

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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
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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				

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	Carmen Schmitt, Inc.
Well Name	WP UNIT 4-7
Doc ID	1378157

All Electric Logs Run

Gamma ray
Dual Induction
Dual Comp Porosity
Micro

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	WP UNIT 4-7
Doc ID	1378157

Tops

Name	Top	Datum
Anhydrite	1888	547
Heebner Sh	3668	-1233
Toronto	3688	-1253
Lansing	3708	-1273
Muncie Creek	3852	-1417
B/KC	3988	-1553
Marmaton	4034	-1599
Altamont	4056	-1621
Pawnee	4136	-1701
Ft. Scott	4198	-1763
Cherokee Sh	4221	-1786
Miss	4279	-1844



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE:785-324-1041 FAX:785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 12/4/2017
 Invoice # 559
 P.O.#:
 Due Date: 1/3/2018
 Division: Russell

Invoice

Contact:
 Carmen Schmitt Inc
 Address/Job Location:

P.O. Box 47
 Great Bend Ks 67530

Reference:
 W P UNIT 4-7 SEC 7-14-25

Description of Work:
 SURFACE JOB

7/10/43
 19004.0407
 Well R/A
 Surface Cement

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Common-Class A	120	\$ 1,667.86	Yes				
Calcium Chloride	6	\$ 226.70	Yes				
POZ Mix-Standard	30	\$ 141.69	Yes				
Pump Truck Mileage-Job to Nearest Camp	39	\$ 118.41	No				
Bulk Truck Matl-Material Service Charge	159	\$ 107.28	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	39	\$ 92.10	No				
Premium Gel (Bentonite)	3	\$ 58.70	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,014.69
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (75.37)

SubTotal for Taxable Items: \$ 2,042.57
 SubTotal for Non-Taxable Items: \$ 896.76

8.00% Trego County Sales Tax

Total: \$ 2,939.32
 Tax: \$ 163.41
Amount Due: \$ 3,102.73
 Applied Payments:
Balance Due: \$ 3,102.73

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 559

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-4-17	7	14	25	Trego	KS		7:45 pm

Location Calver 145 UR 1/4W Pinto

Lease	Well No.	Owner
WP Unit	4-7	To Quality Oilwell Cementing, Inc.

Contractor	Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Murkin #16	Surface		

Hole Size	T.D.	Charge To
12 1/4	218	Carmen Schmitt

Csg.	Depth	Street
8 5/8	217	

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
10		150 8/20 3/4 2/GER

Meas Line	Displace
	133L

EQUIPMENT			
Pumptrk	No.	Cement Helper	Common
20		6	120
Bulktrk	No.	Driver	Poz. Mix
		BITT	30
Bulktrk	No.	Driver	Gel.
15		Jordan	2
			Calcium
			6

JOB SERVICES & REMARKS	
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Remarks:	Hulls

Rat Hole	Salt

Mouse Hole	Flowseal

Centralizers	Kol-Seal

Baskets	Mud CLR 48

DV or Port Collar	CFL-117 or CD110 CAF 38

	Sand

	Handling
	159

	Mileage

FLOAT EQUIPMENT	
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	Guide Shoe
	8 5/8 surge

	Centralizer

	Baskets

	AFU Inserts

	Float Shoe

	Latch Down

	Pumptrk Charge
	Sur Face

	Mileage
	39

	Tax

	Discount

	Total Charge

X Signature	
Ray Daniel	



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
12/12/2017	30832

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#4-7	WP Unit	Trego	Murfin Drilling Ri...	Oil	Development	Cement Long Str...	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	60	Miles	5.00	300.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString	1	Job	1,700.00	1,700.00
290	D-Air	7	Gallon(s)	42.00	294.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
402-5	5 1/2" Centralizer	12	Each	60.00	720.00T
403-5	5 1/2" Cement Basket	3	Each	250.00	750.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	300.00	300.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)	450	Sacks	15.75	7,087.50T
325	Standard Cement	150	Sacks	12.25	1,837.50T
284	Calseal	7	Sack(s)	30.00	210.00T
283	Salt	800	Lb(s)	0.20	160.00T
285	CFR-1	70	Lb(s)	4.50	315.00T
276	Flocele	150	Lb(s)	2.25	337.50T
581D	Service Charge Cement	600	Sacks	1.50	900.00
583D	Drayage	1,814.64	Ton Miles	0.75	1,360.98
	Subtotal				17,422.48
	Sales Tax Trego County			8.00%	1,052.92

7/12/43
19004.0407
Well File
Swift Long String

We Appreciate Your Business!	Total	\$18,475.40
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CHARGE TO: *Carmen Schmitt*

ADDRESS:

CITY, STATE, ZIP CODE:

SERVICE LOCATIONS		WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY
1. <i>Hays, KS</i>		<i>4-7</i>	<i>WT Unit</i>	<i>Twp 40</i>	<i>KS</i>	
2. <i>Ness City, KS</i>		TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO
3.		<input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	<i>Murfin Drilling</i>	<i>#1</i>	<i>CT</i>	<i>Location</i>
4.		WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.
REFERRAL LOCATION		<i>Oil</i>	<i>Development</i>	<i>Cement Long String</i>		
		INVOICE INSTRUCTIONS				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U
		LOC	ACCT	DF					
<i>575</i>		<i>1</i>			<i>MILEAGE #113</i>	<i>60</i>	<i>mi</i>		
<i>579</i>		<i>1</i>			<i>Pump Charge - Top to Bottom Long String</i>	<i>1</i>	<i>EA</i>		
<i>290</i>		<i>1</i>			<i>D-AIR</i>	<i>7</i>	<i>gal</i>		
<i>221</i>		<i>1</i>			<i>Liquid KCL</i>	<i>4</i>	<i>gal</i>		
<i>281</i>		<i>1</i>			<i>Mud Flush</i>	<i>500</i>	<i>gal</i>		
<i>402</i>		<i>1</i>			<i>Centralizer</i>	<i>12</i>	<i>EA</i>	<i>5 1/2"</i>	
<i>403</i>		<i>1</i>			<i>Cement Basket</i>	<i>3</i>	<i>EA</i>		
<i>406</i>		<i>1</i>			<i>Latch Down Plug & Baffle</i>	<i>1</i>	<i>EA</i>		
<i>407</i>		<i>1</i>			<i>Insert Float Shoe w/ Auto Fill</i>	<i>1</i>	<i>EA</i>		
<i>419</i>		<i>1</i>			<i>Rotating Head Rental</i>	<i>1</i>	<i>EA</i>		

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Curtis Hitzelmann*

DATE SIGNED: _____ TIME SIGNED: _____

A.M.
 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	A
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this invoice.

SWIFT OPERATOR: *[Signature]* APPROVAL: _____



PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER *Carmen Schmitt* WELL *WP Unit #4-7*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M
330		2				<i>Swift Multi-Density Standard</i>	450	SKS	44780	16
325		2				<i>Standard Cement</i>	150	SKS	14100	16
284		2				<i>Calseal</i>	7	SKS	700	16
283		2				<i>Salt</i>	800	lbs		
285		2				<i>CFB-1</i>	70	lbs		
276		2				<i>Flocele</i>	150	lbs		
581		2				SERVICE CHARGE <i>Cement</i>			CUBIC FEET	600SKS
583		2				MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	1814.64
							60488	60		

CON

JOB LOG

SWIFT Services, Inc.

DATE 12/12/17 PAGE NO. 1

CUSTOMER *Carmen Schmitt* WELL NO. *4-7* LEASE *WP Unit* JOB TYPE *Cement Long String* TICKET NO. *30832*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							On location w/ Float Equip
								RTD 4360 5 1/2" x 14' Casing Total Pipe - 4352.11' Baffle - 4309 Centralizers - 2, 4, 6, 8, 10, 12, 14, 16, 17, 19, 59, 60 Baskets - Btm of Jt 1, Collar of 3, 58
	1315							Start Running Csg/Float Equip
	1510							Break Circ on Bottom
	1610	5	12			400		Pump Mud Flush
	1615	5	20			400		Pump KCL Flush Plug RHot MH
	1630	5				400		Start 450 SKS SMD @ 11.2 ppg
	1710	6	27 34			300		Fin SMD start EA2 @ 15.5 ppg
	1715	5	36			300		Fin EA2, Drop Plug Washout ATL
	1725	8				300		Start Disp w/20 Bbl KCL water
	1740	6	105					Fin Disp Lift 1100 psi Land 1500 psi
	1745							Release back, Dry Wash up truck Pack up
	1800							Job Complete
								Thanks, Jon, Austin, Kirby, Isaac
								Rathole - 30 SKS 10 Bbl Manshole - 20 SKS 7 Bbl
								Circulated 50 SKS to pit



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmidt, Brad

WP Unit 4-7

7-14s-25w Trego,KS

Start Date: 2017.12.08 @ 12:10:44

End Date: 2017.12.08 @ 18:46:23

Job Ticket #: 63237 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.13 @ 14:30:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63237 **DST#: 1**
 Test Start: 2017.12.08 @ 12:10:44

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:51:09
 Time Test Ended: 18:46:23
 Interval: **3846.00 ft (KB) To 3880.00 ft (KB) (TVD)**
 Total Depth: 3880.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2435.00 ft (KB)
 2430.00 ft (CF)
 KB to GR/CF: 5.00 ft

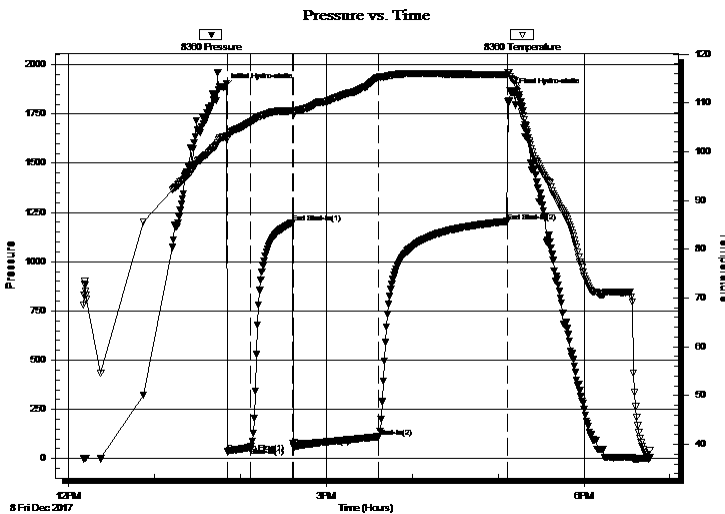
Serial #: 8360

Inside

Press@RunDepth: 110.42 psig @ 3848.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.08 End Date: 2017.12.08 Last Calib.: 2017.12.08
 Start Time: 12:10:44 End Time: 18:46:23 Time On Btm: 2017.12.08 @ 13:48:39
 Time Off Btm: 2017.12.08 @ 17:09:53

TEST COMMENT: 15-IFP-weak to a good blow 1/2" to 9" blow
 30-ISIP-no blow back
 60-FFP-weak to BOB in 35 min
 90-FSIP-surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.08	102.92	Initial Hydro-static
3	33.71	102.58	Open To Flow (1)
19	56.39	106.00	Shut-In(1)
48	1197.96	108.36	End Shut-In(1)
49	61.79	107.96	Open To Flow (2)
108	110.42	115.22	Shut-In(2)
198	1204.46	115.81	End Shut-In(2)
202	1860.13	114.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HO&GCM 10%G30%O60%M	0.57
90.00	MGO 10%G20%M70%O	1.26
65.00	CO	0.91
0.00	465' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt Inc

7-14s-25w Trego,KS

PO Box 47
Great Bend KS 67530-0047

WP Unit 4-7

Job Ticket: 63237

DST#: 1

ATTN: Carmen Schmidt, Brad

Test Start: 2017.12.08 @ 12:10:44

Tool Information

Drill Pipe:	Length: 3799.00 ft	Diameter: 3.80 inches	Volume: 53.29 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3846.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	63.00 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			3818.00	
Shut In Tool	5.00			3823.00	
Hydraulic tool	5.00			3828.00	
Jars	5.00			3833.00	
Safety Joint	3.00			3836.00	
Packer	5.00			3841.00	29.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Perforations	1.00			3848.00	
Recorder	0.00	8360	Inside	3848.00	
Recorder	0.00	8673	Outside	3848.00	
Perforations	29.00			3877.00	
Bullnose	3.00			3880.00	34.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt Inc

7-14s-25w Trego,KS

PO Box 47
Great Bend KS 67530-0047

WP Unit 4-7

Job Ticket: 63237

DST#: 1

ATTN: Carmen Schmidt, Brad

Test Start: 2017.12.08 @ 12:10:44

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 6.73 in³
Resistivity: ohm.m
Salinity: 1200.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 29 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HO&GCM 10%G30%O60%M	0.568
90.00	MGO 10%G20%M70%O	1.262
65.00	CO	0.912
0.00	465' GIP	0.000

