

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 7-7
Doc ID	1425292

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Mirco
Mud Log

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	WP UNIT 7-7
Doc ID	1425292

Tops

Name	Top	Datum
Anhydrite	1905	-551
Heebner Sh	3687	-1231
Toronto	3706	-1250
Lansing	3727	-1271
Stark Shale	3956	-1500
B/ KC	4010	-1554
Marmaton	4052	-1596
Altamont	4077	-1621
Pawnee	4157	-1701
Ft. Scott	4220	-1764
Cherokee Sh	4243	-1787
Miss	4320	-1864

COPELAND

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

Invoice

Acid & Cement

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

INVOICE NUMBER:
C45631-IN

BILL TO:

CARMEN SCHMITT, INC.
 PO BOX 47
 GREAT BEND, KS 67530

LEASE: WP UNIT 7-7

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
08/22/2018	C45631		08/22/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
		PRICE AS AGREED UPON				
40.00	MI	MILEAGE CEMENT PUMP TRUCK		26.75	4.00	117.20
1.00	EA	PUMP CHARGE-SURFACE		26.75	1,100.00	805.75
180.00	SK	60/40 POZ MIX 2% GEL		26.75	10.75	1,417.39
10.00	SK	CALCIUM CHLORIDE		26.75	30.00	219.75
190.00	EA	BULK CHARGE		26.85	1.25	173.73
326.80	MI	BULK TRUCK - TON MILES		26.23	1.10	265.18
		<i>7/10/43</i> <i>19004.0707</i> <i>Well R/R</i> <i>Surface Cement</i>				
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		Net Invoice: 2,999.00 TRECO Sales Tax: 130.97 Invoice Total: 3,129.97		
RECEIVED BY _____		NET 30 DAYS				

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



New Well

FIELD ORDER N° C 45631

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

DATE 8/2/18 2018

IS AUTHORIZED BY: C. Schmitt (NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease WP Unit Well No. 7-7 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	40	milcase pump truck	4. ⁰⁰	160.00
2	1	Pump Chase - Surfaces		1,100.00
2	180	60/40 per. 2% sel.	10. ⁷⁵	1,935.00
2	30	Calcium Chloride	30. ⁰⁰	300.00
2	100	Bulk Charge	1. ²⁵	237.50
2		Bulk Truck Miles $8.17 T \times 40 = 326.8 T \times 1.10$	1. ¹⁰	359.48
		Process License Fee on _____ Gallons		4,091.98
TOTAL BILLING			Price as Agreed	7,999.00

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 Netha W.

Station G.D.

Martin A. Williams
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



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



Invoice

DATE	INVOICE #
8/25/2018	31763

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	#7-7	WP Unit	Trego	Murfin Drilling Co	Oil	Development	Cement 5 1/2 Lo...	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
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	325.00	325.00T
402-5	5 1/2" Centralizer	11	Each	70.00	770.00T
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
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
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
285	CFR-1	50	Lb(s)	4.50	225.00T
276	Flocele	150	Lb(s)	2.50	375.00T
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)	4	Gallon(s)	25.00	100.00T
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	Ton Miles	0.85	1,283.50
	Subtotal				18,113.00
	Sales Tax Trego County			8.00%	1,098.36

710/43
19004.0707
Well file
Long String Cement

We Appreciate Your Business!	Total	\$19,211.36
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CHARGE TO: Carmen Schmitt inc.

ADDRESS

CITY, STATE, ZIP CODE

SERVICE LOCATIONS 1. <u>Ness City, Kansas</u>	WELL/PROJECT NO. <u>#7-7</u>	LEASE <u>WP Unit</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 Co.</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 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 Trk #112			50
579		1			Pump Charge - Top to Bottom			1
407		1			E Insert float shoe w/ Auto fill	5 1/2 in		1
402		1			Centralizer	5 1/2 in		11
403		1			Cement Basket	5 1/2 in		3
406		1			Latch Down Plug + Baffle	5 1/2 in		1
419		1			Rotating Head Rental	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

DATE SIGNED 8-25-18 TIME SIGNED 1200 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 Daniel Kuehn APPROVAL

JOB LOG

SWIFT Services, Inc.

DATE 8-25-18 PAGE NO. 1

CUSTOMER Carmen Schmitt Inc. WELL NO. #7-7 LEASE WP Unit JOB TYPE Longstring TICKET NO. #31763

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0615							on location 5 1/2 14"
								RTD - 4365' LTD - N/A TP - 4167' SS #1 32.95 out - 100*101*102*103*104*105*106*107 Cent - 3*5*7*9*11*12*14*16*18*53*54 Basket - 2*32*52
	0645							Start 5 1/2" 14" casing in well
	0830							Drop Ball Circulate *Rotate*
	1000	6 1/2	12		✓	300		Pump 500 gal Mud Flush
		6 1/2	20		✓	300		Pump 20 bbl KCL Flush
			16-11					Plug RH - MH (30-20)
	1015	6 1/2	221		✓	300		mix 400 sks SMD 1/4" flo
		6 1/2	36		✓	100		mix 150 sks EA-2
								wash out Pump + Lines Release Latch Down Plug
	1105	6 1/2	0		✓	100		Start Displacement KCL in 1st tank
		6 1/2	60		✓	300		Lift Pressure
		6 1/2	75		✓	400		circulate Cement to surface *50 sks*
		6 1/2	100		✓	1000		max lift Pressure
	1130	6 1/2	101		✓	2000		Land Latch Down Plug
								Release Pressure *Plug Hold*
								Wash up truck
	1200							Job Complete

Thank You
Dave Preston Gideon Kirby



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

Well Name: WP Unit #7-7 - Carmen Schmitt, Inc.
API: 15-195-23066-00-00
Location: NE-SW-SW-SW, Section 07-14S-25W
License Number: KCC #6569
Spud Date: August 17, 2018
Surface Coordinates: 600' FSL & 600' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2451 Ft. K.B. Elevation (ft): 2456 Ft.
Logged Interval (ft): 3400 Ft. To: 4365 Ft. Total Depth (ft): RTD 4365 Ft. LTD 4360 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Trego County, Kansas
Drilling Completed: August 25, 2018
Results: Prod. Casing Set
Field: Unnamed

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

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing for further testing, on the "WP Unit #7-7", August 25, 2018.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Drilling Rig #16
Pump: Emsco D375 6x14
Drawworks: Cardwell Royale
Collars: 489' 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 (Paul Simpson)
Logs: Pioneer (J. Henrickson)
Water: Harvey Lease Irrigation Well (Walker Tank)
Company Representatives:
Office: Carmen Schmitt
Field: Matt Suchy

Daily Drilling Status

Date:	Operations/Depth/Comments:
08-17-18	MIRT,Rig Up, Spud @ 0'
08-18-18	Drilling @ 760'
08-19-18	Drilling @ 2470'
08-20-18	Trip for Hole in Pipe @3148'
08-21-18	Drilling @ 3705'
08-22-18	Trip in Hole/Bit @ 3910'
08-23-18	Trip Out in Hole for DST #3 @ 4030'
08-24-18	Circulating for Samples @ 4255'
08-25-18	Running in Production Casing @ 4365'

