

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)</i> <i>(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	WERTH 3
Doc ID	1418017

Tops

Name	Top	Datum
Anhydrite	1874	545
Heebner Sh.	3649	-1230
Toronto	3669	-1250
Lansing	3687	-1268
Stark Shale	3915	-1496
B/KC	3969	-1550
Marmaton	4010	-1591
Altamont	4035	-1616
Pawnee	4115	-1696
Fort Scott	4176	-1757
Cherokee Sh	4202	-1783
Mississippian	4288	-1869

COPELAND

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

Page: 1

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
C45880-IN

BILL TO:
CARMEN SCHMITT, INC.
P.O. BOX 47
GREAT BEND, KS 67530

LEASE: WERTH #3

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
06/13/2018	C45880		06/06/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	EA	PRICE AS AGREED TO: 8 5/8" SURFACE PIPE <i>7/10/43</i> <i>19380.0003</i> <i>Well Site</i> <i>Cement Surface Pipe</i>		0.00	2,999.00	2,999.00
REMIT TO:		COP		Net Invoice:		2,999.00
P.O. BOX 438 HAYSVILLE, KS 67060		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		TRECO Sales Tax:		239.92
RECEIVED BY _____		NET 30 DAYS		Invoice Total:		3,238.92

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.



FIELD ORDER № C 45880

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 6-6 20 18

IS AUTHORIZED BY: Carmen Schmitt
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Werth Well No. 3 Customer Order No. _____

Sec. Twp. Range _____ County Trego State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator _____ By _____ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2		Price as agreed to: Cement 8 5/8 Surface Pipe		2999 ⁰⁰
		Bulk Charge		
		Bulk Truck Miles		
		Process License Fee on _____ Gallons		
		TOTAL BILLING		2999 ⁰⁰

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Greg C.

Station 603

Matt S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



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



Invoice

DATE	INVOICE #
6/14/2018	31593

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	#3	Werth	Trego	Murfin Drilling R...	Oil	Development	5 1/2 Longstring	David K

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	50	Miles	5.00	250.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString	1	Job	1,800.00	1,800.00
402-5	5 1/2" Centralizer	10	Each	70.00	700.00T
403-5	5 1/2" Cement Basket	3	Each	275.00	825.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	325.00	325.00T
325	Standard Cement	150	Sacks	13.00	1,950.00T
284	Calseal	7	Sack(s)	35.00	245.00T
283	Salt	750	Lb(s)	0.20	150.00T
292	Halad 322	100	Lb(s)	8.00	800.00T
276	Flocele	175	Lb(s)	2.50	437.50T
330	Swift Multi-Density Standard (MIDCON II)	450	Sacks	16.25	7,312.50T
281	Mud Flush	500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
290	D-Air	6	Gallon(s)	42.00	252.00T
581D	Service Charge Cement	600	Sacks	1.75	1,050.00
583D	Drayage	1,510.62	Ton Miles	0.85	1,284.03
	Subtotal				18,431.03
	Sales Tax Trego County			8.00%	1,123.76

7/10/43
19380.0003
Well Rile
Cement Long String

We Appreciate Your Business!	Total	\$19,554.79
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CHARGE TO: Carmen Schmitt Inc.

ADDRESS

CITY, STATE, ZIP CODE

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>#3</u>	LEASE <u>Werth</u>	COUNTY/PARISH <u>Trego</u>	STATE <u>KS</u>	CITY <u>Utica</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Murfin Drilling</u>	RIG NAME/NO. <u># 16</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>5 1/2" Longstring</u>	WELL PERMIT NO.	
4.	REFERRAL LOCATION				
INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.
		LOC	ACCT	DF				
575		1			MILEAGE <u>Trk # 112</u>			50
579		1			<u>Pump Charge - Top to Bottom Longstring</u>			1
402		1			<u>Centralizer</u>	5 1/2 in		10
403		1			<u>Cement Basket</u>	5 1/2 in		3
406		1			<u>Latch Down Plug + Baffle</u>	5 1/2 in		1
407		1			<u>Insert Float Shoe w/ Auto Fill</u>	5 1/2 in		1

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 Carmen Schmitt

DATE SIGNED 6-14-18 TIME SIGNED 1800 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UNDECIDED
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
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

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

SWIFT OPERATOR David Huebs APPROVAL



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

TICKET CONTINUATION

CUSTOMER: *Cummins Schmitt Inc.* WELL: *Werth #3*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	U/M	QTY	U
		LOC	ACCT	DF						
325		1				Standard Cement (EA-2)			150	s
284		1				Calscal	5	%	7	s
283		1				Salt	10	%	750	lb
292		1				Halad 322	3/4	%	100	lb
276		1				Floccer	1/4	lb	175	lb
330		1				SMD Cement			450	lb
281		1				Mud Flush			500	gal
221		1				Liquid KCL			2	gal
290		1				D-Air			6	gal
581		1				SERVICE CHARGE				CUBIC FEET
583		1				MILEAGE CHARGE				600
						TOTAL WEIGHT				1510.63
						LOADED MILES			50	

JOB LOG

SWIFT Services, Inc.

DATE 6-14-18 PAGE NO. 1

CUSTOMER Casmen Schmitt WELL NO. #3 LEASE Worth JOB TYPE 5 1/2 Longstring TICKET NO. #31593

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							on location 5 1/2" 14"
								RTD - 4350' LTD - N/A
								TP - 4128' SJ - 3860'
								cont. #2" 4" 6" 8" 10" 11" 13" 15" 52" 53
								Basket - #1" 32" 51 out - #98" 99" 100" 101" 102
	1350							Start 5 1/2" 14" Pipe in well
	1530							Drop Ball circulate
	1630	6 1/2	12		✓	350		Pump 500 gal Mud Flush
		6 1/2	20		✓	350		Pump 20 bbl HCL Flush
			16-11					Plug RH - MH (30-20)
	1645	6	222		✓	300		mix 400 stks SMD @ 11.2 ppg
		4 1/2	36		✓	200		mix 150 stks EA-2 @ 15.5 ppg
								wash out Pump + Lines
	1745	6 1/2	∅		✓	100		Start Displacement
		6 1/2	50		✓	300		Lift Pressure
		6 1/2	85		✓	700		circulate cement to surface - *25 stks*
		6 1/2	98		✓	900		max lift Pressure
	1800	6 1/2	99.7		✓	2000		Land Latch Down Plug
								Release Pressure *Plug Hold*
								wash up truck
								Job Complete

Thanks You
 Dave Preston Shane Kirby



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

Well Name: Werth #3 - Carmen Schmitt, Inc.
API: 15-195-23055-00-00
Location: NW-SE-SW-NE, Section 07-14S-25W
License Number: KCC #6569
Spud Date: June 06, 2018
Surface Coordinates: 2000' FNL & 1900' FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2414 Ft. K.B. Elevation (ft): 2419 Ft.
Logged Interval (ft): 3400 Ft. To: 4350 Ft. Total Depth (ft): RTD 4350 Ft. LTD 4350 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Trego County, Kansas
Drilling Completed: June 14, 2018
Results: Production Casing Set
Field: Overland NE

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

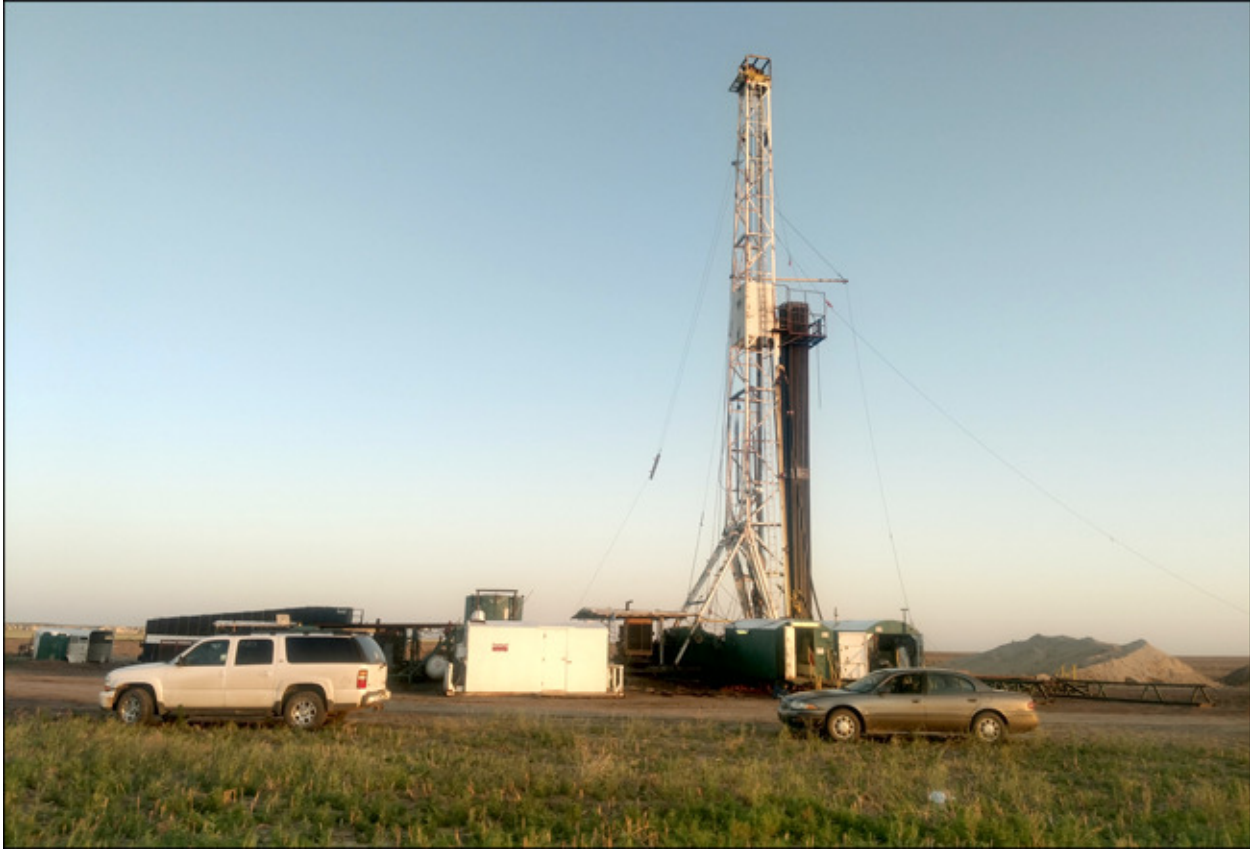
Operator

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 #320A
Wichita, Kansas 67202

**Carmen Schmitt, Inc.
"Werth #3"
Section 07-14S-25W, Trego County, Kansas**



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 "Werth #3", on June 14, 2018.

**Respectfully submitted,
M. Bradford Rine, Geologist**

Drilling Information

Rig: Murfin Drilling Co. Rig #16

Pump: Emsco D-375 6x14

Drawworks: Cardwell Royale

Collars: 489' 6-1/4 x 2-1/4

Drillpipe: 4-1/2" 16.6# XH

Toolpusher: Andrew Dinkel

Mud: Mudco (Gary Schmidtberger)

Gas Detector: None

Drill Stem Tests: Trilobite (Brannan Lonsdale)

Logs: ELI (Jeff Luebbers)

Water: Harvey Irrigation Well (Walker Tank)

Company Representatives:

Office: Carmen Schmitt

Field: Curtis Hitchmann

Daily Drilling Status

Date:	Operations/Depth/Comments
06-06-18	MIRT, RU, & Spud @ 0'
06-07-18	Waiting on Cement @ 218', And Light Plant Repair
06-08-18	Drilling @ 1465'
06-09-18	Drilling @ 2835'
06-10-18	Drilling @ 3640'
06-11-18	Trip in Hole After DST 1 @ 3885'
06-12-18	Trip Out of Hole with DST 3 @ 3944'
06-13-18	Drilling @ 4120'
06-14-18	Logging @ 4350'
06-15-18	Rig Released at 10:00 PM, on June 14

	Results: Oil			(Well A) Oil		(Well B) Oil			
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Carmen Schmitt, Inc.			
	Werth #3			Werth #1		WP Unit #5-7			
	2000' FNL & 1900' FEL			993'FNL & 1752' FEL		2200' FSL & 2310'FWL			
	Sec. 07-14S-25W			Sec. 07-14S-25W		Sec. 07-14S-25W			
	KB	2419		KB	2436	KB	2429	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1878	1874	545	1897	539	1884	545	6	0
B/Anhydrite	1914	1914	505	1933	503	1920	509	2	-4
Tarkio	NC	3262	-843	3282	-846	3272	-843	3	0
Heebner Sh.	3650	3649	-1230	3666	-1230	3658	-1229	0	-1
Toronto	3669	3669	-1250	3686	-1250	3690	-1261	0	11
Lansing	3687	3687	-1268	3706	-1270	3706	-1277	2	9
Muncie Creek Sh.	3835	3834	-1415	3856	-1420	3848	-1419	5	4
Stark Sh.	3918	3915	-1496	3935	-1499	3927	-1498	3	2
B/Kansas City	3969	3969	-1550	3987	-1551	3984	-1555	1	5
Marmaton	4011	4010	-1591	4029	-1593	4024	-1595	2	4
Altamont	4036	4035	-1616	4050	-1614	4049	-1620	-2	4
Pawnee	4115	4115	-1696	4130	-1694	4131	-1702	-2	6
Ft. Scott	4176	4176	-1757	4192	-1756	4193	-1764	-1	7
Cherokee Sh.	4204	4202	-1783	4217	-1781	4218	-1789	-2	6
Mississippian	4289	4288	-1869	4302	-1866	4291	-1862	-3	-7
Total Depth	4350	4350	-1931	4358	-1922	4343	-1914	-9	-17

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 5 jts 5-5/8" 23#, Set @ 217'. (Copeland) Cement with 175 sx Common, 3% gel 2% CC. Plug Down at 7:00 PM. Cement did circulate.