Total Length: 215.00 ft Total Volume: 2.742 bbl

Num Fluid Samples: 0

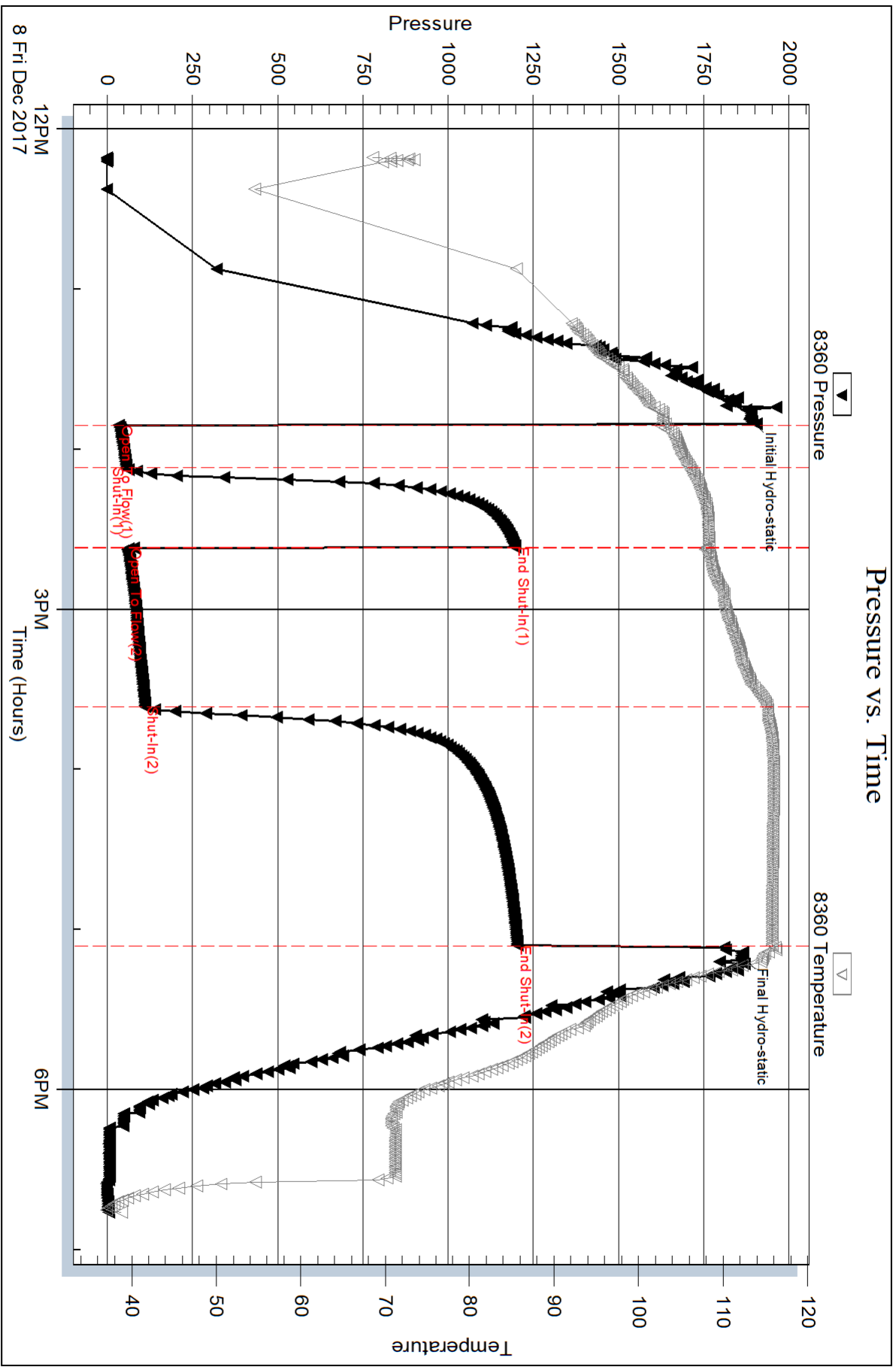
Num Gas Bombs: 0

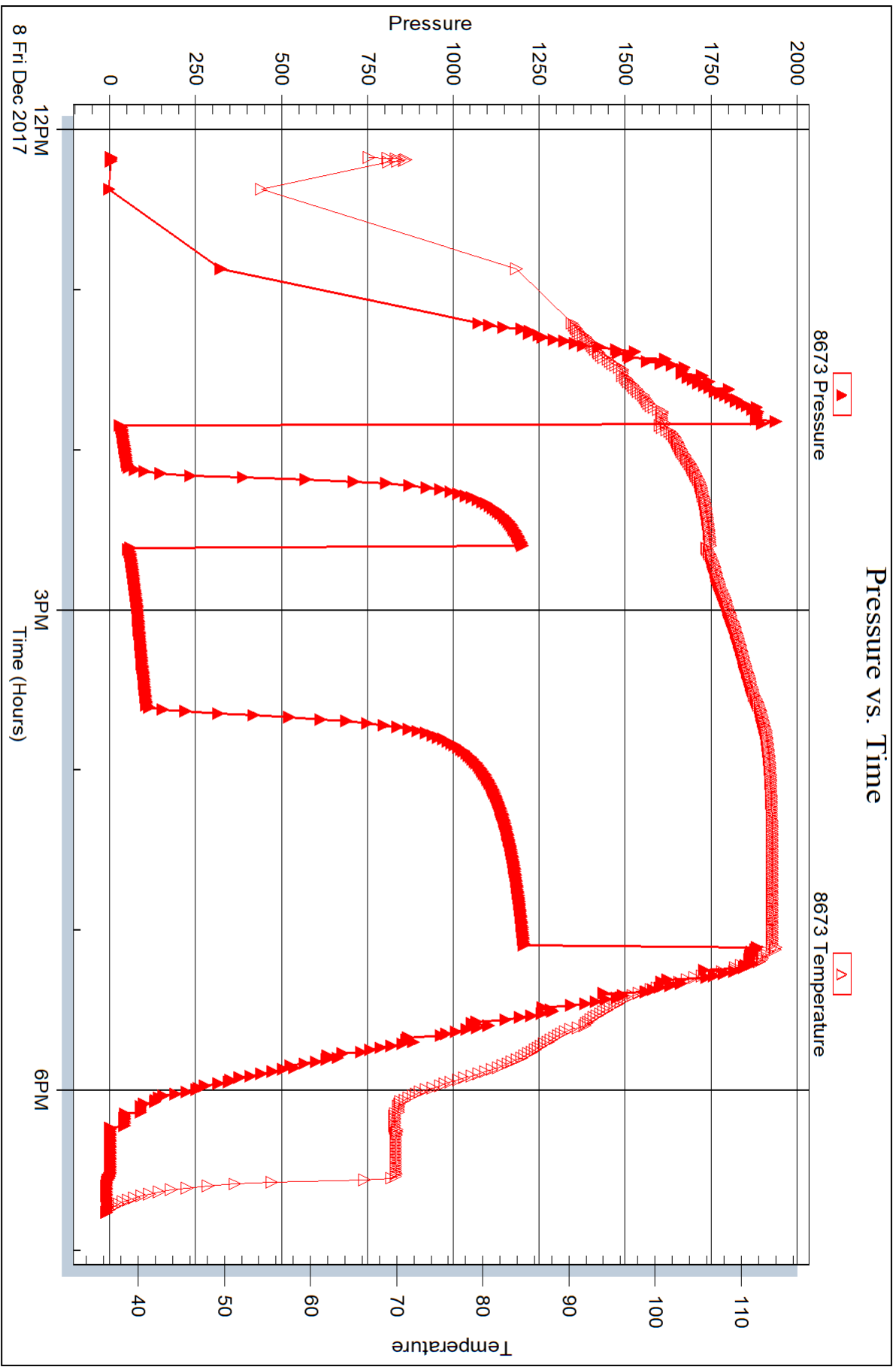
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmidt, Brad

WP Unit 4-7

7-14s-25w Trego,KS

Start Date: 2017.12.09 @ 04:40:34

End Date: 2017.12.09 @ 09:15:13

Job Ticket #: 63238 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.13 @ 13:42:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63238 **DST#: 2**
 Test Start: 2017.12.09 @ 04:40:34

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:39:59
 Time Test Ended: 09:15:13
 Interval: **3883.00 ft (KB) To 3936.00 ft (KB) (TVD)**
 Total Depth: 3936.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2435.00 ft (KB)
 2430.00 ft (CF)
 KB to GR/CF: 5.00 ft

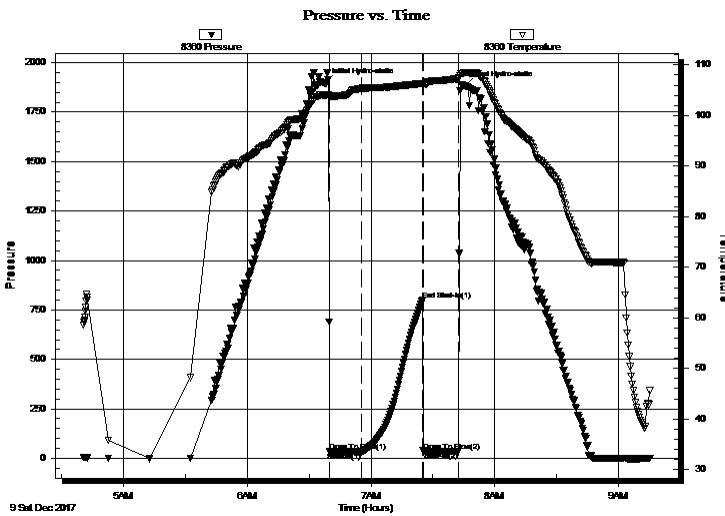
Serial #: 8360

Inside

Press@RunDepth: 32.06 psig @ 3885.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.09 End Date: 2017.12.09 Last Calib.: 2017.12.09
 Start Time: 04:40:34 End Time: 09:15:13 Time On Btm: 2017.12.09 @ 06:37:44
 Time Off Btm: 2017.12.09 @ 07:45:44

TEST COMMENT: 15-IFP-weak blow thru-out 1/2" blow
 30-ISIP-no blow
 15-FFP-surface blow , died in 5 min
 pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.85	104.06	Initial Hydro-static
3	33.02	103.66	Open To Flow (1)
18	32.06	105.35	Shut-In(1)
48	799.87	106.29	End Shut-In(1)
48	34.15	106.08	Open To Flow (2)
65	33.42	107.21	Shut-In(2)
68	1881.88	108.47	Final Hydro-static

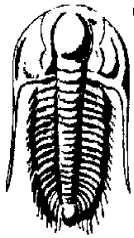
Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 5% O95%M	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
PO Box 47
Great Bend KS 67530-0047
ATTN: Carmen Schmidt, Brad

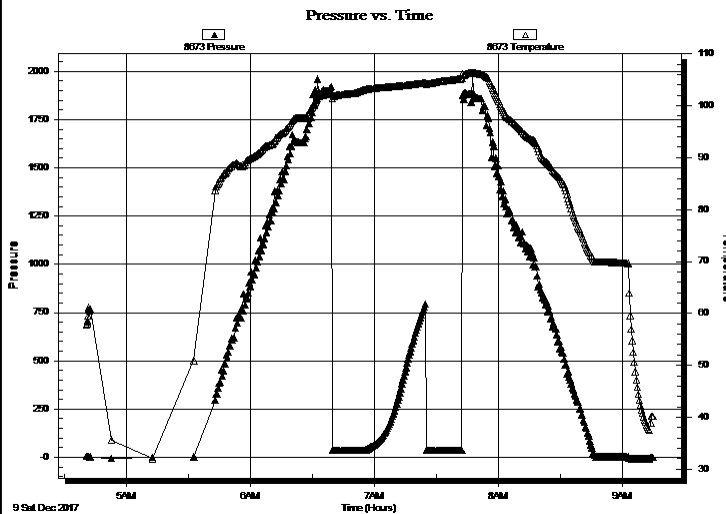
7-14s-25w Trego, KS
WP Unit 4-7
Job Ticket: 63238 **DST#: 2**
Test Start: 2017.12.09 @ 04:40:34

GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 06:39:59 Tester: Ray Schwager
Time Test Ended: 09:15:13 Unit No: 77
Interval: 3883.00 ft (KB) To 3936.00 ft (KB) (TVD) Reference Elevations: 2435.00 ft (KB)
Total Depth: 3936.00 ft (KB) (TVD) 2430.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8673 Outside
Press@RunDepth: psig @ 3885.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.12.09 End Date: 2017.12.09 Last Calib.: 2017.12.09
Start Time: 04:40:38 End Time: 09:15:02 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-weak blow thru-out 1/2" blow
30-ISIP-no blow
15-FFP-surface blow , died in 5 min
pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 5% O95% M	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63238 **DST#: 2**
 Test Start: 2017.12.09 @ 04:40:34

Tool Information

Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 53.89 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3883.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	53.00 ft				
Tool Length:	82.00 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			3855.00	
Shut In Tool	5.00			3860.00	
Hydraulic tool	5.00			3865.00	
Jars	5.00			3870.00	
Safety Joint	3.00			3873.00	
Packer	5.00			3878.00	29.00 Bottom Of Top Packer
Packer	5.00			3883.00	
Stubb	1.00			3884.00	
Perforations	1.00			3885.00	
Recorder	0.00	8360	Inside	3885.00	
Recorder	0.00	8673	Outside	3885.00	
Blank Spacing	33.00			3918.00	
Perforations	15.00			3933.00	
Bullnose	3.00			3936.00	53.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt Inc
PO Box 47
Great Bend KS 67530-0047
ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
Job Ticket: 63238 **DST#: 2**
Test Start: 2017.12.09 @ 04:40:34

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.72 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

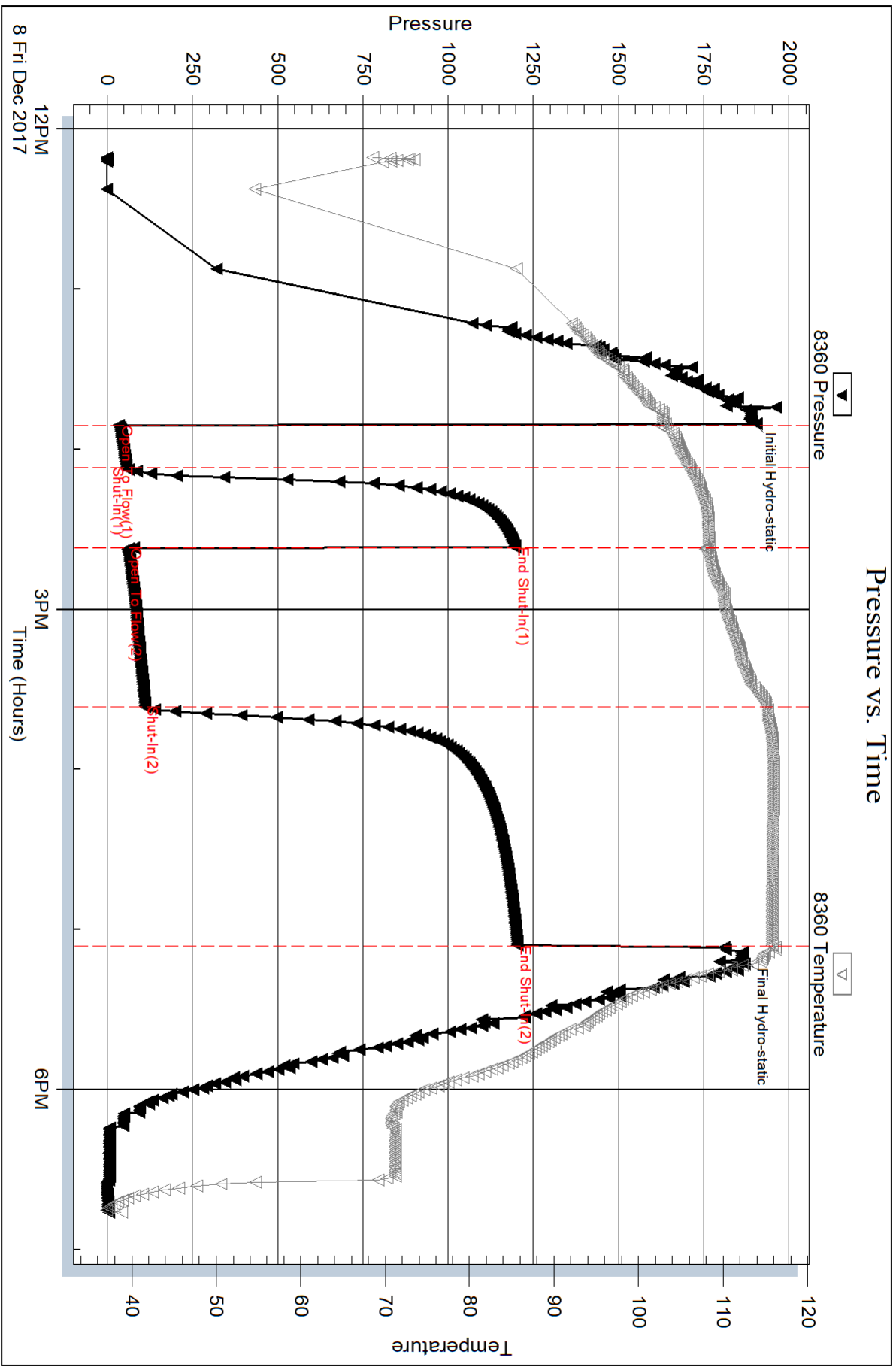
Length ft	Description	Volume bbl
20.00	SOCM 5%O95%M	0.098

