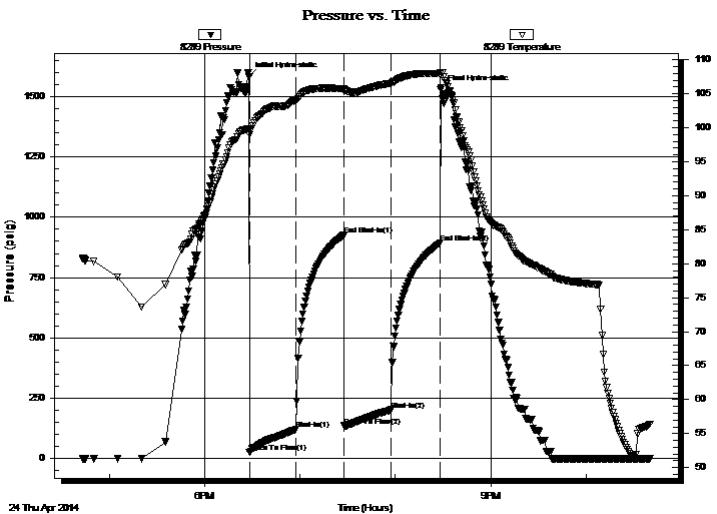
Start Time: 16:43:02 End Time: 22:40:00

Time On Btm: 2014.04.24 @ 18:27:45

Time Off Btm: 2014.04.24 @ 20:28:30

TEST COMMENT: 30-IFP- BOB in 5 1/2 min.
30-ISIP- Surface Blow in 1 1/2 min. Building to 1" in 20 min.
30-FFP- BOB in 6 min.
30-FSIP- Surface Blow in 30 sec. Building to 1 1/2" in 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1584.14	99.79	Initial Hydro-static
1	25.69	98.99	Open To Flow (1)
30	120.84	104.01	Shut-In(1)
60	925.69	105.77	End Shut-In(1)
60	135.71	105.40	Open To Flow (2)
90	201.82	106.53	Shut-In(2)
121	892.96	107.92	End Shut-In(2)
121	1529.90	108.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	GMCO 10%g 15%m 75%o	5.26
107.00	CO 100%	1.50
0.00	219 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57600

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.24 @ 16:43:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:00

Time Test Ended: 22:40:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3145.00 ft (KB) To 3192.00 ft (KB) (TVD)

Total Depth: 3268.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1752.00 ft (KB)

1744.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6668 Below (Straddle)

Press@RunDepth: psig @ 3201.00 ft (KB)

Start Date: 2014.04.24

End Date: 2014.04.24

Start Time: 16:43:02

End Time: 22:39:45

Capacity: 8000.00 psig

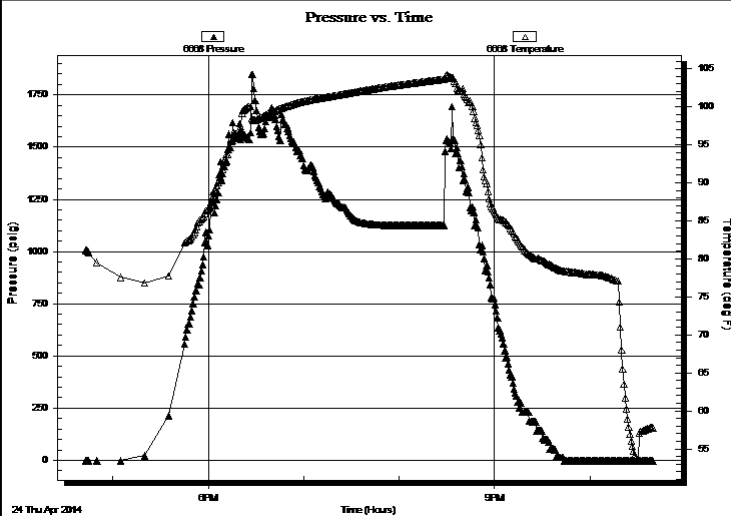
Last Calib.: 2014.04.24

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 5 1/2 min.
30-ISIP- Surface Blow in 1 1/2 min. Building to 1" in 20 min.
30-FFP- BOB in 6 min.
30-FSIP- Surface Blow in 30 sec. Building to 1 1/2" in 15 min.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
375.00	GMCO 10%g 15%m 75%o	5.26
107.00	CO 100%	1.50
0.00	219 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57600 **DST#: 5**

ATTN: Austin Klaus

Test Start: 2014.04.24 @ 16:43:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:28:00

Time Test Ended: 22:40:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3145.00 ft (KB) To 3192.00 ft (KB) (TVD)

Reference Elevations: 1752.00 ft (KB)

Total Depth: 3268.00 ft (KB) (TVD)

1744.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3148.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.24 End Date: 2014.04.24

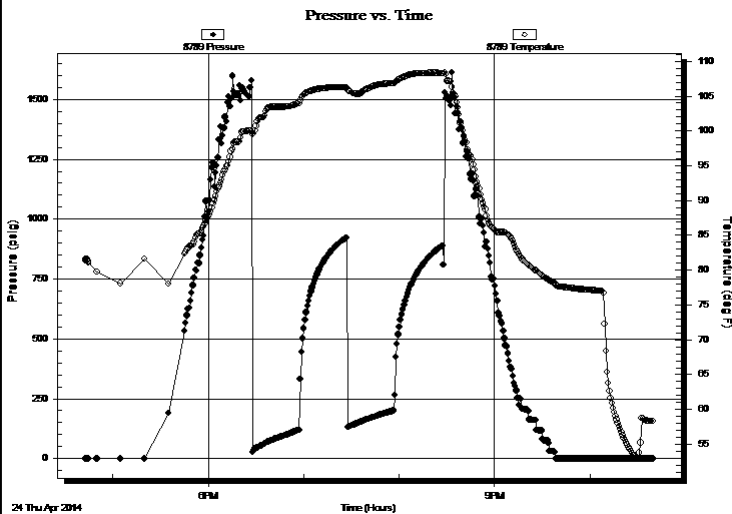
Last Calib.: 2014.04.24

Start Time: 16:43:02 End Time: 22:39:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 5 1/2 min.
30-ISIP- Surface Blow in 1 1/2 min. Building to 1" in 20 min.
30-FFP- BOB in 6 min.
30-FSIP- Surface Blow in 30 sec. Building to 1 1/2" in 15 min.