Production: Ran 98 jts new 5-1/2" 14# Casing. Set casing at 4126 ft. (Swift) Ran 500 gal mud flush, 20 bbls KCL flush. Plugged RH with 30 sx, plugged MH with 20 sx. Cement with 400 sx SMD @ 11.2 PPG and 150 sx EA2 at 15.5 PPG. Displaced with 99.7 bbls, circulated 25 sx cement. Plug held. Job complete at 6:00 PM, JUNE 14, 2018.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Reed	TC11CP	0	218	3.25
2	7-7/8	HTC	GX20C	218	3920	64.75
3	7-7/8	HTCrr	GX20C	3920	4350	22.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	218'	1.00*	3885'
0.50*	2910'	1.00*	4350'

PIPE STRAPS:

Difference:	depth:
.05'	3885'

DST #1: 3830-3885 (LKC H,I)

Times: 15-30-60-60

**Initial Open: Stg Blow, b.o.b. 15 min,
No Return Blow**

**Final Open: Stg Blow, b.o.b. 10 min,
No Return Blow**

Rec: 285' gas in pipe, 158' Total Fluid

60' OCM: 20%o 80%m

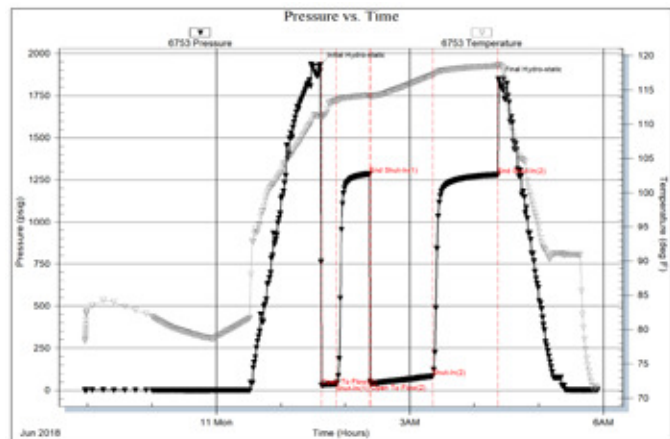
98' SGCO: 10%g 90%o

IHP: 1932 FHP: 1847

IFP: 29-37 FFP: 40-84

ISIP: 1286 FSIP: 1281

BHT: 119°F



DST #2: 3890-3920 (LKC J)

Times: 15-30-30-60

**Initial Open: Stg Blow, b.o.b. 30 sec.,
Return Blow b.o.b. 7 min**

**Final Open: Stg Blow, b.o.b. 1 min.,
Return Blow b.o.b. 14 min**

Rec: 2251' gas in pipe, 920' Total Fluid

254' GMCO: 20%g 60%o 20%m

666' GCO: 20%g 80%o

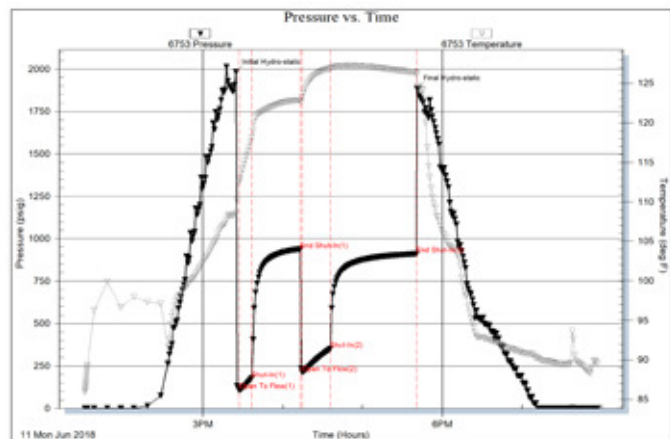
(Oil 38* API)

IHP: 1982 FHP: 1887

IFP: 109-177 FFP: 212-351

ISIP: 938 FSIP: 910

BHT: 126°F



DST #3: 3927-3944 (LKC K)

Times: 15-30-45-60

**Initial Open: Stg Blow, b.o.b. 2 min,
No Return Blow**

**Final Open: Stg Blow, b.o.b. 2 min.,
Return Blow built to 9" i.b., fell to 7"**

Rec: 1585' gas in pipe, 255' Total Fluid

30' OCM: 20%o 80%m

225' GCO: 35%g 65%o

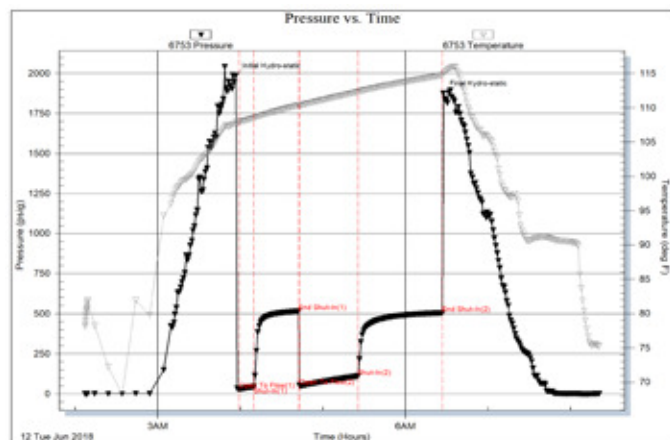
(Oil 34* API)

IHP: 1985 FHP: 1875

IFP: 29-44 FFP: 48-110

ISIP: 514 FSIP: 504

BHT: 115°F



DST #4: 2950-3980 (LKC L)

Times: 15-30-05-out

Initial Open: Wk Surf Blow, died 4 min.

Final Open: No Blow, Dead

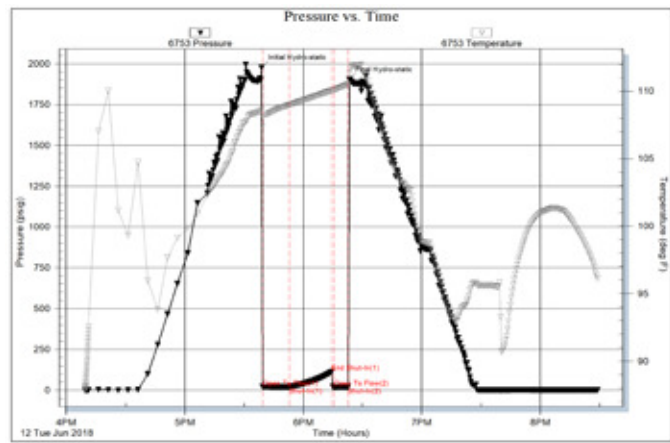
Rec: 5' Oil Spotted Mud

IHP: 1976 FHP: 1904







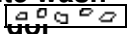



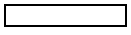








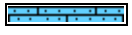
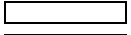





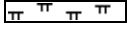

IFP: 21-21 FFP: 20-21

ISIP: 114 FSIP: NA















BHT: 111°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/coal		Meta		Siltst		
	Anhy		Congl		Mrlist		Ss		

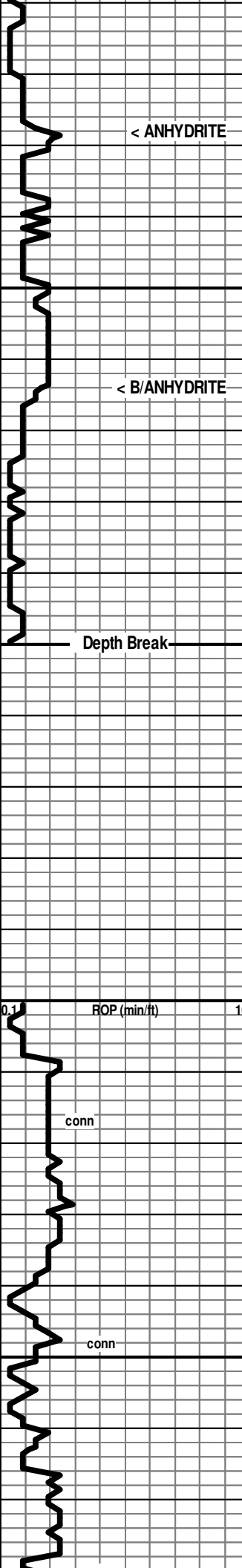
Accessories

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

Other Symbols

OIL SHOW		Even		Dead	INTERVAL
	Oil & gas show		Spotted		Core
	Gas show		Trace or questionable		Dst

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



< ANHYDRITE

1900

< B/ANHYDRITE

Depth Break

3400

ROP (min/ft)

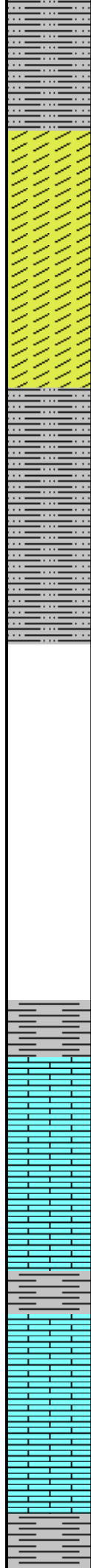
0.1

10

conn

3450

conn



← 1878 (+541)

← 1914 (+505)

* Displace & Mudup @ 3290 ft!

Sh gy-grn subsilty in pt

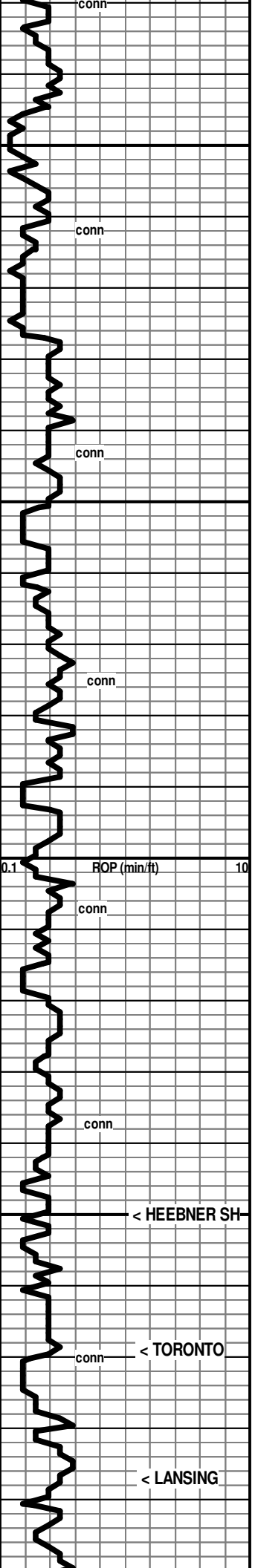
Ls wh-cr,fn xln, pr xln por to dns, fos

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

Sh gy-grn

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

Sh gy-grnish gy-grn



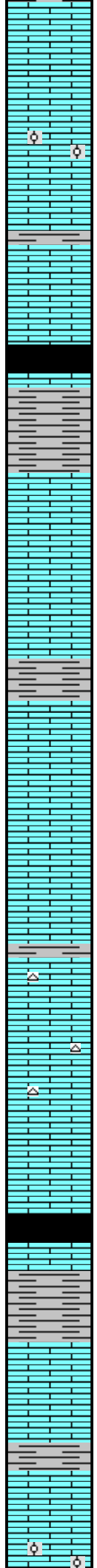
3500

3550

3600

3650

3700



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

Ls wh-cr,fn xln, pr-fr xln por, foss & micro ool with abund micro ool pores

Sh gy-grnsh

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

Sh black, carb

Sh gy-grnsh gy-grn

Ls wh-cr-gy, fn xln, pr-fr xln in pt, dns in pt, foss

Sh gy-grn

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

Ls cr-tan-gy, fn xln, mostly dns, some pr xln por, sli foss

Sh gy-grn

Ls wh-cr-tan, fn xln, dns in pt, pr-fr xln por in pt, chert: fresh, cr-tan, subopaq, foss