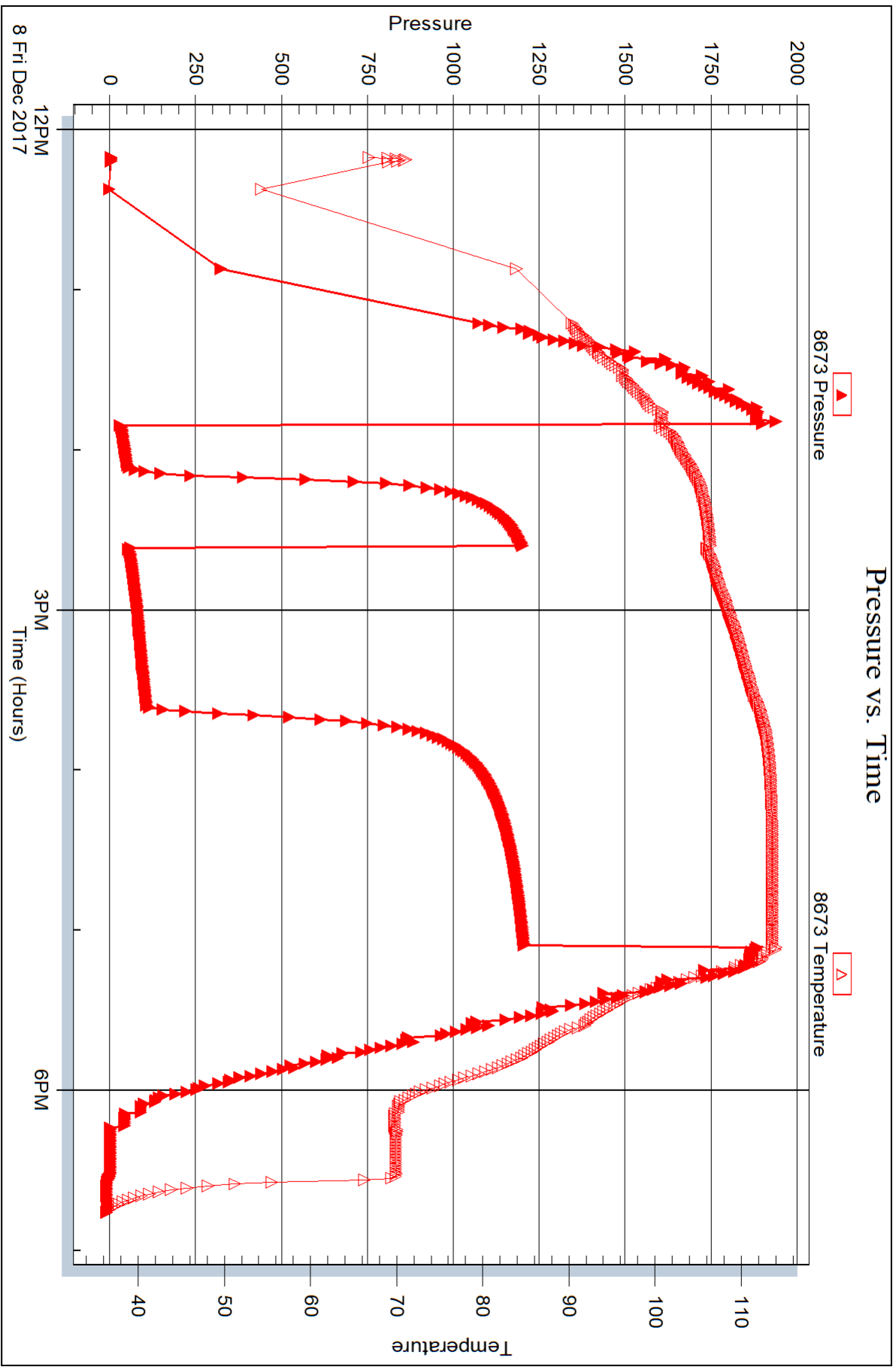
Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmidt, Brad

WP Unit 4-7

7-14s-25w Trego,KS

Start Date: 2017.12.09 @ 15:55:39

End Date: 2017.12.09 @ 21:44:03

Job Ticket #: 63239 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.13 @ 13:41:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63239 **DST#: 3**
 Test Start: 2017.12.09 @ 15:55:39

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:28:49 Tester: Ray Schwager
 Time Test Ended: 21:44:03 Unit No: 77
 Interval: **3946.00 ft (KB) To 3965.00 ft (KB) (TVD)** Reference Elevations: 2435.00 ft (KB)
 Total Depth: 3965.00 ft (KB) (TVD) 2430.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

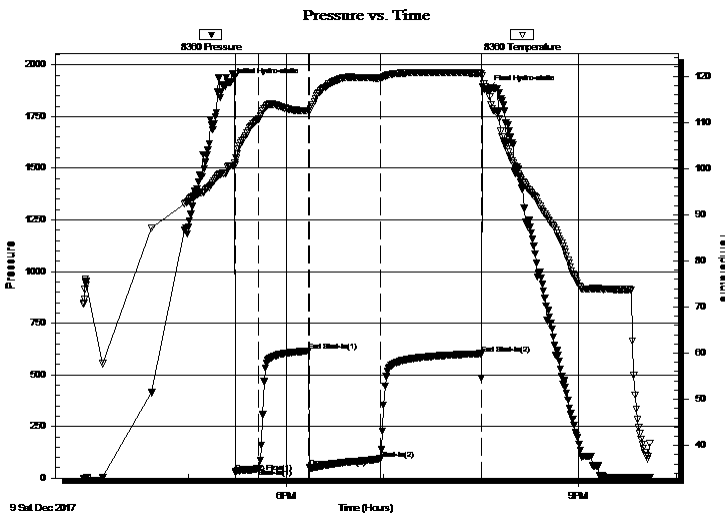
Serial #: 8360

Inside

Press@RunDepth: 93.20 psig @ 3947.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.09 End Date: 2017.12.09 Last Calib.: 2017.12.09
 Start Time: 15:55:39 End Time: 21:44:03 Time On Btm: 2017.12.09 @ 17:26:04
 Time Off Btm: 2017.12.09 @ 20:03:34

TEST COMMENT: 15-IFP-weak to BOB in 6 min
 30-ISIP-no blow back
 45- FFP-weak to BOB in 5 min
 60-FSIP-surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.72	100.63	Initial Hydro-static
3	29.28	100.83	Open To Flow (1)
18	46.54	110.66	Shut-In(1)
48	615.25	112.56	End Shut-In(1)
49	51.49	112.43	Open To Flow (2)
92	93.20	119.58	Shut-In(2)
154	602.04	120.63	End Shut-In(2)
158	1879.15	117.13	Final Hydro-static

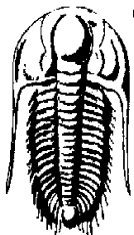
Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMO 30%G12%M58%O	0.99
155.00	CO	2.17
0.00	1365' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmidt Inc
PO Box 47
Great Bend KS 67530-0047
ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
Job Ticket: 63239 **DST#: 3**
Test Start: 2017.12.09 @ 15:55:39

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:28:49
Time Test Ended: 21:44:03
Interval: **3946.00 ft (KB) To 3965.00 ft (KB) (TVD)**
Total Depth: 3965.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 77
Reference Elevations: 2435.00 ft (KB)
2430.00 ft (CF)
KB to GR/CF: 5.00 ft

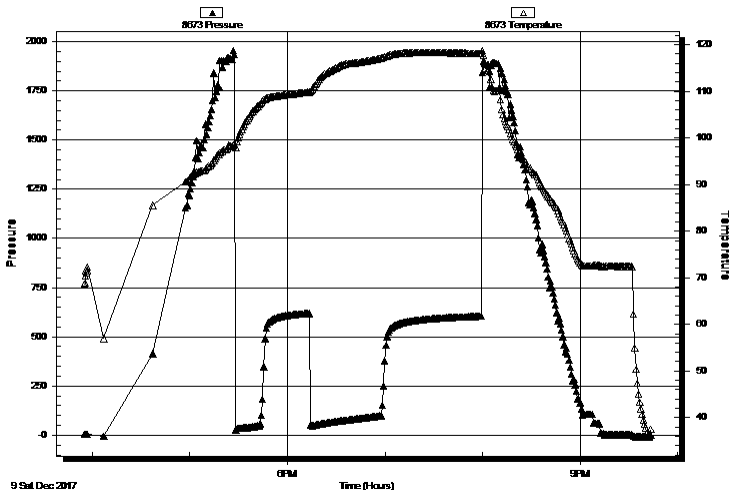
Serial #: 8673

Outside

Press@RunDepth: psig @ 3947.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.12.09 End Date: 2017.12.09 Last Calib.: 2017.12.09
Start Time: 15:55:21 End Time: 21:43:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-w eak to BOB in 6 min
30-ISIP-no blow back
45- FFP-w eak to BOB in 5 min
60-FSIP-surface blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMO 30%G12%M58%O	0.99
155.00	CO	2.17
0.00	1365' 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

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63239 **DST#: 3**
 Test Start: 2017.12.09 @ 15:55:39

Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3946.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3918.00	
Shut In Tool	5.00			3923.00	
Hydraulic tool	5.00			3928.00	
Jars	5.00			3933.00	
Safety Joint	3.00			3936.00	
Packer	5.00			3941.00	29.00 Bottom Of Top Packer
Packer	5.00			3946.00	
Stubb	1.00			3947.00	
Recorder	0.00	8360	Inside	3947.00	
Recorder	0.00	8673	Outside	3947.00	
Perforations	15.00			3962.00	
Bullnose	3.00			3965.00	19.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt Inc

7-14s-25w Trego,KS

PO Box 47
Great Bend KS 67530-0047

WP Unit 4-7

Job Ticket: 63239

DST#: 3

ATTN: Carmen Schmidt, Brad

Test Start: 2017.12.09 @ 15:55:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMO 30%G12%M58%O	0.989
155.00	CO	2.174
0.00	1365' GIP	0.000

Total Length: 245.00 ft Total Volume: 3.163 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

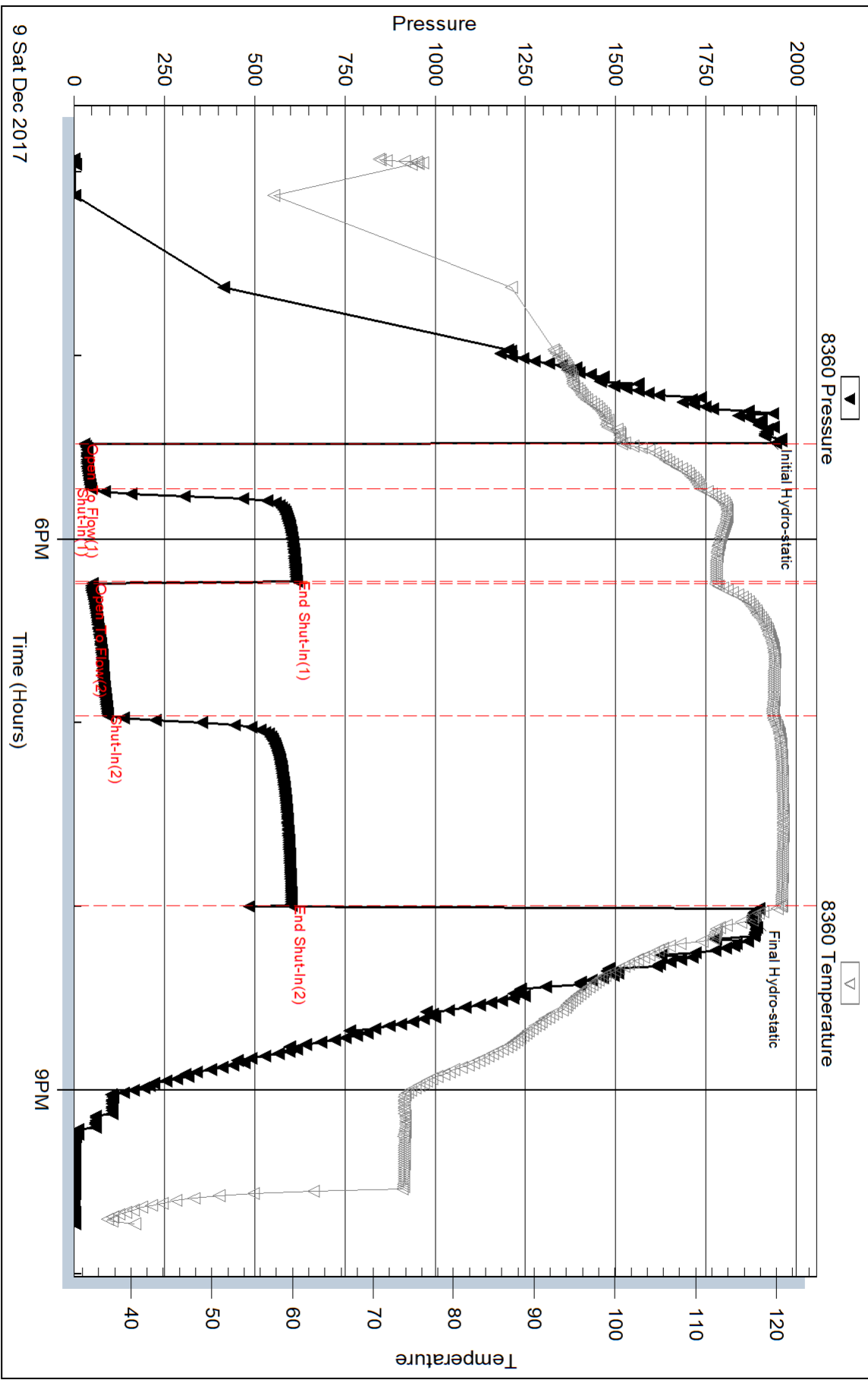
Serial #:

