



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217147
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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: _____

1217147

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

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

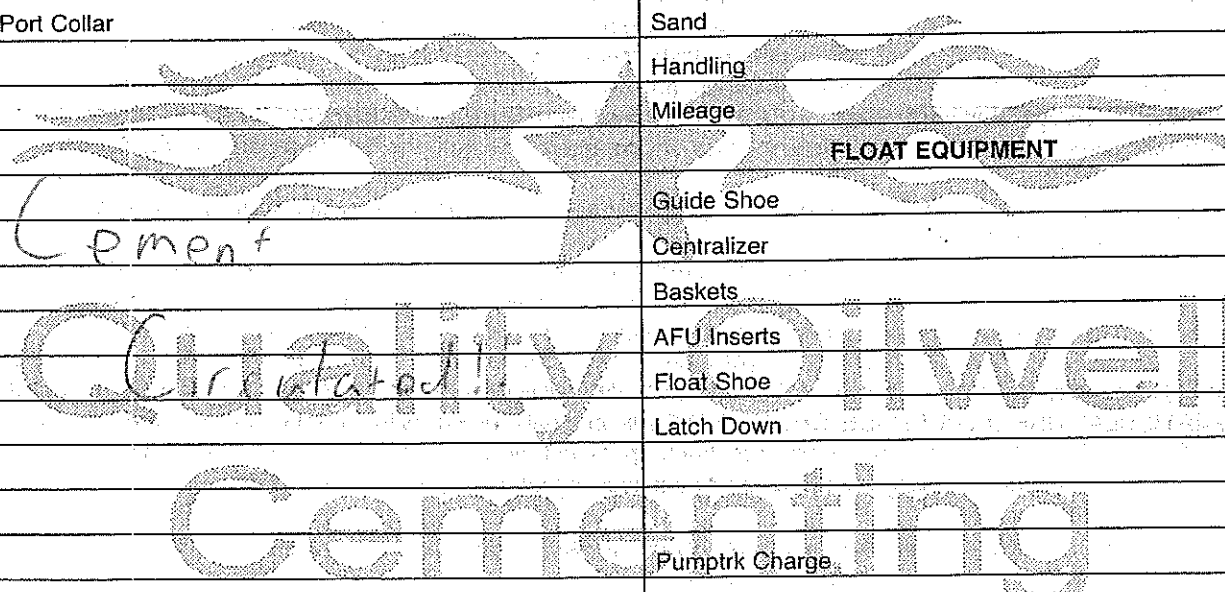
Federal Tax I.D.# 20-2886107

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

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

No. 164

Date	4-22-14	Sec.	36	Twp.	5	Range	18	County	Phillips	State	KS	On Location		Finish	5:30 PM		
Location								Stackton IV to CO Line 1/2 W N14W									
Lease	Ogle			Well No.	#1			Owner									
Contractor	WW #6			To Quality Oilwell Cementing, Inc.								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job	Surface			Charge To								John O Farmer					
Hole Size	12 1/4			T.D.	218			Street									
Csg.	8 5/8			Depth	218			City								State	
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Tool				Depth				Cement Amount Ordered								150 com 3% CC 2460	
Cement Left in Csg.	25'			Shoe Joint				Meas Line								Displace 12 1/4 bbl	
EQUIPMENT								Common									
Pumptrk	5	No.		Cementer	David			Poz. Mix									
Bulktrk	14	No.		Helper	David			Gel.									
Bulktrk	PU	No.		Driver	Doug			Calcium									
Bulktrk	PU	No.		Driver	Brett			Hulls									
JOB SERVICES & REMARKS								Salt									
Remarks:				Flowseal													
Rat Hole				Kol-Seal													
Mouse Hole				Mud CLR 48													
Centralizers				CFL-117 or CD110 CAF 38													
Baskets				Sand													
D/V or Port Collar				Handling													
								Mileage									
								FLOAT EQUIPMENT									
								Guide Shoe									
								Centralizer									
								Baskets									
								AFU Inserts									
								Float Shoe									
								Latch Down									
								Pumptrk Charge									
								Mileage									
								Tax									
								Discount									
								Total Charge									
X Signature								Maul Bgso									



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. 026

Date	4-28-14	Sec.	36	Twp.	5	Range	18	County	Phillips	State	KS	On Location		Finish	11:30 AM
Lease								Well No. 1		Owner					
Contractor								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								Charge To		J.O. Farmer					
Hole Size								T.D. 3449		Cement Amount Ordered					
Csg.								Depth		Street					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		Common					
EQUIPMENT										Poz. Mix					
Pumptrk No.								Cementer		Gel.					
Bulktrk No.								Helper		Calcium					
Bulktrk No.								Driver		Hulls					
Bulktrk No.								Driver		Salt					
JOB SERVICES & REMARKS										Flowseal					
Remarks:										Kol-Seal					
Rat Hole										Mud CLR 48					
Mouse Hole										CFL-117 or CD110 CAF 38					
Centralizers										Sand					
Baskets										Handling					
D/V or Port Collar										Mileage					
1 1/2" 13.90 25.5K										FLOAT EQUIPMENT					
2 1/2" 7.90 100.5K										Guide Shoe					
3 1/2" 2.70 40.5K										Centralizer					
4 1/2" 40 10.5K										Baskets					
Quality Oilwell Cementing										AFU Inserts					
Quality Oilwell Cementing										Float Shoe					
Quality Oilwell Cementing										Latch Down					
Quality Oilwell Cementing										Pumptrk Charge					
Quality Oilwell Cementing										Mileage					
Quality Oilwell Cementing										Tax					
Quality Oilwell Cementing										Discount					
Quality Oilwell Cementing										Total Charge					
X Signature															



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell KS 67665

ATTN: Austin Klaus

Odle #1

36-5s-18w Phillips,KS

Start Date: 2014.04.25 @ 13:38:03

End Date: 2014.04.25 @ 19:01:33

Job Ticket #: 57569 DST #: 1

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

Printed: 2014.04.29 @ 14:17:28

John O Farmer Inc 36-5s-18w Phillips,KS Odle #1 DST # 1 LKC "A" 2014.04.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57569

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.25 @ 13:38:03

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:46:33

Time Test Ended: 19:01:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3093.00 ft (KB) To 3120.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 167.42 psig @ 3094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.25 End Date: 2014.04.25

Last Calib.: 2014.04.26

Start Time: 13:38:04 End Time: 19:01:33

Time On Btm: 2014.04.25 @ 15:46:13

Time Off Btm: 2014.04.25 @ 17:47:23

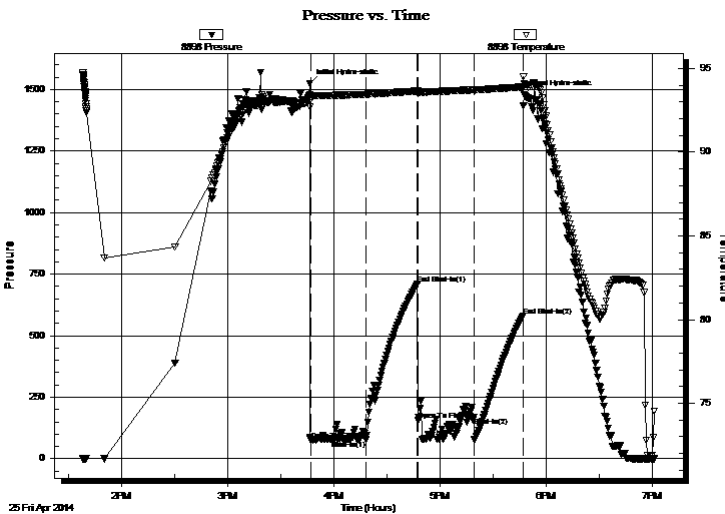
TEST COMMENT: Weak surface blow built to 1/2"

Dead no blow back

Dead no blow

Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.82	93.42	Initial Hydro-static
1	76.57	93.11	Open To Flow (1)
32	76.23	93.44	Shut-In(1)
61	709.58	93.65	End Shut-In(1)
62	154.56	93.49	Open To Flow (2)
93	167.42	93.72	Shut-In(2)
121	580.95	93.89	End Shut-In(2)
122	1478.20	94.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100%M With oil spots	0.59

Gas Rates

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



DRILL STEM TEST REPORT

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

ATTN: Austin Klaus

Job Ticket: 57569

DST#: 1

Test Start: 2014.04.25 @ 13:38:03

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:46:33

Time Test Ended: 19:01:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3093.00 ft (KB) To 3120.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3120.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.25 End Date: 2014.04.25

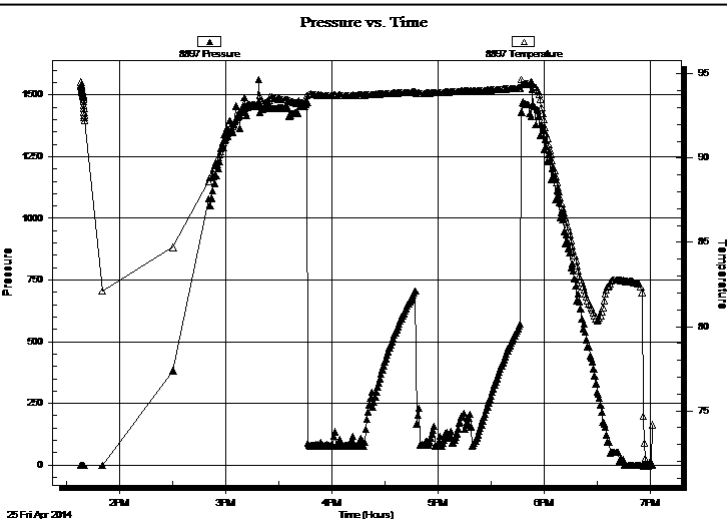
Last Calib.: 2014.04.25

Start Time: 13:38:14 End Time: 19:01:43

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow built to 1/2"
Dead no blow back
Dead no blow
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100%M With oil spots	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57569

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.25 @ 13:38:03

Tool Information

Drill Pipe:	Length: 2984.00 ft	Diameter: 3.80 inches	Volume: 41.86 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 42.45 bbl		Tool Chased 10.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3093.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3078.00	
Hydraulic tool	5.00			3083.00	
Packer	5.00			3088.00	20.00 Bottom Of Top Packer
Packer	5.00			3093.00	
Stubb	1.00			3094.00	
Recorder	0.00	8897	Inside	3094.00	
Recorder	0.00	8898	Outside	3094.00	
Perforations	23.00			3117.00	
Bullnose	3.00			3120.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57569