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

Sh black, carb

Ls cr, fn xln, pr xln por to dns

Sh gy-dk gy-grnsh gy

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

Sh gy-grnsh

Ls wh-cr, fn xln, chalky in pt, pr xln por, abund micro pores, micro ool,

7:00 AM, June 10, 2018

Mud Check, Drlg @ 3640':

Vis	Wt	WL	LCM	PV	YP
60+	8.8	6.2	2	16	27
Chl	Hd	pH	Soilds		
4400	nil	11.0	3.4		

< HEEBNER SH

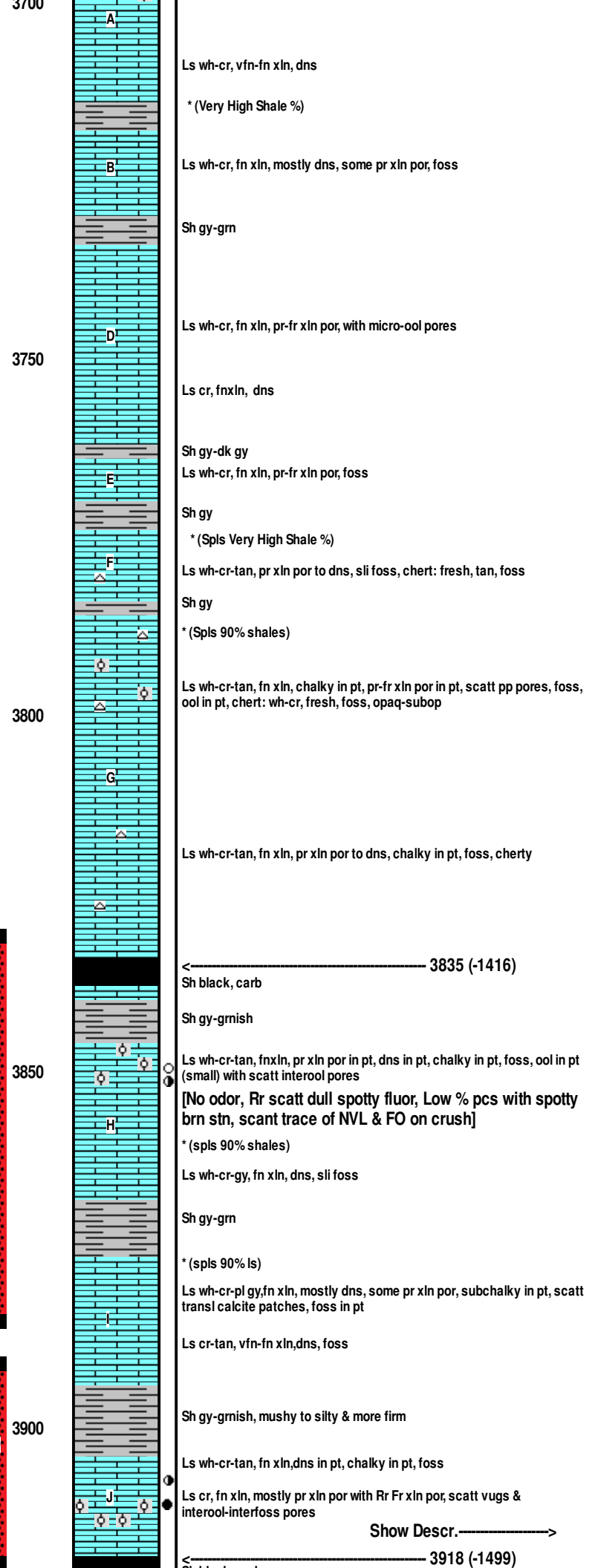
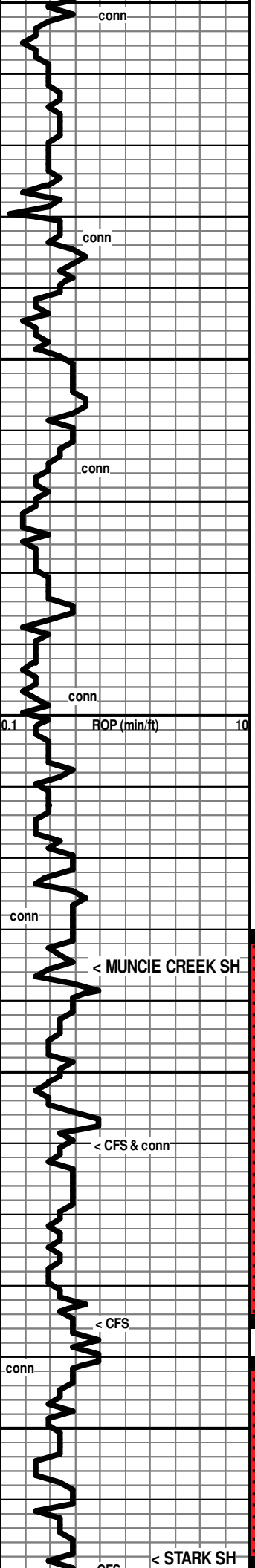
< TORONTO

< LANSING

3650 (-1231)

3669 (-1250)

3687 (-1268)



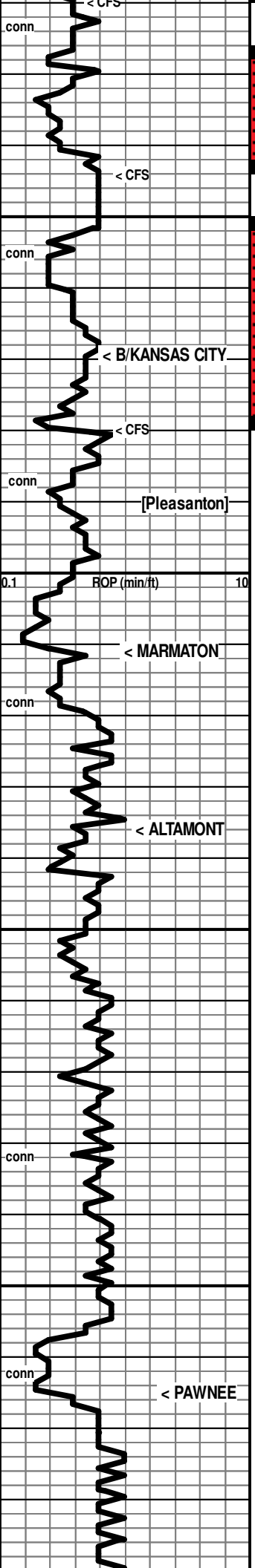
DST #1: 3830-3885 (LKC H,I)
 Times: 15-30-60-60
 Initial Open: Stg Blow, b.o.b. 15 min,
 No Return Blow
 Final Open: Stg Blow, b.o.b. 10 min,
 No Return Blow
 Rec: 285' gas in pipe, 158' Total Fluid
 60' OCM: 20%o 80%_m
 98' SGCO: 10%g 90%_o
 (Oil 34* API)
 IHP: 1932 FHP: 1847
 IFP: 29-37 FFP: 40-84
 ISIP: 1286 FSIP: 1281
 BHT: 119°F

* Pipe Strap @ 3885': .05 ft short!

7:00 AM, June 11, 2018
 Mud Check, After DST1 CTCH @ 3885':
 Vis Wt WL LCM PV YP
 60+ 9.1 6.0 2 19 33
 Chl Hd pH Solids
 4500 Tr 10.5 5.5

[Fnt Odor, Mod am't of dull spotty & patchy fluor, mixed spotty-patchy-even brn to dk brn stn, some sat stn, mostly sli to fr shows of a mix of lt brn-b brn FO, NVL oil, Dead oil, some gd show of gas FO, some black resid stn]

Show Descr. →



Sh black, carb

Sh gy-gm, calc in pt

Ls wh-cr-tan, fn xln, pr vis xln por in pt, dns in pt, scatt pp pores & vugs, foss, Rr ool with scatt interool pores, chert: fresh, cr-tan-or, subtransl, spic, foss

[Fnt Odor, Fr am't of dull-mod fluor, Low % pcs with brn-dk brn spotty to patchy stn, some even tan stn, Mostly Tr to sli shows with Rr Fr shows of: lt brn-brn-dk brn gassy FO to FO to NVL oil]

7:00 AM, June 12, 2018

Ls wh-cr-tan,fn xln, mostly dns, some chalky, foss in pt

Sh gy-dk gy

Ls cr-tan, fn xln, mostly dns, some pr xln por, some widely scatt vugs, foss, ool in pt-mostly cem with scatt interool pores, chert: fresh, tan, transl, spic

[Fnt Odor, Mod % pcs with spotty-patchy dull fluor, Mod % pcs with brn spotty-patchy stn, Rr even tan stn, low % pcs with trace to sli shows of brn FO on crush (some gassy) some blk resid stn]

← 3969 (-1550)

Sh gy-gmish

Sh gy-dk gy

Ls wh-cr-tan, fn xln, mostly dns & firm, some softer & subchalky

Ls gy, fn xln,dns

Sh mostly gy-gmish gy-grn, some reddish

← 4011 (-1592)

Ls wh-cr-tan, fn-vfn xln, mostly dns & firm, some softer & subchalky, abund packed ool (well cem), pr crush, some patches reddish brn shale stn'g

Sh gy-gmish

← 4036 (-1617)

Ls wh-cr, fnxln, dns, ool in pt

Ls wh-cr-tan,vfn-fn xln, mostly dns, some chalky-subchalky, foss in pt, ool in pt

Ls wh-cr, f-vfn xln, dns to subchalky, abund chert: fresh, salmon color, subtr-subop

Ls wh-cr-tan, vfn-fn xln, dns, chert: fresh, salmon, subtr-subop

Ls cr-tan-gy, vfn-fn xln, dns, silty/grainy text in pt

Ls cr-tan-gy, vfn-fn xln, dns, silty/grainy text in pt, chert: tan, fresh tosubgrainy text, subtransl

Sh black-dk gy-gy-gmish

← 4115 (-1696)

Ls wh-cr-gy, vfn-fn xln, dns, subchalky in pt, grainy text in pt

Ls wh-cr-gy, vfn-fn xln, dns, subchalky in pt, grainy text in pt, chert: fresh, tan, transl

DST #2: 3890-3920 (LKC J)
 Times: 15-30-30-60
 Initial Open: Stg Blow, b.o.b. 30 sec.,
 Return Blow b.o.b. 7 min
 Final Open: Stg Blow, b.o.b. 1 min.,
 Return Blow b.o.b. 14 min
 Rec: 2251' gas in pipe, 920' Total Fluid
 254' GCMO: 20%g 60%o 20%m
 666' GCO: 20%g 80%o
 (Oil 38* API)
 IHP: 1982 FHP: 1887
 IFP: 109-177 FFP: 212-351
 ISIP: 938 FSIP: 910
 BHT: 126°F

Mud Check, CTCH after DST3 @ 3944':

Vis	Wt	WL	LCM	PV	YP
53	9.0	6.0	1	15	24
Chl	Hd	pH	Soilds		
5700	Tr	10.5	4.7		

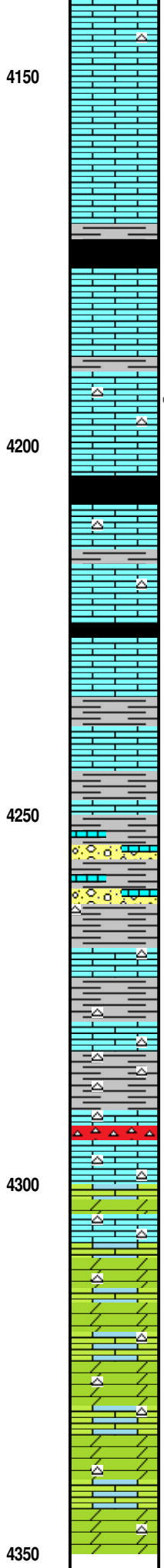
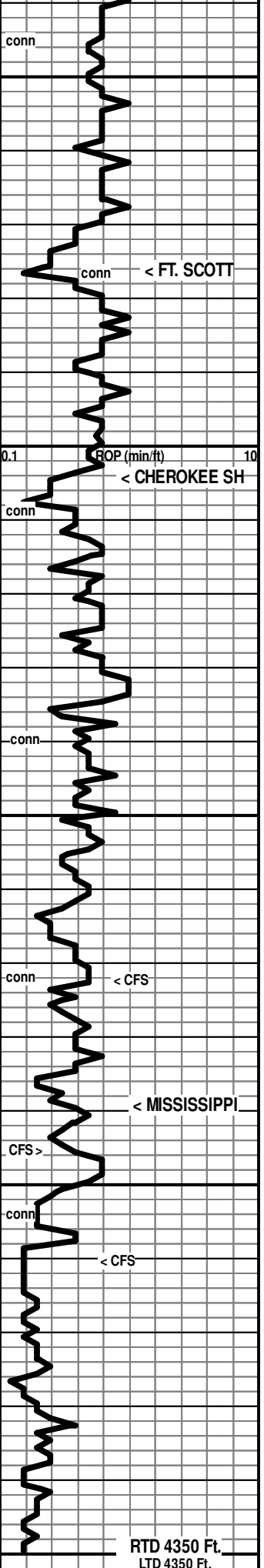
DST #3: 3927-3944 (LKC K)
 Times: 15-30-45-60
 Initial Open: Stg Blow, b.o.b. 2 min,
 No Return Blow
 Final Open: Stg Blow, b.o.b. 2 min.,
 Return Blow built to 9" i.b., fell to 7"
 Rec: 1585' gas in pipe, 255' Total Fluid
 30' OCM: 20%o 80%g
 225' GCO: 35%g 65%o
 (Oil 34* API)
 IHP: 1985 FHP: 1875
 IFP: 29-44 FFP: 48-110
 ISIP: 514 FSIP: 504
 BHT: 115°F