	Results: Oil			(Well A) Oil		(Well B) Oil			
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Carmen Schmitt, Inc.			
	WP Unit #7-7			WP Unit #6-7		WP Unit #4-7			
	600'FSL & 600'FWL			1550'FSL & 550'FWL		775'FSL & 1575'FWL			
	Sec. 7-14S-25W			Sec. 7-14S-25W		Sec. 7-14S-25W			
	2456	KB		2458	KB	2435	KB	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1909	1905	551	1910	548	1888	547	3	4
B/Anhydrite	1948	1943	513	1947	511	1926	509	2	4
Tarkio	3302	3297	-841	3303	-845	3280	-845	4	4
Heebner Sh.	3692	3687	-1231	3693	-1235	3668	-1233	4	2
Toronto	3712	3706	-1250	3712	-1254	3688	-1253	4	3
Lansing	3733	3727	-1271	3732	-1274	3708	-1273	3	2
Muncie Creek Sh.	3879	3874	-1418	3877	-1419	3852	-1417	1	-1
Stark Sh.	3960	3956	-1500	3959	-1501	3934	-1499	1	-1
B/Kansas City	4015	4010	-1554	4014	-1556	3988	-1553	2	-1
Marmaton	4057	4052	-1596	4057	-1599	4034	-1599	3	3
Altamont	4082	4077	-1621	4081	-1623	4056	-1621	2	0
Pawnee	4163	4157	-1701	4162	-1704	4136	-1701	3	0
Ft. Scott	4225	4220	-1764	4224	-1766	4198	-1763	2	-1
Cherokee Sh.	4249	4243	-1787	4249	-1791	4221	-1786	4	-1
Mississippian	4326	4320	-1864	4317	-1859	4279	-1844	-5	-20
Total Depth	4365	4360	-1904	4361	-1903	4360	-1925	-1	21

Carmen Schmitt, Inc.
"WP Unit #7-7"
Section 07-T14W-R255W, Trego County, Kansas



Casing Record, Bit Record, Deviation Surveys, Pipe Straps

CASING:

Conductor: None

Surface: Ran 5 jts, 8-5/8" 23#, set @ 211'. (Copeland) Cement with 180 sx Common, 3%CC 2% gel. Cement did circulate. Plug down at 5:45 PM, August 17, 2018.

Production: Ran 4167 ft of 5-1/2" 14# new casing, set @ 4164'. (Swift) Cement with 500 gal mud flush followed by 20 bbl KCL flush. Plugged RH with 30sx, plugged MH with 20sx. Cement with 400sx SMD followed with 150sx EA2. Circulated 50sx to pit. Job complete 11:30 AM, August 25, 2018.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Reed	TC11CP	0	218	2.75
2	7-7/8	HTC	GX20C	218	4030	80.25
3	7-7/8	HTC RR	GX20C	4030	4365	17.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.12*	218'	1.00*	3910'
0.50*	2499'	1.00*	4365'

PIPE STRAPS:

Difference:	depth:
.81' short	3910'

DST #1: 3869-3910 (LKC H)

Times: 15-30-60-75

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

Final Open: Wk Blow, built to 4-1/2" i.b.

Rec: 60' Total Fluid & 60' gas in pipe

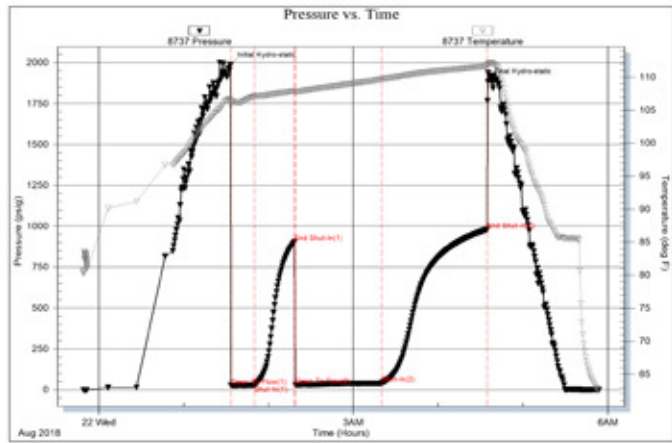
60' MCO: 60% o 40%m

IHP: 1985 FHP: 1883

IFP: 27-30 FFP: 30-40

ISIP: 903 FSIP: 978

BHT: 110°F



DST #2: 3977-3988 (LKC K)

Times: 15-30-75-75

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

Final Open: Wk Blow, built to 3-1/2" i.b.

Rec: 50' Total Fluid, 130' gas in pipe

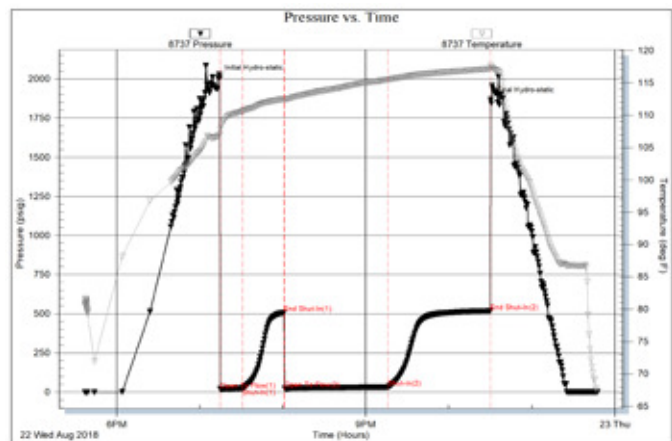
50' MCO: 60%o 05%w 35%m

IHP: 2006 FHP: 1866

IFP: 19-24 FFP: 24-32

ISIP: 507 FSIP: 517

BHT: 112°F



DST #3: 3995-4030 (LKC L)

Times: 15-30-75-75

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

Final Open: Stg, Built to b.o.b. 27 min,

Max Blow 25"

Rec: 70' Total Fluid, 300' gas in pipe

30' MCO: 60%o 40%m

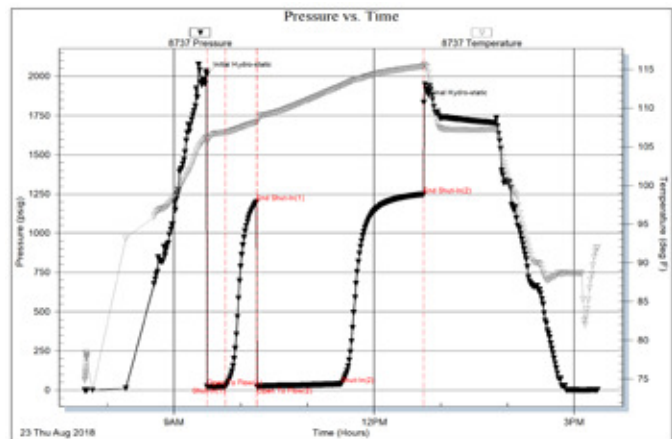
40' Oil: 100%o

IHP: 2010 FHP: 1832

IFP: 23-23 FFP: 22-39

ISIP: 1201 FSIP: 1248

BHT: 115°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		Mrlst		Ss		

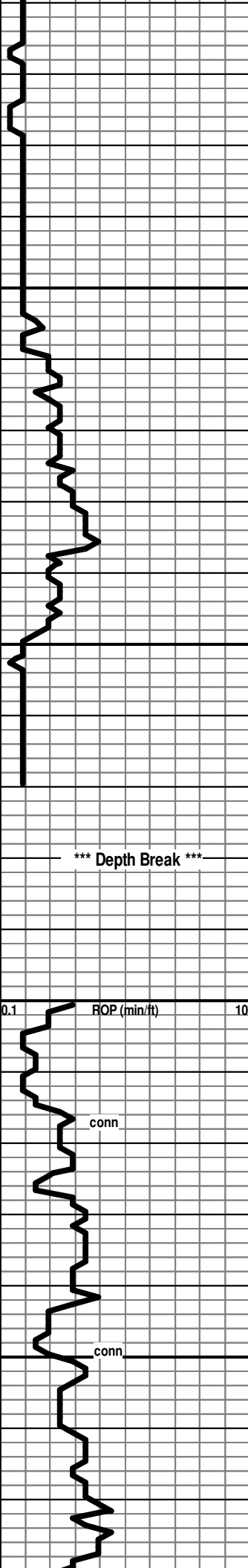
Accessories

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
	Oil & gas show		Spotted		Gas
	Gas show		Trace or questionable		Core
					Dst

ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">ROP (min/ft)</div> <div style="width: 50px; height: 10px; background-color: black; border: 1px solid black;"></div> </div>				
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">0.1</div> <div style="margin-right: 10px;">ROP (min/ft)</div> <div style="margin-right: 10px;">10</div> </div>	1800			
	50			

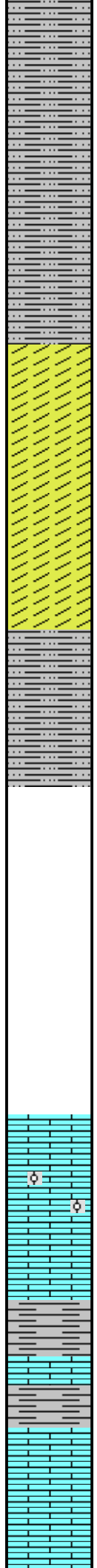


1900

50

3400

3450



← 1909 (+547)

Anyhdrite Interval, based on drill time only!

← 1948 (+508)

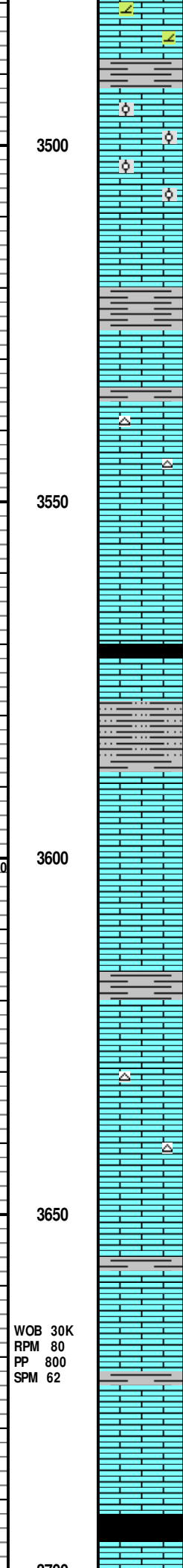
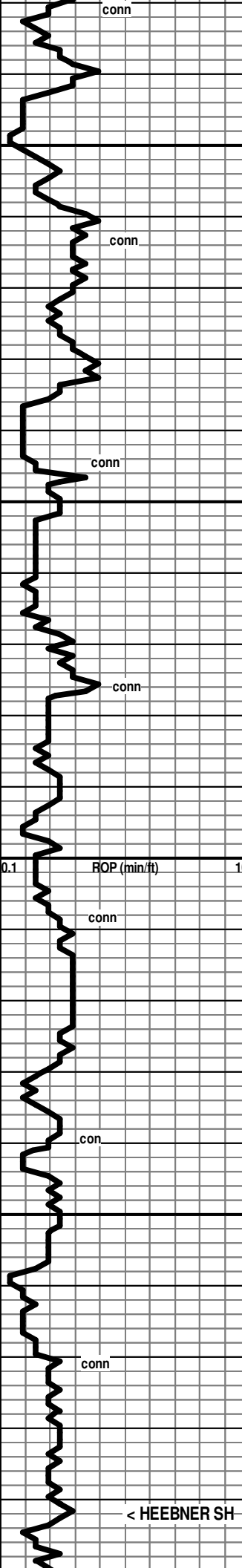
Ls cr-gy, fn xln, pr xln por, foss in pt, ool in pt

Sh pl gy-gy-dk gy, mushy to firm

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

* Displace and Mud
up @ 2910'!

* Trip for Hole in Pipe @
3148'!



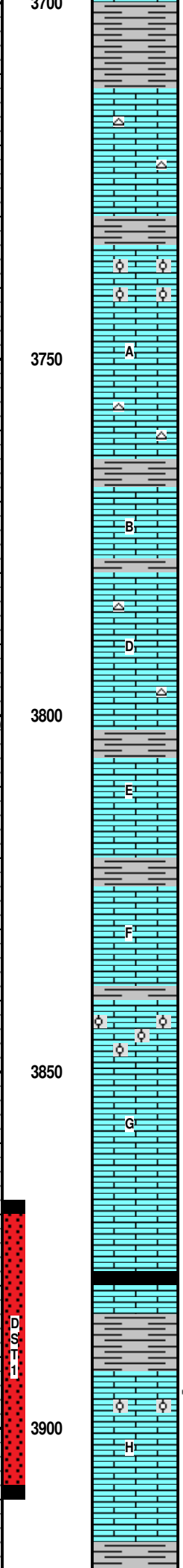
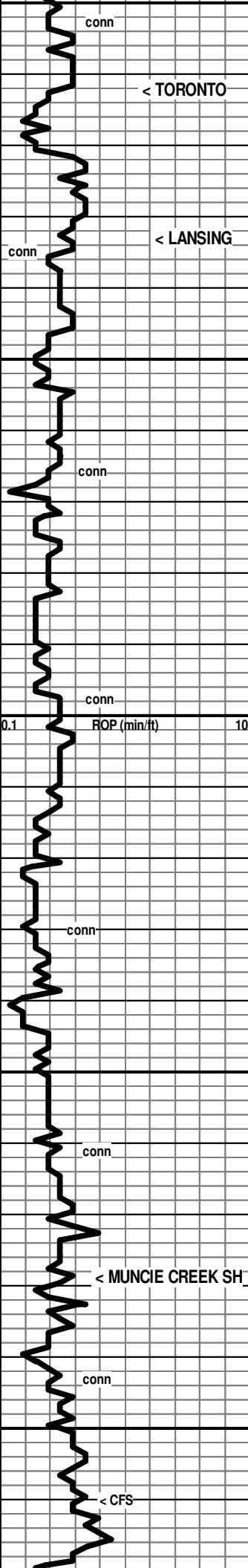
Ls wh-cr, fn xln, pr xln por, foss, chalky in pt, dol in pt
 Sh gy-grnish
 Ls cr-tan, fn xln, pr xln por, ool in pt with scatt interool pores
 Sh gy-dk gy
 Ls cr, fn xln, pr-fr xln por, foss, chert: fresh, cr, foss
 Ls cr, fn xln, pr-fr xln por in pt, chalky in pt, foss
 Sh black, carb
 Sh gy, silty and grnish in pt
 Ls wh-cr, fn xln, pr xln por, foss
 Ls wh-cr, fn xln, grainy text in pt, fr-gd xln por in pt, foss-abund foss
 Sh gy-dk gy
 Ls wh-cr, fn xln, pr-fr xln por in pt, chalky in pt, foss- abund foss, some shite foss chert
 Ls wh-cr, fn xln, pr-fr xln por in pt, dns in pt, chalky in pt, foss
 Sh gy
 Ls cr-tan, fn xln, silty/dol text in pt, sli foss
 Sh gy
 Ls cr-tan-gy, fn xln, silty text in pt, foss in pt
 Sh black, carb (first arrival 3710' spl)
 Ls cr-tan,fn xln, dns, foss

WOB 30K
 RPM 80
 PP 800
 SPM 62

< HEEBNER SH

3692 (-1236)

3700



Sh gy

← 3712 (-1256)

Ls wh-cr, fn xln, pr-fr xln por in pt, chalky in pt, becomes dns with depth, foss, scatt embedded chert

← 3733 (-1277)

Ls wh-cr-tan, fn xln, abund packed ool, mix of well-cem to interool pores

A

Ls wh-cr-tan, fn xln, dns-pr xln por, chalky in pt, foss, chert, fresh to sli grainy, tan, foss

Sh gy

B

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

Sh gy-gmish

D

Ls wh-cr, fn xln, dns-pr xln por in pt, chalky in pt, foss, some chert: tan-gy, fresh, subtr, foss in pt

Sh gy

E

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

Sh gy-dk gy-black

Ls wh-cr-pl gy, fn xln, much dns, some pr xln por, chalky in pt, foss

(Abund Black Shale in 3840' & 3850' & 3860' spls?)