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.25 @ 13:38:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	100%M With oil spots	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

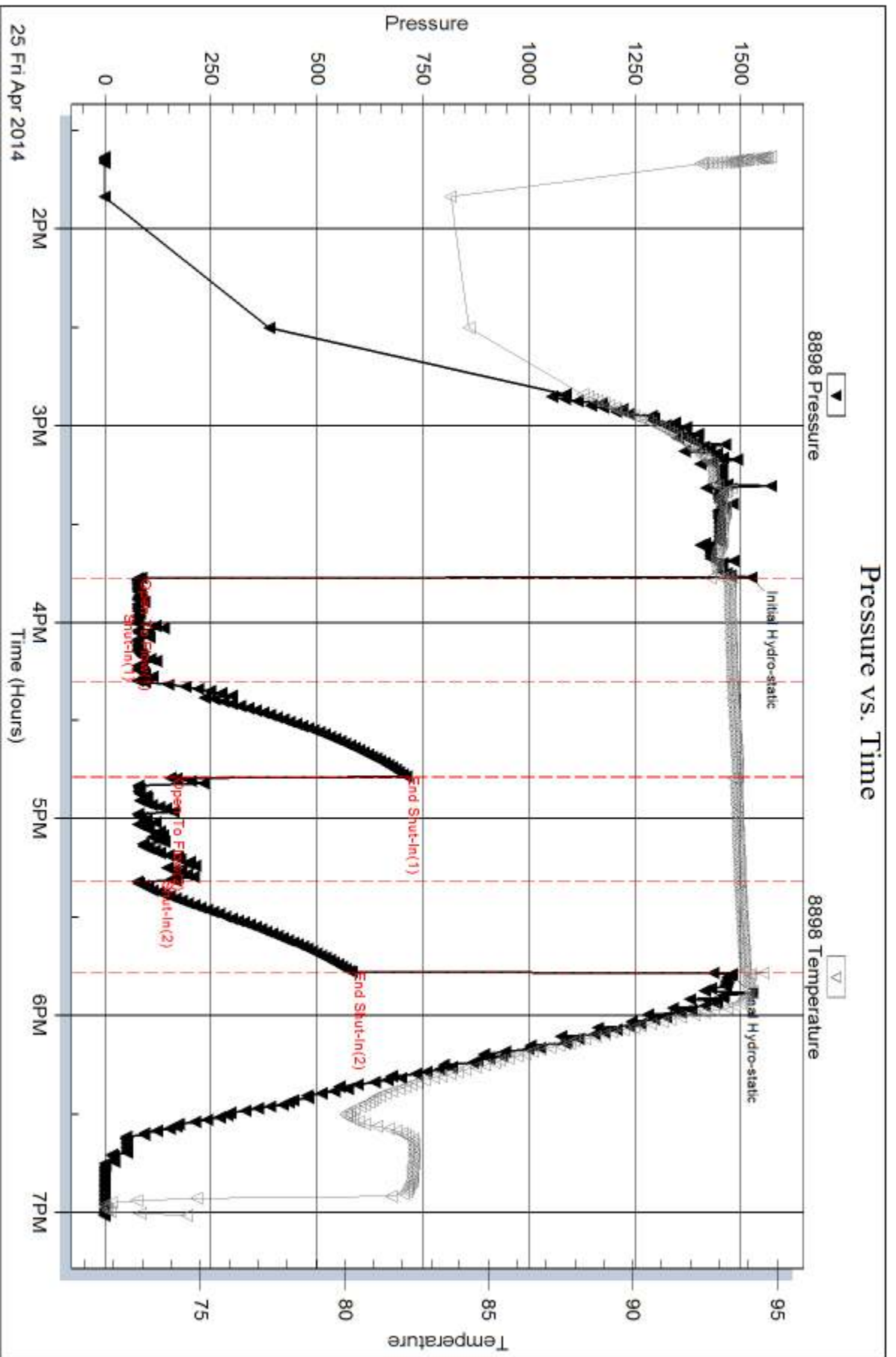
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



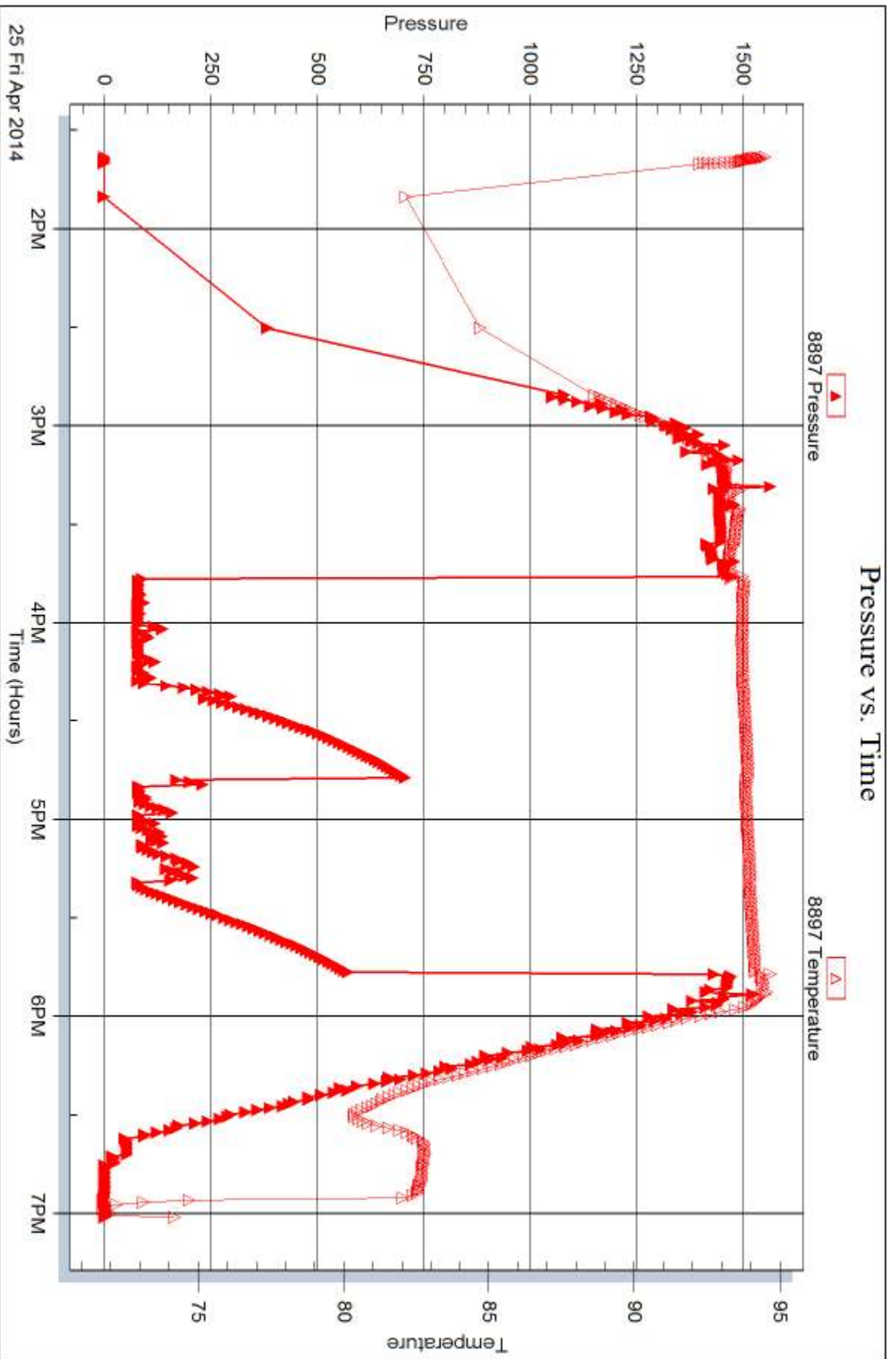
Serial #: 8897

Inside

John O Farmer Inc

Odle #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57569

Printed: 2014.04.29 @ 14:17:30



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell KS 67665

ATTN: Austin Klaus

Odle #1

36-5s-18w Phillips,KS

Start Date: 2014.04.26 @ 03:47:23

End Date: 2014.04.26 @ 08:46:32

Job Ticket #: 57570 DST #: 2

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

Printed: 2014.04.29 @ 14:17:08

John O Farmer Inc 36-5s-18w Phillips,KS Odle #1 DST # 2 LKC "C" 2014.04.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57570

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 03:47:23

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:36:33

Time Test Ended: 08:46:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3130.00 ft (KB) To 3166.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3166.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 12.24 psig @ 3131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.26

End Date:

2014.04.26

Last Calib.: 2014.04.26

Start Time: 03:47:24

End Time:

08:46:33

Time On Btm: 2014.04.26 @ 05:36:13

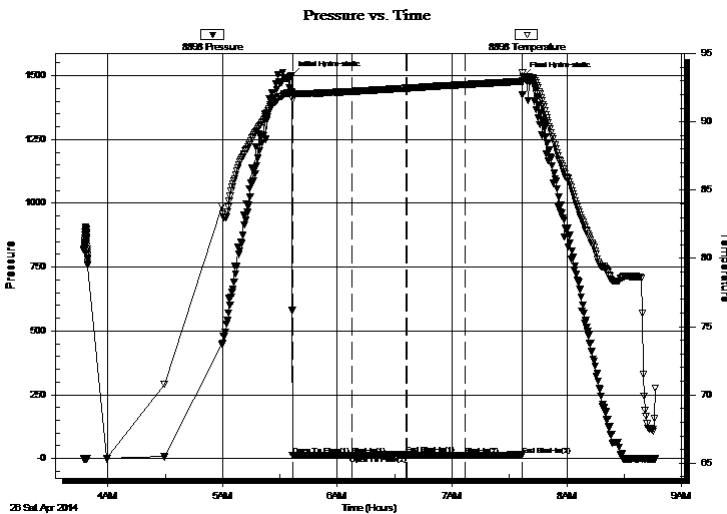
Time Off Btm: 2014.04.26 @ 07:37:13

TEST COMMENT: Weak surface blow built to 1/4"