DST #4: 2950-3980 (LKC L)
 Times: 15-30-05-out
 Initial Open: Wk Surf Blow, died 4 min.
 Final Open: No Blow, Dead
 Rec: 5' Oil Spotted Mud
 IHP: 1976 FHP: 1904
 IFP: 21-21 FFP: 20-21
 ISIP: 114 FSIP: NA
 BHT: 111°F

7:00 AM, June 13, 2018

Mud Check, Drlg @ 4137':

Vis	Wt	WL	LCM	PV	YP
52	9.2	6.0	1	18	25
Chl	Hd	pH	Soilds		



Ls cr-gy, vfn-fn xln, dns, subchalky in patches & pcs

Sh dk gy-black, carb in pt
← 4176 (-1757)

Ls cr-tan-gy, fn-vfn xln, mostly dns with some subchalky in patches & pcs, sli foss in pt

Sh gy
Ls wh-cr-tan-gy, fn xln, dns, foss, chert: fresh, tan, transl
[No Odor, No fluor, a few pcs with spots of brn stn, NSFO]

← 4204 (-1785)

Sh black, carb

Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some softer & chalky, foss, chert: fresh, tan, transl, spiculitic

Ls wh-cr-tan, vfn-fn xln, mix of dns & firm to soft & chalky, foss, sli cherty

Sh black to dk gy, carb in pt

Ls wh-cr-tan, vfn-fn xln, dns & firm to softer & subchalky to chalky, foss

Sh gy-dk gy

Ls cr-tan, fn xln, dns, foss

Sh gy-dk gy

Sh gy-grn-yell-red, subwaxy to subearthy to argil, some loose pyrite chunks, chert: fresh, yell-wh-cr. some congl clusters of sd & qrtz frags of various grn size

4290' spl: 75% Shales: gy-grn-yell-red, waxy-subwaxy argil to sub earthy, silty in pt; 25% Ls & chert: dns wh-cr-tan ls, sdy in pt.; chert: wh-cr-tan with some grainy edges

4295' circ spls: 25% Shales: gy-grn-yell-red, waxy-subwaxy argil to sub earthy, silty in pt; 75% Ls & chert: dns wh-cr-tan ls, sdy in pt.; chert: wh-cr-tan with some grainy edges, some red clay marbling in ls pores

← 4289 (-1870)

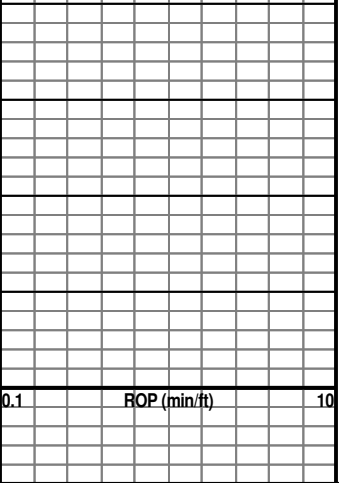
Ls wh-cr, fn-md xln, blocky text in pt, grainy text in pt, chalky in pt, abund chert: fresh, wh-cr-tan-yell-or, ool in pt, foss, subtr-op; spls 35% various colored shales as above

Dol & Dol Ls, wh-cr-gy, fn xln, subsucr-sucrosic, pr-fr xln por, cherty

Dol & Dol Ls, some Ls, wh-cr-gy, fn xln, some subrhombic md xln, subsucr-sucrosic, pr-fr xln, foss in pt, por, cherty, fresh subtr, spic. & ool in pt

Dol & Dol Ls, some Ls, wh-cr-gy, fn xln, some subrhombic md xln, subsucr-sucrosic, pr-fr xln, foss in pt, por, cherty, fresh subtr, spic. & ool in pt

* 4177 ft: Shut down, CTCH due to weather, and to rebuild mud after heavy rain!



4400

ROP (min/ft)



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Werth #3

7-14S-25W Trego,KS

Start Date: 2018.06.10 @ 21:57:40

End Date: 2018.06.11 @ 05:54:40

Job Ticket #: 63448 DST #: 1

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

Printed: 2018.06.14 @ 14:03:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
 Job Ticket: 63448 **DST#: 1**
 Test Start: 2018.06.10 @ 21:57:40

GENERAL INFORMATION:

Formation: **LKC "H - I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:37:40
 Time Test Ended: 05:54:40
 Interval: **3830.00 ft (KB) To 3885.00 ft (KB) (TVD)**
 Total Depth: 3885.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

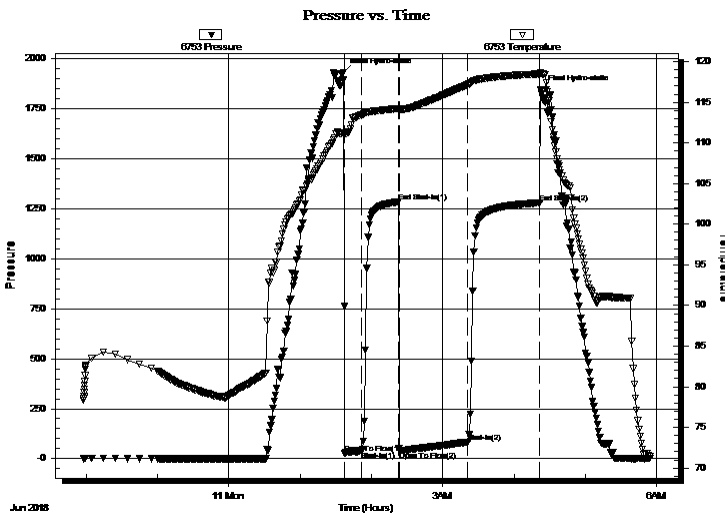
Serial #: 6753

Outside

Press@RunDepth: 83.58 psig @ 3848.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.10 End Date: 2018.06.11 Last Calib.: 2018.06.11
 Start Time: 21:57:45 End Time: 05:54:39 Time On Btm: 2018.06.11 @ 01:36:40
 Time Off Btm: 2018.06.11 @ 04:22:40

TEST COMMENT: 15- IF- BOB 15 mins
 30- IS- No blow
 60- FF- BOB 10 mins (43.5")
 60- FSI- No blow

PRESSURE SUMMARY



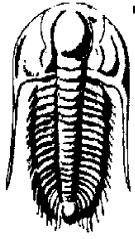
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1932.26	111.21	Initial Hydro-static
1	28.55	111.04	Open To Flow (1)
15	37.03	113.41	Shut-In(1)
46	1285.71	114.23	End Shut-In(1)
47	39.56	114.02	Open To Flow (2)
105	83.58	117.15	Shut-In(2)
165	1280.61	118.47	End Shut-In(2)
166	1847.01	118.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM, 20%O 80%M	0.59
98.00	CGO, 10%G 90%O	1.39
0.00	285' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

7-14S-25W Trego, KS

Werth #3

Job Ticket: 63448

DST#: 1

Test Start: 2018.06.10 @ 21:57:40

GENERAL INFORMATION:

Formation: **LKC "H - I"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:37:40
Time Test Ended: 05:54:40

Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan Lonsdale
Unit No: 73

Interval: 3830.00 ft (KB) To 3885.00 ft (KB) (TVD)
Total Depth: 3885.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2419.00 ft (KB)
2414.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6771

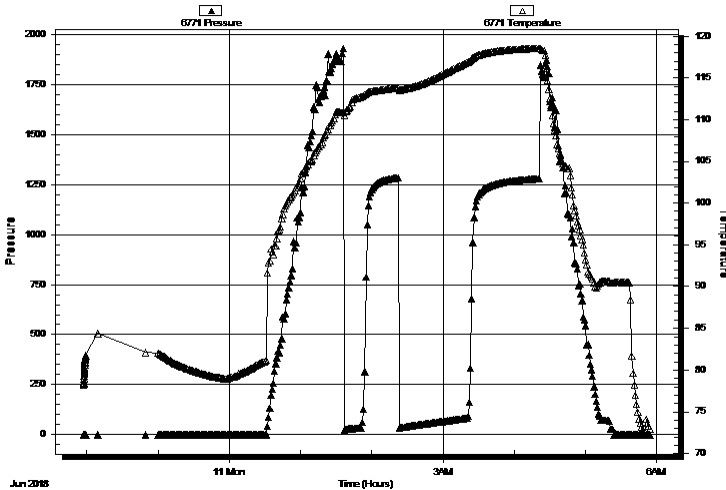
Inside

Press@RunDepth: psig @ 3848.00 ft (KB)
Start Date: 2018.06.10 End Date: 2018.06.11
Start Time: 21:57:15 End Time: 05:54:20

Capacity: 8000.00 psig
Last Calib.: 2018.06.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 15- IF- BOB 15 mins
30- IS- No blow
60- FF- BOB 10 mins (43.5")
60- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM, 20%O 80%M	0.59
98.00	CGO, 10%G 90%O	1.39
0.00	285' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

7-14S-25W Trego,KS
Werth #3
Job Ticket: 63448 **DST#: 1**
Test Start: 2018.06.10 @ 21:57:40

Tool Information

Drill Pipe:	Length: 3801.00 ft	Diameter: 3.82 inches	Volume: 53.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3830.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			3803.00	
Shut In Tool	5.00			3808.00	
Hydraulic tool	5.00			3813.00	
Jars	5.00			3818.00	
Safety Joint	3.00			3821.00	
Packer	5.00			3826.00	28.00 Bottom Of Top Packer
Packer	4.00			3830.00	
Stubb	1.00			3831.00	
Perforations	17.00			3848.00	
Recorder	0.00	6771	Inside	3848.00	
Recorder	0.00	6753	Outside	3848.00	
Change Over Sub	1.00			3849.00	
Drill Pipe	32.00			3881.00	
Change Over Sub	1.00			3882.00	
Bullnose	3.00			3885.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, KS 67530

Werth #3

Job Ticket: 63448

DST#: 1

ATTN: Brad Rine

Test Start: 2018.06.10 @ 21:57:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCM, 20%O 80%M	0.591
98.00	CGO, 10%G 90%O	1.389
0.00	285' GIP	0.000