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
375.00	GMCO 10%g 15%m 75%o	5.26
107.00	CO 100%	1.50
0.00	219 GIP	0.00

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57600

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.24 @ 16:43:00

Tool Information

Drill Pipe:	Length: 3128.00 ft	Diameter: 3.80 inches	Volume: 43.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 43.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3145.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	3192.00 ft			
Interval between Packers:	47.00 ft			
Tool Length:	144.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3125.00	
Shut In Tool	5.00			3130.00	
Hydraulic tool	5.00			3135.00	
Packer	5.00			3140.00	21.00 Bottom Of Top Packer
Packer	5.00			3145.00	
Stubb	1.00			3146.00	
Perforations	1.00			3147.00	
Change Over Sub	1.00			3148.00	
Recorder	0.00	8789	Inside	3148.00	
Recorder	0.00	8289	Outside	3148.00	
Blank Spacing	31.00			3179.00	
Change Over Sub	1.00			3180.00	
Perforations	8.00			3188.00	
Blank Off Sub	1.00			3189.00	
Blank Spacing	3.00			3192.00	47.00 Tool Interval
Packer	1.00			3193.00	
Perforations	7.00			3200.00	
Change Over Sub	1.00			3201.00	
Recorder	0.00	6668	Below	3201.00	
Blank Spacing	63.00			3264.00	
Change Over Sub	1.00			3265.00	
Bullnose	3.00			3268.00	76.00 Bottom Packers & Anchor

Total Tool Length: 144.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35 14s 14w Russell, KS

PO Box 352
Russell KS 67665

Camp Unit #1

Job Ticket: 57600

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.24 @ 16:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
375.00	GMCO 10%g 15%m 75%o	5.260
107.00	CO 100%	1.501
0.00	219 GIP	0.000

Total Length: 482.00 ft Total Volume: 6.761 bbl

Num Fluid Samples: 0

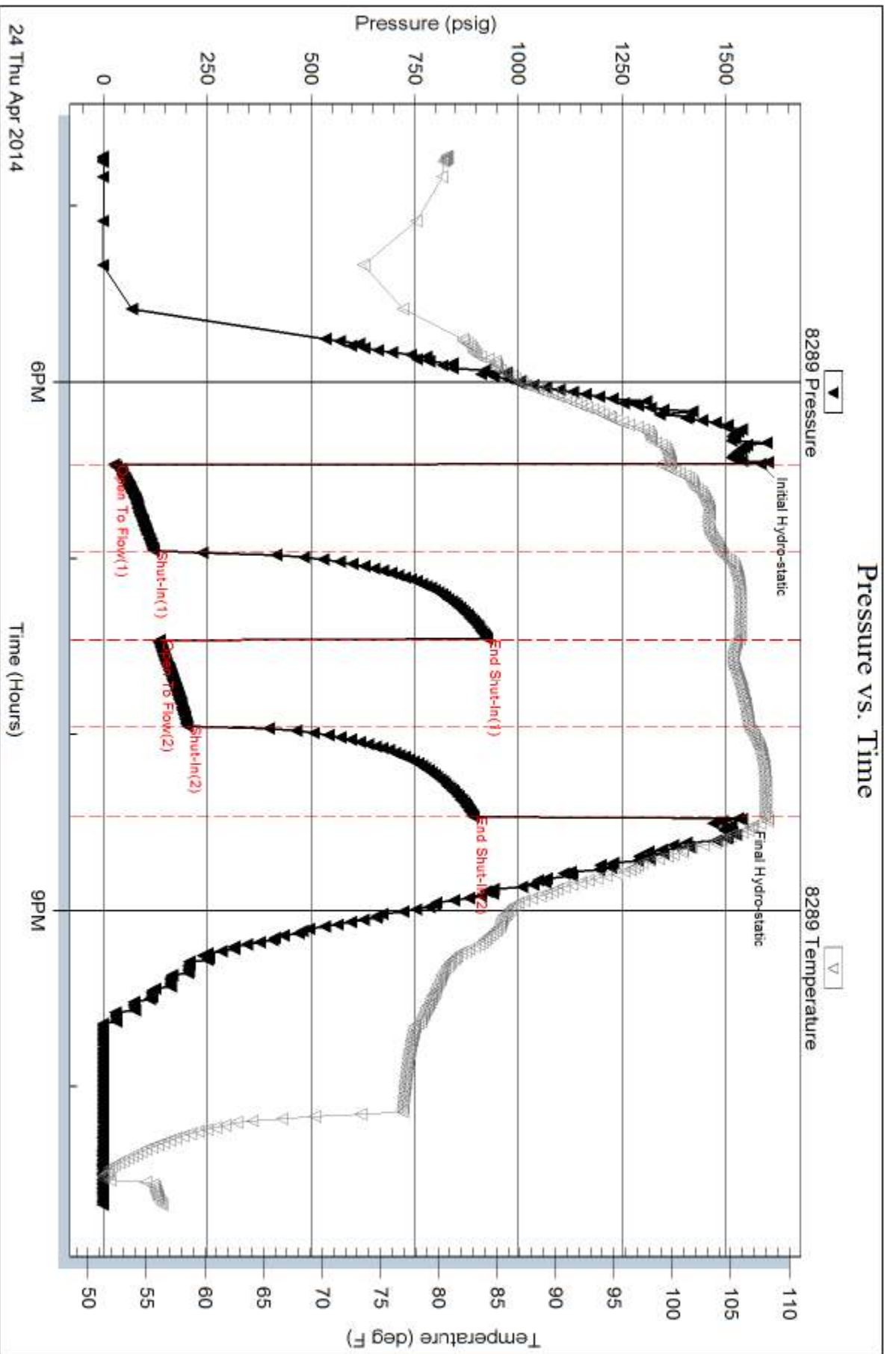
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