Dead no blow

Dead no blow

Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1501.05	92.19	Initial Hydro-static
1	12.71	91.67	Open To Flow (1)
32	11.91	92.22	Shut-In(1)
60	15.73	92.47	End Shut-In(1)
60	12.13	92.47	Open To Flow (2)
91	12.24	92.73	Shut-In(2)
121	14.73	92.97	End Shut-In(2)
121	1494.94	93.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%m	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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57570

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 03:47:23

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 05:36:33

Tester: Tate Lang

Time Test Ended: 08:46:32

Unit No: 49

Interval: 3130.00 ft (KB) To 3166.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3166.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3131.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.26

End Date:

2014.04.26

Last Calib.:

2014.04.26

Start Time: 03:47:47

End Time:

08:46:56

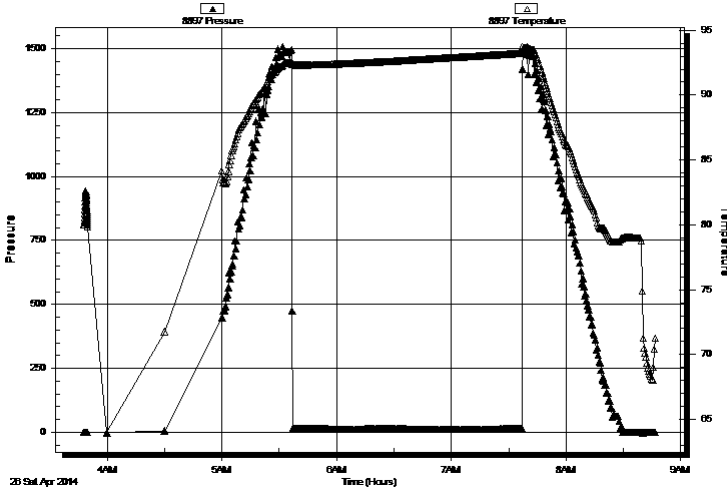
Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow built to 1/4"

- Dead no blow
- Dead no blow
- Dead no blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%m	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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57570

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 03:47:23

Tool Information

Drill Pipe:	Length: 3018.00 ft	Diameter: 3.80 inches	Volume: 42.33 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	44000.00 lb
			<u>Total Volume: 42.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3130.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3115.00	
Hydraulic tool	5.00			3120.00	
Packer	5.00			3125.00	20.00 Bottom Of Top Packer
Packer	5.00			3130.00	
Stubb	1.00			3131.00	
Recorder	0.00	8897	Inside	3131.00	
Recorder	0.00	8898	Outside	3131.00	
Perforations	32.00			3163.00	
Bullnose	3.00			3166.00	36.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57570

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 03:47:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

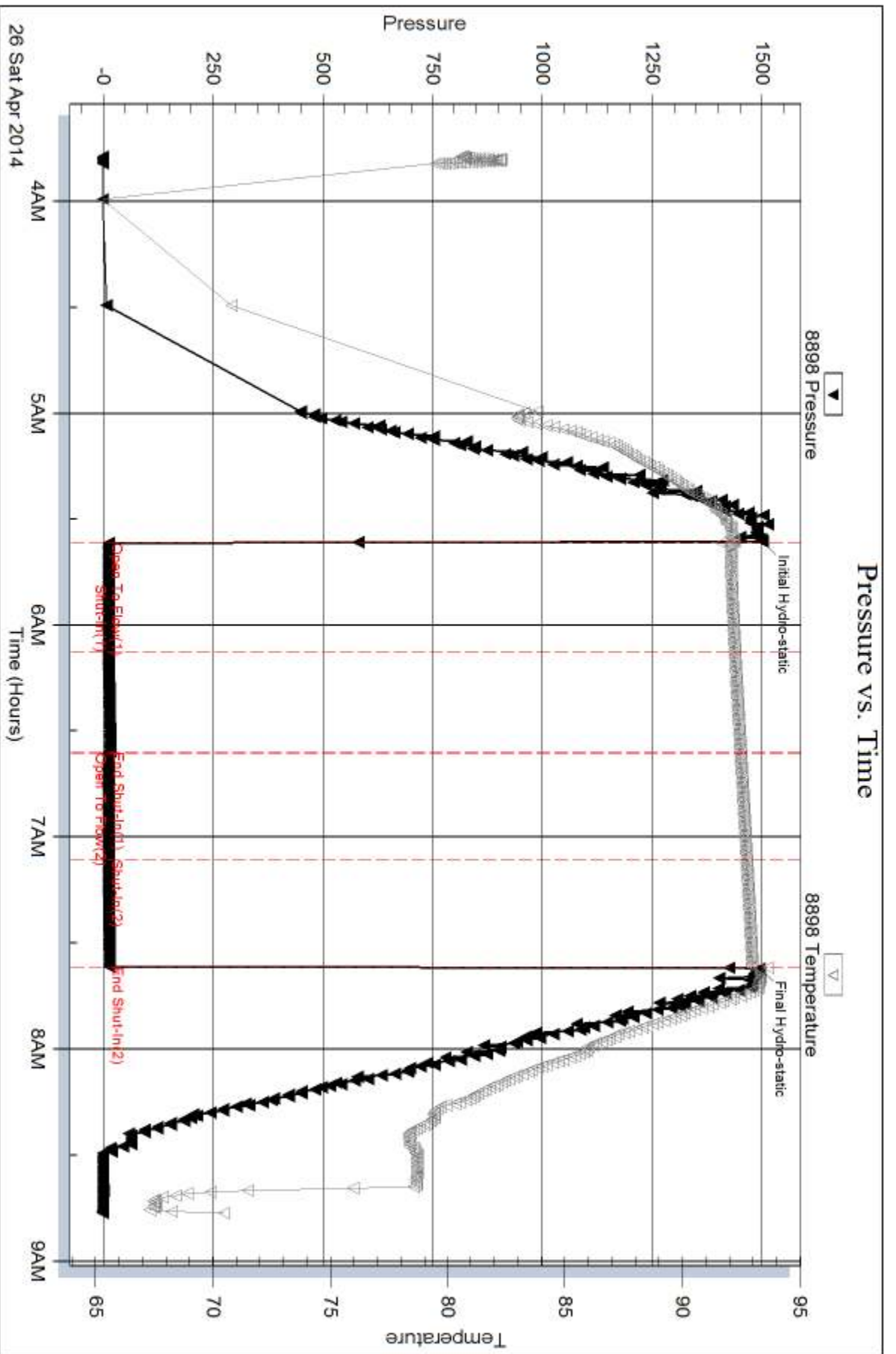
Num Gas Bombs: 0

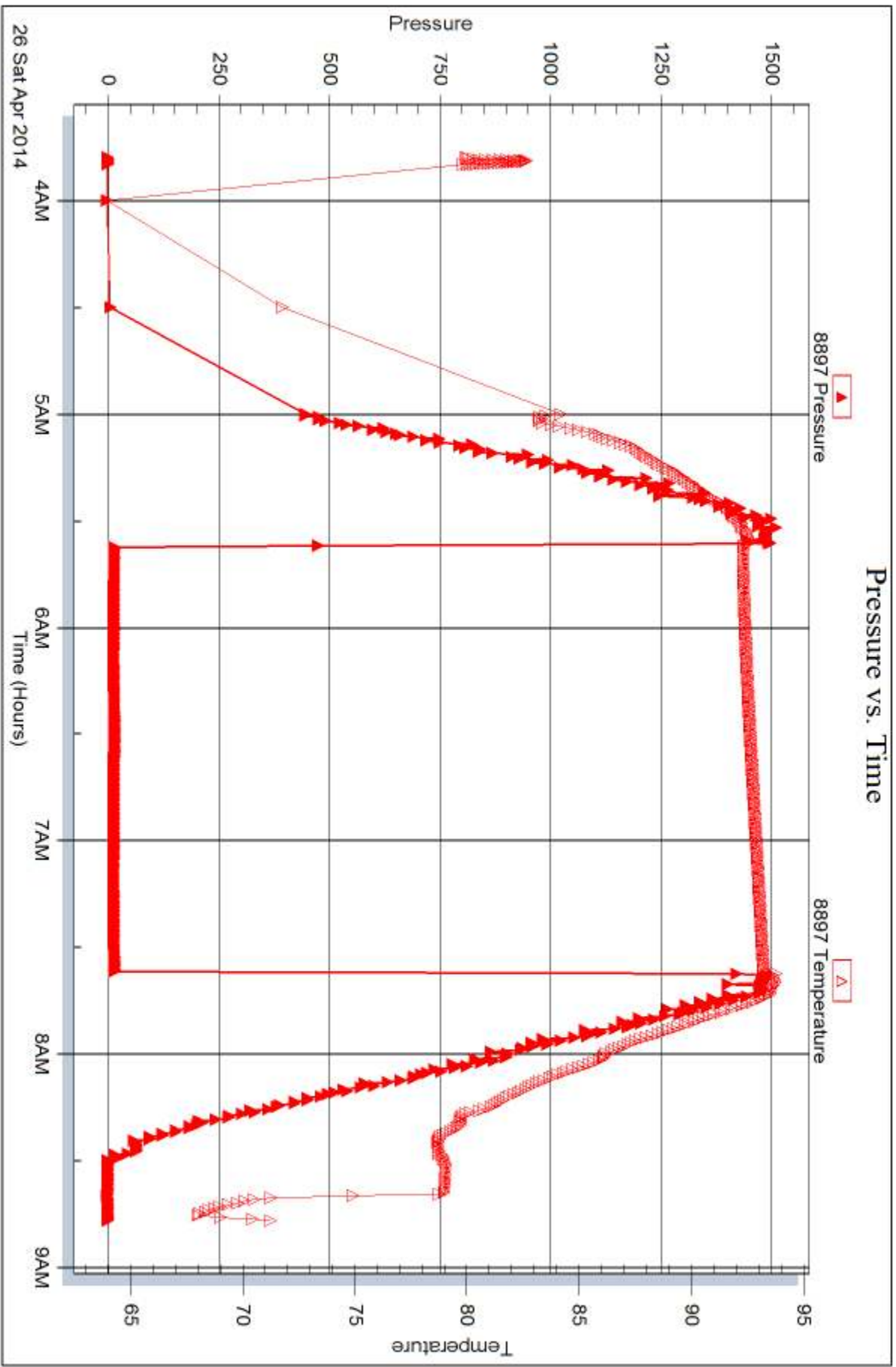
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell KS 67665