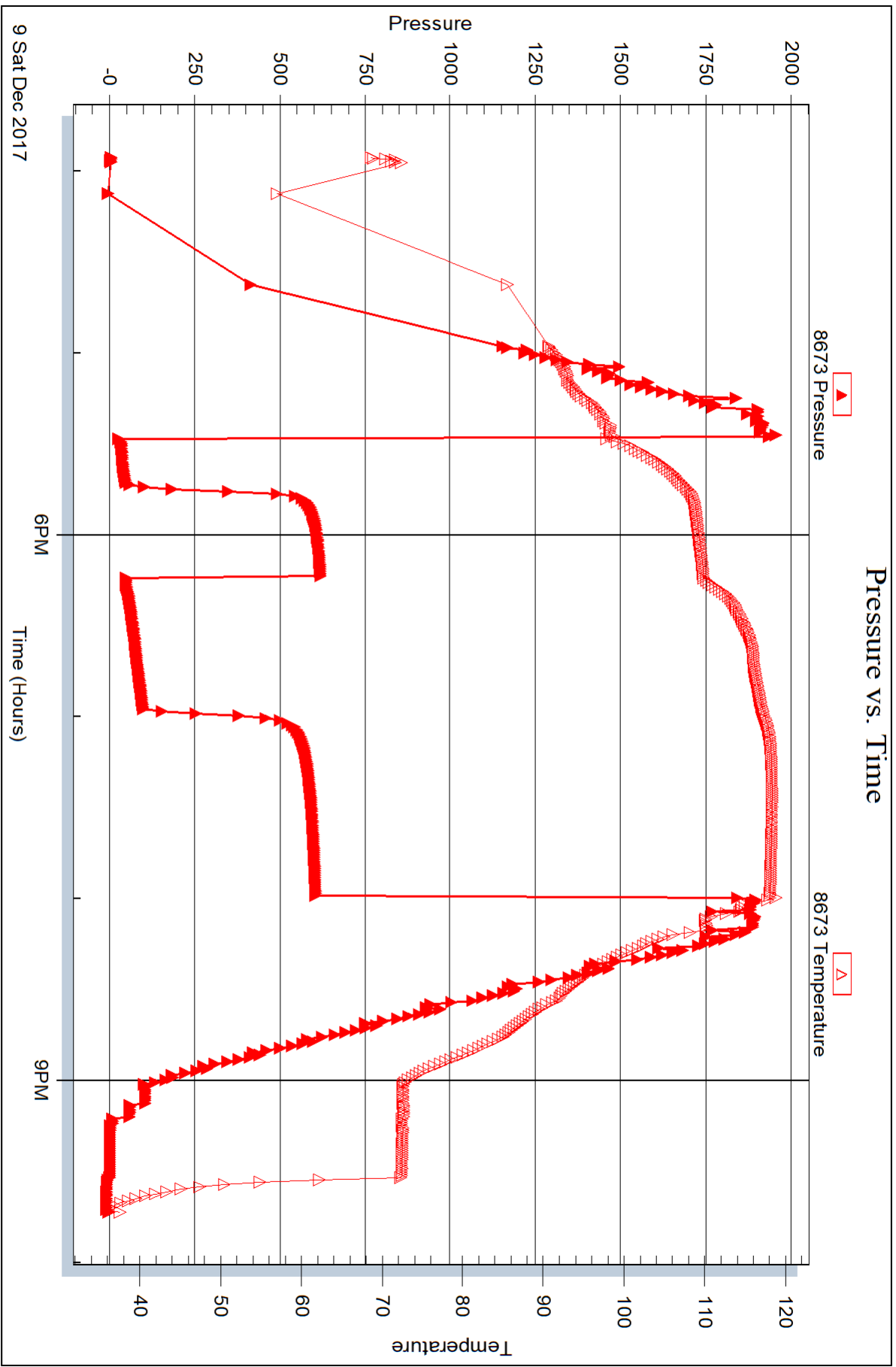
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmidt, Brad

WP Unit 4-7

7-14s-25w Trego,KS

Start Date: 2017.12.10 @ 05:10:09

End Date: 2017.12.10 @ 10:15:02

Job Ticket #: 63240 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.13 @ 13:40:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63240 **DST#: 4**
 Test Start: 2017.12.10 @ 05:10:09

GENERAL INFORMATION:

Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:00:49
 Time Test Ended: 10:15:02
 Interval: **3965.00 ft (KB) To 4001.00 ft (KB) (TVD)**
 Total Depth: 4001.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2435.00 ft (KB)
 2430.00 ft (CF)
 KB to GR/CF: 5.00 ft

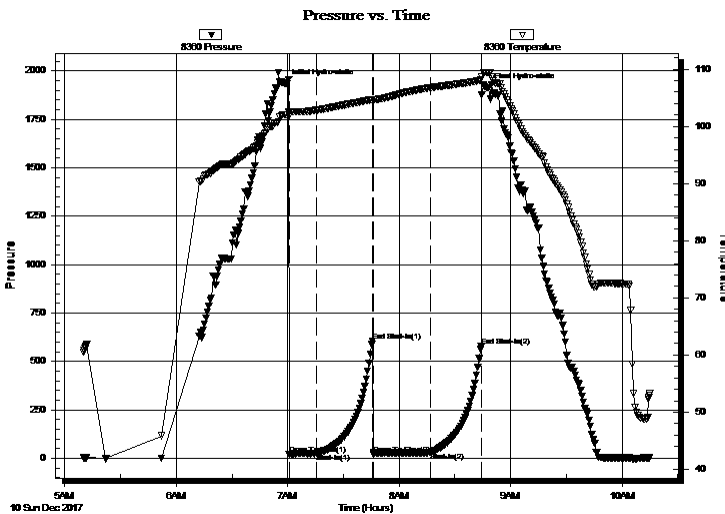
Serial #: 8360

Inside

Press@RunDepth: 32.75 psig @ 3970.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.10 End Date: 2017.12.10 Last Calib.: 2017.12.10
 Start Time: 05:10:09 End Time: 10:15:02 Time On Btm: 2017.12.10 @ 06:58:49
 Time Off Btm: 2017.12.10 @ 08:47:34

TEST COMMENT: 15-IFP-surface blow thru-out
 30-ISIP-no blow back
 30-FFP-surface blow back
 30-FSIP-no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.96	102.05	Initial Hydro-static
2	22.74	101.95	Open To Flow (1)
17	25.05	102.80	Shut-In(1)
47	605.16	104.72	End Shut-In(1)
48	22.11	104.62	Open To Flow (2)
78	32.75	106.76	Shut-In(2)
106	577.64	108.09	End Shut-In(2)
109	1913.61	109.43	Final Hydro-static

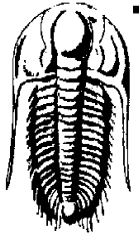
Recovery

Length (ft)	Description	Volume (bbl)
35.00	HOCM 30% O70%M	0.22

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63240 **DST#: 4**
 Test Start: 2017.12.10 @ 05:10:09

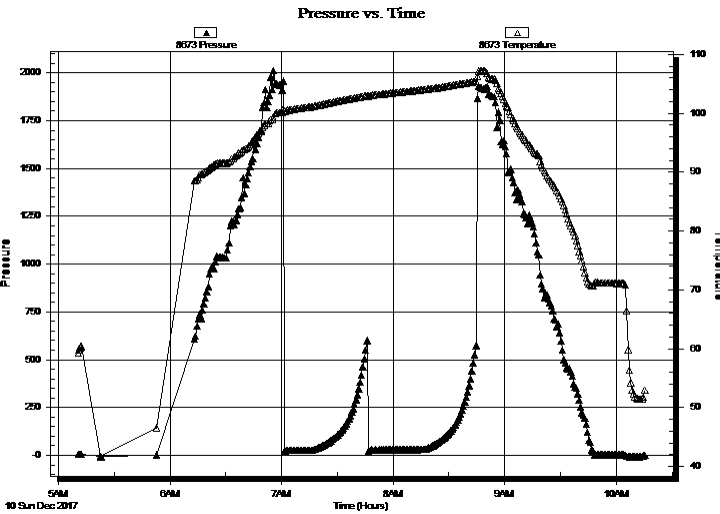
GENERAL INFORMATION:

Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:00:49
 Time Test Ended: 10:15:02
Interval: 3965.00 ft (KB) To 4001.00 ft (KB) (TVD)
 Total Depth: 4001.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2435.00 ft (KB)
 2430.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8673 Outside

Press@RunDepth: psig @ 3970.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.10 End Date: 2017.12.10 Last Calib.: 2017.12.10
 Start Time: 05:10:52 End Time: 10:15:46 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP-surface blow thru-out
 30-ISIP-no blow back
 30-FFP-surface blow back
 30-FSIP-no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	HOCM 30% O70%M	0.22

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63240 **DST#: 4**
 Test Start: 2017.12.10 @ 05:10:09

Tool Information

Drill Pipe:	Length: 3926.00 ft	Diameter: 3.80 inches	Volume: 55.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3965.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 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			3937.00	
Shut In Tool	5.00			3942.00	
Hydraulic tool	5.00			3947.00	
Jars	5.00			3952.00	
Safety Joint	3.00			3955.00	
Packer	5.00			3960.00	29.00 Bottom Of Top Packer
Packer	5.00			3965.00	
Stubb	1.00			3966.00	
Perforations	4.00			3970.00	
Recorder	0.00	8360	Inside	3970.00	
Recorder	0.00	8673	Outside	3970.00	
Perforations	28.00			3998.00	
Bullnose	3.00			4001.00	36.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt Inc

7-14s-25w Trego,KS

PO Box 47
Great Bend KS 67530-0047

WP Unit 4-7

Job Ticket: 63240

DST#: 4

ATTN: Carmen Schmidt, Brad

Test Start: 2017.12.10 @ 05:10:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	HOCM 30% O70%M	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

Num Fluid Samples: 0

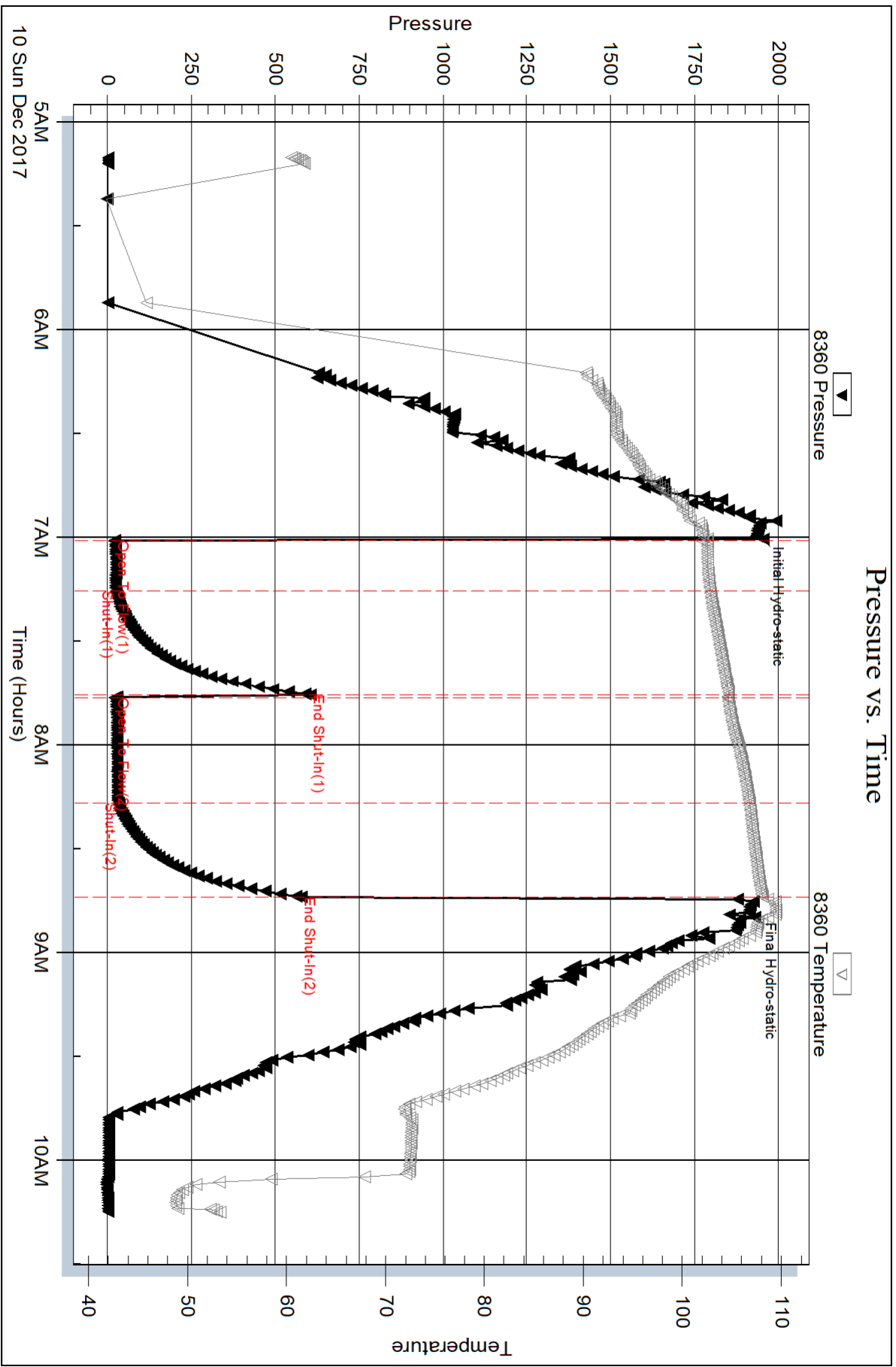
Num Gas Bombs: 0

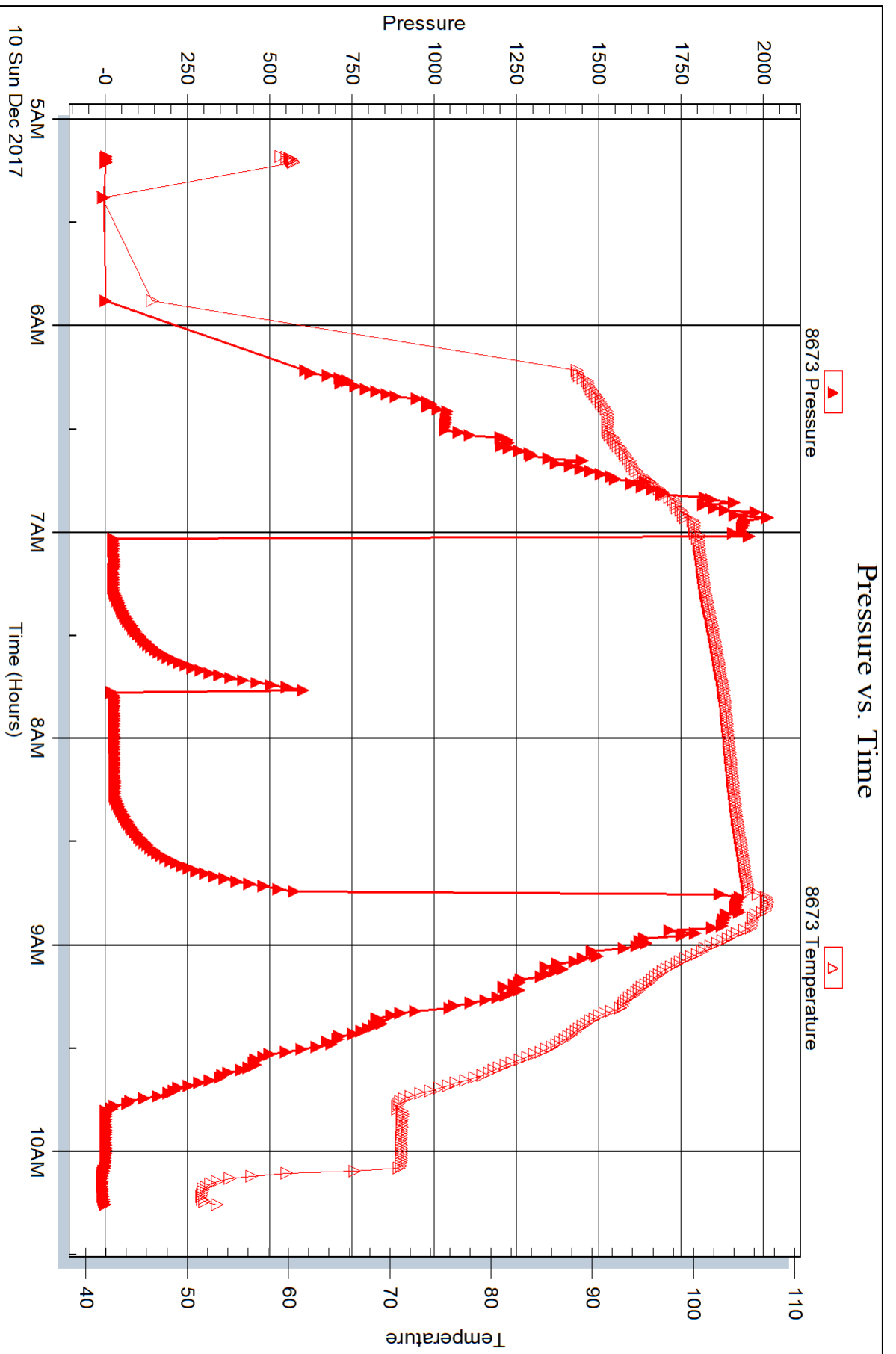
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmidt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmidt, Brad