F

Ls cr-pl gy, fn xln, pr xln por, abund ool (much well-cem, some interool pores)

G

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

(Samples 80% Shales, including black carb shale)

← 3879 (-1423)

Sh gy-gmish

H

Ls cr, fn xln, pr vis xln por to dns, subchalky in pt, scatt pp pores & sm vugs, foss, some ool pcs

[V fnt odor on crush, Rr pcs with dull fluor, mod am't pcs with sli shows of lt brn-brn-dk brn FO & NVL oil, sli gassy in pt, few pcs with Fr show dk brn FO, with spotty-patchy brn stn]

Ls wh-cr, fn xln, dns to subchalky, foss

Sh gy-gmish

7:00 AM, August 21, 2018

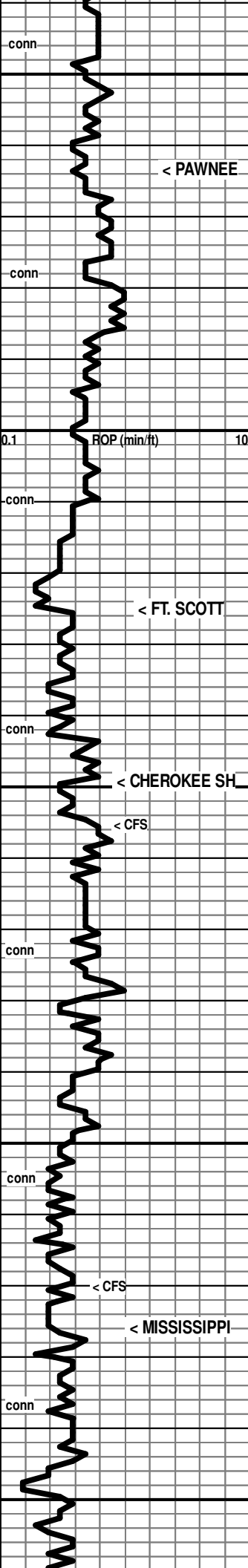
Mud Check, Drlg @ 3813':

Vis	Wt	WL	PV	YP
59	9.0	6.0	16	25
Chl	Hd	pH	Solids	
3900	Tr	11.0	4.8	

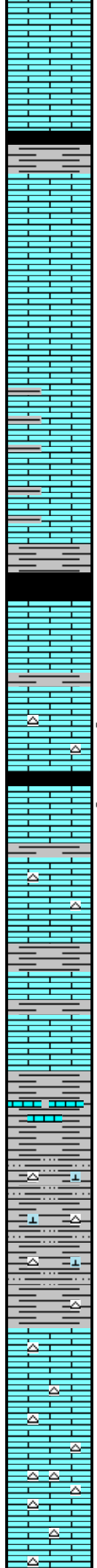
DST #1: 3869-3910 (LKC H)
 Times: 15-30-60-75
 Initial Open: Wk Blow, built to 2-1/2" i.b.
 Final Open: Wk Blow, built to 4-1/2" i.b.
 Rec: 60' Total Fluid & 60' gas in pipe
 60' MCO: 60% o 40% m
 IHP: 1985 FHP: 1883
 IFP: 27-30 FFP: 30-40
 ISIP: 903 FSIP: 978
 BHT: 110°F

* Pipe Strap @ 3910 ft short!

7:00 AM, August 22, 2018



4150
4200
4250
4300
4350



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

Sh brn-black, carb in pt, abund Ls in spls

Ls wh-cr--tan-gy, vfn-fn xln, mostly dns & firm, some softer and chalky-subchalky

Ls wh-cr--tan-gy, vfn-fn xln, mostly dns & firm, some softer and chalky-subchalky

Ls gy, vfn-fn xln, dns, silty text in pt, possible shaley Ls in pt, some wh chalky-subchalky pcs

Sh dk gy to black, carb in pt, silty/grainy in pt

Ls wh-cr, fn xln, mostly dns, subchalky in pt, foss

Sh gy
Ls wh-cr-tan, fn xln, few pcs with isolated sm patches of pr xln por, mostly dns & firm, some softer & chalky, abund foss, chert: fresh, cr-tan, subtransl

[No Odor, No fluor, few pcs total with scant spots of brn strn, NSFO: *stn possibly in Upper Cke Ls]

Sh black, carb

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

Ls cr-tan-gy, fn xln, dns, scatt calcite patches, chert: fresh, tan, transl, foss

Sh gy-dk gy-black

Ls cr-tan-gy, fn xln, chalky in pt, dns in pt, some grainy, foss in pt, some dk shale in spls

4310' spt: shale gy-grmish, pl gm siltstone & silty shale, abund Ls wh, fn xln, dns, foss in pt

4320' spt: Abund Ls wh-cr, fn xln, silty/sdy in pt; Shales: gy-grm-yell-maroon, sdy-silty in pt; Chert: fresh, cr-tan-yell, transl

4320' cfs: Ls wh-cr, fn xln, silty/sdy in pt; Shales: gy-grm-yell-maroon, sdy-silty in pt; Chert: fresh, cr-tan-yell-or, transl, spic in pt, some porous weath'd/subtrapolitic chert; Trace of Sd/silt, white, vfn gm, gd sort, gd fri

4326 (-1870)

Mostly Ls wh-cr-tan, vfn-fn xln, dns, chalky in pt, grainy in pt, abund chert: tan, fresh, transl

Mostly Ls wh-cr-tan, vfn-fn xln, mostly dns, scatt pr xln por, scatt pp pores, chalky in pt, grainy in pt, abund chert: tan, fresh, transl, spiculitic in pt

Ls wh-cr-tan-gy, fn xln, chalky in pt, silty in pt, mostly dns with some pr xln por, abund chert: fresh, wh-tan-gy, subtransl-transl, foss, some red shale inclusions in spots, marbling, and patches

7:00 AM, August 24, 2018

Mud Check, Drlg @ 4300':

Vis	Wt	WL	PV	YP
57	9.4	6.4	17	28
Chl	Hd	pH	Solids	
5000	20	10.5	7.5	

CFS >

RTD 4365 Ft.
LTD 4360 Ft.



RTD 4365 Ft. reached at: 1:40 PM, August 24, 2018!