ATTN: Austin Klaus

Odle #1

36-5s-18w Phillips,KS

Start Date: 2014.04.26 @ 17:22:25

End Date: 2014.04.26 @ 22:27:34

Job Ticket #: 57571 DST #: 3

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

Printed: 2014.04.29 @ 14:16:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57571

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 17:22:25

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:45

Time Test Ended: 22:27:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3174.00 ft (KB) To 3228.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3228.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 16.25 psig @ 3175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.26

End Date: 2014.04.26

Last Calib.: 2014.04.26

Start Time: 17:22:26

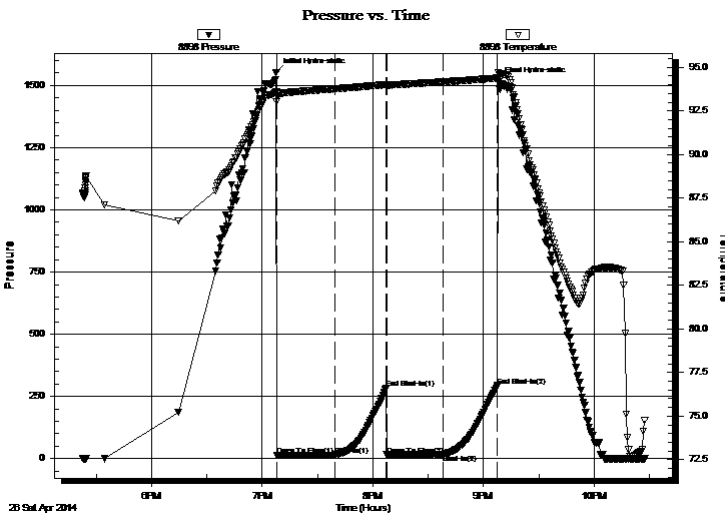
End Time: 22:27:35

Time On Btm: 2014.04.26 @ 19:07:35

Time Off Btm: 2014.04.26 @ 21:08:05

TEST COMMENT: Weak surface blow
Dead no blow back
Dead no blow
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1552.66	93.62	Initial Hydro-static
1	12.99	93.03	Open To Flow (1)
32	15.16	93.77	Shut-In(1)
60	282.11	94.01	End Shut-In(1)
60	15.02	93.88	Open To Flow (2)
91	16.25	94.16	Shut-In(2)
120	292.45	94.38	End Shut-In(2)
121	1516.00	94.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% m w ith oil spots	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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57571

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 17:22:25

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:45

Time Test Ended: 22:27:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3174.00 ft (KB) To 3228.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3228.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.26

End Date:

2014.04.26

Last Calib.:

2014.04.26

Start Time: 17:22:17

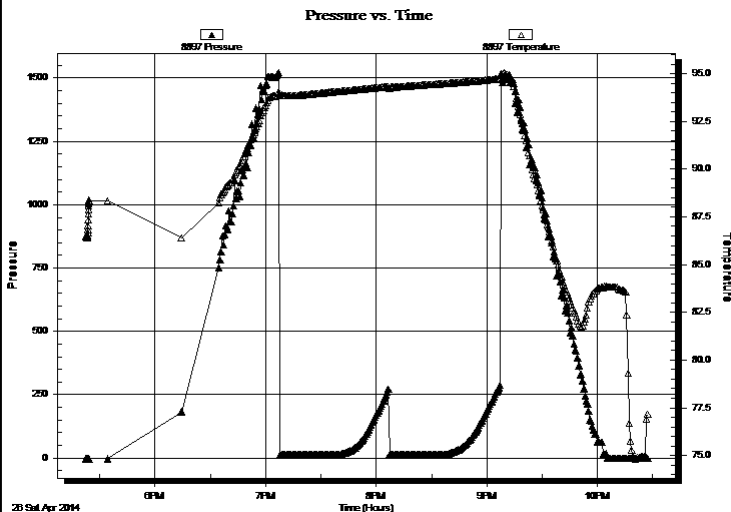
End Time:

22:27:26

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow
Dead no blow back
Dead no blow
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100% m w ith oil spots	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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57571

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 17:22:25

Tool Information

Drill Pipe:	Length: 3049.00 ft	Diameter: 3.80 inches	Volume: 42.77 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 43.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3174.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3159.00	
Hydraulic tool	5.00			3164.00	
Packer	5.00			3169.00	20.00 Bottom Of Top Packer
Packer	5.00			3174.00	
Stubb	1.00			3175.00	
Recorder	0.00	8897	Inside	3175.00	
Recorder	0.00	8898	Outside	3175.00	
Perforations	16.00			3191.00	
Change Over Sub	1.00			3192.00	
Drill Pipe	32.00			3224.00	
Change Over Sub	1.00			3225.00	
Bullnose	3.00			3228.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57571

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.26 @ 17:22:25

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: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 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 bbf
1.00	100% m with oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbf

Num Fluid Samples: 0

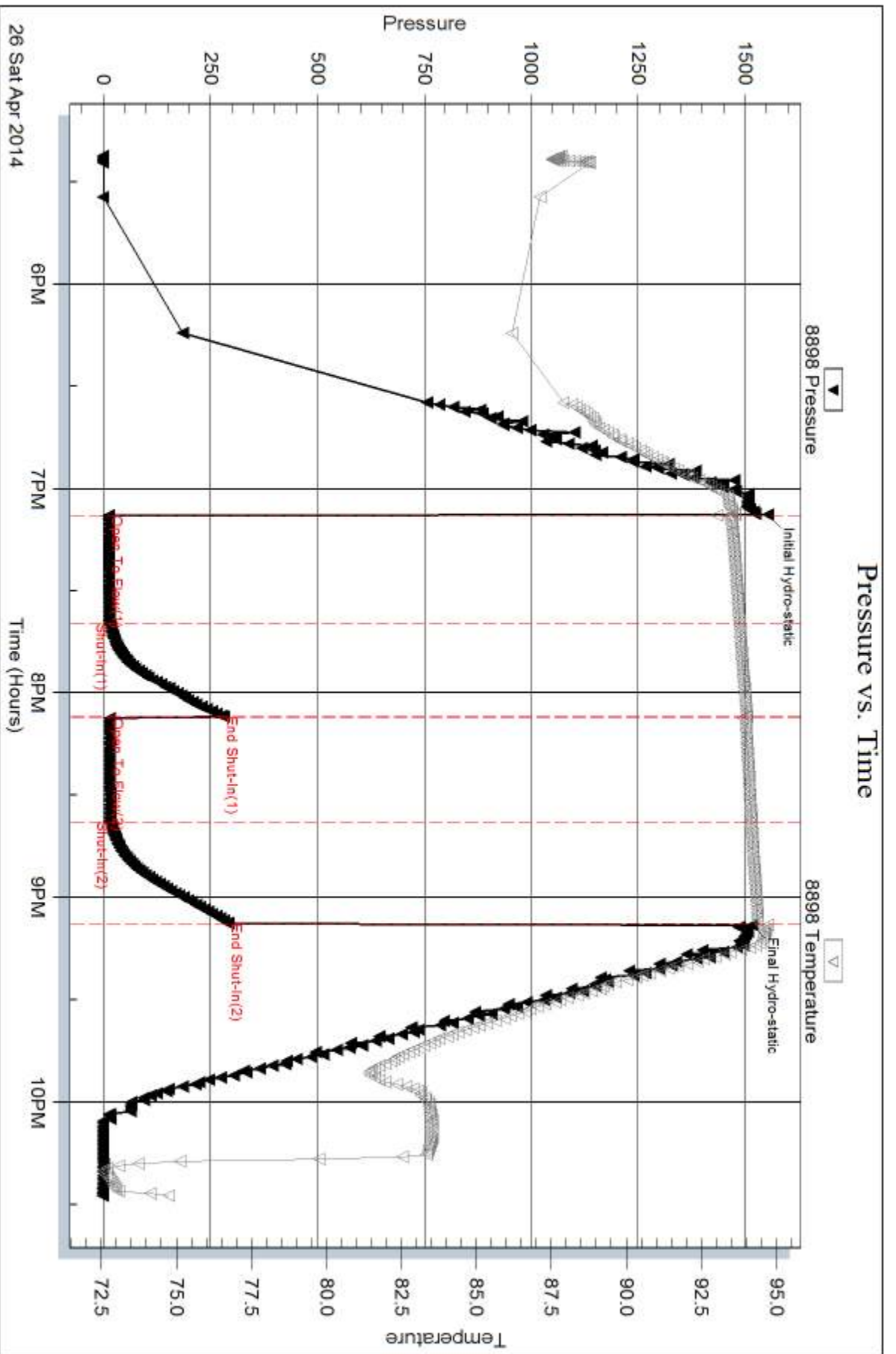
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