WP Unit 4-7

7-14s-25w Trego,KS

Start Date: 2017.12.11 @ 06:10:24

End Date: 2017.12.11 @ 10:54:48

Job Ticket #: 63241 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.13 @ 13:37:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
 PO Box 47
 Great Bend KS 67530-0047
 ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
 Job Ticket: 63241 **DST#: 5**
 Test Start: 2017.12.11 @ 06:10:24

GENERAL INFORMATION:

Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:14:04
 Time Test Ended: 10:54:48
 Interval: **4166.00 ft (KB) To 4235.00 ft (KB) (TVD)**
 Total Depth: 4235.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 2435.00 ft (KB)
 2430.00 ft (CF)
 KB to GR/CF: 5.00 ft

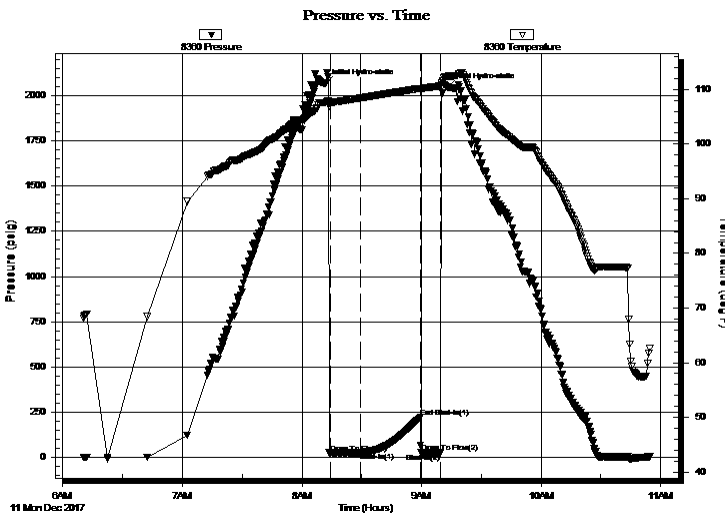
Serial #: 8360

Inside

Press@RunDepth: 26.45 psig @ 4171.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.11 End Date: 2017.12.11 Last Calib.: 2017.12.11
 Start Time: 06:10:24 End Time: 10:54:48 Time On Btm: 2017.12.11 @ 08:11:49
 Time Off Btm: 2017.12.11 @ 09:13:04

TEST COMMENT: 15-IFP-weak blow 1/8", died in 12 min
 30-ISIP-no blow
 15-FFP-no blow
 pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2066.61	107.61	Initial Hydro-static
3	26.08	107.60	Open To Flow (1)
18	26.45	108.42	Shut-In(1)
48	221.61	110.18	End Shut-In(1)
48	26.51	110.16	Open To Flow (2)
58	26.19	110.64	Shut-In(2)
62	2046.30	112.41	Final Hydro-static

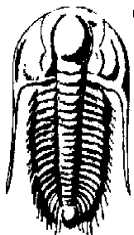
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / slight show of oil	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmidt Inc
PO Box 47
Great Bend KS 67530-0047
ATTN: Carmen Schmidt, Brad

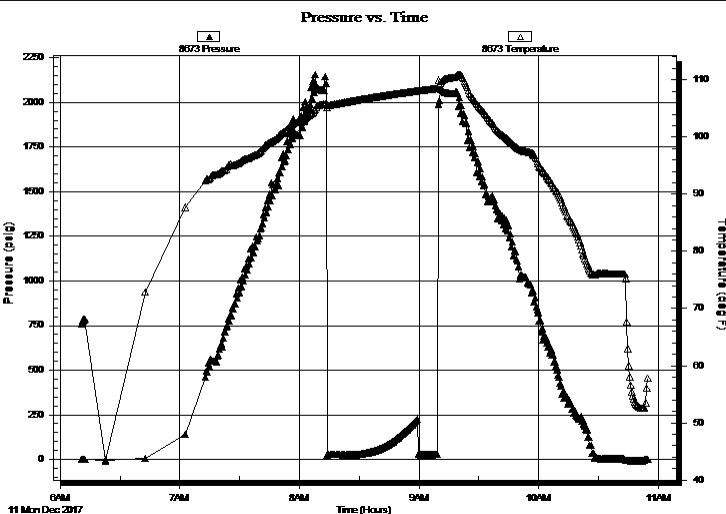
7-14s-25w Trego, KS
WP Unit 4-7
Job Ticket: 63241 **DST#: 5**
Test Start: 2017.12.11 @ 06:10:24

GENERAL INFORMATION:

Formation: **Ft Scott**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 08:14:04 Tester: Ray Schwager
Time Test Ended: 10:54:48 Unit No: 77
Interval: 4166.00 ft (KB) To 4235.00 ft (KB) (TVD) Reference Elevations: 2435.00 ft (KB)
Total Depth: 4235.00 ft (KB) (TVD) 2430.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8673 Outside
Press@RunDepth: psig @ 4171.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.12.11 End Date: 2017.12.11 Last Calib.: 2017.12.11
Start Time: 06:10:39 End Time: 10:54:48 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-w eak blow 1/8", died in 12 min
30-ISIP-no blow
15-FFP-no blow
pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w / slight show of oil	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

Carmen Schmidt Inc

7-14s-25w Trego,KS

PO Box 47
Great Bend KS 67530-0047

WP Unit 4-7

Job Ticket: 63241

DST#: 5

ATTN: Carmen Schmidt, Brad

Test Start: 2017.12.11 @ 06:10:24

Tool Information

Drill Pipe:	Length: 4116.00 ft	Diameter: 3.80 inches	Volume: 57.74 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4166.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	98.00 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			4138.00	
Shut In Tool	5.00			4143.00	
Hydraulic tool	5.00			4148.00	
Jars	5.00			4153.00	
Safety Joint	3.00			4156.00	
Packer	5.00			4161.00	29.00 Bottom Of Top Packer
Packer	5.00			4166.00	
Stubb	1.00			4167.00	
Perforations	4.00			4171.00	
Recorder	0.00	8360	Inside	4171.00	
Recorder	0.00	8673	Outside	4171.00	
Blank Spacing	33.00			4204.00	
Perforations	28.00			4232.00	
Bullnose	3.00			4235.00	69.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmidt Inc
PO Box 47
Great Bend KS 67530-0047
ATTN: Carmen Schmidt, Brad

7-14s-25w Trego,KS
WP Unit 4-7
Job Ticket: 63241 **DST#: 5**
Test Start: 2017.12.11 @ 06:10:24

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

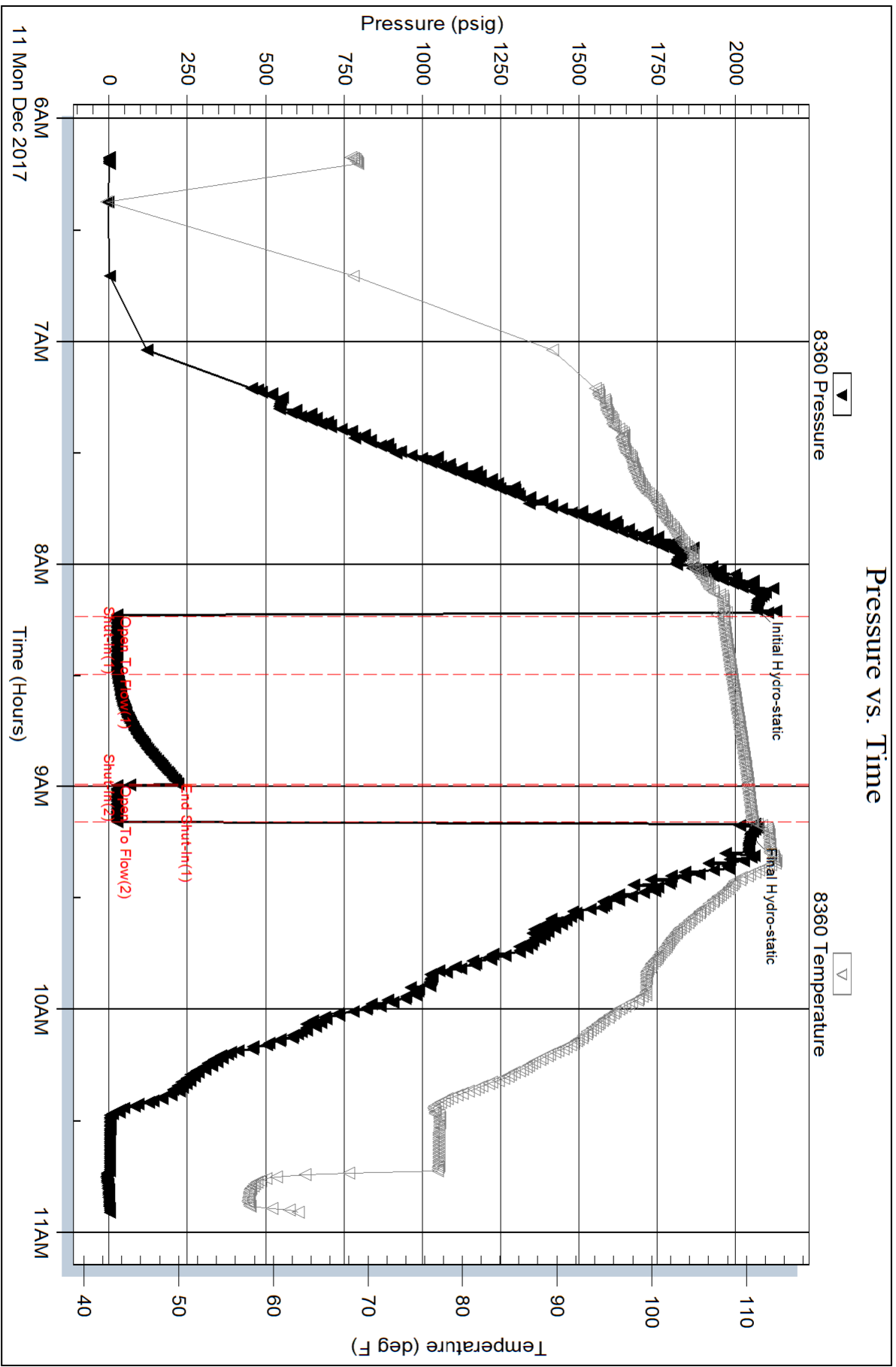
Length ft	Description	Volume bbl
1.00	Mud w / slight show of oil	0.005

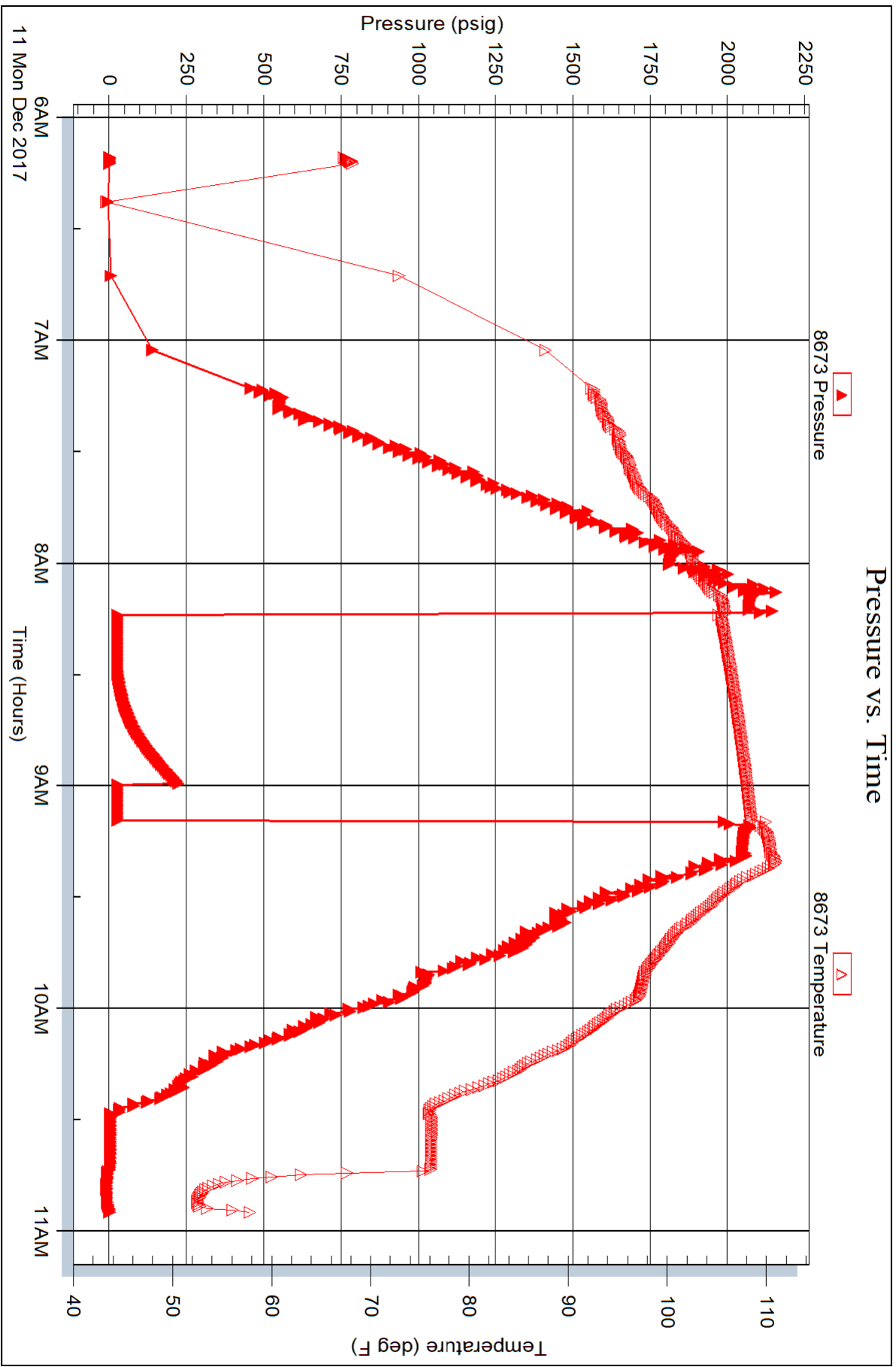
Total Length: 1.00 ft Total Volume: 0.005 bbl

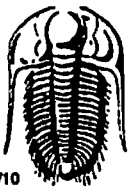
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63237

Well Name & No. WP Unit 4-7 Test No. 1 Date 12-8-17
 Company Carmen Schmidt Inc Elevation 2435 KB 2430 GL
 Address PO Box 47 Great Bend, Ks 67530-0047
 Co. Rep / Geo. Brad Rine Rig Murfin rig Ks
 Location: Sec. 7 Twp. 14^s Rge. 25^w Co. rego State Ks

Interval Tested 3846-3880 Zone Tested LKC "H"
 Anchor Length 34 Drill Pipe Run 3799 Mud Wt. 9
 Top Packer Depth 3841 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3846 Wt. Pipe Run — WL 6.8
 Total Depth 3880 Chlorides 1200 ppm System LCM 2[#]