Total Length: 158.00 ft Total Volume: 1.980 bbl

Num Fluid Samples: 0

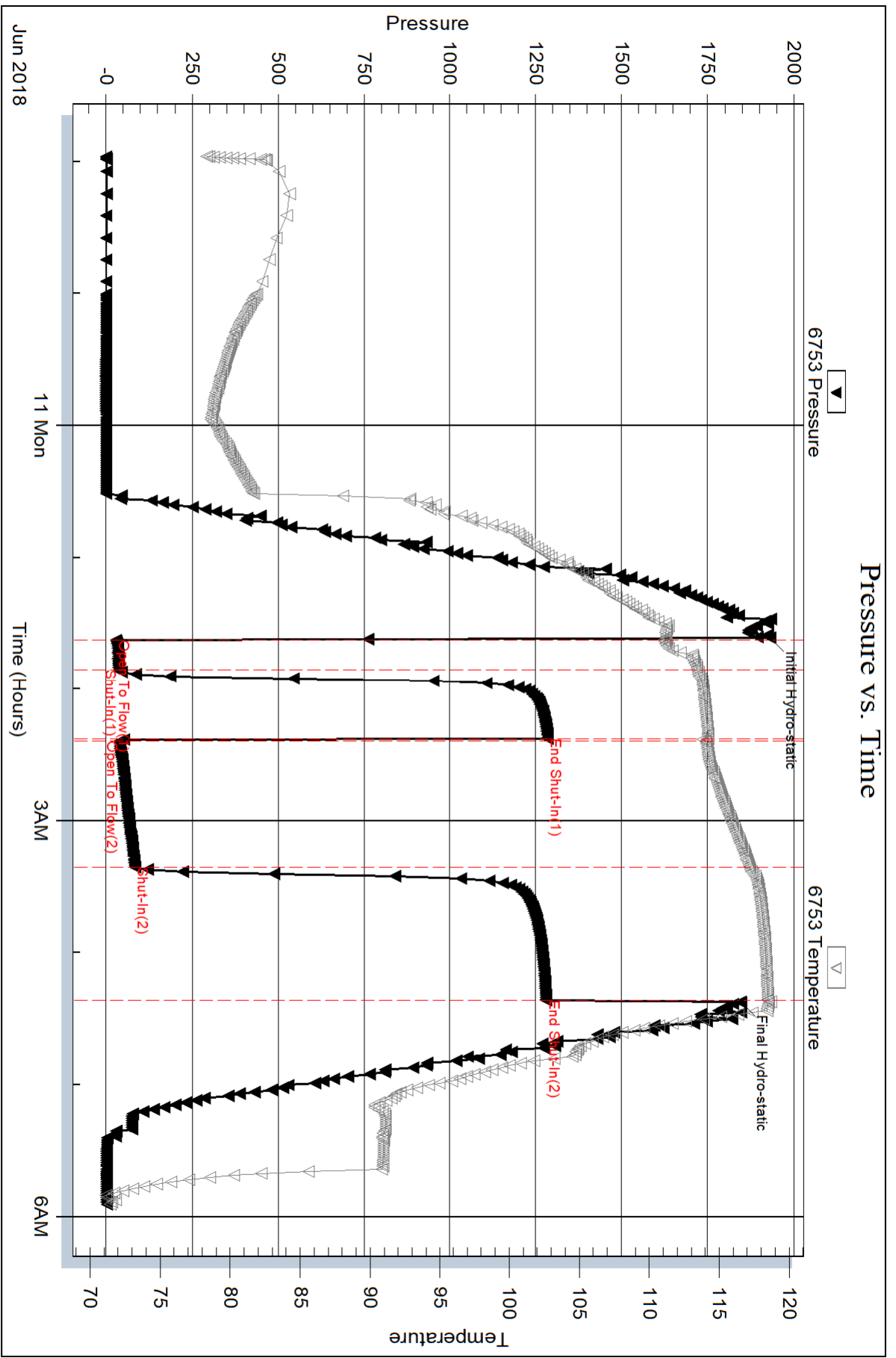
Num Gas Bombs: 0

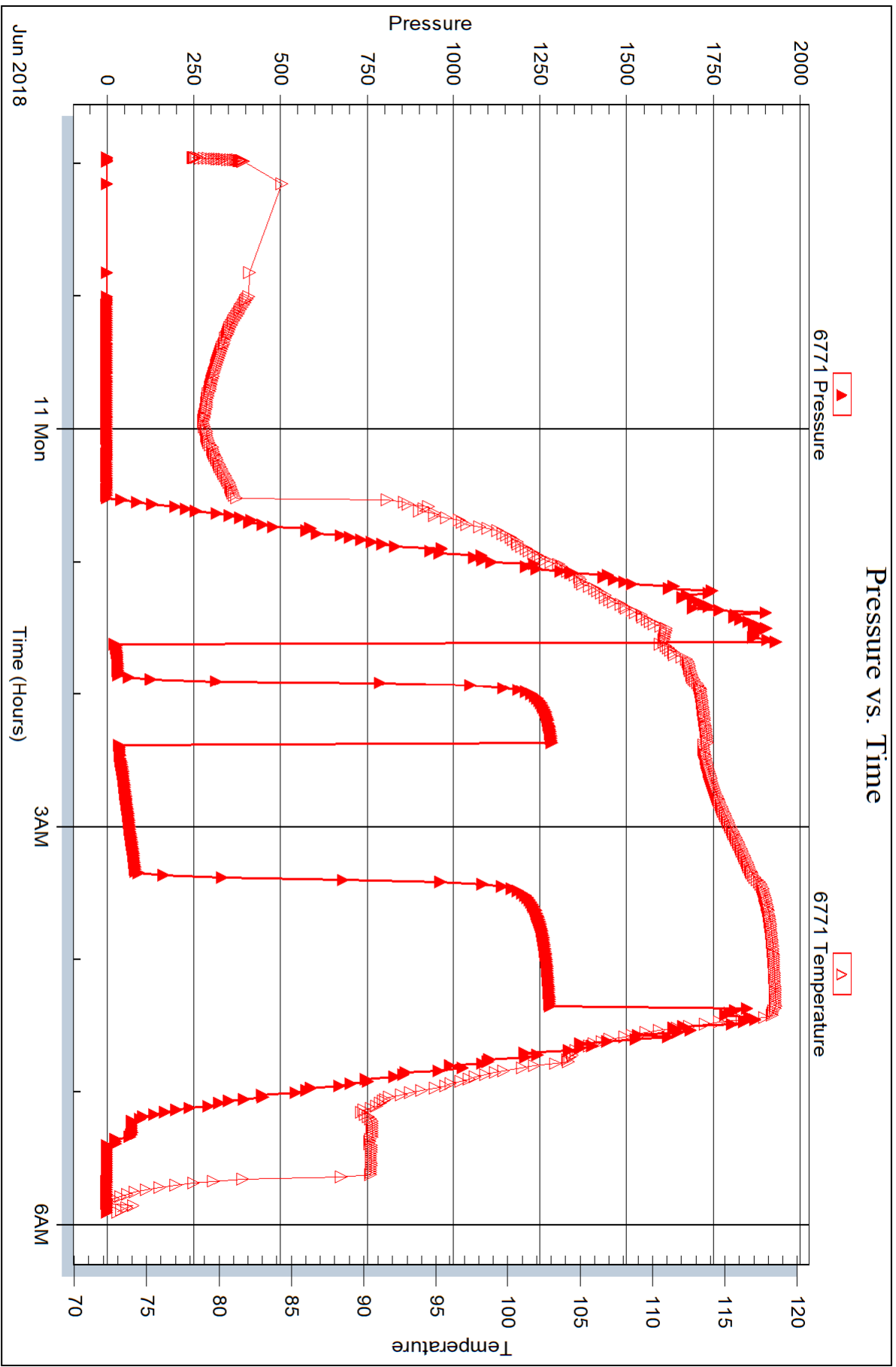
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Werth #3

7-14S-25W Trego,KS

Start Date: 2018.06.11 @ 13:31:03

End Date: 2018.06.11 @ 19:56:33

Job Ticket #: 63449 DST #: 2

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

Printed: 2018.06.14 @ 14:02:54

Carmen Schmitt, Inc.
7-14S-25W Trego,KS
Werth #3
DST # 2
LKC "J"
2018.06.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
 Job Ticket: 63449 **DST#: 2**
 Test Start: 2018.06.11 @ 13:31:03

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:27:03
 Time Test Ended: 19:56:33
 Interval: **3890.00 ft (KB) To 3920.00 ft (KB) (TVD)**
 Total Depth: 3920.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

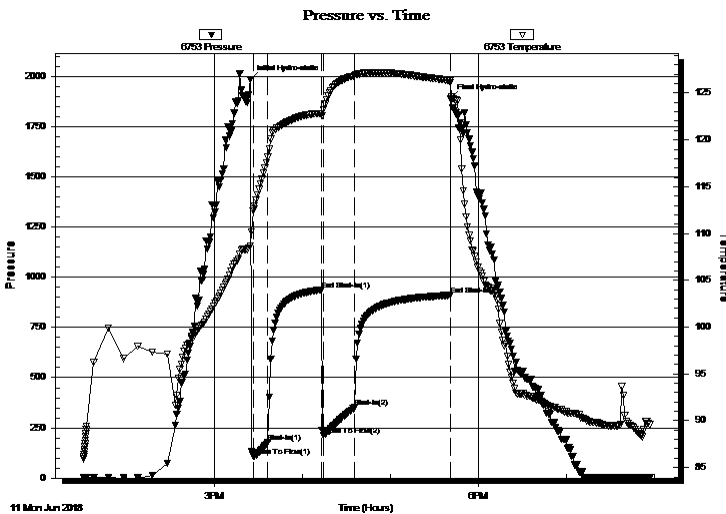
Serial #: 6753

Outside

Press@RunDepth: 351.26 psig @ 3917.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.11 End Date: 2018.06.11 Last Calib.: 2018.06.11
 Start Time: 13:31:08 End Time: 19:56:32 Time On Btm: 2018.06.11 @ 15:24:33
 Time Off Btm: 2018.06.11 @ 17:41:03

TEST COMMENT: 15- IF- BOB 30 secs (113.75")
 30- IS- BOB 7 mins (35")
 30- FF- BOB 1 min (89")
 60- FSI- BOB 14 mins (47")

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.86	108.65	Initial Hydro-static
3	109.39	112.64	Open To Flow (1)
12	177.41	118.14	Shut-In(1)
49	937.52	122.84	End Shut-In(1)
50	211.61	123.19	Open To Flow (2)
71	351.26	126.84	Shut-In(2)
136	910.04	126.35	End Shut-In(2)
137	1886.90	126.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
254.00	GMCO, 20%G 20%M 60%O	3.34
666.00	CGO, 20%G 80%O	9.44
0.00	2251' 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 Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

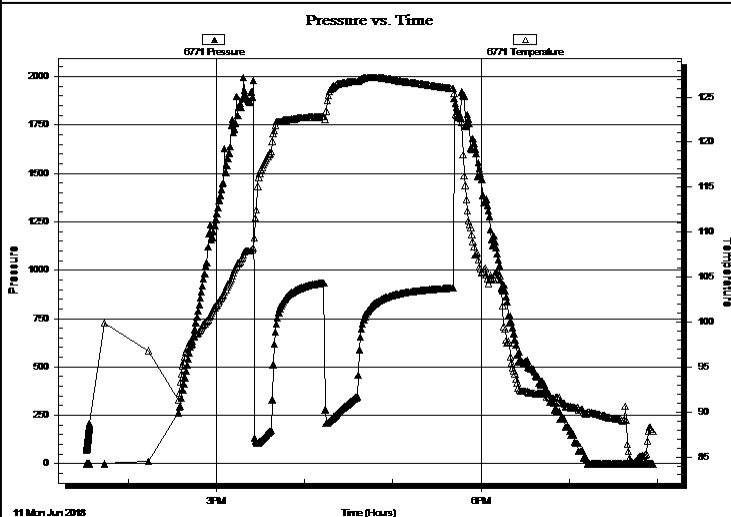
7-14S-25W Trego, KS
Werth #3
Job Ticket: 63449 **DST#: 2**
Test Start: 2018.06.11 @ 13:31:03

GENERAL INFORMATION:

Formation: **LKC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:27:03
Time Test Ended: 19:56:33
Interval: **3890.00 ft (KB) To 3920.00 ft (KB) (TVD)**
Total Depth: 3920.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2419.00 ft (KB)
2414.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6771 **Inside**
Press@RunDepth: psig @ 3917.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.06.11 End Date: 2018.06.11 Last Calib.: 2018.06.11
Start Time: 13:31:44 End Time: 19:57:04 Time On Btm:
Time Off Btm:

TEST COMMENT: 15- IF- BOB 30 secs (113.75")
30- IS- BOB 7 mins (35")
30- FF- BOB 1 min (89")
60- FS- BOB 14 mins (47")



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
254.00	GMCO, 20%G 20%M 60%O	3.34
666.00	CGO, 20%G 80%O	9.44
0.00	2251' 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 Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, KS 67530

Werth #3

Job Ticket: 63449

DST#: 2

ATTN: Brad Rine

Test Start: 2018.06.11 @ 13:31:03

Tool Information

Drill Pipe:	Length: 3865.00 ft	Diameter: 3.82 inches	Volume: 54.79 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3890.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			3863.00	
Shut In Tool	5.00			3868.00	
Hydraulic tool	5.00			3873.00	
Jars	5.00			3878.00	
Safety Joint	3.00			3881.00	
Packer	5.00			3886.00	28.00 Bottom Of Top Packer
Packer	4.00			3890.00	
Stubb	1.00			3891.00	
Perforations	26.00			3917.00	
Recorder	0.00	6771	Inside	3917.00	
Recorder	0.00	6753	Outside	3917.00	
Bullnose	3.00			3920.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
Job Ticket: 63449 **DST#: 2**
Test Start: 2018.06.11 @ 13:31:03