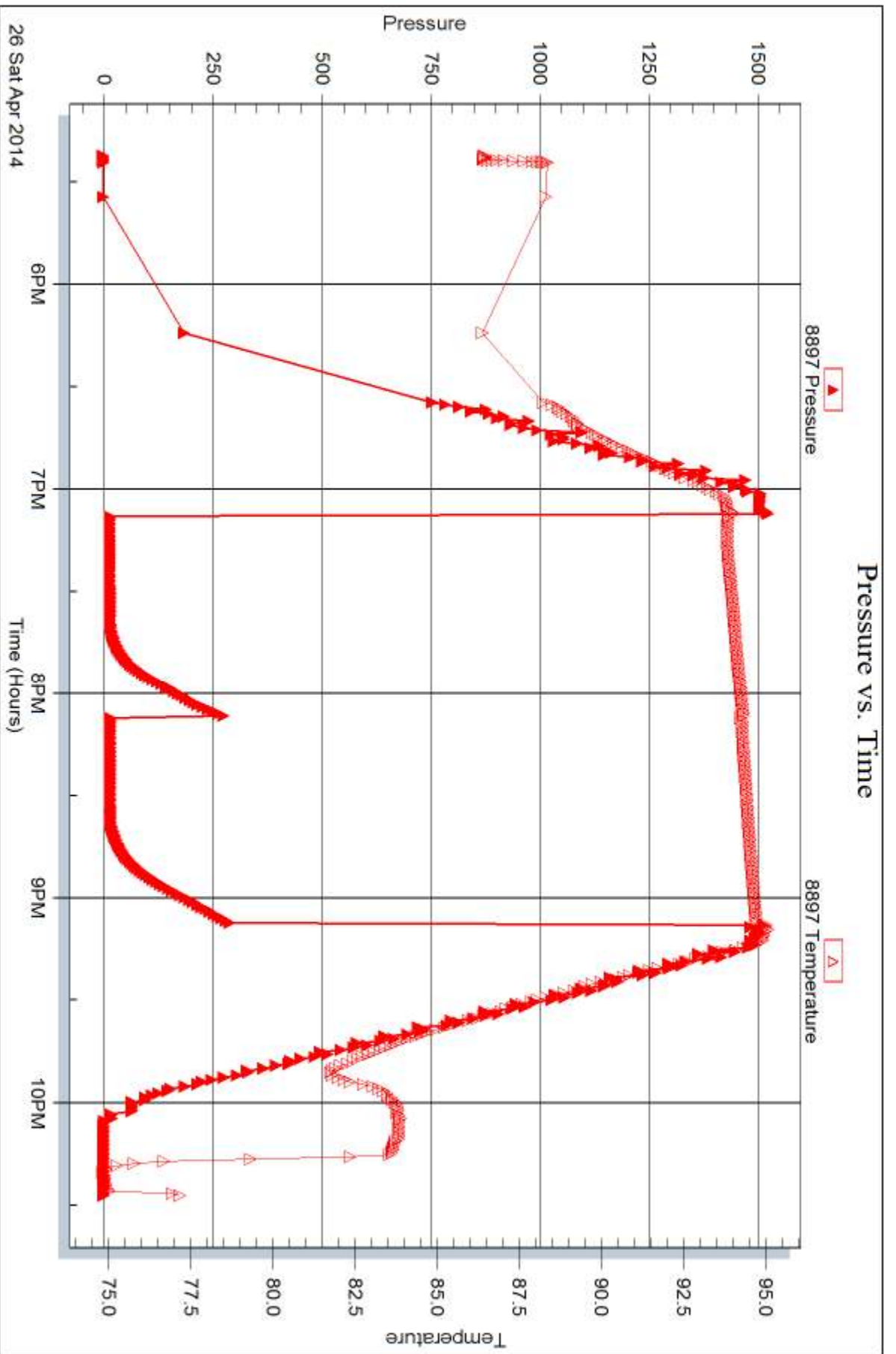
Serial #: 8897

Inside

John O Farmer Inc

Odle #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 57571

Printed: 2014.04.29 @ 14:16:44



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell KS 67665

ATTN: Austin Klaus

Odle #1

36-5s-18w Phillips,KS

Start Date: 2014.04.27 @ 10:06:50

End Date: 2014.04.27 @ 16:31:40

Job Ticket #: 57572 DST #: 4

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

Printed: 2014.04.29 @ 14:16:10

John O Farmer Inc
36-5s-18w Phillips,KS
Odle #1
DST # 4
LKC H-L
2014.04.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57572

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.27 @ 10:06:50

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:40:00

Time Test Ended: 16:31:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3217.00 ft (KB) To 3354.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 165.11 psig @ 3223.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.27 End Date: 2014.04.27

Last Calib.: 2014.04.27

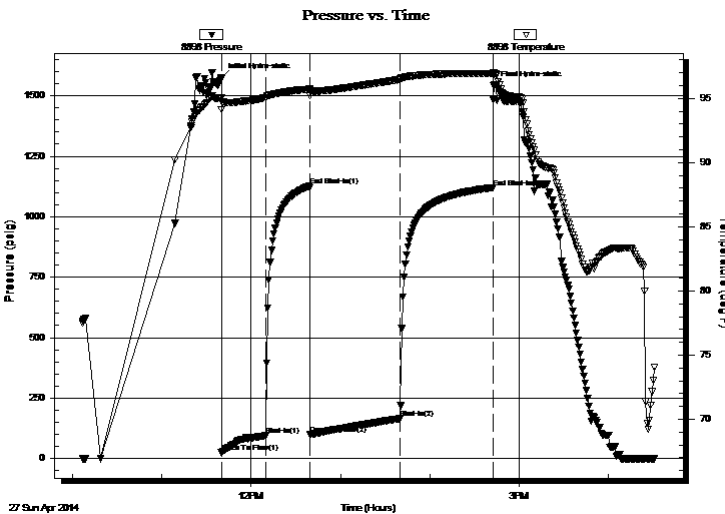
Start Time: 10:06:51 End Time: 16:31:40

Time On Btm: 2014.04.27 @ 11:39:50

Time Off Btm: 2014.04.27 @ 14:43:10

TEST COMMENT: Strong blow built to 9"
Dead no blow back
B.O.B. In 50 mins
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.70	95.04	Initial Hydro-static
1	23.87	94.13	Open To Flow (1)
30	94.54	95.08	Shut-In(1)
60	1127.41	95.73	End Shut-In(1)
60	101.57	95.21	Open To Flow (2)
121	165.11	96.49	Shut-In(2)
183	1120.55	96.93	End Shut-In(2)
184	1540.76	96.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100%M	0.37
240.00	20%M 80%W	2.96

* 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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57572

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.27 @ 10:06:50

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:40:00

Time Test Ended: 16:31:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3217.00 ft (KB) To 3354.00 ft (KB) (TVD)

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3354.00 ft (KB) (TVD)

1889.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3223.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.27

End Date: 2014.04.27

Last Calib.: 2014.04.27

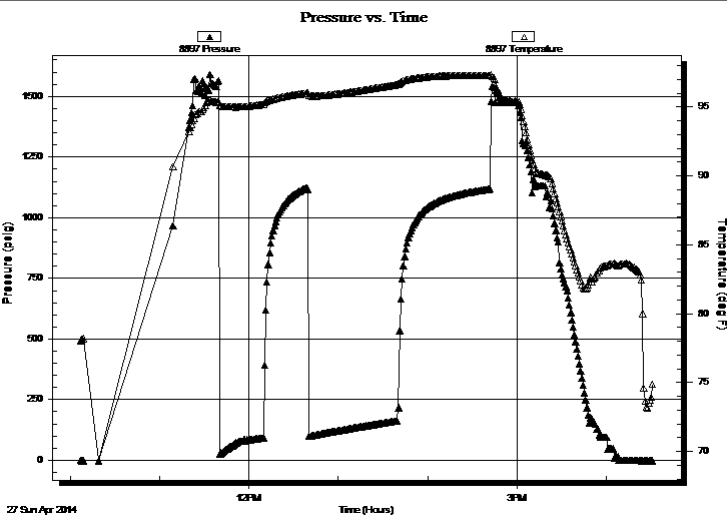
Start Time: 10:06:53

End Time: 16:31:42

Time On Btm:

Time Off Btm:

TEST COMMENT: Strong blow built to 9"
Dead no blow back
B.O.B. In 50 mins
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100%M	0.37
240.00	20%M 80%W	2.96

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

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57572

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.27 @ 10:06:50

Tool Information

Drill Pipe:	Length: 3080.00 ft	Diameter: 3.80 inches	Volume: 43.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 43.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3217.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	137.00 ft				
Tool Length:	157.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3202.00	
Hydraulic tool	5.00			3207.00	
Packer	5.00			3212.00	20.00 Bottom Of Top Packer
Packer	5.00			3217.00	
Stubb	1.00			3218.00	
Perforations	5.00			3223.00	
Recorder	0.00	8897	Inside	3223.00	
Recorder	0.00	8898	Outside	3223.00	
Change Over Sub	1.00			3224.00	
Drill Pipe	126.00			3350.00	
Change Over Sub	1.00			3351.00	
Bullnose	3.00			3354.00	137.00 Bottom Packers & Anchor

Total Tool Length: 157.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

36-5s-18w Phillips,KS

370 W Wichita Ave
Russell KS 67665

Odle #1

Job Ticket: 57572

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.27 @ 10:06:50

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:

65000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 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
75.00	100%M	0.369
240.00	20%M 80%W	2.957

Total Length: 315.00 ft Total Volume: 3.326 bbl

Num Fluid Samples: 0

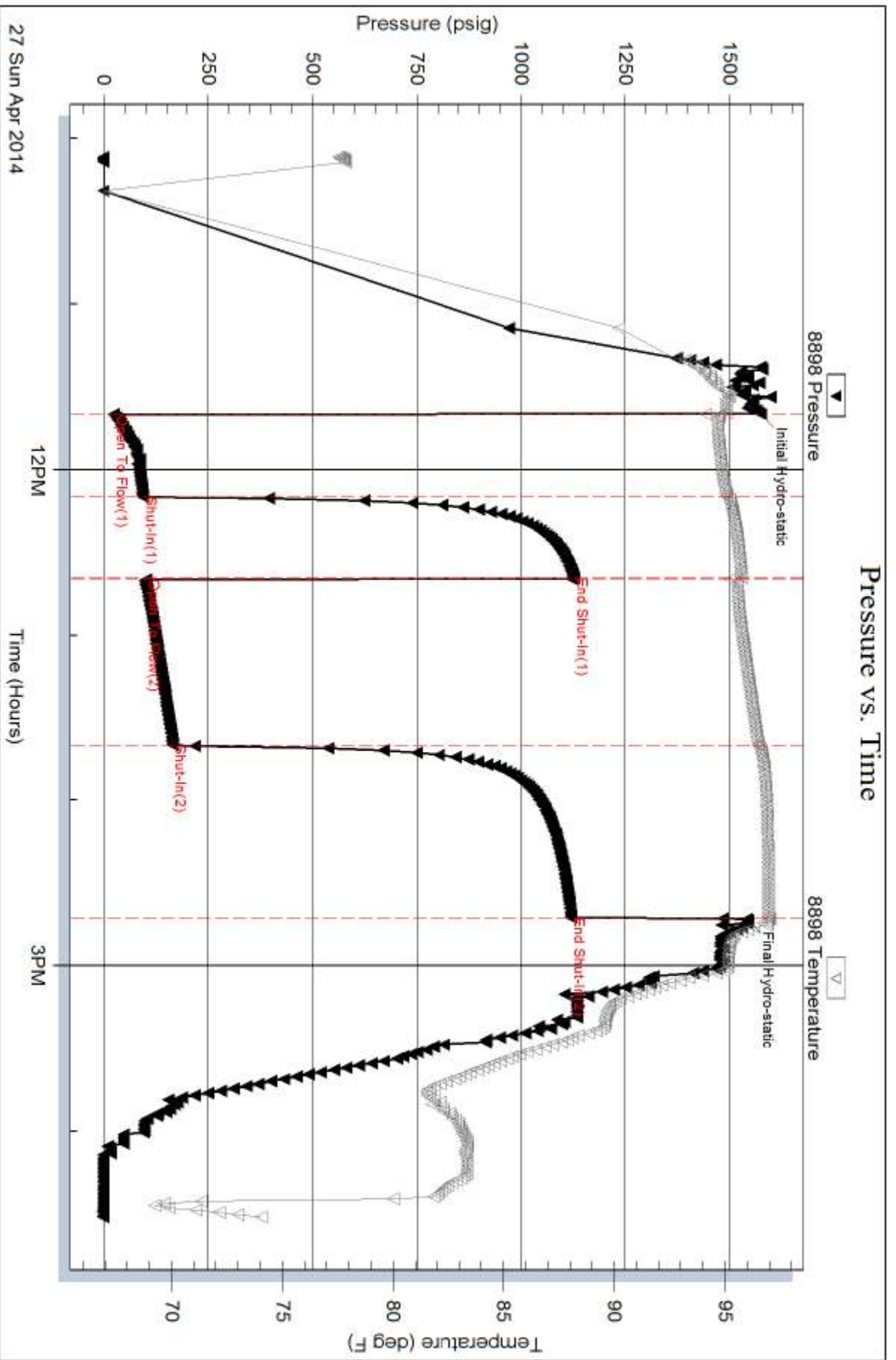
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