0.1 ROP (min/ft) 10

4400

4450

4500

4550



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

Box 47
Great Bend KS 67530

ATTN: Carmen Schmitt

WP Unit #7-7

7-14s-25w Trego,KS

Start Date: 2018.08.21 @ 23:49:03

End Date: 2018.08.22 @ 05:53:58

Job Ticket #: 64459 DST #: 1

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

Printed: 2018.08.24 @ 10:16:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64459

DST#: 1

ATTN: Carmen Schmitt

Test Start: 2018.08.21 @ 23:49:03

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:33:19

Time Test Ended: 05:53:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 65

Interval: 3869.00 ft (KB) To 3910.00 ft (KB) (TVD)

Reference Elevations: 2456.00 ft (KB)

Total Depth: 3910.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8737

Outside

Press@RunDepth: 40.47 psig @ 3875.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.21

End Date:

2018.08.22

Last Calib.:

2018.08.21

Start Time: 23:49:04

End Time:

05:53:58

Time On Btm:

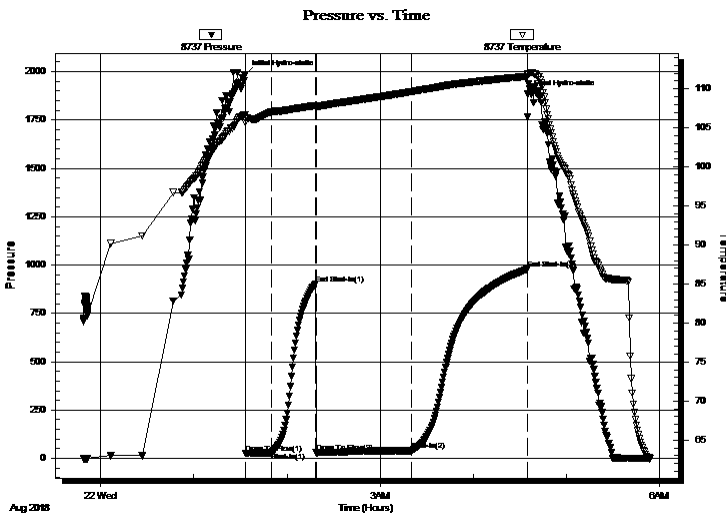
2018.08.22 @ 01:33:09

Time Off Btm:

2018.08.22 @ 04:34:59

TEST COMMENT: IF weak blow built to 2 1/2"
IS- no blow
FF surface blow built to 4 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.21	106.65	Initial Hydro-static
1	27.03	105.62	Open To Flow (1)
17	29.61	107.04	Shut-In(1)
45	902.92	107.86	End Shut-In(1)
46	30.35	107.71	Open To Flow (2)
107	40.47	109.64	Shut-In(2)
182	978.59	111.60	End Shut-In(2)
182	1883.57	111.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mco 60% 0 40% M	0.59
0.00	60' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
 Box 47
 Great Bend KS 67530
 ATTN: Carmen Schmitt

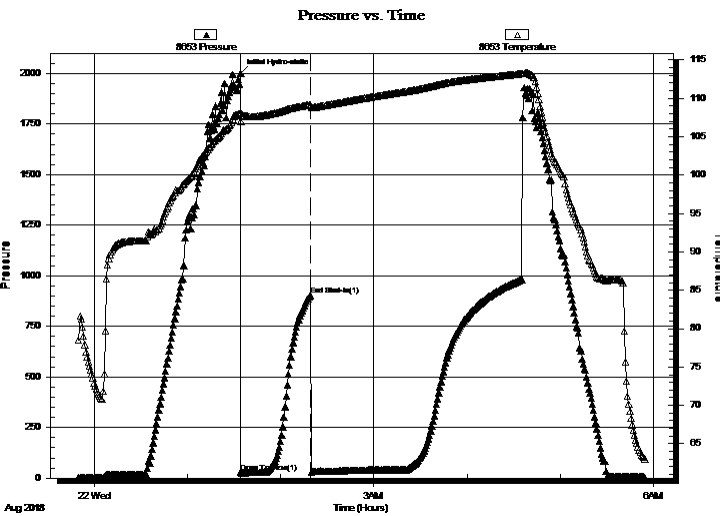
7-14s-25w Trego,KS
WP Unit #7-7
 Job Ticket: 64459 **DST#: 1**
 Test Start: 2018.08.21 @ 23:49:03

GENERAL INFORMATION:

Formation: **LKC H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:33:19
 Time Test Ended: 05:53:58
 Interval: **3869.00 ft (KB) To 3910.00 ft (KB) (TVD)**
 Total Depth: 3910.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Paul Simpson
 Unit No: 65
 Reference Elevations: 2456.00 ft (KB)
 2451.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8653 Inside
 Press@RunDepth: 905.16 psig @ 3875.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.08.21 End Date: 2018.08.22 Last Calib.: 1899.12.30
 Start Time: 23:49:40 End Time: 05:54:40 Time On Btm: 2018.08.22 @ 01:34:08
 Time Off Btm:

TEST COMMENT: IF weak blow built to 2 1/2"
 IS- no blow
 FF surface blow built to 4 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.36	108.06	Initial Hydro-static
1	30.48	106.94	Open To Flow (1)
45	905.16	109.18	End Shut-In(1)

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mco 60% 0 40% M	0.59
0.00	60' 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

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64459

DST#: 1

ATTN: Carmen Schmitt

Test Start: 2018.08.21 @ 23:49:03

Tool Information

Drill Pipe:	Length: 3833.00 ft	Diameter: 3.80 inches	Volume: 53.77 bbl	Tool Weight: 3500.00 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: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3869.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 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			3843.00	
Shut In Tool	5.00			3848.00	
Hydraulic tool	5.00			3853.00	
Jars	5.00			3858.00	
Safety Joint	2.00			3860.00	
Packer	5.00			3865.00	27.00 Bottom Of Top Packer
Packer	4.00			3869.00	
Stubb	1.00			3870.00	
Perforations	4.00			3874.00	
change Over Sub	1.00			3875.00	
Recorder	0.00	8653	Inside	3875.00	
Recorder	0.00	8737	Outside	3875.00	
Blank Spacing	17.00			3892.00	
Change Over Sub	1.00			3893.00	
Bullnose	3.00			3896.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64459

DST#: 1

ATTN: Carmen Schmitt

Test Start: 2018.08.21 @ 23:49:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mco 60% 0.40% M	0.587
0.00	60' GIP	0.000