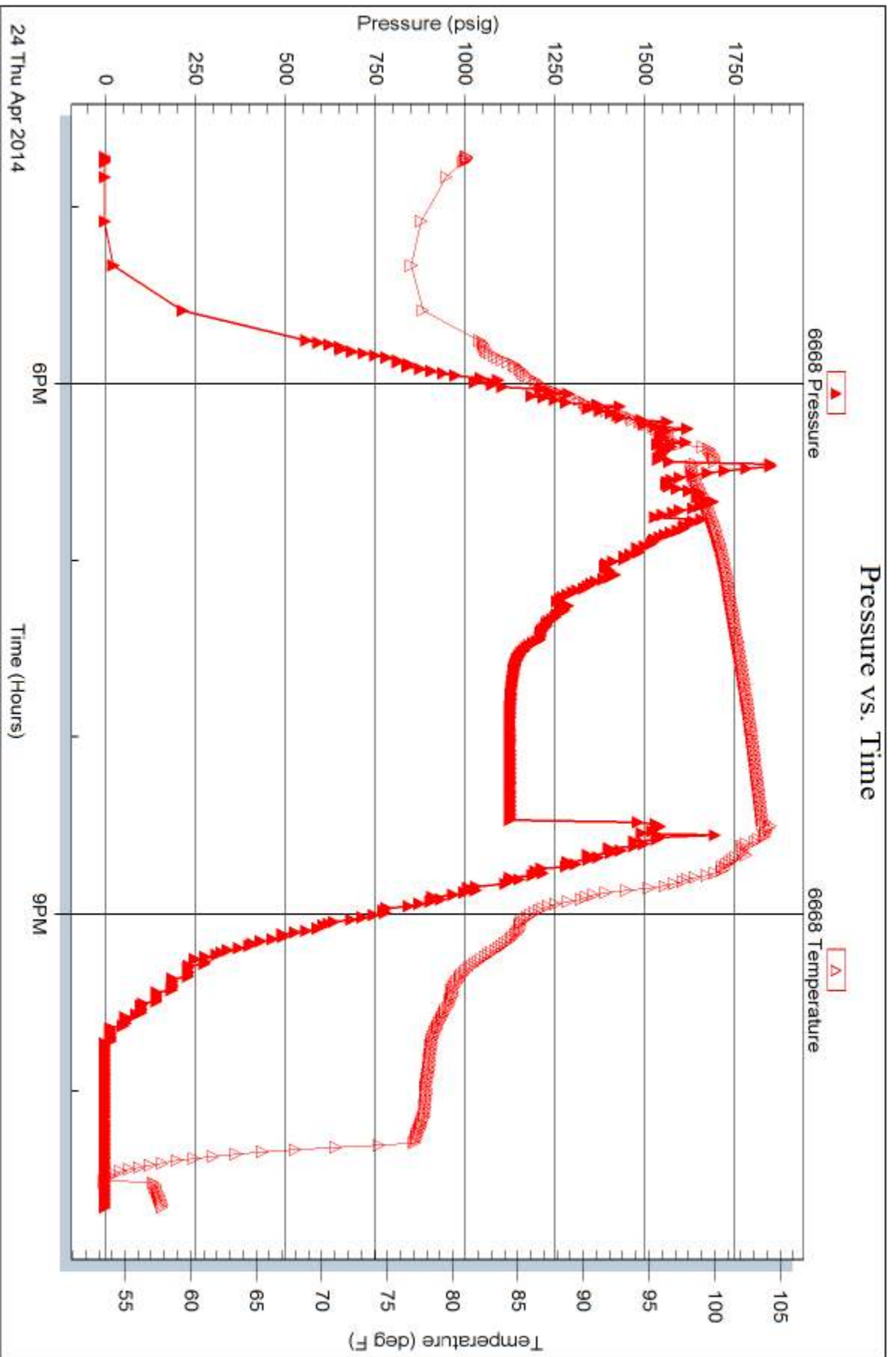


Serial #: 6668

Below (Straddled) Farmer Inc

Camp Unit #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 57600

Printed: 2014.04.25 @ 13:59:45

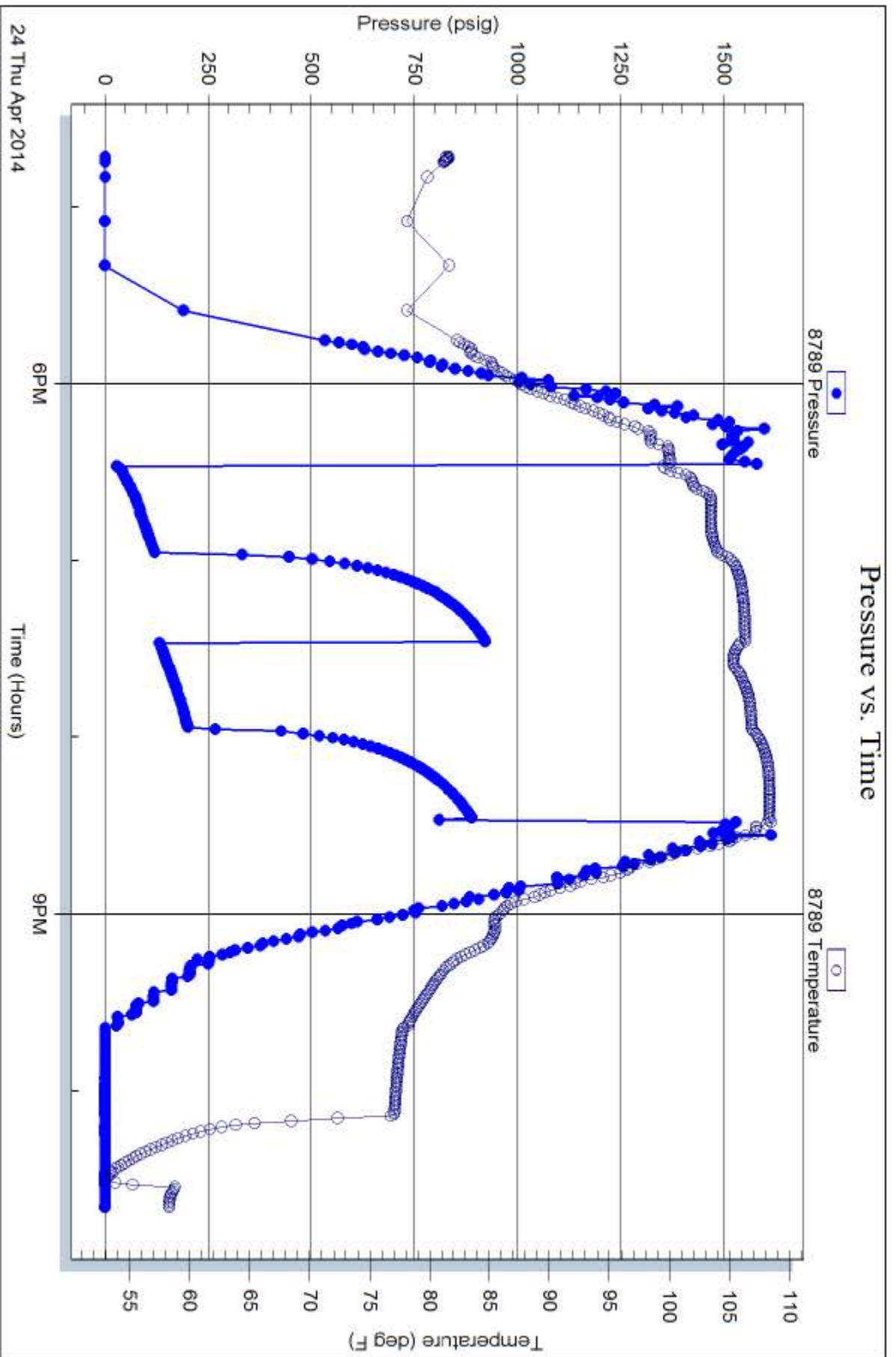
Serial #: 8789

Inside

John O Farmer Inc

Camp Unit #1

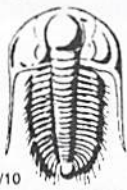
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 57600

Printed: 2014.04.25 @ 13:59:45



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57596

Well Name & No. Camp Unit #1 Test No. 1 Date 4-21-14
 Company John O. Farmer Inc. Elevation 1752 KB 1744 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 35 Twp. 14S Rge. 14W Co. Russell State KS

Interval Tested 2928-2968 Zone Tested LKC "C"
 Anchor Length 40 Drill Pipe Run 2941 Mud Wt. 8.7
 Top Packer Depth 2923 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 2928 Wt. Pipe Run 0 WL 8.8
 Total Depth 2968 Chlorides 5000 ppm System LCM 1

Blow Description IFF - Packer Failed 1st Open 2nd Open 2nd Vent Surface Blow to 9 in.
ISIP - No Blow
FFP - B.O.B. in 9 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	
	<u>270 DIP</u>				

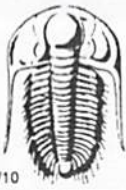
Rec Total 40 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1449 Test 1150 T-On Location 20:30
 (B) First Initial Flow 19 Jars _____ T-Started 22:14
 (C) First Final Flow 22 Safety Joint _____ T-Open 00:20
 (D) Initial Shut-In 213 Circ Sub _____ T-Pulled 03:20
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 05:00
 (F) Second Final Flow 28 Mileage RT 59 91.45 Comments _____
 (G) Final Shut-In 573 Sampler _____
 (H) Final Hydrostatic 1448 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1241.45
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1241.45

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57597

Well Name & No. Camp Unit #1 Test No. 2 Date 4-22-14
 Company John O Farmer Inc. Elevation 1752 KB 1744 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 35 Twp. 14^s Rge. 14^w Co. Russell State KS

Interval Tested 2989-3018 Zone Tested LKC 1 E-F
 Anchor Length 29 Drill Pipe Run 2973 Mud Wt. 8.8
 Top Packer Depth 2984 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 2989 Wt. Pipe Run 0 WL 8
 Total Depth 3018 Chlorides 7000 ppm System LCM 1