Blow Description TSP - Weak to a Good Blow 1/2" to 9" Blow
TSTP - NO Blow Back
FFP - Weak to BOB in 35 min
FSTP - surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>465</u>	<u>GIP</u>				
<u>65</u>	<u>CO</u>				
<u>90</u>	<u>M60</u>	<u>10</u>	<u>70</u>		<u>20</u>
<u>60</u>	<u>H0x6CM</u>	<u>10</u>	<u>30</u>		<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 215 BHT 115 Gravity 29 API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 1885
- (B) First Initial Flow 33
- (C) First Final Flow 56
- (D) Initial Shut-In 1197
- (E) Second Initial Flow 61
- (F) Second Final Flow 110
- (G) Final Shut-In 1204
- (H) Final Hydrostatic 1860

- Test 1050
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 123 RT 92.25
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1467.25

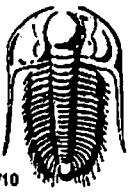
T-On Location 1125
 T-Started 1210
 T-Open 1350
 T-Pulled 1705
 T-Out 1846

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1467.25
 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 90

Approved By Brad Rine Our Representative Ray Schwaner Thank you

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. 63238

Well Name & No. WP Unit 4-7 Test No. 2 Date 12-9-17
 Company CARMA SCHMIDT INC Elevation 2435 KB 2430 GL
 Address PO Box 47 GREAT BEND, KS 67530-0047
 Co. Rep / Geo. BRAD RINE Rig MURFIN rig 16
 Location: Sec. 7 Twp. 14^s Rge. 25^w Co. Trego State Ks

Interval Tested 3883-3936 Zone Tested LKC I-J
 Anchor Length 53 Drill Pipe Run 3831 Mud Wt. 9.2
 Top Packer Depth 3878 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3883 Wt. Pipe Run - WL 6.8
 Total Depth 3936 Chlorides 1200 ppm System LCM 2#
 Blow Description IFP - weak blow thru-out 1/2" Blow
ISIP - NO BLOW
FFP - SURFACE Blow, died in 5 min

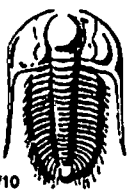
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>50CM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 107 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1896</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0345</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0440</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0640</u>
(D) Initial Shut-In <u>799</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0740</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0915</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>92.25</u>	Comments
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1881</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</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>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>out</u>	<input type="checkbox"/> Day Standby	Total <u>1467.25</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1467.25</u>	

Approved By Brad Rine Our Representative Ray Schwager Thank you

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. 63237

Well Name & No. WP Unit 4-7 Test No. 3 Date 12-9-17
 Company Carmen Schmidt Inc Elevation 2435 KB 2430 GL
 Address PO Box 47 Great Bend, Ks 67530-0047
 Co. Rep / Geo. Brad Rine Rig Murfin rig 16
 Location: Sec. 7 Twp. 14^s Rge. 25^w Co. 7 Rego State Ko

Interval Tested 3946-3965 Zone Tested LKC "K"
 Anchor Length 19 Drill Pipe Run 3894 Mud Wt. 9.1
 Top Packer Depth 3941 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3946 Wt. Pipe Run - WL 6.8
 Total Depth 3965 Chlorides 1000 ppm System LCM 2#

Blow Description TFP - Weak To BOB IN 6 min
ISIP - NO Blow Back
FFP - Weak To BOB IN 5 min
FSIP - surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1365</u>	<u>GIP</u>				
<u>155</u>	<u>CO</u>				
<u>90</u>	<u>GMO</u>	<u>30</u>	<u>58</u>		<u>12</u>

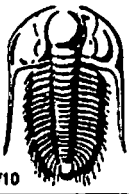
Rec Total 245 BHT 120 Gravity 38 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1912</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1520</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1555</u>
(C) First Final Flow <u>46</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1725</u>
(D) Initial Shut-In <u>615</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1955</u>
(E) Second Initial Flow <u>51</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2144</u>
(F) Second Final Flow <u>93</u>	<input checked="" type="checkbox"/> Mileage <u>92.25</u>	Comments
(G) Final Shut-In <u>602</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1879</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1717.25</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1717.25</u>	

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Approved By Brad Rine Our Representative Ray Schwager Thank you

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. 63240

Well Name & No. WP Unit 4-7 Test No. 4 Date 12-10-17
 Company CARMA SCHMIDT INC Elevation 2435 KB 2430 GL
 Address PO Box 47 GREAT BEND, Ks 67530-0047
 Co. Rep / Geo. BRAD RINE Rig MURFIN rig 16
 Location: Sec. 7 Twp. 14^s Rge. 25^w Co. rego State Ks

Interval Tested 3965-4001 Zone Tested LKC "L"
 Anchor Length 36 Drill Pipe Run 3926 Mud Wt. 9
 Top Packer Depth 3960 Drill Collars Run 30 Vis 55
 Bottom Packer Depth 3965 Wt. Pipe Run — WL 6.8
 Total Depth 4001 Chlorides 1000 ppm System LCM 2#

Blow Description IFP - SURFACE BLOW THRU-OUT
ISTP - NO BLOW BACK
FFP - SURFACE BLOW THRU-OUT
FSIP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>HOCM</u>	<u>30</u>		<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 108 Gravity — API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 1935
- (B) First Initial Flow 22
- (C) First Final Flow 25
- (D) Initial Shut-In 605
- (E) Second Initial Flow 22
- (F) Second Final Flow 32
- (G) Final Shut-In 577
- (H) Final Hydrostatic 1913

- Test 1150
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 92.25
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

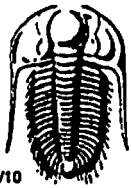
T-On Location 0430
 T-Started 0510
 T-Open 0700
 T-Pulled 0845
 T-Out 1015

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1567.25
 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Approved By Brad Rine Our Representative Rayschwager *Thank you*

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63241

Well Name & No. WP Unit 4-7 Test No. 5 Date 12-11-17
 Company CARMEN SCHMIDT INC Elevation 2435 KB 2430 GL
 Address PO Box 47 GREAT Bend, Ks 67530-0047
 Co. Rep / Geo. BRAD RINE Rig MURFIN rig 16
 Location: Sec. 7 Twp. 14^s Rge. 25^w Co. rego State Ks

Interval Tested 4166-4235 Zone Tested FT. SCOTT
 Anchor Length 69 Drill Pipe Run 4166 Mud Wt. 9.3
 Top Packer Depth 4161 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4166 Wt. Pipe Run - WL 6.4
 Total Depth 4235 Chlorides 900 ppm System LCM 2#

Blow Description IFP - Weak Blow 1/8", died in 12 min
ISIP - No Blow
FFP - NO Blow
FSEP Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>				
	<u>w/slight show of oil</u>				

Rec Total 1 BHT 110 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2066</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0430</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0610</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0810</u>
(D) Initial Shut-In <u>221</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0905</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1054</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>92.25+92.25</u>	Comments <u>Released Tool 2230</u>
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler	<u>12-11-17</u>
(H) Final Hydrostatic <u>2046</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</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>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>out</u>	<input type="checkbox"/> Day Standby	Total <u>1659.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1659.50</u>	

Approved By Brad Rine Our Representative RAY SCHWAGER *Thank you*

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.



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

Well Name: WP Unit #4-7 - Carmen Schmitt, Inc.
API: 15-195-23033-00-00
Location: SE-NW-SE-SW Section 7-14S-25W
License Number: KCC # 6569
Spud Date: December 04, 2017
Surface Coordinates: 775' FSL & 1690' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2430 Ft. K.B. Elevation (ft): 2435 Ft.
Logged Interval (ft): 3400 Ft. To: 4360 Ft. Total Depth (ft): RTD 4360 Ft. LTD 4360 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical
Region: Trego County, Kansas
Drilling Completed: December 12, 2017
Results: 5-1/2" Casing Set
Field: NA

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

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing on the "WP Unit #4-7, on December 12, 2017.

M. Bradford Rine
geologist

Carmen Schmitt, Inc.
"WP Unit #4-7"
Section 07-14S-25W, Trego County, Kansas



Drilling Information

Rig: Murfin Drlg, Rig #16
Pump: Emsco D375 6x14
Drawworks: Cardwell Royale
Collars: 533' 2-1/4 x 6-1/4 +/-
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Andrew Dinkel

Mud: Mudco (Gary Schmidtberger)
Gas Detector: None
Drill Stem Tests: Trilobite (Ray Schwager)
Logs: Pioneer (J. Henrickson)
Water: Harvey Lease Irrigation Well (Walker Tank)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

Date: **Operations/Depth/Comments**
 12-04-17 **MIRT, RU, Spud @ 0'**
 12-05-17 **Drilling @ 370'**
 12-06-17 **Drilling @ 2160'**
 12-07-12 **Drilling @ 3120'**
 12-08-17 **Circulating for Samples @ 3880'**
 12-09-17 **On Bottom with DST #2 @ 3996'**
 12-10-17 **On Bottom with DST #4 @ 4001'**
 12-11-17 **Make Up Tool for DST #5 @ 4235'**
 12-12-17 **TIH with Bit After logs @ 4360'**

	Results: Oil			(Well A) Oil		(Well B) Oil			
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Carmen Schmitt, Inc.			
	WP Unit #4-7			WP Unit #3-7		Lipp Harvey #1-12			
	775'FSL & 1690'FWL			1750'FNL & 1575'FWL		330'FSL & 2450'FEL			
	Sec. 7-14S-25W			Sec. 7-14S-25W		Sec. 12-14S-26W			
	2435	KB		2434	KB	2464	KB	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1891	1888	547	1884	550	1924	540	-3	7
B/Anhydrite	1929	1926	509	1922	512	1963	501	-3	8
Tarkio	NA	3280	-845	3273	-839	3318	-854	-6	9
Heebner Sh.	3672	3668	-1233	3661	-1227	3706	-1242	-6	9
Toronto	3691	3688	-1253	3680	-1246	3726	-1262	-7	9
Lansing	3712	3708	-1273	3700	-1266	3744	-1280	-7	7
Muncie Creek Sh.	3853	3852	-1417	3843	-1409	3892	-1428	-8	11
Stark Sh.	3933	3934	-1499	3923	-1489	3974	-1510	-10	11
B/Kansas City	3992	3988	-1553	3980	-1546	4028	-1564	-7	11
Marmaton	4036	4034	-1599	4020	-1586	4074	-1610	-13	11
Altamont	4059	4056	-1621	4045	-1611	4096	-1632	-10	11
Pawnee	4140	4136	-1701	4125	-1691	4174	-1710	-10	9
Ft. Scott	4200	4198	-1763	4188	-1754	4236	-1772	-9	9
Cherokee Sh.	4224	4221	-1786	4212	-1778	4261	-1797	-8	11
Mississippian	4278	4279	-1844	4275	-1841	4344	-1880	-3	36
Total Depth	4360	4360	-1925	4358	-1924	4340	-1876	-1	-49

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 5 jts, 211.2', 8-5/8" 23# Csg. Set @ 218 ft. (Quality) Cement with 150 sx, 80/20 Comm, 3%CC, 2%gel. Plug down at 7:45 pm on 12-04-17. Cement did circulate.

Production: Ran 104 joints new 5-1/2" Csg, set at 4350 ft. (Swift) Cement with 500 gal mud flush, 20 bbls KCL water. Plugged RH with 30 sx and MH with 20 sx. Pumped 400 sx SMD cement at 11.2 ppg, followed by 150 sx EA2 cement at 15.5 ppg. Displaced 105 bbls. Lift pressure 1100#, landed plug at 1500#. Plug Held. Circulated 50 sx cement to pit. Plug down @ 5:45 pm.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	TC11rr	0	218	2.75
2	7-7/8	HTC	GX20C	218	4360'	93.00

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	218'	0.25*	3880'
0.25*	2465'	0.75*	4235'
		1.00*	4360'

DST #1: 3846-3880 (LKC "H")

Times: 15-30-60-90

**Initial Open: Fr, Blow built to 9" i.b.,
no return blow**

**Final Open: Stg, Blow b.o.b. 35 min,
weak surface return blow**

Rec: 215' Total Fluid, 465' gas in pipe

65' Oil: 100%o (29* gravity)

90' MGCO: 10%g 70%o 20%m

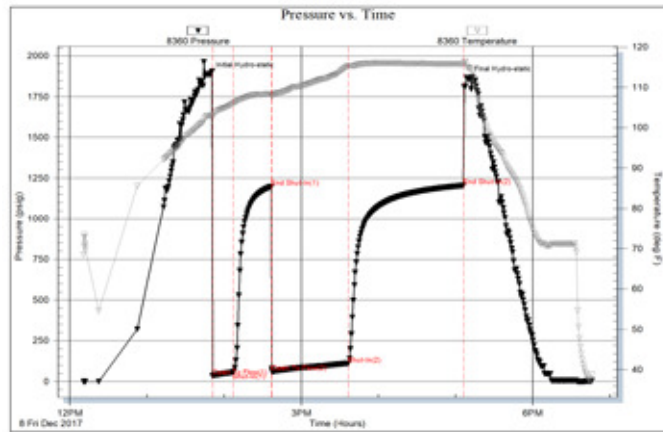
60' GOCM: 10%g 30%o 60%m

IHP: 1885 FHP: 1860

IFP: 33-56 FFP: 61-110

ISIP: 1197 FSIP: 1204

BHT: 115°F



DST #2: 3883-3936 (LKC "I" "J")

Times: 15-30-15-out

Initial Open: Wk, Blow built to 1/2" i.b.