Total Length: 60.00 ft Total Volume: 0.587 bbl

Num Fluid Samples: 0

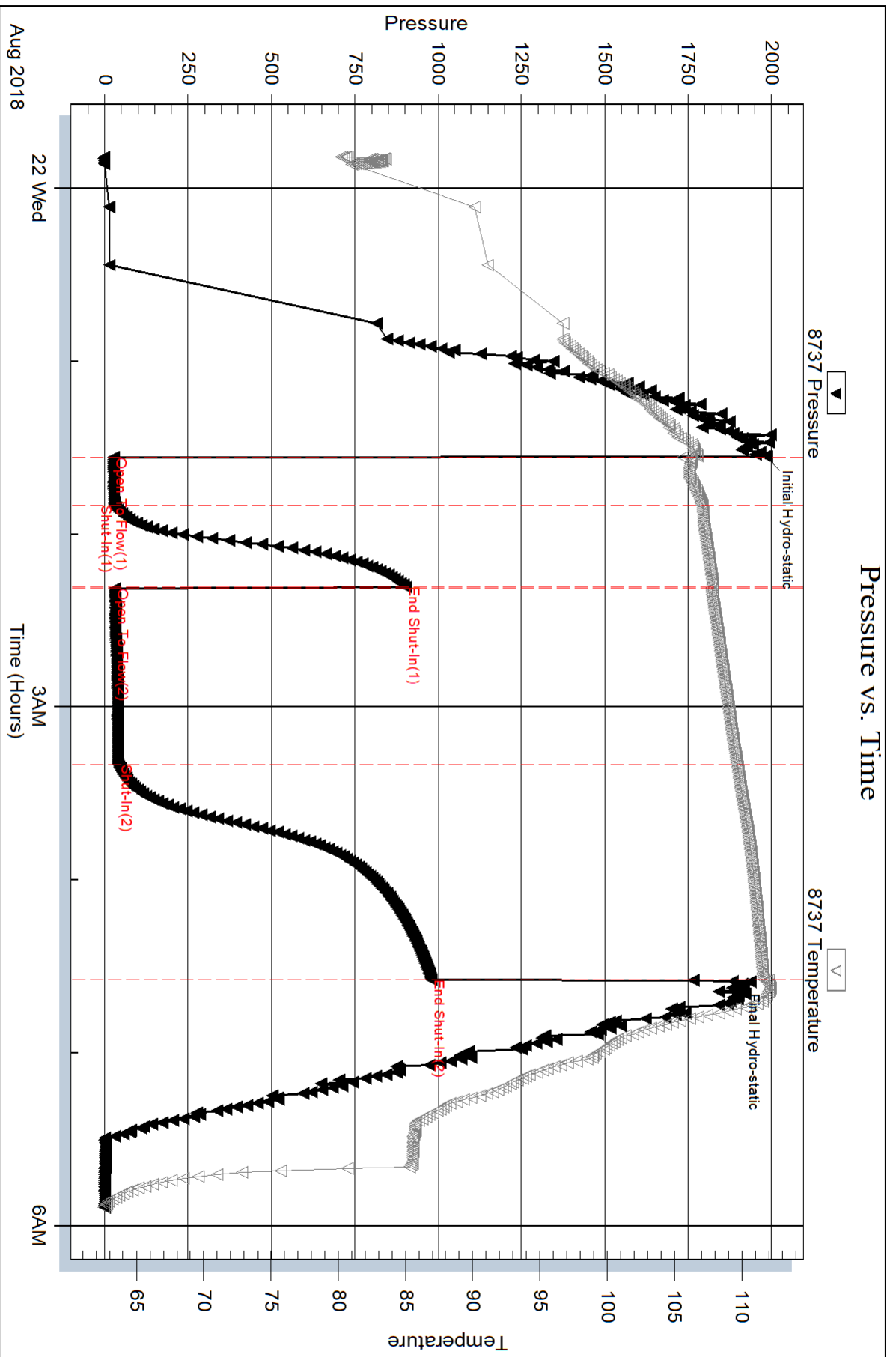
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

Box 47
Great Bend KS 67530

ATTN: Carmen Schmitt

WP Unit #7-7

7-14s-25w Trego,KS

Start Date: 2018.08.22 @ 17:37:07

End Date: 2018.08.22 @ 23:47:46

Job Ticket #: 64660 DST #: 2

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

Printed: 2018.08.24 @ 10:15:56

Carmen Schmitt Inc
7-14s-25w Trego,KS
WP Unit #7-7
DST # 2
LKC K
2018.08.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64660

DST#: 2

ATTN: Carmen Schmitt

Test Start: 2018.08.22 @ 17:37:07

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:47

Time Test Ended: 23:47:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 65

Interval: 3977.00 ft (KB) To 3988.00 ft (KB) (TVD)

Reference Elevations: 2456.00 ft (KB)

Total Depth: 3988.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: 31.72 psig @ 3978.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.22

End Date:

2018.08.22

Last Calib.:

2018.08.22

Start Time: 17:37:08

End Time:

23:47:47

Time On Btm:

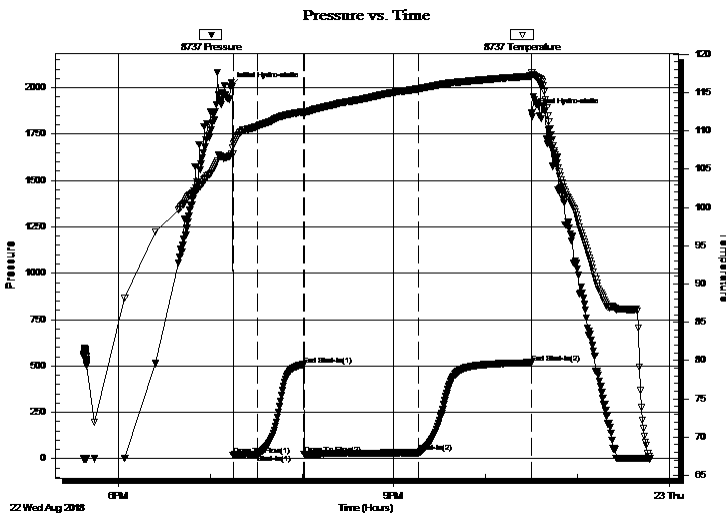
2018.08.22 @ 19:13:17

Time Off Btm:

2018.08.22 @ 22:30:17

TEST COMMENT: IF 15 weak blow built to 1/2"
ISI 30 no blow
FF 75 1" blow built to 3 1/2"
FSI 75 no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.86	106.75	Initial Hydro-static
2	19.35	107.05	Open To Flow (1)
18	24.04	110.59	Shut-In(1)
48	506.94	112.48	End Shut-In(1)
48	23.61	112.38	Open To Flow (2)
123	31.72	115.48	Shut-In(2)
197	517.58	117.15	End Shut-In(2)
197	1865.96	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	MCO 60% O 35%M 5%W	0.45
0.00	130' 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

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64660

DST#: 2

ATTN: Carmen Schmitt

Test Start: 2018.08.22 @ 17:37:07

Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 bbl	Tool Weight: 2400.00 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: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3977.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	38.00 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			3951.00	
Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Jars	5.00			3966.00	
Safety Joint	2.00			3968.00	
Packer	5.00			3973.00	27.00 Bottom Of Top Packer
Packer	4.00			3977.00	
Stubb	1.00			3978.00	
Recorder	0.00	8653	Inside	3978.00	
Recorder	0.00	8737	Outside	3978.00	
Perforations	7.00			3985.00	
Bullnose	3.00			3988.00	11.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64660

DST#: 2

ATTN: Carmen Schmitt

Test Start: 2018.08.22 @ 17:37:07

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:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MCO 60% O 35%M 5%W	0.446
0.00	130' GIP	0.000