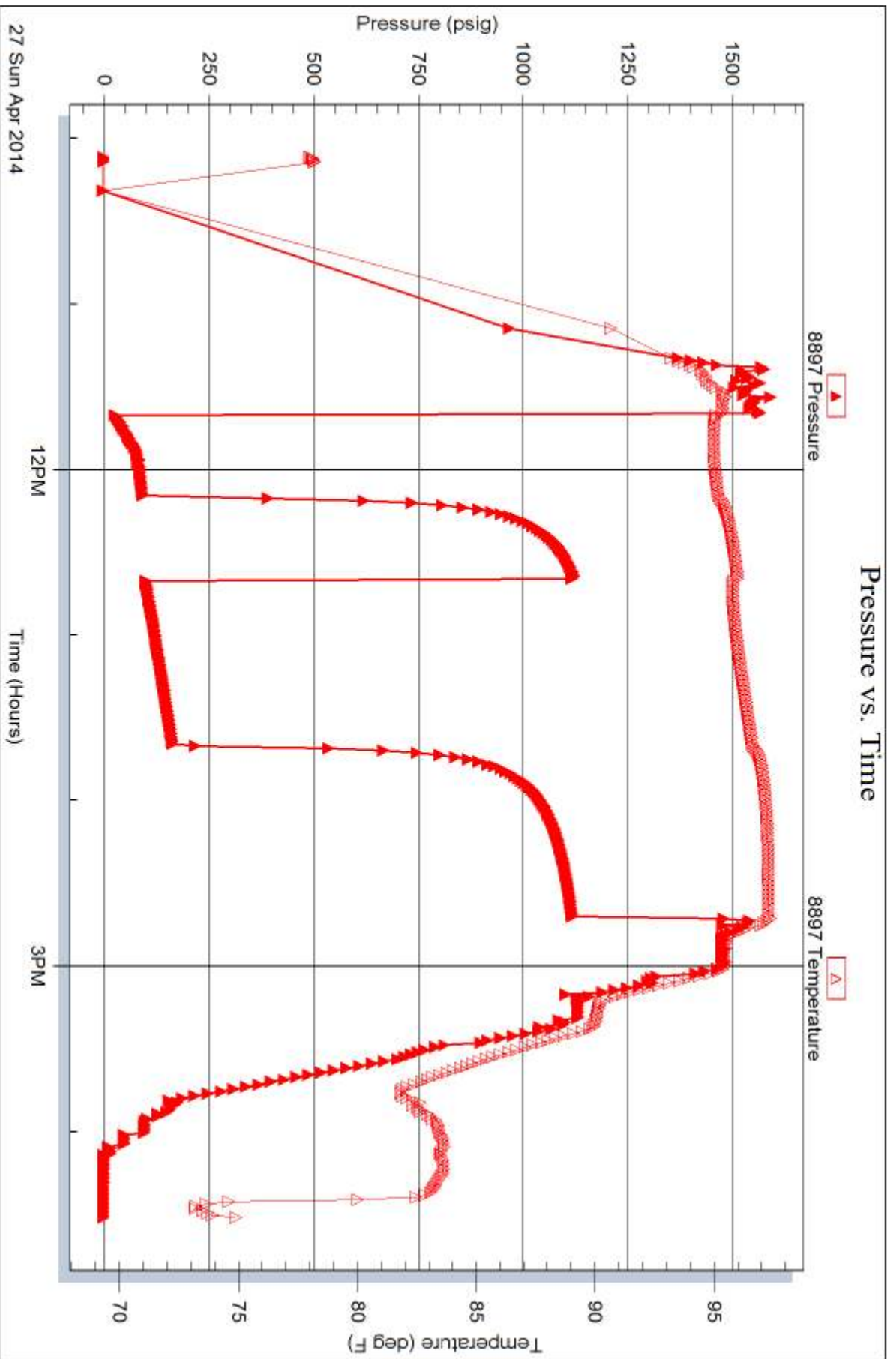
Serial #: 8897

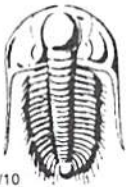
Inside

John O Farmer Inc

Odle #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57569

Well Name & No. Odle #1 Test No. 1 Date 4-25-14
 Company John O. Farmer Inc Elevation 1894 KB 1889 GL
 Address 370 W Wichita AVE 67665
 Co. Rep / Geo. Austin Klause Rig WW#C
 Location: Sec. 3E Twp. 5S Rge. 18W Co. Phillips State KS

Interval Tested 3093 3120 Zone Tested LKC "A"
 Anchor Length 27 Drill Pipe Run 2984 Mud Wt. 9.2
 Top Packer Depth 3089 Drill Collars Run 120 Vis 5.2
 Bottom Packer Depth 3093 Wt. Pipe Run 0 WL 7.6
 Total Depth 3120 Chlorides 1500 ppm System LCM 2#
 Blow Description Slid 10' weak surface blow built to 1/2 in
Dead No blow back
Dead No blow
Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>mud with Dil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

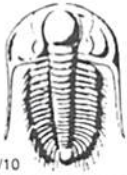
Rec Total 120 BHT 94 Gravity 1150 API RW 1150 @ 1150 °F Chlorides 1500 ppm

(A) Initial Hydrostatic 1524 Test 1150 T-On Location 11:50
 (B) First Initial Flow 77 Jars T-Started 13:38
 (C) First Final Flow 81 Safety Joint T-Open 15:48
 (D) Initial Shut-In 110 Circ Sub T-Pulled 17:48
 (E) Second Initial Flow 155 Hourly Standby T-Out 19:01
 (F) Second Final Flow 167 Mileage 98R/1 151.90 Comments
 (G) Final Shut-In 581 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1478 Straddle Ruined Packer
 Shale Packer Extra Copies
 Extra Packer Extra Recorder
 Extra Recorder Day Standby
 Accessibility

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

Sub Total 1301.90
 Total 1301.90
 MP/DST Disc't

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57570

Well Name & No. Odle #1 Test No. 2 Date 4-26-14
 Company John O Farmer Elevation 1894 KB 1889 GL
 Address 370 W Wichita AVE Russell KS 67665
 Co. Rep / Geo. Austin Haws Rig WW #6
 Location: Sec. 36 Twp. 5S Rge. 18W Co. Phillips State KS

Interval Tested 3130 3166 Zone Tested LHC 11/11
 Anchor Length 36 Drill Pipe Run 3018 Mud Wt. 9.2
 Top Packer Depth 3125 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 3130 Wt. Pipe Run 0 WL 76
 Total Depth 3166 Chlorides 1500 ppm System LCM 2#

Blow Description Weak surface blow with to 1/4 in
Dead no slow back
Dead no slow
Dead no slow back

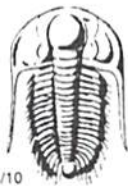
Rec	Feet of	%gas	%oil	%water	%mud
Rec 1	Feet of <u>mud</u>				<u>100%</u>

Rec Total 1 BHT 94 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1501 Test 1150 T-On Location 03:20
 (B) First Initial Flow 13 Jars _____ T-Started 03:47
 (C) First Final Flow 12 Safety Joint _____ T-Open 05:36
 (D) Initial Shut-In 16 Circ Sub _____ T-Pulled 07:36
 (E) Second Initial Flow 12 Hourly Standby _____ T-Out 08:47
 (F) Second Final Flow 12 Mileage 151.90 Comments _____
 (G) Final Shut-In 15 Sampler _____
 (H) Final Hydrostatic 1495 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Sub Total 1301.90 Accessibility _____
 Sub Total 1301.90

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. 57571

Well Name & No. Odle #1 Test No. 3 Date 4-26-14
 Company John O Farmer Elevation 1894 KB 1889 GL
 Address 370 W Wichita AVE Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW #6
 Location: Sec. 36 Twp. 55 Rge. 18W Co. Phillips State KS

Interval Tested 3174 3228 Zone Tested LHC "E-G"
 Anchor Length 54 Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 3169 Drill Collars Run 120 Vis 4.2
 Bottom Packer Depth 3174 Wt. Pipe Run 0 WL 8.0
 Total Depth 3228 Chlorides 2000 ppm System LCM 2A