Blow Description IFF - Surface Blow Building to 2 3/4 in.
ISIP - No Blow
FFP - Surface Blow Building to 3 1/4 in.
FSIP - No Blow

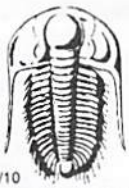
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Oil Speck Wcm</u>		<u>25</u>	<u>75</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 100 Gravity _____ API RW .392 @ 77 °F Chlorides 15000 ppm
 (A) Initial Hydrostatic 1475 Test 1150 T-On Location 12:30
 (B) First Initial Flow 12 Jars _____ T-Started 12:38
 (C) First Final Flow 20 Safety Joint _____ T-Open 14:19
 (D) Initial Shut-In 169 Circ Sub _____ T-Pulled 17:19
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 18:42
 (F) Second Final Flow 44 Mileage 91.45 Comments _____
 (G) Final Shut-In 186 Sampler _____
 (H) Final Hydrostatic 1399 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1241.45
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1241.45

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57598

Well Name & No. Camp Unit #1 Test No. 3 Date 4-23-14
 Company John O. Farmer Inc. Elevation 1752 KB 1744 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 35 Twp. 14^s Rge. 14^w Co. Russell State KS

Interval Tested 3021-3068 Zone Tested LKC "A"
 Anchor Length 47 Drill Pipe Run 3004 Mud Wt. 9.2
 Top Packer Depth 3016 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3021 Wt. Pipe Run 0 WL 8.8
 Total Depth 3068 Chlorides 6000 ppm System LCM 1

Blow Description IFP- Surface Blow Building to 7in.
ISIP- No Blow
FFP- Surface Blow Building to 8in.
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>127</u>	<u>05 mcw</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

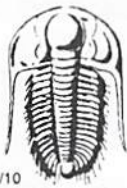
Rec Total 127 BHT 100 Gravity _____ API RW 297 @ 70 °F Chlorides 23000 ppm
 Test 1150 T-On Location 4:08
 Jars _____ T-Started 4:09
 Safety Joint _____ T-Open 5:45
 Circ Sub _____ T-Pulled 8:45
 Hourly Standby _____ T-Out 10:15
 Mileage 91.45 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1241.45

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57599

Well Name & No. Camp Unit #1 Test No. 4 Date 4-23-14
 Company John O. Farmer Elevation 1752 KB 1744 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 35 Twp. 14S Rge. 14W Co. Russell State KS