Mud and Cushion Information

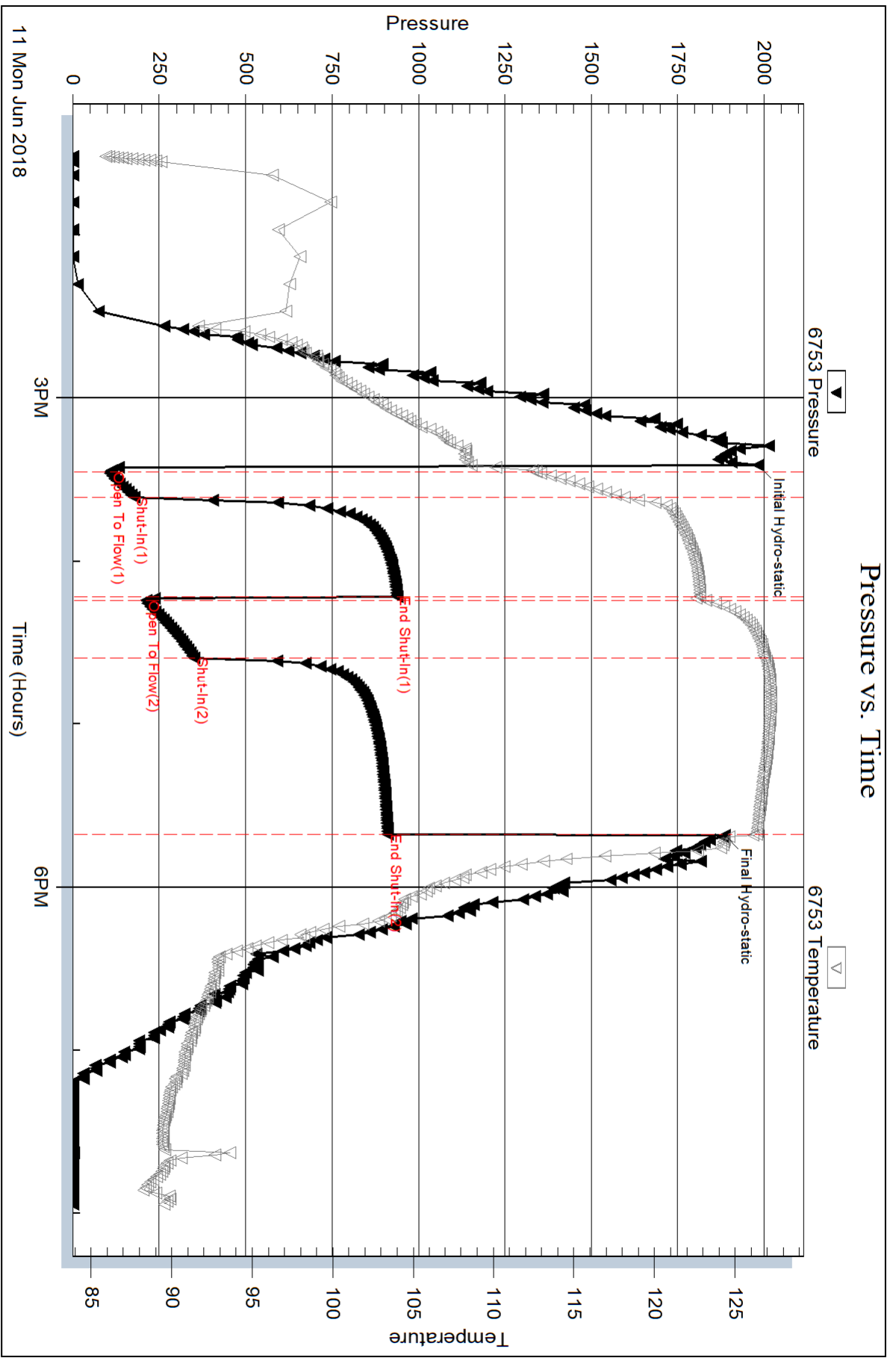
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
254.00	GMCO, 20%G 20%M 60%O	3.341
666.00	CGO, 20%G 80%O	9.441
0.00	2251' GIP	0.000

Total Length: 920.00 ft Total Volume: 12.782 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Werth #3

7-14S-25W Trego,KS

Start Date: 2018.06.12 @ 02:07:04

End Date: 2018.06.12 @ 08:21:04

Job Ticket #: 63450 DST #: 3

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

Printed: 2018.06.14 @ 14:02:29

Carmen Schmitt, Inc. 7-14S-25W Trego,KS Werth #3 DST #3 LKC "K" 2018.06.12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
 Job Ticket: 63450 **DST#: 3**
 Test Start: 2018.06.12 @ 02:07:04

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:59:04
 Time Test Ended: 08:21:04
 Interval: **3927.00 ft (KB) To 3944.00 ft (KB) (TVD)**
 Total Depth: 3944.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

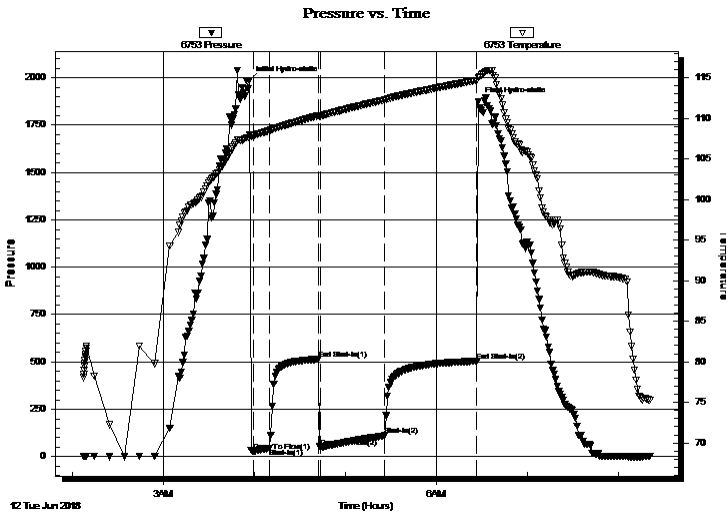
Serial #: 6753

Outside

Press@RunDepth: 110.22 psig @ 3941.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.12 End Date: 2018.06.12 Last Calib.: 2018.06.12
 Start Time: 02:07:09 End Time: 08:21:03 Time On Btm: 2018.06.12 @ 03:56:34
 Time Off Btm: 2018.06.12 @ 06:27:34

TEST COMMENT: 15- IF- BOB 2 mins (46")
 30- IS- No blow
 45- FF- BOB 2 mins (99")
 60- FSI- Slow ly built to 9" then died back to 7"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1984.90	107.95	Initial Hydro-static
3	28.87	107.91	Open To Flow (1)
13	43.73	108.47	Shut-In(1)
46	513.86	110.35	End Shut-In(1)
47	48.49	110.30	Open To Flow (2)
89	110.22	112.28	Shut-In(2)
150	503.67	114.70	End Shut-In(2)
151	1874.50	115.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM, 20%O 80%M	0.17
225.00	CGO, 35%G 65%O	3.19
0.00	1585' 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 Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

7-14S-25W Trego,KS
Werth #3
 Job Ticket: 63450 **DST#: 3**
 Test Start: 2018.06.12 @ 02:07:04

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:59:04
 Time Test Ended: 08:21:04
Interval: 3927.00 ft (KB) To 3944.00 ft (KB) (TVD)
 Total Depth: 3944.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

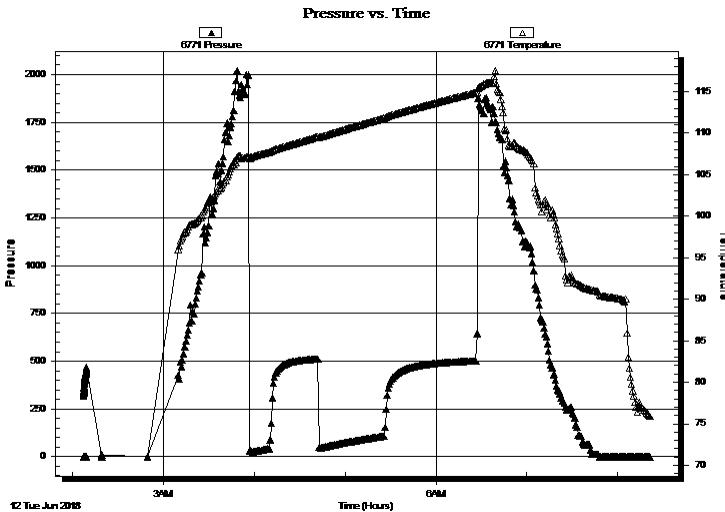
Serial #: 6771

Inside

Press@RunDepth: psig @ 3941.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.12 End Date: 2018.06.12 Last Calib.: 2018.06.12
 Start Time: 02:07:26 End Time: 08:21:31 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- BOB 2 mins (46")
 30- IS- No blow
 45- FF- BOB 2 mins (99")
 60- FSI- Slow ly built to 9" then died back to 7"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM, 20%O 80%M	0.17
225.00	CGO, 35%G 65%O	3.19
0.00	1585' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, KS 67530

Werth #3

Job Ticket: 63450

DST#: 3

ATTN: Brad Rine

Test Start: 2018.06.12 @ 02:07:04

Tool Information

Drill Pipe:	Length: 3896.00 ft	Diameter: 3.82 inches	Volume: 55.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3927.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3900.00	
Shut In Tool	5.00			3905.00	
Hydraulic tool	5.00			3910.00	
Jars	5.00			3915.00	
Safety Joint	3.00			3918.00	
Packer	5.00			3923.00	28.00 Bottom Of Top Packer
Packer	4.00			3927.00	
Stubb	1.00			3928.00	
Perforations	13.00			3941.00	
Recorder	0.00	6771	Inside	3941.00	
Recorder	0.00	6753	Outside	3941.00	
Bullnose	3.00			3944.00	17.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, KS 67530

Werth #3

Job Ticket: 63450

DST#: 3

ATTN: Brad Rine

Test Start: 2018.06.12 @ 02:07:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	OCM, 20%O 80%M	0.166
225.00	CGO, 35%G 65%O	3.189
0.00	1585' GIP	0.000

Total Length: 255.00 ft Total Volume: 3.355 bbl

Num Fluid Samples: 0

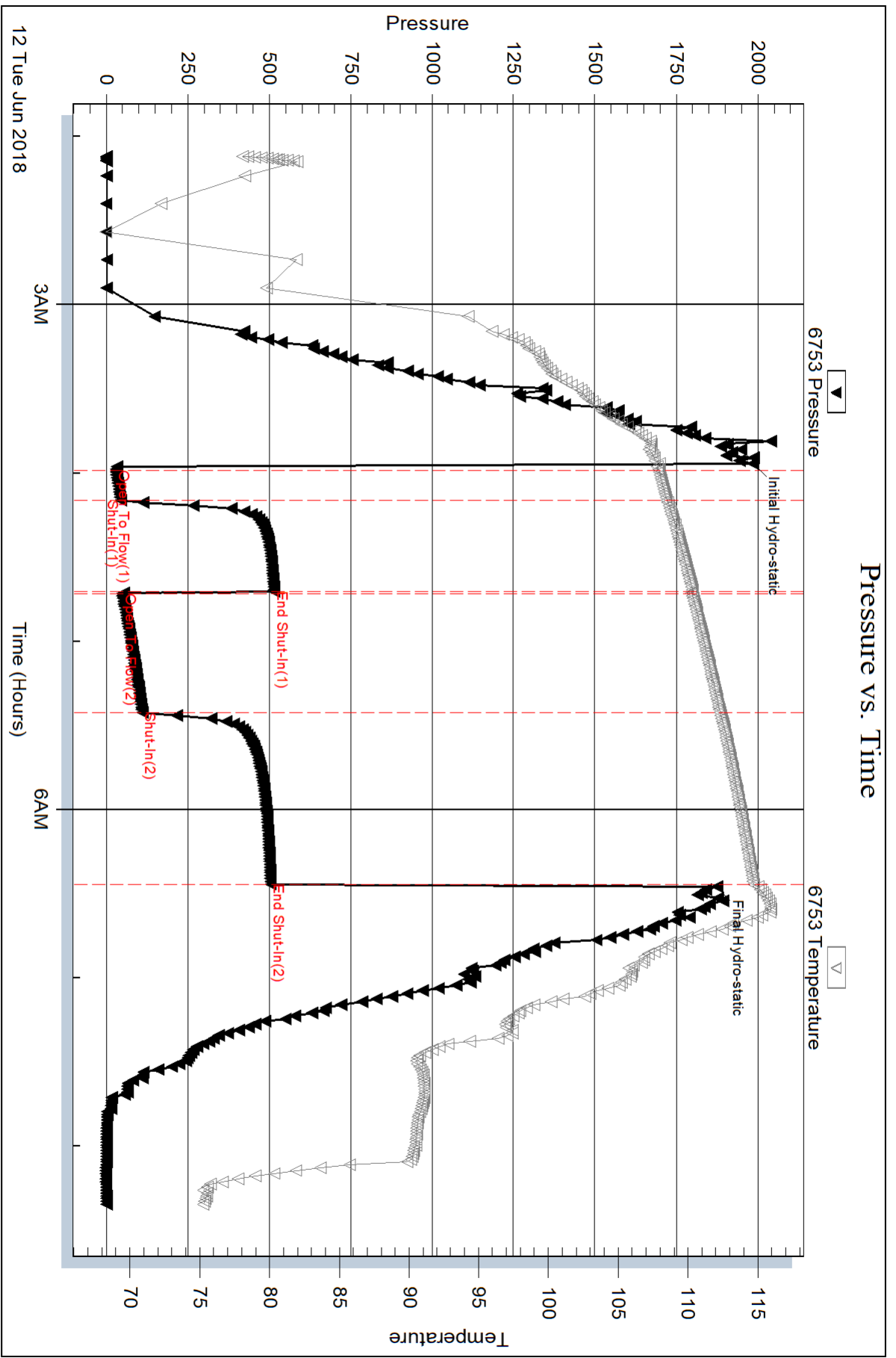
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