Final Open: Wk surf blow died 5 min

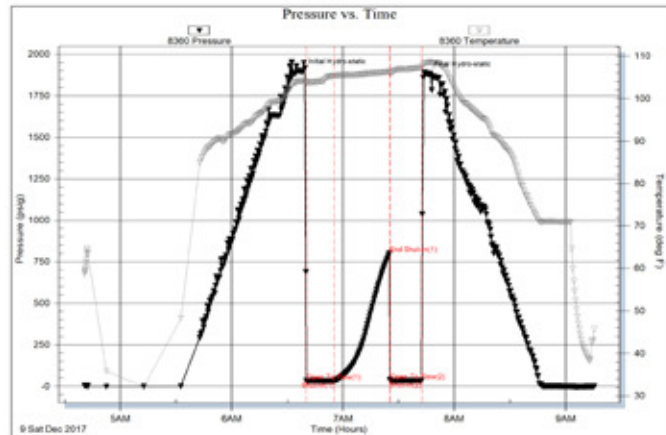
Rec: 20 SOCM: 5%o 95%m

IHP: 1896 FHP: 1881

IFP: 33-32 FFP: 34-32

ISIP: 799 FSIP: NA

BHT: 107°F



DST #3: 3946-3965 (LKC "K")

Times: 15-30-45-60

**Initial Open: Stg, built to b.o.b. 6 min,
no return blow**

**Final Open: Stg, built to b.o.b. 5 min,
weak surface return blow**

Rec: 245' Total Fluid, 1365' gas in pipe

155' Oil: 100%o (38* gravity)

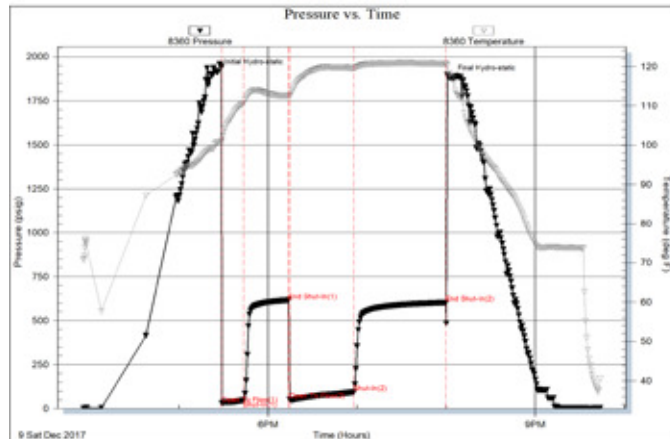
90' GMCO: 30%g 58%o 12%m

IHP: 1912 FHP: 1879

IFP: 29-46 FFP: 51-93

ISIP: 615 FSIP: 602

BHT: 120°F



DST #4: 3965-4001(LKC "L")

Times: 15-30-30-30

Initial Open: Weak Surface Blow Throughout

Final Open: Weak Surface Blow Throughout

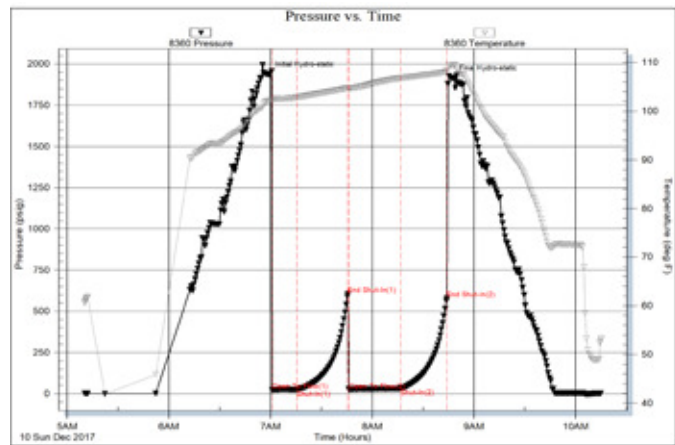
Rec: 35' HOCM: 30%o 70%m

IHP: 1935 FHP: 1913

IFP: 22-25 FFP: 22-32

ISIP: 605 FSIP: 577

BHT: 108°F



DST #5: 4166-4235 (Ft. Scott)

Times: 15-30-10-out

Initial Open: Wk Blow, built to 1/8" i.b., died in 12 min.

Final Open: No Blow

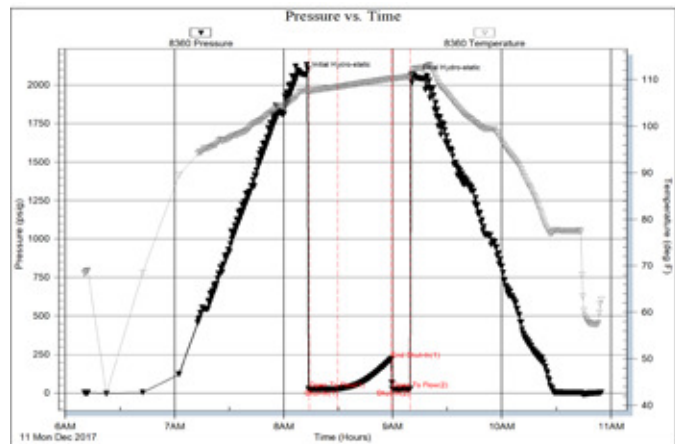
Rec: 1 ft mud with sli show of oil

IHP: 2066 FHP: 2046

IFP: 26-26 FFP: 26-26

ISIP: 221 FSIP: NA

BHT: 110°F



Rock Types

	Congl granite wash		Bent		Dol		Salt		Till
	dol ls limey		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Sandyls
	New symbol		Black shale		Meta		Siltst		
	Anhy		Coal		Mrlst		Ss		

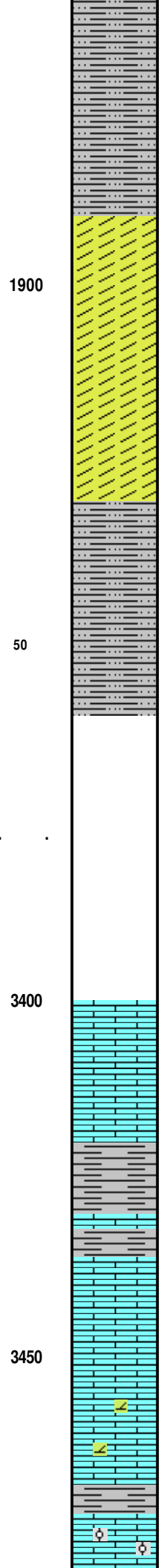
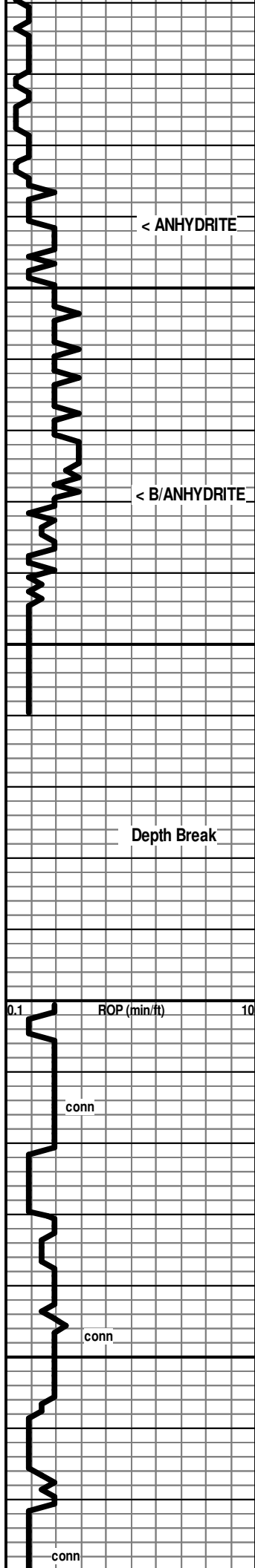
Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet	TEXTURE	
	Arg		Marl		Pisolite		Boundst
	Bent		Minxl		Plant		Chalky
	Bit		Nodule		Strom		Cryxln
	Brecfrag		Phos	STRINGER			Earthy
	Calc		Pyr		Anhy		Finexln
	Carb		Salt		Shale		Grainst
	Chtdk		Sandy		Bent		Lithogr
	Chtlt		Silt		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff		Ls		Wackest
	Ferr				Mrst		
	Glau						

Other Symbols

OIL SHOW		Even		Dead	INTERVAL		Core
	Oil & gas show		Spotty-patchy		Gas		Dst
	Gas show		Trace show				

ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft) — 0.1 ROP (min/ft) 10	1800	50		



← 1891 (+544)

Anhydrite Interval, based on drill time only!

← 1929 (+506)

Ls cr-gy, fn xln, pr xln por in pt, subchalky in pt, foss to abund foss

Sh gy-dk gy, subsilty in pt

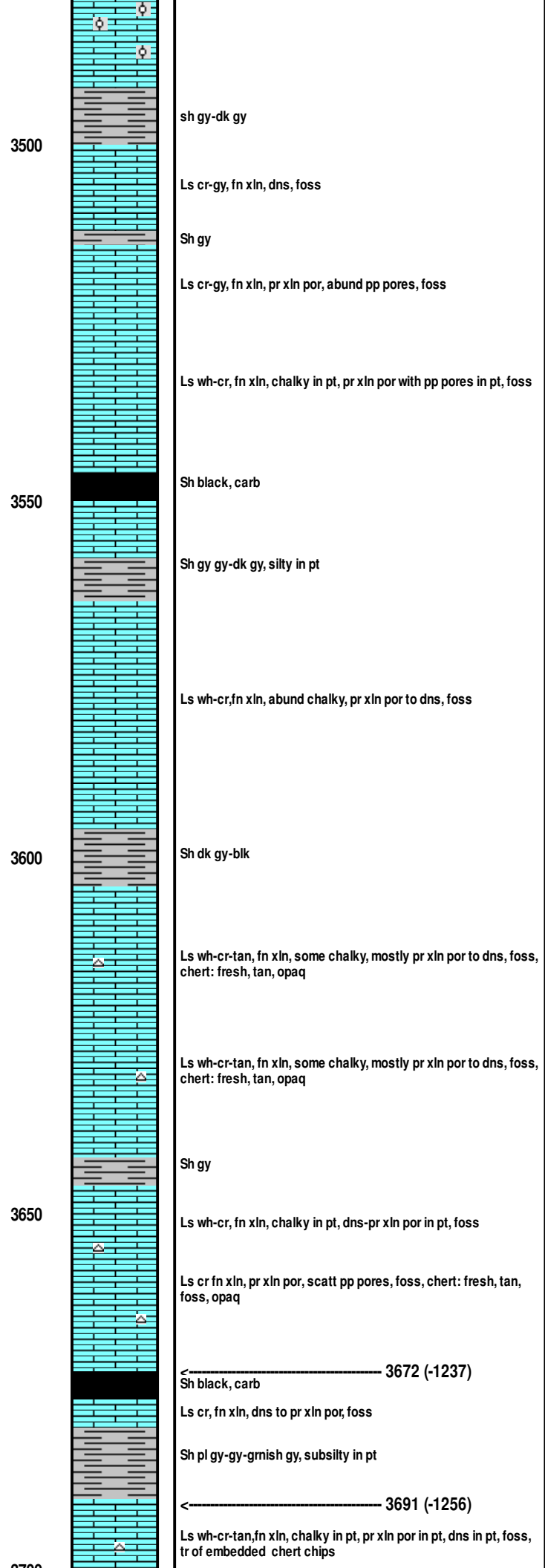
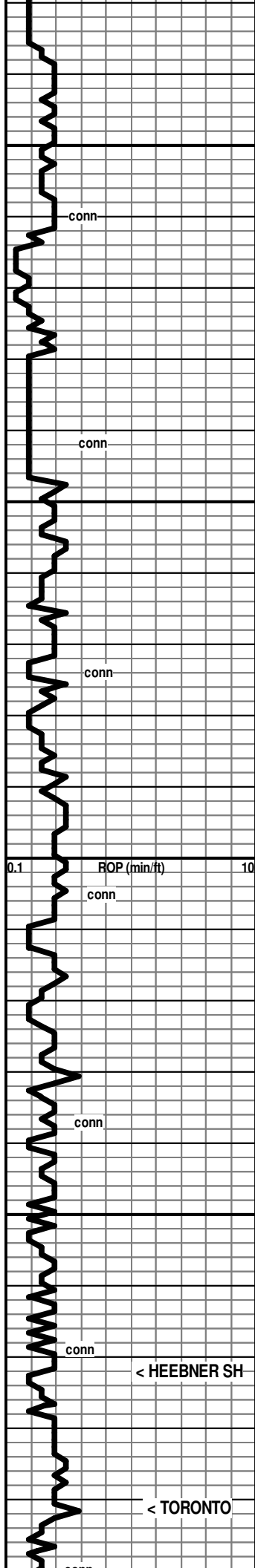
Ls cr-gy-dk gy, fn xln, pr xln por to dns, foss

Ls cr, fn xln, pr-fr xln por, subsucr in pt, foss

Sh gy-dk gy

Ls cr, fn xln, pr-fr xln por, ool-oom (fine), fr-gd oom por

* Displace and Mudup @ 3250'



sh gy-dk gy

3500

Ls cr-gy, fn xln, dns, foss

conn

Sh gy

Ls cr-gy, fn xln, pr xln por, abund pp pores, foss

conn

Ls wh-cr, fn xln, chalky in pt, pr xln por with pp pores in pt, foss

3550

Sh black, carb

Sh gy gy-dk gy, silty in pt

conn

Ls wh-cr,fn xln, abund chalky, pr xln por to dns, foss

3600

Sh dk gy-blk

0.1 ROP (min/ft) 10

conn

Ls wh-cr-tan, fn xln, some chalky, mostly pr xln por to dns, foss, chert: fresh, tan, opaq

Ls wh-cr-tan, fn xln, some chalky, mostly pr xln por to dns, foss, chert: fresh, tan, opaq

conn

Sh gy

3650

Ls wh-cr, fn xln, chalky in pt, dns-pr xln por in pt, foss

Ls cr fn xln, pr xln por, scatt pp pores, foss, chert: fresh, tan, foss, opaq

conn

< HEEBNER SH

<----- 3672 (-1237)
Sh black, carb

Ls cr, fn xln, dns to pr xln por, foss

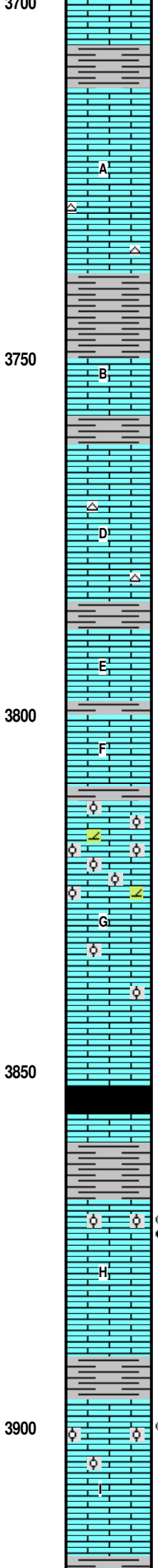
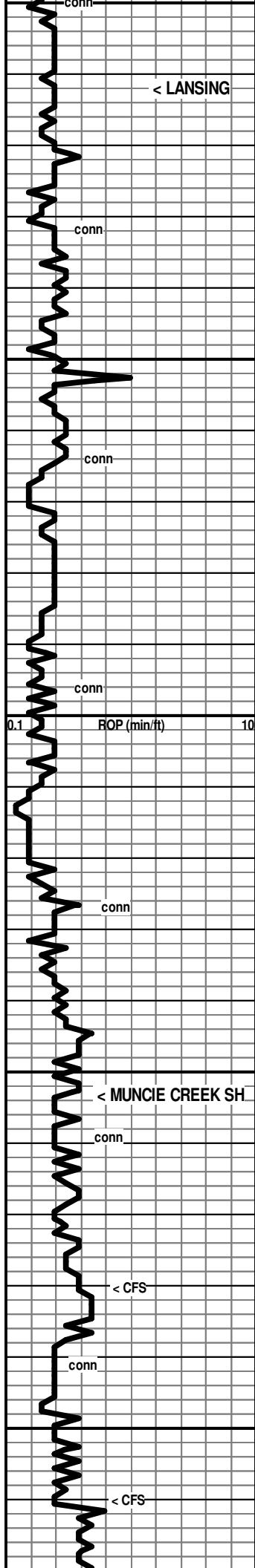
Sh pl gy-gy-gmish gy, subsilty in pt

< TORONTO

<----- 3691 (-1256)

Ls wh-cr-tan,fn xln, chalky in pt, pr xln por in pt, dns in pt, foss, tr of embedded chert chips

3700



Sh gy
 ← 3712 (-1277)
 Ls wh-cr,fn xln, dns-pr xln por in pt, chalky & soft in pt, foss

A
 Ls wh-cr,fn xln, dns-pr xln por in pt, chalky & soft in pt, foss, cherty

Sh gy

B
 Ls wh-cr,fn xln, dns-pr xln por in pt, chalky & soft in pt, foss

D
 Ls wh-cr, fn xln, abund chalky, pr xln por to dns in pt, sli foss, Chert: fresh, cr, subopaq