Total Length: 50.00 ft Total Volume: 0.446 bbl

Num Fluid Samples: 0

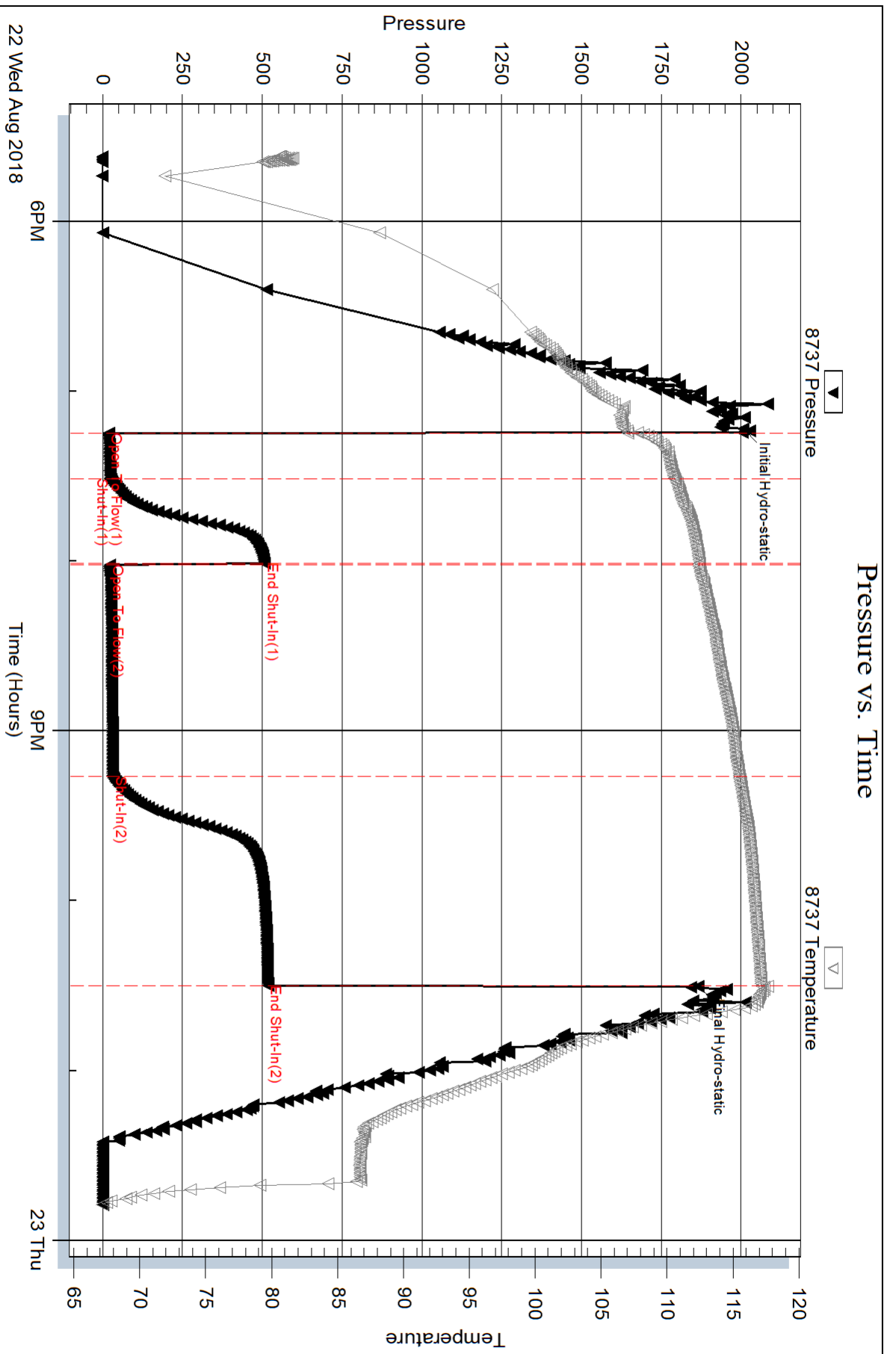
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil w as emulsified



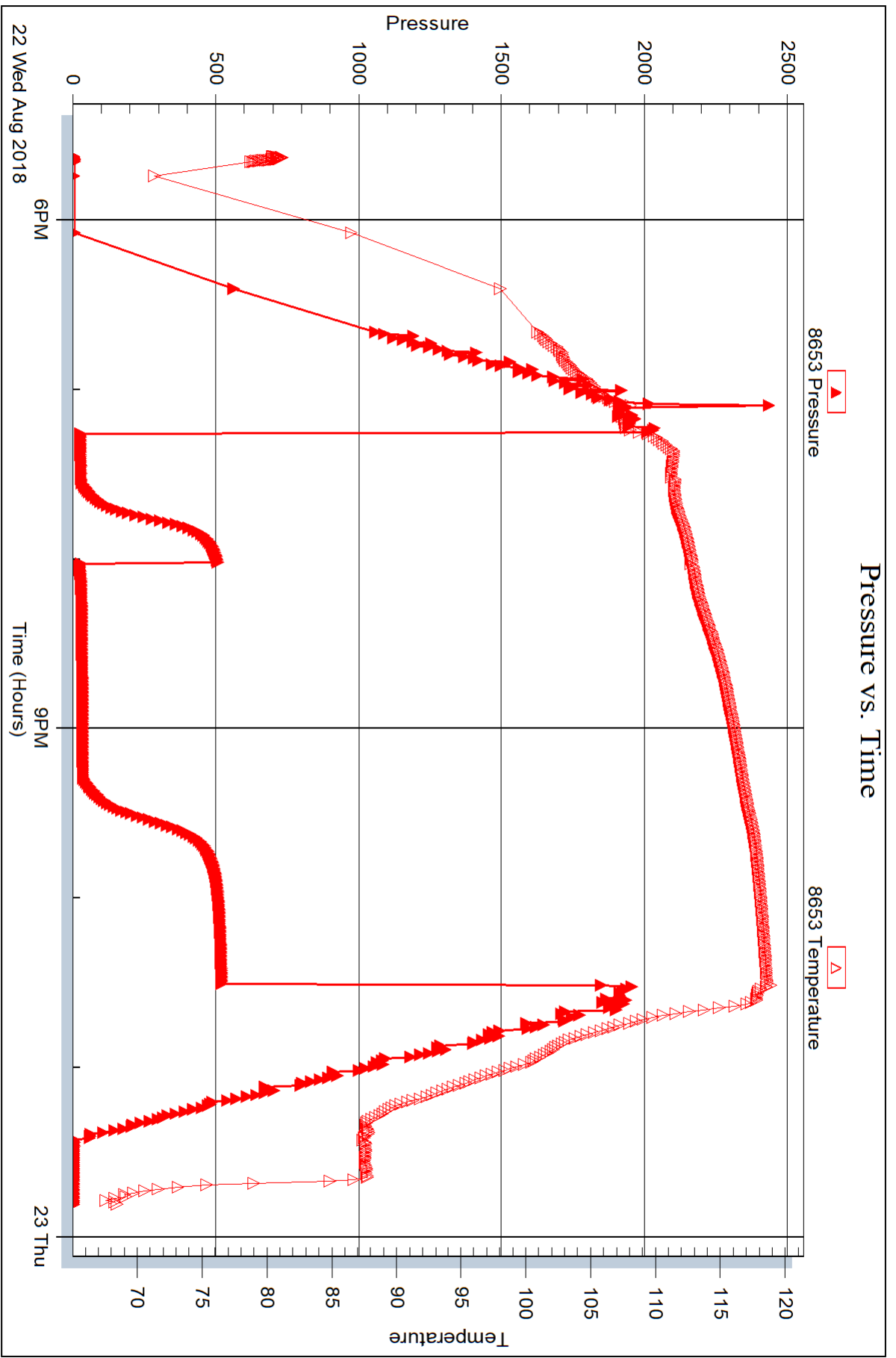
Serial #: 8653

Inside

Carmen Schmitt Inc

WP Unit #7-7

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64660

Printed: 2018.08.24 @ 10:15:57



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

Box 47
Great Bend KS 67530

ATTN: Carmen Schmitt

WP Unit #7-7

7-14s-25w Trego,KS

Start Date: 2018.08.23 @ 07:39:35

End Date: 2018.08.23 @ 15:20:44

Job Ticket #: 64461 DST #: 3

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

Printed: 2018.08.24 @ 10:15:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64461

DST#: 3

ATTN: Carmen Schmitt

Test Start: 2018.08.23 @ 07:39:35

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:29:25

Time Test Ended: 15:20:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Paul Simpson

Unit No: 65

Interval: 3995.00 ft (KB) To 4030.00 ft (KB) (TVD)

Reference Elevations: 2456.00 ft (KB)