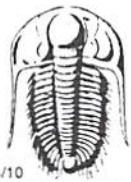
Blow Description Wealth surface blow
Dead no blow back
Drach no blow
Dead no slow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec 1	Feet of <u>mud with oil spots</u>				<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 94 BHT 1553 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 13 Test 1150 T-On Location 16:47
 (B) First Initial Flow 15 Jars _____ T-Started 17:27
 (C) First Final Flow 282 Safety Joint _____ T-Open 19:08
 (D) Initial Shut-In 15 Circ Sub _____ T-Pulled 21:08
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 22:57
 (F) Second Final Flow 292 Mileage 151.90 Comments _____
 (G) Final Shut-In 1516 Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In 30
 Sub Total 0
 Total 1301.90
 MP/DST Disc't _____
 Sub Total 1301.90

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. 57572

Well Name & No. Odle #1 Test No. 4 Date 4-27-14
 Company John O Farmer Elevation 1894 KB 1889 GL
 Address 370 W Wichita AVE Russell MS 67665
 Co. Rep / Geo. Austin Klaus Rig WW#C
 Location: Sec. 36 Twp. 5S Rge. 18W Co. Phillips State KS

Interval Tested 3217 3354 Zone Tested LHC "H-2"
 Anchor Length 137 Drill Pipe Run 3080 Mud Wt. 9.1
 Top Packer Depth 3212 Drill Collars Run 120 Vis 42
 Bottom Packer Depth 3217 Wt. Pipe Run 0 WL 8.0
 Total Depth 3354 Chlorides 2000 ppm System LCM 2#

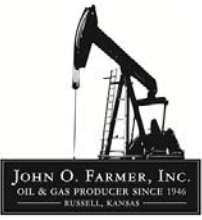
Blow Description Strong blow built to 9 in
Dead no blow back
B.O.B. IN 50 mins
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
75	Mud				
240	MKW			80	20

Rec Total 315 BHT 95 Gravity _____ API RW .121 @ 75 °F Chlorides 65000 ppm
 (A) Initial Hydrostatic 1574 Test 1150 T-On Location 10:05
 (B) First Initial Flow 24 Jars _____ T-Started 10:06
 (C) First Final Flow 95 Safety Joint _____ T-Open 11:40
 (D) Initial Shut-In 1127 Circ Sub _____ T-Pulled 14:40
 (E) Second Initial Flow 102 Hourly Standby _____ T-Out 16:31
 (F) Second Final Flow 165 Mileage X2 303.80 Comments Loaded
 (G) Final Shut-In 1121 Sampler _____ 4-28-14
 (H) Final Hydrostatic 1541 Straddle _____ 6:00 AM

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 60 Extra Packer _____
 Final Shut-In 60 Extra Recorder _____
 Sub Total 0
 Total 1453.80
 MP/DST Disc't _____
 Sub Total 1453.80

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



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

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

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

Well Name: Odle #1
Location: Phillips County
License Number: API #15-147-20,736-0000
Spud Date: 4/22/14
Surface Coordinates: Section 36, Township 5 South, Range 18 West
560' FSL & 1,410' FEL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,889' K.B. Elevation (ft): 1,894'
Logged Interval (ft): 2,800' To: 3,448' Total Depth (ft): 3,450'
Formation: LKC
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 4/28/14

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

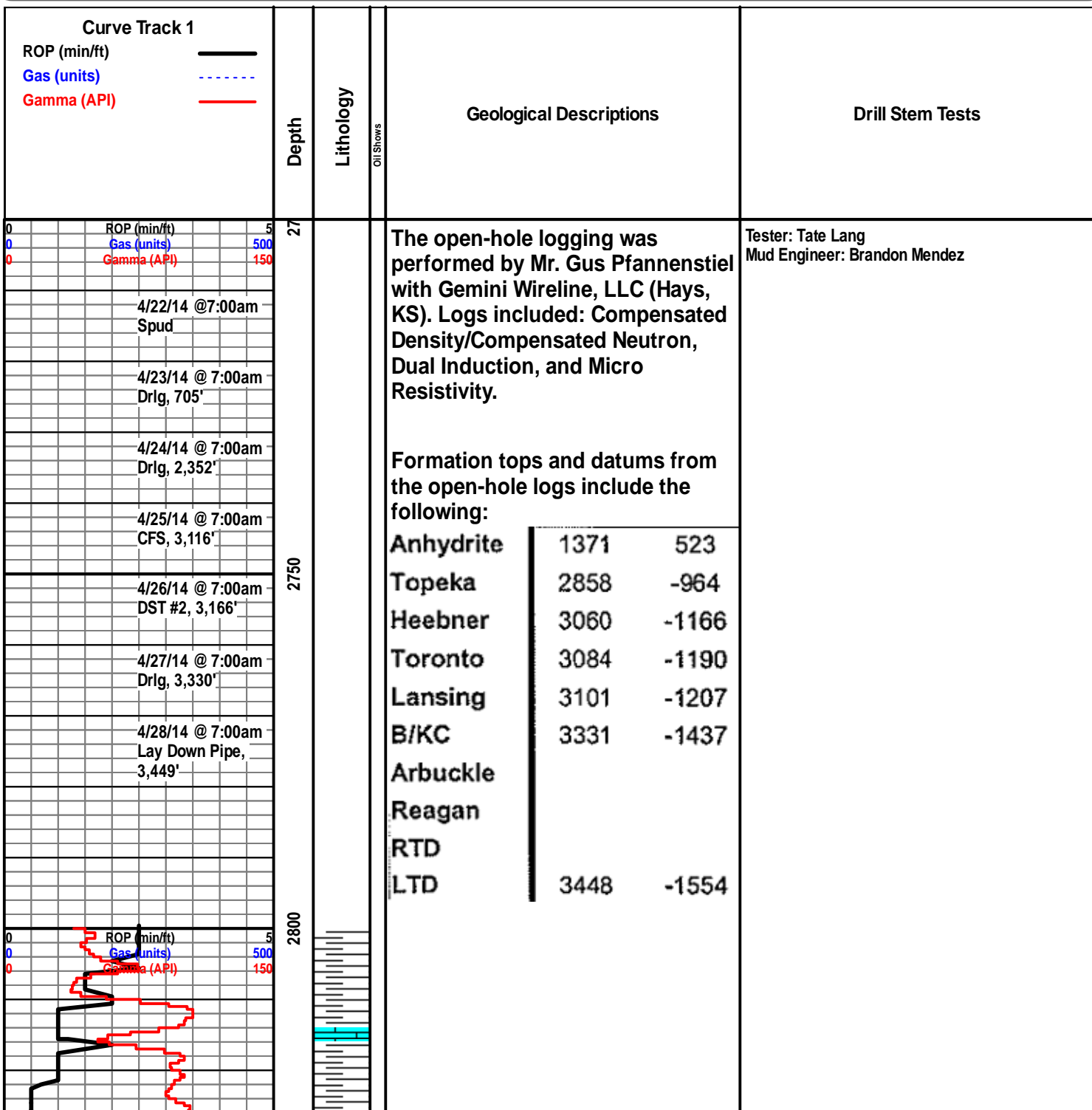
The location for the Odle #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,900'-3,450'. Four bottom-hole tests were conducted in the Lansing, all of which yielded negative results. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to pump and abandon the Odle #1 well on 4/28/14.

ROCK TYPES

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

OTHER SYMBOLS

POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	<input checked="" type="checkbox"/> Spotted	EVENT
<input type="checkbox"/> Earthy	SORTING	<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest	<input type="checkbox"/> Well	<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture	<input type="checkbox"/> Moderate	<input type="checkbox"/> Subang	INTERVAL	
<input type="checkbox"/> Inter	<input type="checkbox"/> Poor	<input type="checkbox"/> Angular	<input type="checkbox"/> Core	
<input type="checkbox"/> Moldic		OIL SHOW	<input type="checkbox"/> Dst	
<input type="checkbox"/> Organic		<input checked="" type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint				



Topeka 2858' (-964)

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

Sh: lt-drk gry

Sh: ala

Ls: tan-gry, fn-sub xln, mostly DNS, scat chert-off wh

Sh: drk gry-brn

Sh: drk gry-blk

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

Ls: tan-buff, fossil, mostly DNS, scat int fossil porosity, chalky

Ls: tan-lt gry, fn-sub xln, mostly DNS, chalky, no visible porosity

Sh: lt-drk gry-grn, soft

Ls: tan-gry, fossil, mostly DNS, scat chalk, chert-off wh

Sh: lt gry, soft

Sh: drk gry-brn-rd

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

Ls: ala

Sh: drk gry-grn, soft

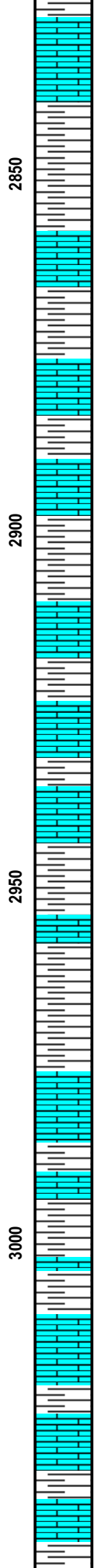
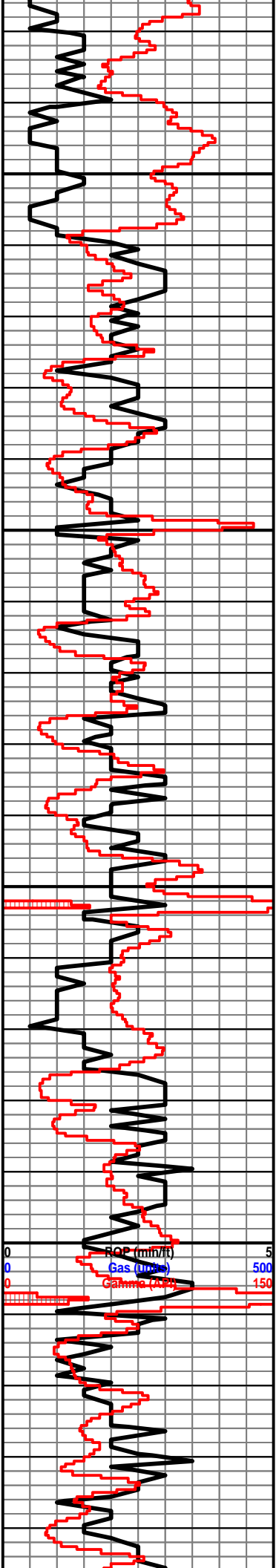
Sh: ala