Interval Tested 3064-3156 Zone Tested LKC "H-L"
 Anchor Length 92 Drill Pipe Run 3068 Mud Wt. 9.2
 Top Packer Depth 3059 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3064 Wt. Pipe Run 0 WL 8.8
 Total Depth 3156 Chlorides 6000 ppm System LCM 1

Blow Description IFP- BOB in 10min.
ISIP- No Blow.
FFP- BOB in 2min.
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>25</u>		<u>75</u>	
<u>62</u>	<u>Sassey OCM</u>	<u>40</u>	<u>20</u>	<u>40</u>	
	<u>520 AIP</u>				

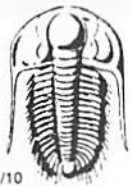
Rec Total 102 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1533</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>20:30</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars _____	T-Started <u>20:50</u>
(C) First Final Flow <u>34</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>22:42</u>
(D) Initial Shut-In <u>368</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>01:42</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>03:31</u>
(F) Second Final Flow <u>55</u>	<input checked="" type="checkbox"/> Mileage <u>91.45</u>	Comments _____
(G) Final Shut-In <u>648</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1489</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1241.45</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1241.45</u>	

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57600

Well Name & No. Camp Unit #1 Test No. 5 Date 4-24-14
 Company John O. Farmer Inc. Elevation 1752 KB 1744 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 35 Twp. 14^s Rge. 14^w Co. Russell State KS

Interval Tested 3145-3192 Zone Tested Arbuckle
 Anchor Length 47 (76TP) Drill Pipe Run 3128 Mud Wt. 9.1
 Top Packer Depth 3145 Drill Collars Run 0 Vis 62
 Bottom Packer Depth 3192 Wt. Pipe Run 0 WL 8
 Total Depth 3268 LogTD Chlorides 80250 ppm System LCM 3

Blow Description IFP- BOB in 5 1/2 min.
ISIP- Surface Blow in 1 1/2 min Building to 1 in. in 20 min.
FFP- BOB in 6 min.
FSIP- Surface Blow in 30 sec. Building to 1 1/2 in. in 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>375</u>	<u>AmCO</u>	<u>10</u>	<u>75</u>	<u>15</u>	
<u>107</u>	<u>CO</u>		<u>100</u>		
	<u>219</u>				

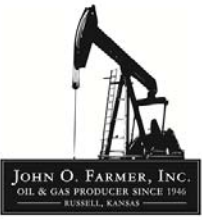
Rec Total 482 BHT 108 Gravity 30 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1584 Test 1150 T-On Location 15:50
 (B) First Initial Flow 25 Jars _____ T-Started 16:43
 (C) First Final Flow 120 Safety Joint _____ T-Open 18:28
 (D) Initial Shut-In 925 Circ Sub _____ T-Pulled 20:28
 (E) Second Initial Flow 135 Hourly Standby _____ T-Out 22:40
 (F) Second Final Flow 201 Mileage 91.45 Comments _____
 (G) Final Shut-In 892 Sampler _____
 (H) Final Hydrostatic 1529 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1841.45
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1841.45

Approved By _____ Our Representative [Signature]

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AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

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

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

Well Name: Camp Unit #1
Location: Russell County
License Number: API #15-167-23,890-0000
Spud Date: 4/17/14
Surface Coordinates: Section 35, Township 14 South, Range 14 West
330' FSL & 265' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,744' **K.B. Elevation (ft):** 1,752'
Logged Interval (ft): 2,500' **To:** 3,268' **Total Depth (ft):** 3,270'
Formation: Lansing, Arbuckle
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 4/24/14

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

OPERATOR

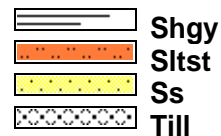
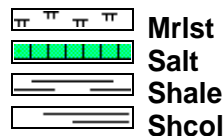
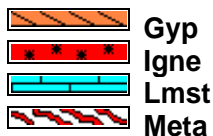
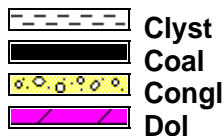
Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