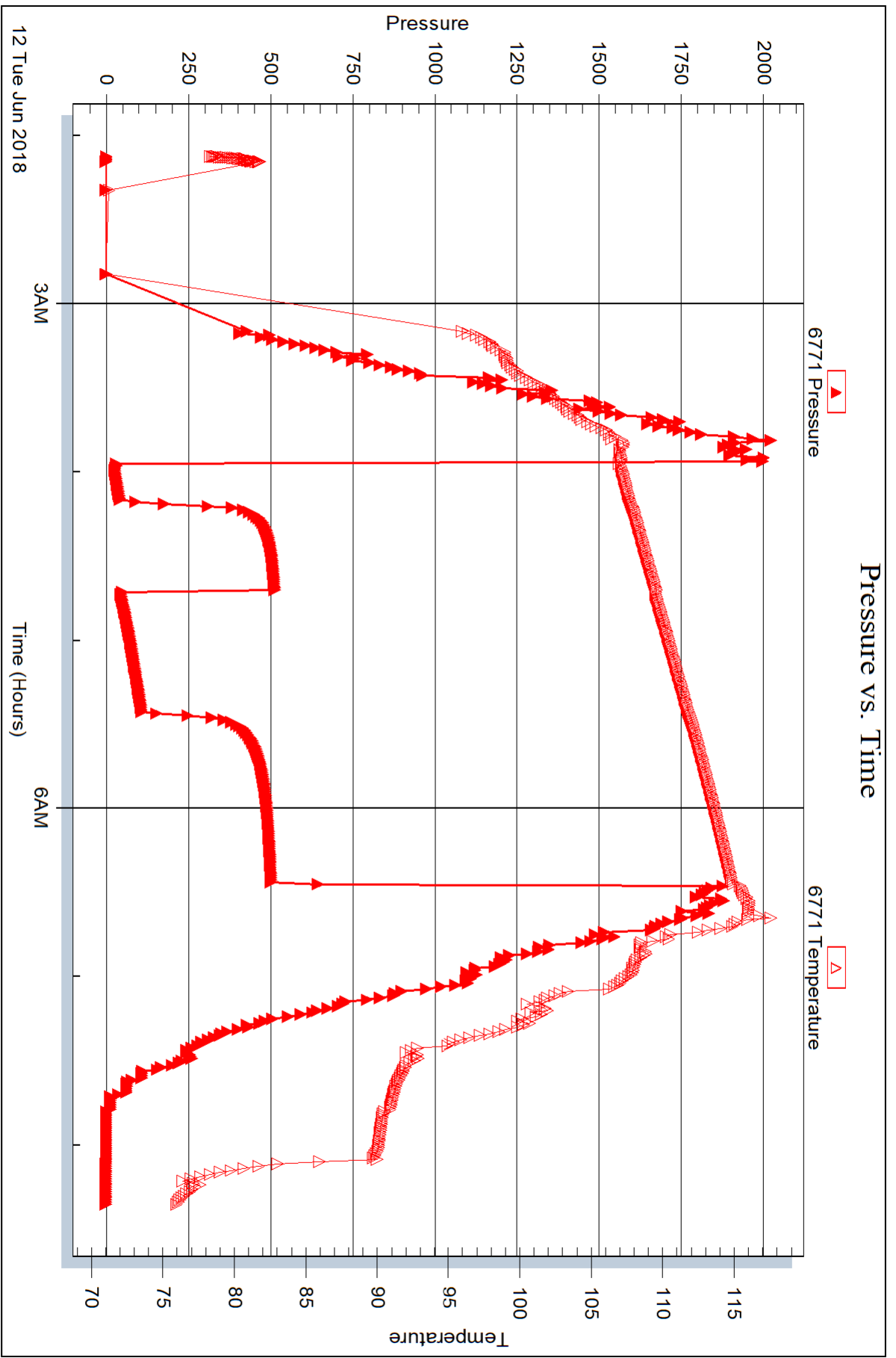
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Werth #3

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Werth #3

7-14S-25W Trego,KS

Start Date: 2018.06.12 @ 16:09:17

End Date: 2018.06.12 @ 20:28:47

Job Ticket #: 63126 DST #: 4

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

Printed: 2018.06.14 @ 14:02:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
 Job Ticket: 63126 **DST#: 4**
 Test Start: 2018.06.12 @ 16:09:17

GENERAL INFORMATION:

Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:39:17
 Time Test Ended: 20:28:47
 Interval: **3950.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Total Depth: 3980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2419.00 ft (KB)
 2414.00 ft (CF)
 KB to GR/CF: 5.00 ft

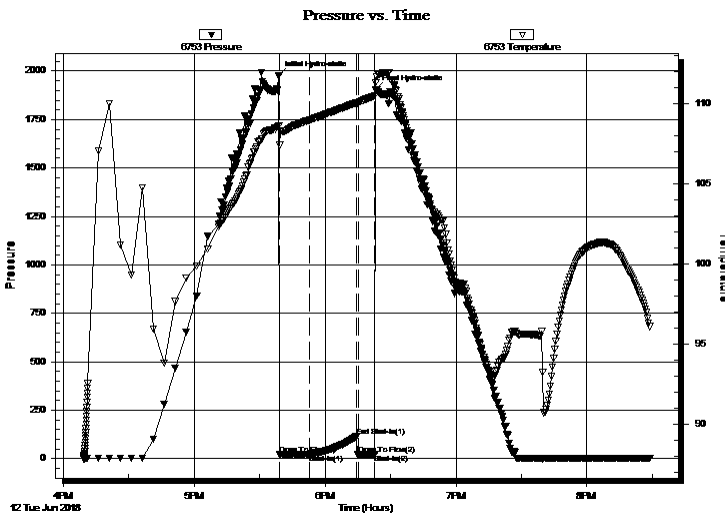
Serial #: 6753

Outside

Press@RunDepth: 21.35 psig @ 3977.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.12 End Date: 2018.06.12 Last Calib.: 2018.06.12
 Start Time: 16:09:22 End Time: 20:28:46 Time On Btm: 2018.06.12 @ 17:38:47
 Time Off Btm: 2018.06.12 @ 18:23:17

TEST COMMENT: 15- IF- Weak surface blow died in 4 mins
 30- IS- No blow
 05- FF- No blow Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.33	108.61	Initial Hydro-static
1	21.07	107.39	Open To Flow (1)
14	21.35	108.96	Shut-In(1)
36	113.56	110.04	End Shut-In(1)
37	20.39	110.06	Open To Flow (2)
44	21.16	110.47	Shut-In(2)
45	1904.32	111.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530
 ATTN: Brad Rine

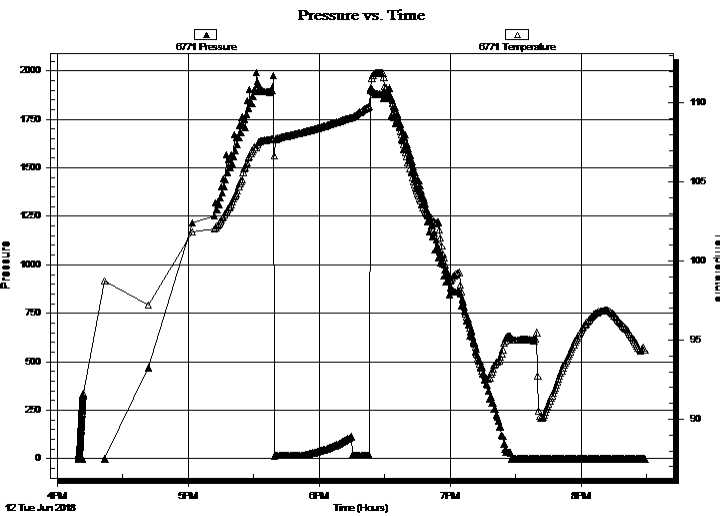
7-14S-25W Trego, KS
Werth #3
 Job Ticket: 63126 **DST#: 4**
 Test Start: 2018.06.12 @ 16:09:17

GENERAL INFORMATION:

Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:39:17 Tester: Brannan Lonsdale
 Time Test Ended: 20:28:47 Unit No: 73
 Interval: **3950.00 ft (KB) To 3980.00 ft (KB) (TVD)** Reference Elevations: 2419.00 ft (KB)
 Total Depth: 3980.00 ft (KB) (TVD) 2414.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6771 Inside
 Press@RunDepth: psig @ 3977.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.06.12 End Date: 2018.06.12 Last Calib.: 2018.06.12
 Start Time: 16:09:45 End Time: 20:29:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- Weak surface blow died in 4 mins
 30- IS- No blow
 05- FF- No blow Pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
Job Ticket: 63126 **DST#: 4**
Test Start: 2018.06.12 @ 16:09:17

Tool Information

Drill Pipe:	Length: 3896.00 ft	Diameter: 3.82 inches	Volume: 55.23 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3950.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			3923.00	
Shut In Tool	5.00			3928.00	
Hydraulic tool	5.00			3933.00	
Jars	5.00			3938.00	
Safety Joint	3.00			3941.00	
Packer	5.00			3946.00	28.00 Bottom Of Top Packer
Packer	4.00			3950.00	
Stubb	1.00			3951.00	
Perforations	26.00			3977.00	
Recorder	0.00	6771	Inside	3977.00	
Recorder	0.00	6753	Outside	3977.00	
Bullnose	3.00			3980.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

7-14S-25W Trego, KS
Werth #3
Job Ticket: 63126 **DST#: 4**
Test Start: 2018.06.12 @ 16:09:17

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: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

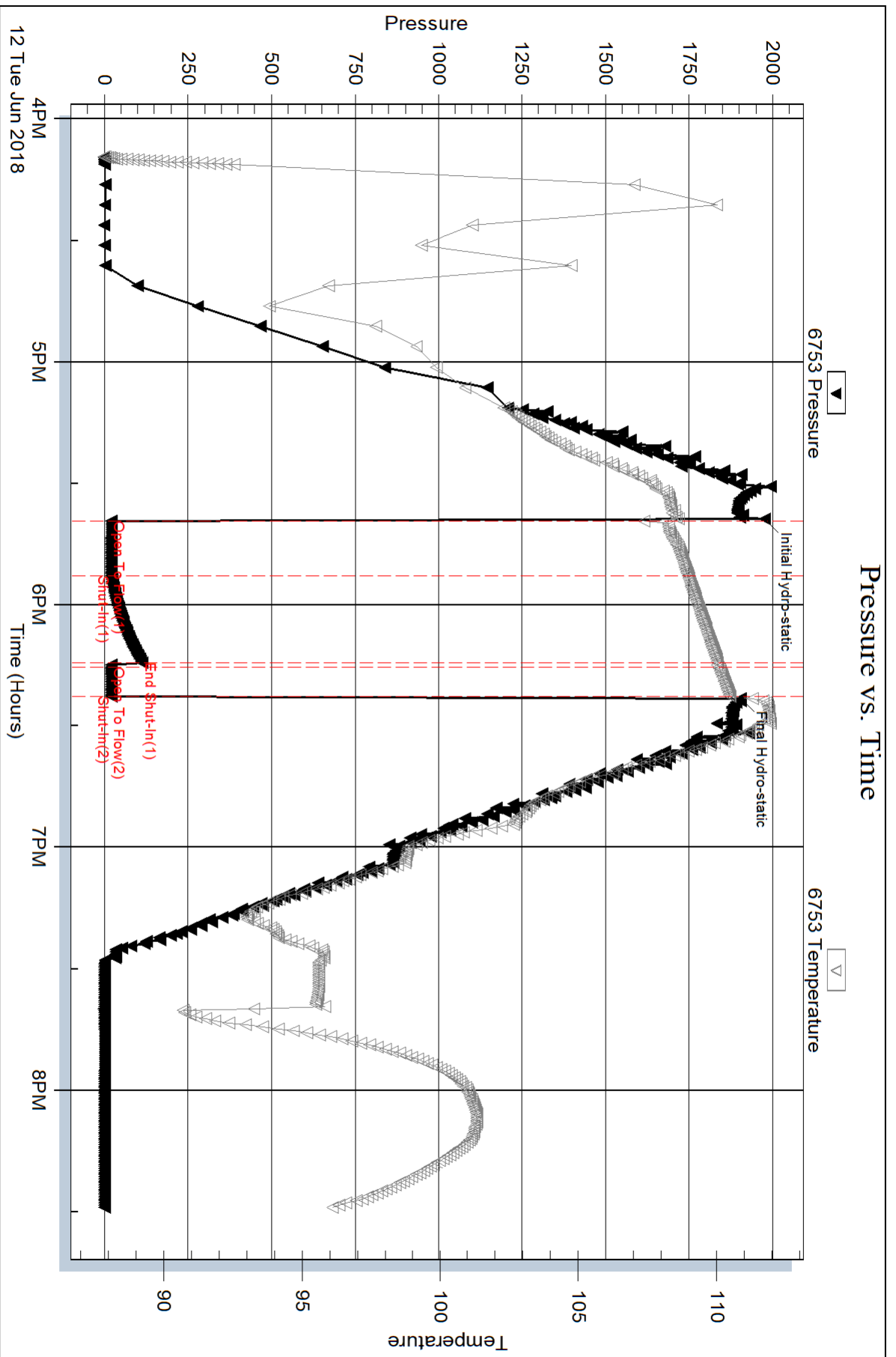
Length ft	Description	Volume bbl
5.00	OSM	0.025