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

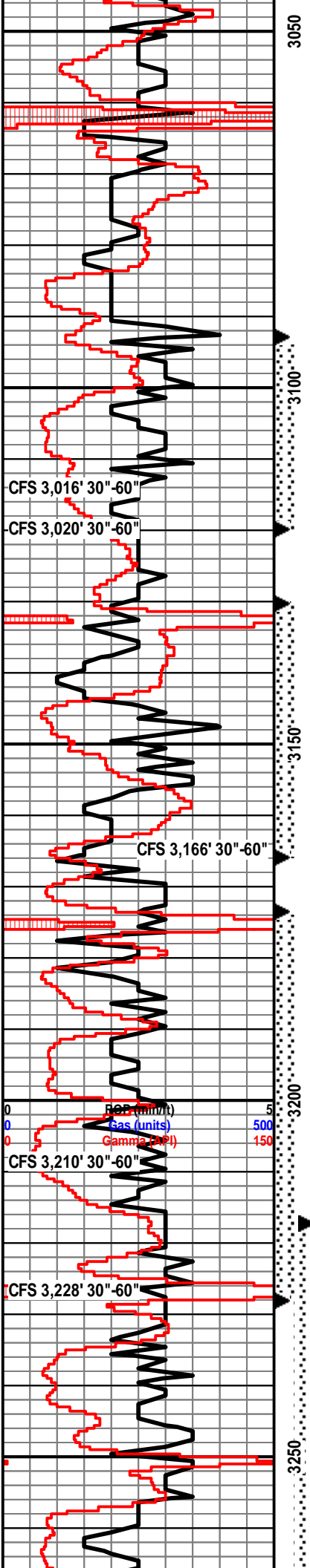
Ls: tan-gry, fn-sub xln, mostly DNS, hvy chert-off wh, no visible porosity, NSFO

Sh: drk gry

Ls: tan-gry-brn, fn-sub xln, vry DNS, scat fossil, no visible porosity, scat chalk



ROP (min/ft) 5
Gas (lb/ft³) 500
Gamma (API) 150



Ls: tan-gry, fn xln, vry DNS, no visible porosity, scat chalk

Heebner 3062' (-1168)

Sh: drk gry-blk, carb, fissile

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

Sh: drk gry-brn-grn, vry soft

Sh: ala

Toronto 3091' (-1197)

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

Sh: drk gry, scat brn

Lansing 3106' (-1212)

Ls: off wh, fn xln, poor int xln porosity, fair oil sat, SSFO, fair odor, hvy chert-off wh, scat pyrite, sl fossil

Sh: drk gry

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

Sh: drk gry-brn-grn

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

Sh: drk gry-brn-rd

Sh: drk gry-drk brn-rd-grn, few pcs soft

Ls: off wh-tan, fn xln, no visible porosity, scat chert-off wh, chalky

Sh: drk gry-blk

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

Ls: off wh-tan, fn xln, vry poor int xln porosity, fossil, VSSFO, sl odor, scat chert-off wht, chalky

Sh: lt gry

Ls: off wh, fn xln, fossil, scat int xln porosity, sl oil st in porosity, SSFO, lt odor, chert-off wh

Sh: drk gry-brn-grn

Sh: blk, carb

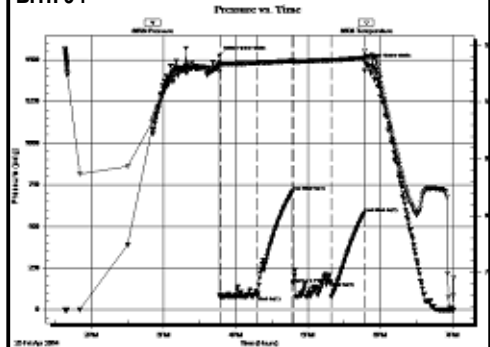
Ls: off wh-lt gry, fn-sub xln, vry DNS, no visible porosity, NSFO, hvy chert-off wh, sl chalky

Sh: lt-drk gry-brn, soft

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

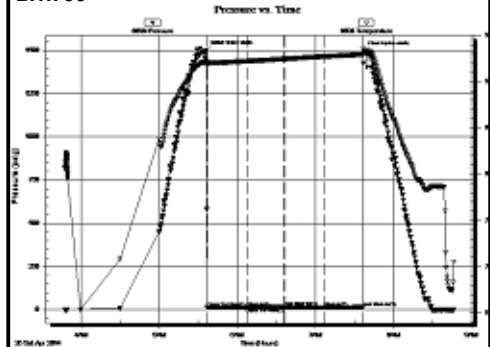
DST #1 3,093'-3,120' (Lansing A)
30"-30"-30"-30"

IF: weak blow built to 1/2"
FF: no blow
Rec: 120' M
FP: 77-81, 155-167#
SIP: 710-581#
HP: 1,524-1,478#
BHT: 94



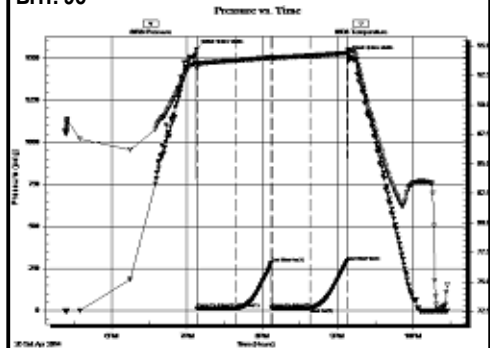
DST #2 3,130'-3,166' (Lansing C)
30"-30"-30"-30"

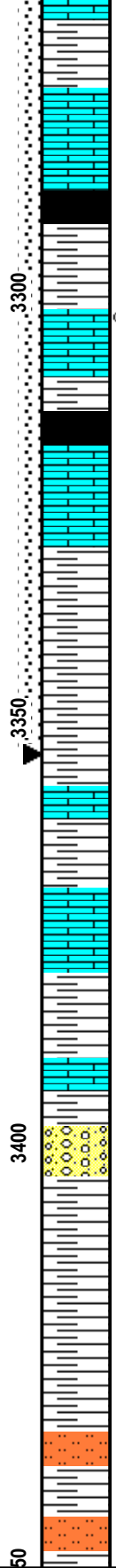
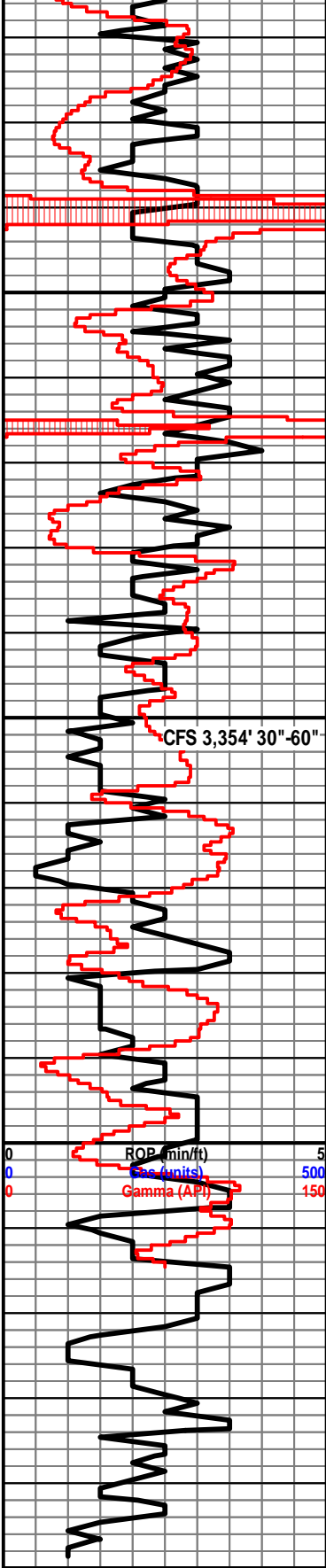
IF: weak blow built to 1/4"
FF: no blow
Rec: 1' M
FP: 13-12, 12-12#
SIP: 16-15#
HP: 1,501-1,495#
BHT: 93



DST #3 3,174'-3,228' (Lansing E-G)
30"-30"-30"-30"

IF: weak surface blow
FF: no blow
Rec: 1' M
FP: 13-15, 15-16#
SIP: 282-292#
HP: 1,553-1,516#
BHT: 95





Sh: lt-drk gry, vry soft

Ls: off wh, fn xln, scat fossil, poor int xln porosity, sl oil st, NSFO, no odor, scat chert-off wh

Sh: drk gry-brn, scat blk, carb

Ls: off wh, fn xln, fossil, scat int fossil porosity, sl oil st in porosity, VSSFO, chert-off wh, scat chalk

Sh: drk gry-blk, carb

Sh: drk gry

Ls: off wh, fn-sub xln, scat int xln porosity, scat oil sat, NSFO, no odor, hvy chert, chalky

B/KC 3333' (-1439)

Sh: drk gry-brn-rd, soft

Sh: drk gry-brn-grn, scat congl: vry DNS

Sh: drk gry-brn, soft

Ls: off wh-tan, fn-sub xln, vry DNS, NSFO, scat sh: drk gry-brn-grn

Ls: ala

Cong: off wh-tan, fn-sub xln, vry DNS

Sh: drk gry-brn-rd, vry soft

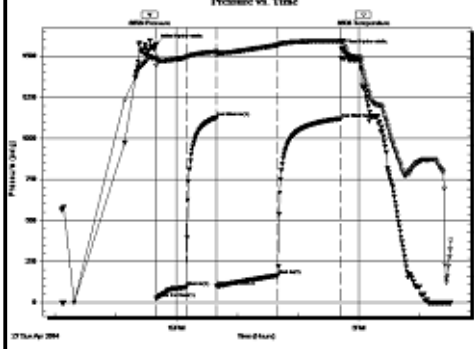
Sh: drk gry-grn

Sh: drk gry-brn-yel, soft

Sh: drk gry-drk brn-rd, soft

Sh: drk brn-rd-yellow, vry soft

DST #4 3,217'-3,354' (Lansing H-L)
 30"-30"-60"-60"
 IF: weak blow built to 9"
 FF: BOB in 50 minutes, no blow back
 Rec: 75' M, 240' MW (20%M, 80%W) (Chl. 65K)
 FP: 24-95, 102-165#
 SIP: 1,127-1,121#
 HP: 1,574-1,541#
 BHT: 97



Wt: 9.2
 Vis: 53