Comments

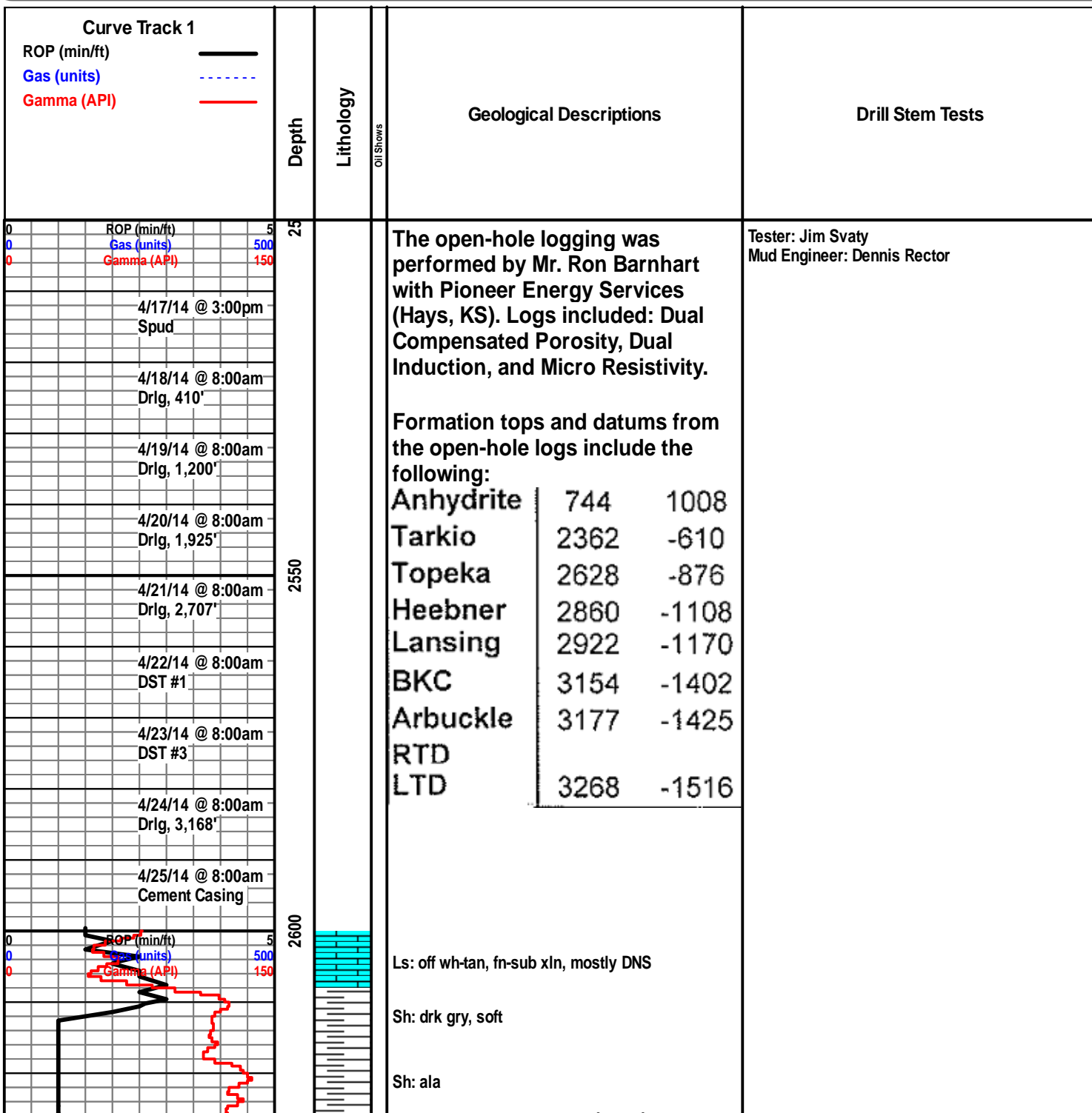
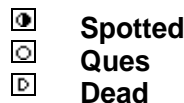
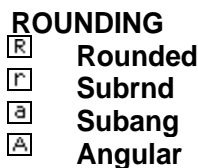
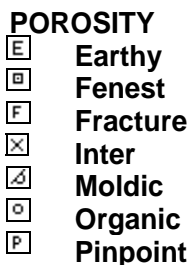
The Camp Unit #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Camp Unit #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,350'-3,400'. Structurally, the Camp Unit #1 ran 10' high to our correlation well at the Lansing. Four bottom-hole tests were conducted in the Lansing, the last of which yielded positive results (H-L test). The Arbuckle horizon was 9' high to the nearest Arbuckle well, 1,500' southeast of our location. Upon completion of the logging operation, a straddle tested was conducted, covering the top 15' of the Arbuckle. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to run 5 1/2" production casing on 4/25/14 to further evaluate the Camp Unit #1 well.

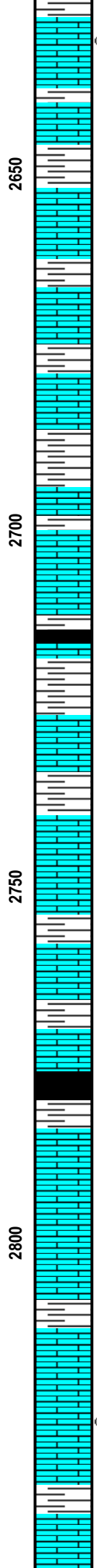
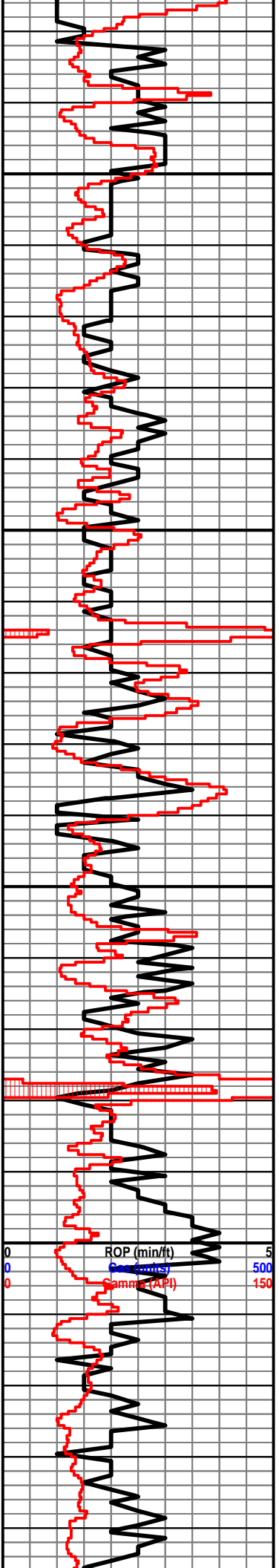
ROCK TYPES



OTHER SYMBOLS



Topeka 2629' (-877)



Ls: tan-lt gry, vry fn xln, poor pp vuggy porosity, lt-fair oil st, sl odor, VSSFO, scat pyrite

Ls: tan-gry, fn-sub xln, mostly DNS, scat int xln porosity, sl oil st, NSFO, scat chert-off wh

Ls: tan-gry, fn-sub xln, mostly DNS, scat sh: drk gry

Sh: drk gry-brn, soft

Sh: drk gry-grn, vry soft

Ls: tan-gry, fn xln, scat pp vuggy porosity, NSFO, fossil, scat pyrite

Sh: drk gry, soft

Ls: tan-gry, fn-sub xln, mostly DNS, scat pyrite, fossil

Ls: ala

Sh: drk gry-blk

Sh: gry-brn-grn, soft

Ls: tan-lt gry, fn xln, scat int xln porosity, sl oil st, NSFO, scat sltst: gry, vry fn grn

Sh: drk gry

Ss: tan-gry, vry fn grn, rnd-sub rnd, poor int grn porosity, fairly well cemented, NSFO, scat fossil

Ls: tan-gry, fn-sub xln, mostly DNS, scat chalk, fossil

Sh: drk gry-grn, soft

Ls: tan-gry, fn xln, fossil, scat int xln porosity, NSFO, chalky

Sh: drk gry, scat blk

Ls: off wh-tan, fn xln, scat pp vuggy porosity, sl oil st, VSSFO, sl odor, fossil, scat chert