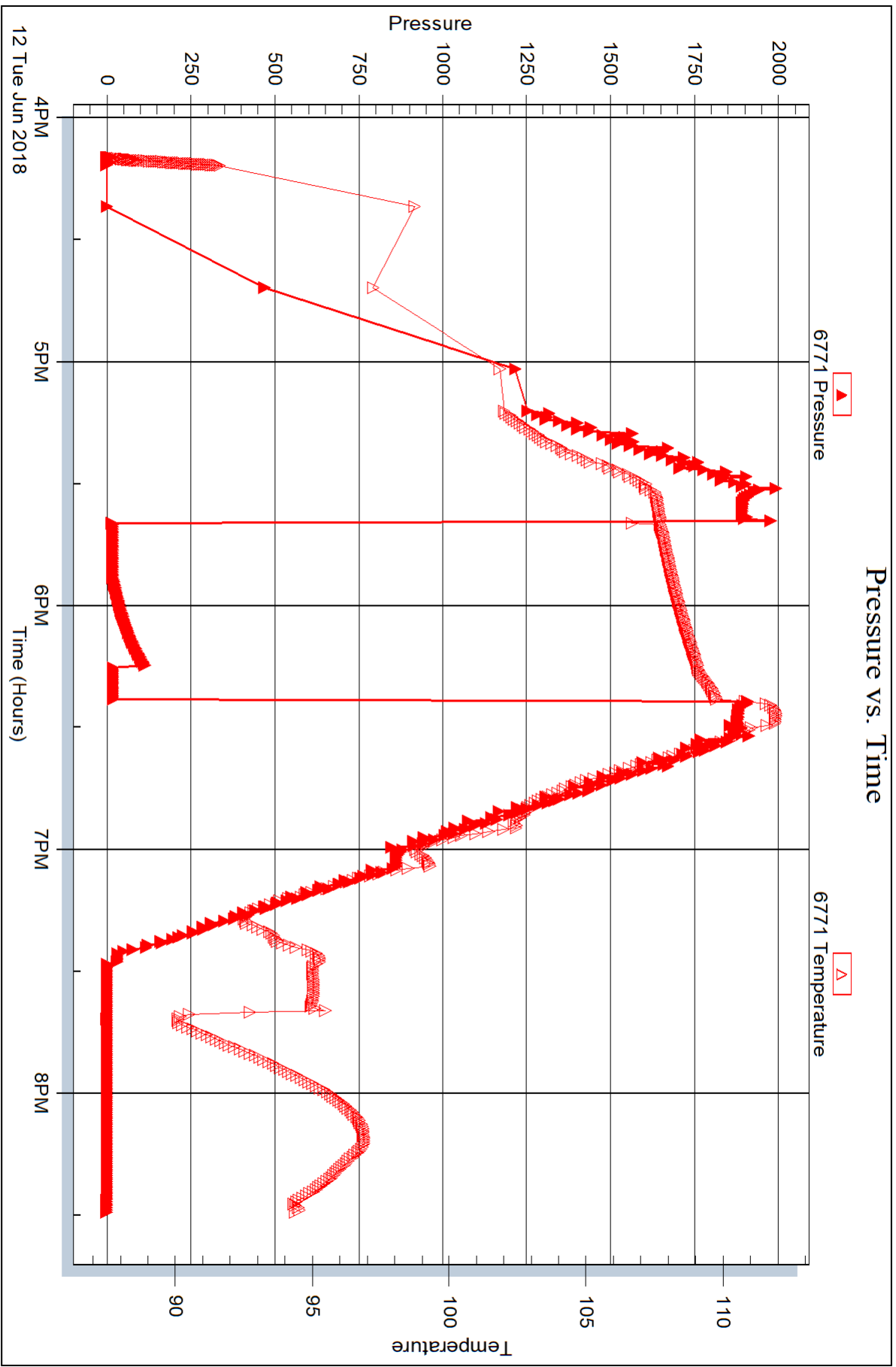
Total Length: 5.00 ft Total Volume: 0.025 bbl

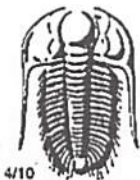
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63448

Well Name & No. Werth #3 Test No. 1 Date 6/10/18
 Company Carmen Schmitt, Inc. Elevation 2419 KB 2414GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murphy #16
 Location: Sec. 7 Twp 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3830-3885 Zone Tested LKC "H+I"
 Anchor Length 55' Drill Pipe Run 3801 Mud Wt. 8.8
 Top Packer Depth 3825 Drill Collars Run 28 Vis 60+
 Bottom Packer Depth 3830 Wt. Pipe Run WL 6.2
 Total Depth 3885 Chlorides 4400 ppm System LCM 2#

Blow Description IF-BOB 15 mins
IF- No blow
PF-BOB 10 mins (43.5")
BF- No blow

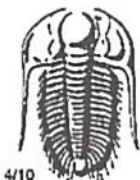
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCM</u>	<u>20</u>	<u> </u>	<u>80</u>	<u> </u>
<u>98</u>	<u>CGO</u>	<u>10</u>	<u>90</u>	<u> </u>	<u> </u>
<u> </u>	<u>285' GIP</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 158' BHT 119° Gravity 34 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1932 Test 1050 T-On Location 2140
 (B) First Initial Flow 29 Jars 250 T-Started 2157
 (C) First Final Flow 37 Safety Joint 75 T-Open 0137
 (D) Initial Shut-In 1286 Circ Sub T-Pulled 0422
 (E) Second Initial Flow 40 Hourly Standby T-Out 0555
 (F) Second Final Flow 84 Mileage 124 RT 124 Comments
 (G) Final Shut-In 1281 Sampler
 (H) Final Hydrostatic 1847 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 1499
 Total 1499
 MP/DST Disc't

Approved By Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63449

Well Name & No. Worth #3 Test No. 2 Date 6/11/18
 Company Carmen Schmitt, Inc. Elevation 2419 KB 2414 GL
 Address PO Box 47 Creed Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin #16
 Location: Sec. 7 Twp 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3890-3920 Zone Tested LKC "J"
 Anchor Length 30 Drill Pipe Run 3865 Mud Wt. 9.1
 Top Packer Depth 3885 Drill Collars Run 28 Vis 60+
 Bottom Packer Depth 3890 Wt. Pipe Run — WL 6.0
 Total Depth 3920 Chlorides 4,500 ppm System LCM 2#

Blow Description IF- BOB 30 secs (113 3/4")
ISF- BOB 7 mins (113 3/4") (35")
FF- BOB 1 min (89")
FST- BOB 14 mins (47")

Rec	Feet of	%gas	%oil	%water	%mud
<u>254</u>	<u>GMCO</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>—</u>
<u>666</u>	<u>CGO</u>	<u>20</u>	<u>80</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>2251' UIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 920 BHT 126° Gravity 38 API RW — @ — F Chlorides — ppm
 (A) Initial Hydrostatic 1982 Test 1050 T-On Location 1310
 (B) First Initial Flow 109 Jars 250 T-Started 1331
 (C) First Final Flow 177 Safety Joint 75 T-Open 1525
 (D) Initial Shut-In 938 Circ Sub — T-Pulled 1740
 (E) Second Initial Flow 212 Hourly Standby — T-Out 1957
 (F) Second Final Flow 351 Mileage 124 RT 124 Comments —
 (G) Final Shut-In 910 Sampler —
 (H) Final Hydrostatic 1887 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder —

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60
 Sub Total 1499
 Total 1499
 MP/DST Disc't —

Approved By _____ Our Representative Brannan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63450

Well Name & No. Worth #3 Test No. 3 Date 6/12/18
 Company Carmen Schmitt, Inc. Elevation 2419 KB 2414 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Broad River Rig Marlin #16
 Location: Sec. 7 Twp 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3927-3944 Zone Tested LKC "K"
 Anchor Length 17' Drill Pipe Run 3896 Mud Wt. 9.1
 Top Packer Depth 3922 Drill Collars Run 28 Vis 60+
 Bottom Packer Depth 3927 Wt. Pipe Run --- WL 6.0
 Total Depth 3944 Chlorides 4,500 ppm System LCM 2^H

Blow Description IF- BOB 2mins (46")
ISF- No blow
PF- BOB 2mins (99")
ESF- slowly built to 9" then died back to 7"

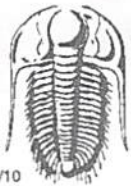
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
<u>225</u>	<u>CGO</u>	<u>35</u>	<u>65</u>		
	<u>1585' GIP</u>				

Rec Total 255 BHT 115° Gravity 34 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic <u>1985</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0140</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0207</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0356</u>
(D) Initial Shut-In <u>514</u>	<input type="checkbox"/> Circ Sub <u>---</u>	T-Pulled <u>0626</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby <u>---</u>	T-Out <u>0821</u>
(F) Second Final Flow <u>110</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT</u> 124	Comments <u>---</u>
(G) Final Shut-In <u>504</u>	<input type="checkbox"/> Sampler <u>---</u>	
(H) Final Hydrostatic <u>1875</u>	<input type="checkbox"/> Straddle <u>---</u>	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>---</u>
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer <u>---</u>	<input type="checkbox"/> Ruined Packer <u>---</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>---</u>	<input type="checkbox"/> Extra Copies <u>---</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby <u>---</u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility <u>---</u>	Total <u>1749</u>
	Sub Total <u>1749</u>	MP/DST Disc't <u>---</u>

Approved By _____ Our Representative Brannon Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63126

Well Name & No. Worth #3 Test No. 4 Date 6/12/18
 Company Carmen Schmitt, Inc. Elevation 2419 KB 2414 GL
 Address PO Box 47 Cresent Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin #16
 Location: Sec. 7 Twp. 14 S Rge. 25 W Co. Wago State KS

Interval Tested 3950-3980 Zone Tested LKC "L"
 Anchor Length 30' Drill Pipe Run 3896 Mud Wt. 9.1
 Top Packer Depth 3945 Drill Collars Run 28 Vis 60+
 Bottom Packer Depth 3950 Wt. Pipe Run _____ WL 6.0
 Total Depth 3980 Chlorides 4,500 ppm System LCM 2#
 Blow Description IF- Weak surface blow dead 4 mins
ISI- No blow
FF- No blow pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>DSM</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 5' BHT 111° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1926</u>	<input checked="" type="checkbox"/> Test	<u>1050</u>	T-On Location	<u>1535</u>
(B) First Initial Flow	<u>21</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1609</u>
(C) First Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1739</u>
(D) Initial Shut-In	<u>114</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1829</u>
(E) Second Initial Flow	<u>20</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2029</u>
(F) Second Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Mileage	<u>124 RT</u> 124	Comments <u>Tools loaded</u>	
(G) Final Shut-In		<input type="checkbox"/> Sampler	124	<u>6/13 @ 2245</u>	
(H) Final Hydrostatic	<u>1904</u>	<input type="checkbox"/> Straddle		<u>4 nights motel stay</u>	
		<input checked="" type="checkbox"/> Shale Packer	<u>250</u>	<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>15</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>05</u>	<input type="checkbox"/> Day Standby		Total	<u>1873</u>
Final Shut-In		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1873</u>		

Approved By _____

Our Representative
Brennan Lonsdale