Sh gy-grmish

E
 Ls wh-cr-pl gy, fn xln, chalky & soft in pt, dns to pr-fr xln por in pt, foss (washes white)

Sh gy

F
 Ls wh-cr-pl gy, fn xln, chalky & soft in pt, dns to pr-fr xln por in pt, foss (washes white)

Sh gy

Ls cr-tan, fn xln, pr-fr xln por, dolom in pt, ool-oom in pt with scatt gd oom por

G
 Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, ool in pt

Ls cr, vfn-fn xln, dns

← 3853 (-1418)
 Sh black, carb
 Ls cr-tan, fn xln, dns to pr xln por, foss

Sh gy-grmish

Ls cr-tan, fn xln, pr xln por with Fr am't of patches of pp-vuggy pores, foss to ool, becomes dns with depth
 [Mod Odor, abund pcs with spotty-patchy mod-brt Fluor, abund pcs with spotty to patchy brn-dk brn stn & Rr even tan stn, Sli-Fr shows of gassy dk brn FO & NVL oil on brk]
 Ls wh-cr,fn xln, subchalky & softer to dns & firm

H
 Sh gy

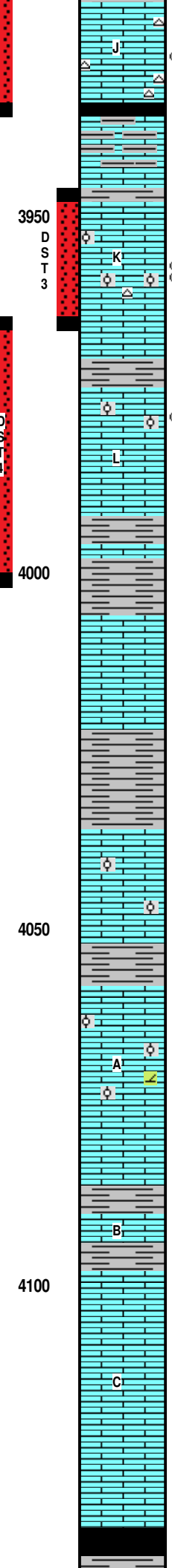
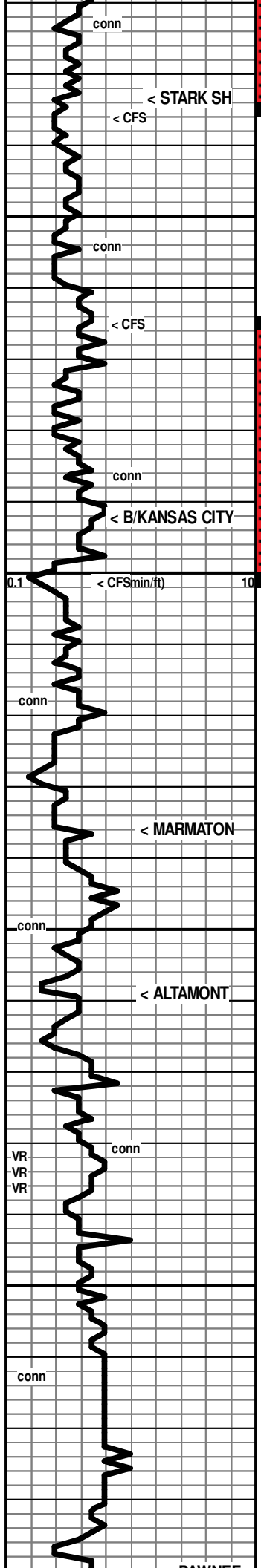
Ls wh-cr-tan, fn xln, chalky-subchalky in pt, dns & firm in pt, scatt embedded transl calcite patches, foss in pt, some ool pcs (well cem)
 [No Odor, few pcs total with trace spots of fluor with trace micro-spots of brn deadish to FO on crush]

I
 Sh gy-grmish gy-grn, subsilty text in pt

DST #1: 3846-3880 (LKC "H")
 Times: 15-30-60-90
 Initial Open: Fr, Blow built to 9" i.b., no return blow
 Final Open: Stg, Blow b.o.b. 35 min, weak surface return blow
 Rec: 215' Total Fluid, 465' gas in pipe
 65' Oil: 100%o (29* gravity)
 90' MGCO: 10%g 70%o 20%m
 60' GOCM: 10%g 30%o 60%m
 IHP: 1885 FHP: 1860
 IFP: 33-56 FFP: 61-110
 ISIP: 1197 FSIP: 1204
 BHT: 115°F

Mud Check: CTCH @ 3880':
 Vis Wt WL LCM PV YP
 60 9.0 6.8 2 16 26
 Chl Hd pH Solids
 1200 Tr 11.0 4.9
 7:00 AM, December 08, 2017

DST #2: 3883-3936 (LKC "I" "J")
 Times: 15-30-15-out
 Initial Open: Wk, Blow built to 1/2" i.b.
 Final Open: Wk surf blow died 5 min
 Rec: 20 SOCM: 5%o 95%m
 IHP: 1896 FHP: 1881
 IFP: 33-32 FFP: 34-32
 ISIP: 799 FSIP: NA
 BHT: 107°F



Ls cr-tan, fn xln, dns, sli foss

Ls wh-cr, fn xln, mostly dns to pr xln por with mod am't of scatt pp pores and sm vugs, foss & foss molds, chert: fresh, cr-tan, subopaq

3933 (-1498)

Sh black, carb

Ls & Limey Shale, cr-gy, shales subsilty text in pt

Ls wh-cr-tan, abund chalky & soft pcs, pr xln por to dns in great pt, Rr pcs with scatt pp pores & sm vugs, ool in pt to abund foss, Tr of embedded pyr patches, Tr of fresh spiculitic chert

[V Fnt Odor, V low % pcs with spotty-patchy dull fluor, pores & vugs contain dk brn stn of deadish to NVL oil and traces of dk brn FO]

Ls cr-tan, fn xln, dns, foss

Sh gy-black,

Ls wh-cr-tan-pl gy, fn xln, some chalky, some dns-pr xln por, some pcs ool with scatt interool pores, foss in pt

[V Fnt odor, Mod % pcs with dull-mod fluor. mod % pcs with scatt spotty to patchy brn stn, where stn'd-Tr to Sli shows of gassy brn FO on crush]

Ls cr-tan, vfn-fn xln, dns, sli foss

3992 (-1557)

Sh pl gy-gy-grmish, subsilty-silty in pt

Sh pinkish-reddish, soft, earthy to silty to sdy text (washes pinkish)

Ls wh-cr-tan-pl gy, vfn-fn xln, some chalky & soft, some dns & firm, grainy in pt

Ls cr-tan-pl gy, vfn-fnxln, dns, foss

Sh gy-red, soft to subfirm, mushy in pt

.4050' spl: Sh red soft to mushy, silty in pt (washes reddish)

4036 (-1601)

Ls wh-cr-tan, fn xln, much soft chalky, some dns

.4060' spl: Ls wh, fn xln, subchalky-chalky to dns, abund ool (well cemented)

.4070' spl: Sh mostly gy-grmish, some reddish, silty in pt, soft to subfirm, some white ls in spls

4059 (-1624)

.4080' spl: Ls wh-cr, fn xln, chalky to dns, abund ool (well cemented)

Ls wh-cr, vfn-fn xln, dns & pseudoxln in pt, subsucr text in pt (dolom), chalky in pt, ool & foss in pt

.4100' spl: 50% Shales, gy-grmish-pink, mushy to soft; 50% Ls wh-cr, vfn-fn xln, dns with some chalky, foss to ool, some pink-orange grainy-fresh chert

Ls cr-tan-gy, vfn xln, pseudoxln in pt, grainy/sdy in pt, some subchalky ls

LS wh-cr-gy, vfn-fn xln, dns & firm in pt, chalky in pt, sdy/grainy text in pt

Sh dk gy-black,carb in pt, calc in pt

[J zn: Fnt Odor, Mod am't of dull-mod fluor, Mod am't pcs with spotty-patchy brn to dk brn stn with mostly sli shows brn FO-NVL oil, some Fr show gassy FO, some dk deadish oil]

7:00 AM, December 09, 2017

Pipe Strap @ 3936': 1.29 ft long

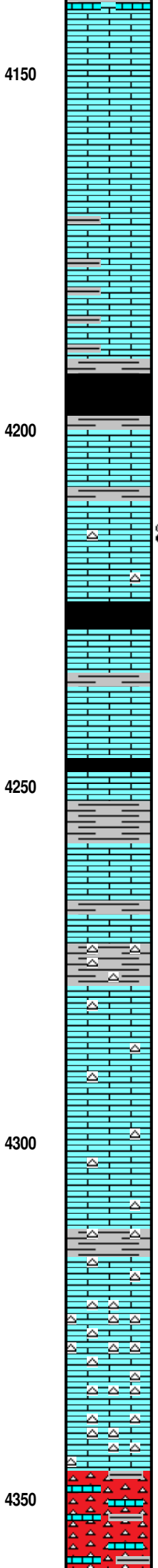
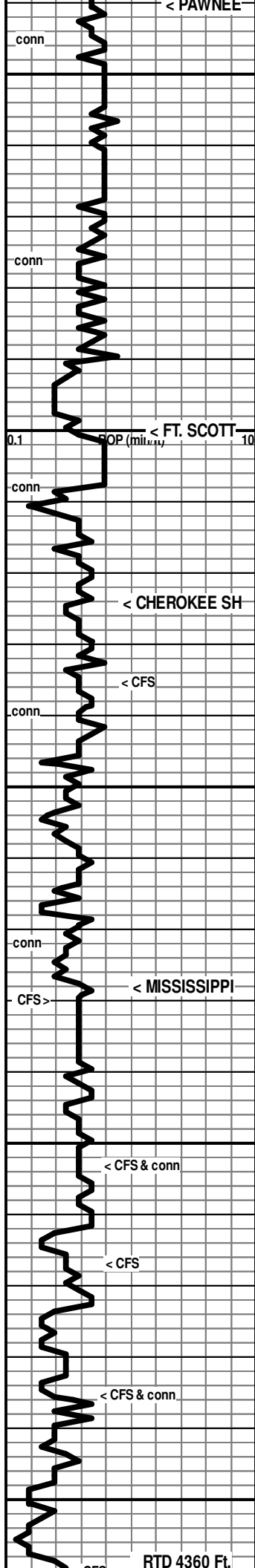
Mud Check: TIH/Bit @ 3936':
 Vis Wt WL LCM PV YP
 54 9.1 6.8 2 18 24
 Chl Hd pH Solids
 1000 Tr 11.0 5.7

DST #3: 3946-3965 (LKC "K")
 Times: 15-30-45-60
 Initial Open: Stg, built to b.o.b. 6 min, no return blow
 Final Open: Stg, built to b.o.b. 5 min, weak surface return blow
 Rec: 245' Total Fluid, 1365' gas in pipe
 155' Oil: 100%o (38* gravity)
 90' GMCO: 30%g 58%o 12%m
 IHP: 1912 FHP: 1879
 IFP: 29-46 FFP: 51-93
 ISIP: 615 FSIP: 602
 BHT: 120°F

7:00 AM, December 10, 2017

DST #4: 3965-4001(LKC "L")
 Times: 15-30-30-30
 Initial Open: Weak Surface Blow Throughout
 Final Open: Weak Surface Blow Throughout
 Rec: 35' HOCM: 30%o 70%m
 IHP: 1935 FHP: 1913
 IFP: 22-25 FFP: 22-32
 ISIP: 605 FSIP: 577
 BHT: 108°F

Mud Check: TOOH/DST4 @ 4001':
 Vis Wt WL LCM PV YP
 57 9.0 6.4 2 18 26
 Chl Hd pH Solids
 900 Tr 10.5 4.9



4140 (-1/05)
 Ls cr-tan-pl gy, vfn-fn xln, dns & firm

Ls cr-tan-pl gy, vfn-fn xln, dns, some subchalky to subgrainy text

Ls cr-gy, fn xln, dns with some subchalky in patches & pcs, shaley in pt

Sh gy-dk gy-black, carb in pt

4200 (-1765)
 Ls cr-tan, vfn-fn xln, dns, sli foss

Ls cr fn xln, pr xln por in pt with scatt interfoss pp pores, dns in pt, foss, Chert: fresh, tan, spiculitic, subtransl

[Mild Odor, Low % pcs with dull-mod fluor, spotty-patchy-even tan-lt brn stn with sli shows of tan-brn gassy FO & NVL oil]

4224 (-1789)
 Sh black, carb

Ls cr, fn xln, dns, foss

Ls wh-cr, fn xln, mostly dns, some soft & chalky pcs

Sh black, carb

Sh gy-dk gy-gmish gy

Ls wh-cr, fn xln, mostly dns & firm, some soft & chalky, foss in pt, some embedded sd grains

Ls wh-cr-tan, fn xln, mostly dns & firm, some soft & chalky, foss in pt, some embedded sd grains

Mix of Shales & Chert & Ls: Shales red-grn-gy-yell, silty-sdy in pt, subwaxy in pt mushy in pt (washes pl red); Chert fresh to subgrainy, cr-tan-or-red, subtransl-subopaq; Ls wh chalky to dns

4278 (-1843)
 [4390' spl: Predominantly Ls wh-cr, fn xln, dns, cherty; lesser amount of shales and chert as above

[4300' spl: 65% Ls wh-cr, fn-md xln, chalky in pt, foss, scatt crs xls, some lace with dk red shale; 35% shales and cherts as above

[4303' 20 min spl: 90% Ls wh-cr, fn xln, mostly dns-pr xln por, some chalky, some crs, some grainy text, some fresh chert & shale

[4317' spl: 90% Ls wh-cr, fn xln, mostly dns-pr xln por, some chalky, some crs, some grainy text, some fresh chert (foss in pt) & shale

[4317' circ spls: Ls wh-cr, fn xln, mostly dns-pr vis xln por, some chalky, abund crs/blocky, some grainy text, incr in fresh chert (foss in pt)

[No Show]

Ls wh-cr, fn xln, mostly dns-pr vis xln por, some chalky, abund crs/blocky, some grainy text, some red shale filled pores & reddish mushy chalky, additional incr in fresh chert (foss in pt) (spl washes pl red)

[No Show]

Ls wh-cr, fn xln, chalky and soft to dns & firm, abund red shale stn'g, V Cherty, fresh, cr-tan-or, foss/spic in pt

4360' Circ spls: 30% Shales red-grn-gy; 30% Ls wh-cr, fn xln, dns in pt, chalky in pt; 40% Chert fresh, cr-tan and mostly white, fresh to weath'd, opa-q-transl, foss/spic in pt

[No Show]

DST #5: 4166-4235 (Ft. Scott)
 Times: 15-30-10-out
 Initial Open: Weak Blow, built to 1/8" i.b., died in 12 min.
 Final Open: No Blow
 Rec: 1 ft mud with sli show of oil
 IHP: 2066 FHP: 2046
 IFP: 26-26 FFP: 26-26
 ISIP: 221 FSIP: NA
 BHT: 110°F

7:00 AM, December 11, 2017

Mud Check: TOO/DST5 @ 4235':

Vis	Wt	WL	LCM	PV	YP
53	9.2	6.8	1	15	22
Chl	Hd	pH	Solids		
900	Tr	10.5	6.4		

RTD 4360 Ft.

< CFS

LTD 4360 Ft.

RTD 4360 ft. at 11:00 PM,
December 11, 2017

0.1 ROP (min/ft) 10

4400