Ls: tan-lt gry, fn-sub xln, mostly DNS, hvy fossil

Sh: drk gry

Ls: off wh-tan, fn xln, scat-poor pp vuggy porosity, sl-fair oil st, SSFO, sl odor, fossil, chert-off wh

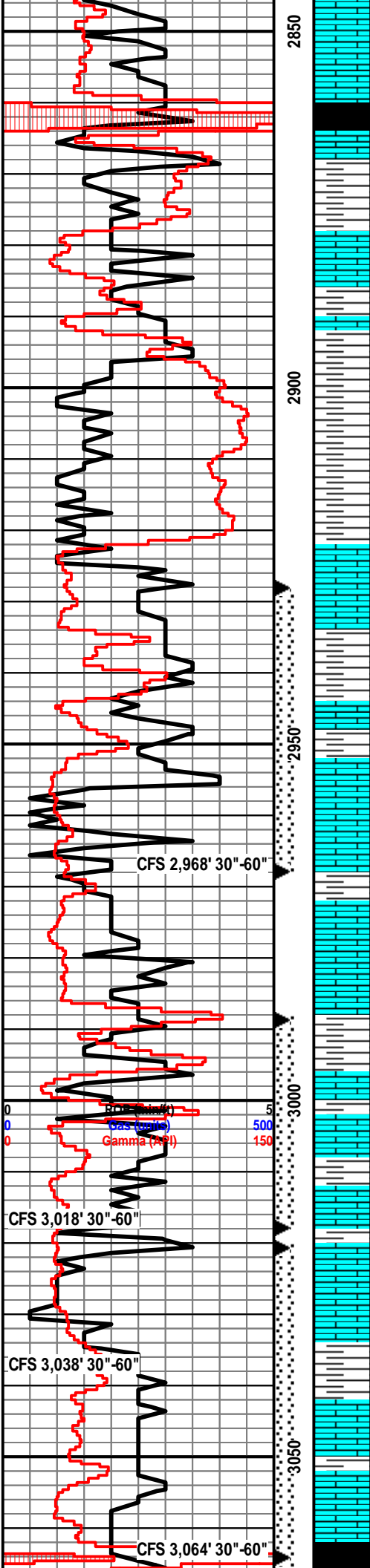
Sh: drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, sl fossil,

Wt: 8.7
Vis: 49

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

2800
2750
2700
2650



NSFO

Ls: ala

Heebner 2864' (-1112)

Sh: drk gry-blk, carb, fissile

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

Sh: drk gry

Toronto 2883' (-1131)

Ls: tan-gry-brn, fn xln, mostly DNS, scat pp vuggy porosity, NSFO, no odor, sl fossil, scat sh: gry-grn, soft

Sh: lt gry-grn, vry soft, scat sltst: grn, vry fn grn

Sh: drk gry-blk, soft

Sh: drk gry-brn-rd

Lansing 2926' (-1174)

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

Sh: drk gry

Ls: off wh-tan-lt gry, fn-sub xln, mostly DNS, NSFO, fossil

Ls: off wh-tan, fn xln, ool, good oom porosity, fair-good oil sat, SSFO, good odor, sl fossil

CFS 2,968' 30"-60"

Sh: drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, fair oil sat, SSFO on brk, mostly tite, scat chalky

Sh: drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn-vry fn xln, poor-scat fair int xln porosity, fair oil sat, SSFO, fair odor, chalky, scat fossil

Sh: drk gry-brn-grn

Ls: tan-lt gry, fn xln, scat int xln porosity, NSFO, fossil, chalky

CFS 3,018' 30"-60"

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, fair oil st, SSFO, fair odor, chalky, scat chert-off wh

CFS 3,038' 30"-60"

Sh: drk gry-brn

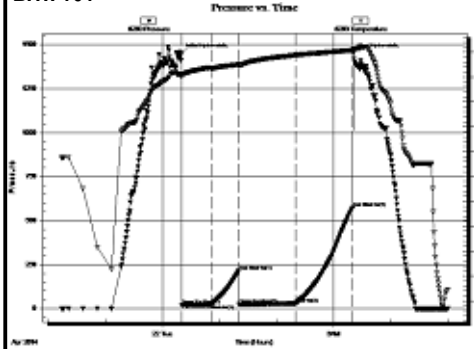
Ls: tan-lt gry, fn-sub xln, vry DNS, hard, no visible porosity, hv y chert-off wh, chalky

CFS 3,064' 30"-60"

Ls: tan-lt gry, fn-sub xln, DNS, no visible porosity, hv y chert-off wh, chalky

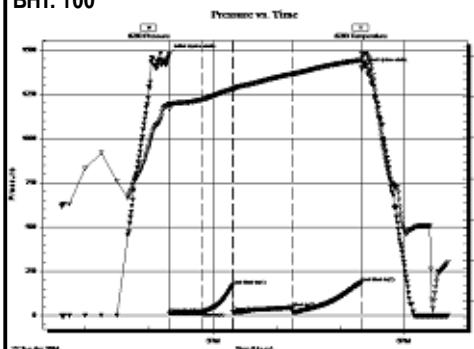
Sh: drk arv-blk

DST #1 2,928'-2,968' (Lansing C)
30"-30"-60"-60"
IF: Packer failed, reseal and blow built to 9"
FF: BOB in 9 minutes, no blow back
Rec: 270' GIP, 40' OCM (20% O, 80% M)
FP: 20-22, 23-29#
SIP: 214-573#
HP: 1,450-1,449#
BHT: 101



DST #2 2,989'-3,018' (Lansing E-F)
30"-30"-60"-60"

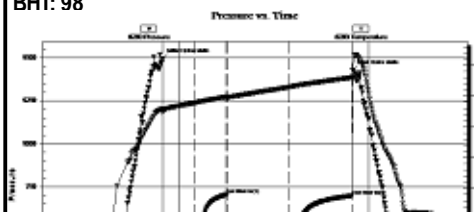
IF: Weak blow built to 2.75"
FF: Weak blow built to 3.25"
Rec: 30' WCM (25% W, 75% M)
FP: 13-20, 19-45#
SIP: 169-187#
HP: 1,475-1,399#
BHT: 100

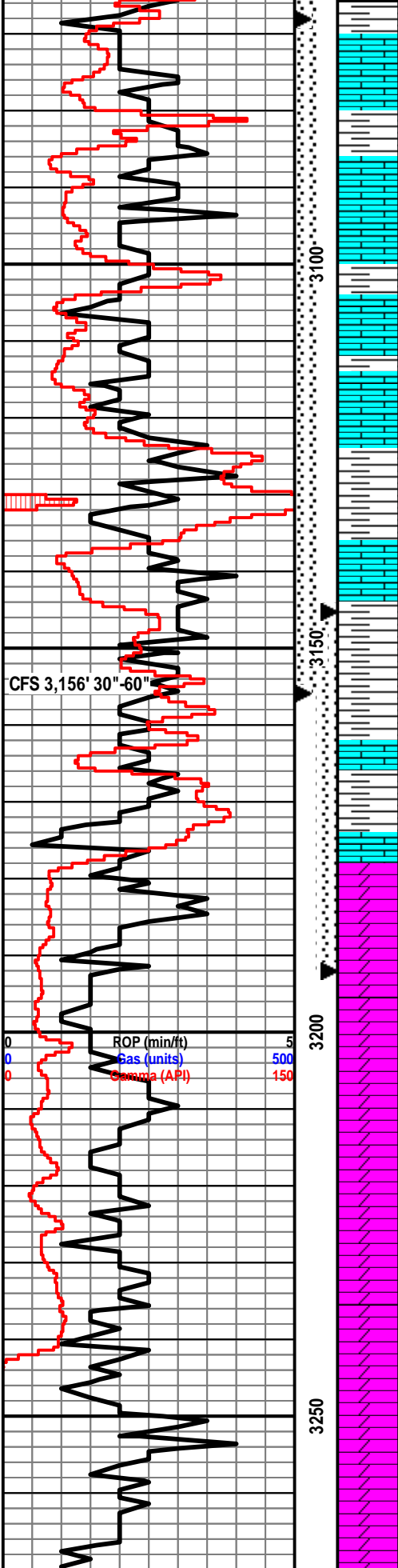


Wt: 8.8
Vis: 52

DST #3 3,021'-3,068' (Lansing G)
30"-30"-60"-60"

IF: weak blow built to 7"
FF: weak blow built to 8"
Rec: 127' MCW (5% M, 95% W)
FP: 21-43, 47-80#
SIP: 705-699#
HP: 1,495-1,429#
BHT: 98





Ls: tan-lt gry, fn-sub xln, mostly DNS, fossil, scat chalk

Sh: drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, SSFO, vry lt odor, chalky, chert-off wh

Ls: tan-gry, fn xln, scat int xln porosity, NSFO, chalky, scat pyrite

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

Sh: drk gry

Ls: tan-lt gry, fn xln, vry poor int xln porosity, NSFO, no odor, chalky, scat chert-off wh

Sh: drk gry-blk

Ls: tan-gry, fn-sub xln, mostly DNS, chert, scat chalk, fossil

B/KC 3155' (-1403)

Sh: drk gry-brn-grn

Sh: drk gry-grn, soft

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

Ls: ala, scat sh: drk gry-grn, soft

Arbuckle 3184' (-1432)

Dolo: off wh, fn-md xln, poor-fair int xln porosity, SSFO, lt odor

Dolo: off wh, fn-md xln, fair int xln porosity, SFO, fair-good odor, fair yel fluor

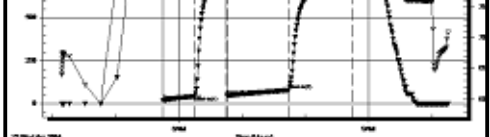
Dolo: off wh-lt tan, fn-md xln, poor int xln porosity, VSSFO, lt odor

Dolo: off wh-tan, vry fn-md xln, poor-fair int xln porosity, VSSFO, lt odor

Dolo: off wh, fn-md xln, mostly DNS, no visible porosity, NSFO

Dolo: ala

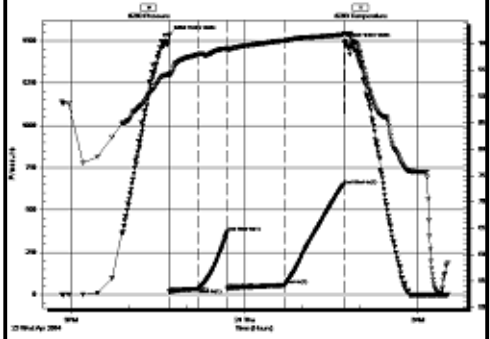
Dolo: off wh, fn-md xln, poor int xln porosity, mostly barren, NSFO, no odor, chert-off wh



Wt: 9.2
Vis: 48

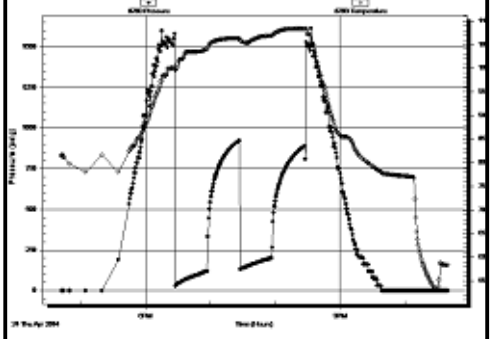
**DST #4 3,064-3,156' (Lansing H-L)
30"-30"-60"-60"**

IF: BOB in 10 minutes, no blow back
FF: BOB in 2 minutes, no blow back
Rec: 520' GIP, 40' OCM (25% O, 75% M), 62' GOCM (20% O, 40% M, 40% G)
FP: 16-35, 36-56#
SIP: 368-648#
HP: 1,534-1,489#
BHT: 102



**DST #5 3,145-3,192' (Top 15' Arbuckle)
30"-30"-30"-30"**

IF: BOB in 5 1/2 minutes, 1" blow back
FF: BOB in 6 minutes, 1.5" blow back
Rec: 219' GIP, 107' CO (30API), 375' GMCO (10% G, 15% M, 75% O)
FP: 26-121, 136-202#
SIP: 926-893
HP: 1,584-1,529#
BHT: 108



Wt: 9.1
Vis: 62