Total Depth: 4030.00 ft (KB) (TVD)

2451.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8737 Outside

Press@RunDepth: 39.13 psig @ 3996.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.23

End Date: 2018.08.23

Last Calib.: 2018.08.23

Start Time: 07:39:36

End Time: 15:20:45

Time On Btm: 2018.08.23 @ 09:29:15

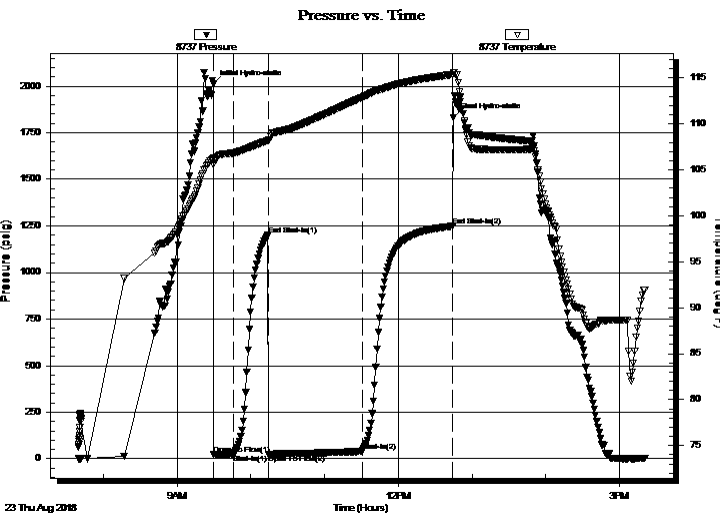
Time Off Btm: 2018.08.23 @ 12:44:45

TEST COMMENT: IF 15 surface blow built to 1 1/2"

ISI- 30 no blow

FF 75 1" blow built to bottom no blow of bucket in 27 minutes then to 25" at end of flow

FSI- 75 no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.62	106.26	Initial Hydro-static
1	23.35	105.58	Open To Flow (1)
17	23.43	106.84	Shut-In(1)
45	1200.95	108.19	End Shut-In(1)
46	21.65	108.14	Open To Flow (2)
122	39.13	112.86	Shut-In(2)
196	1248.48	115.37	End Shut-In(2)
196	1832.19	115.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mco 60% O 40% M	0.17
40.00	Clean oil	0.56
0.00	300' 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

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64461

DST#: 3

ATTN: Carmen Schmitt

Test Start: 2018.08.23 @ 07:39:35

Tool Information

Drill Pipe:	Length: 3959.00 ft	Diameter: 3.80 inches	Volume: 55.53 bbl	Tool Weight: 2400.00 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3995.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 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			3969.00	
Shut In Tool	5.00			3974.00	
Hydraulic tool	5.00			3979.00	
Jars	5.00			3984.00	
Safety Joint	2.00			3986.00	
Packer	5.00			3991.00	27.00 Bottom Of Top Packer
Packer	4.00			3995.00	
Stubb	1.00			3996.00	
Recorder	0.00	8653	Inside	3996.00	
Recorder	0.00	8737	Outside	3996.00	
Perforations	31.00			4027.00	
Bullnose	3.00			4030.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

7-14s-25w Trego,KS

Box 47
Great Bend KS 67530

WP Unit #7-7

Job Ticket: 64461

DST#: 3

ATTN: Carmen Schmitt

Test Start: 2018.08.23 @ 07:39:35

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	mco 60% O 40% M	0.166
40.00	Clean oil	0.561
0.00	300' GIP	0.000

Total Length: 70.00 ft Total Volume: 0.727 bbl

Num Fluid Samples: 0

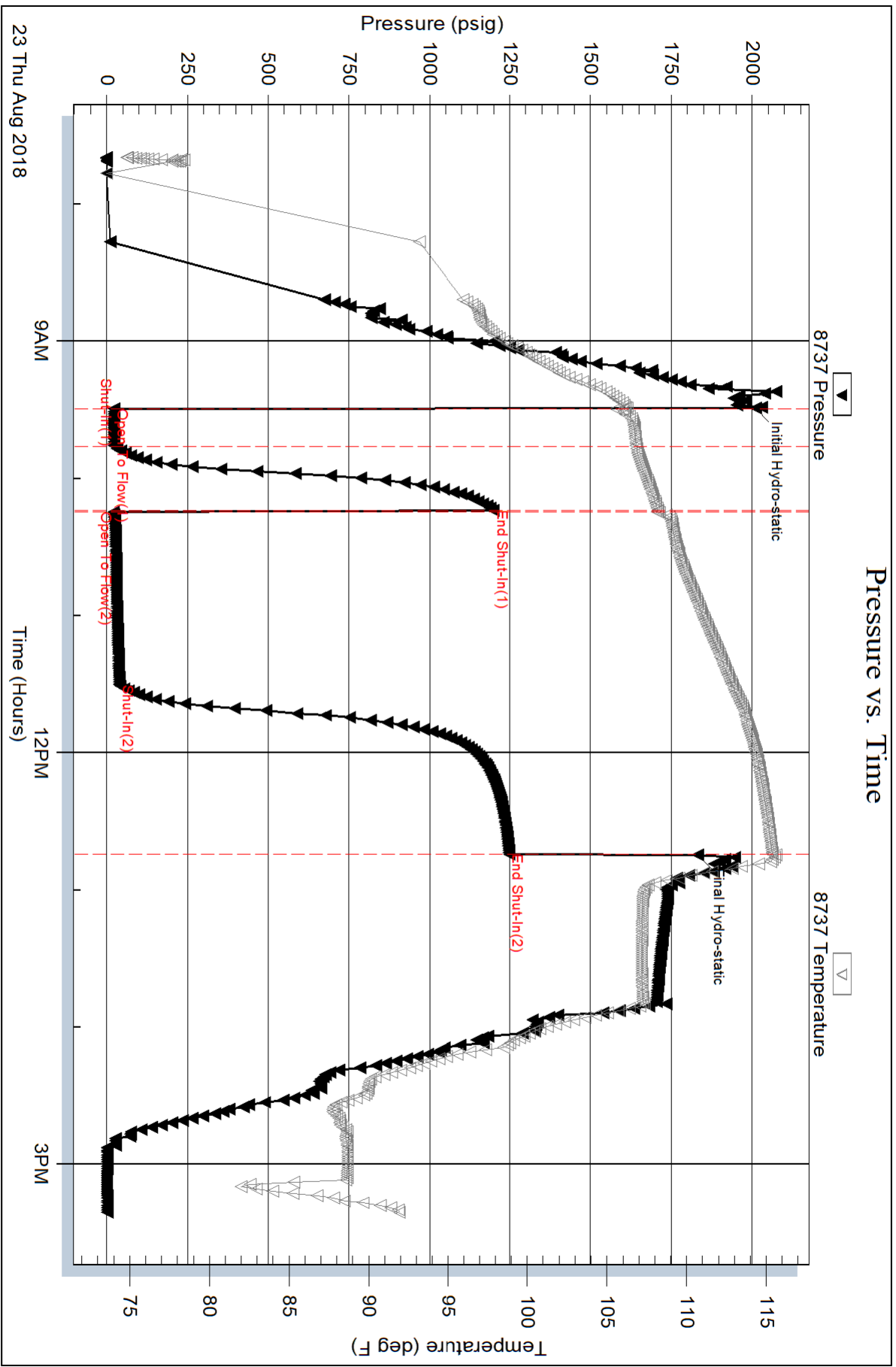
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 41@90 =38



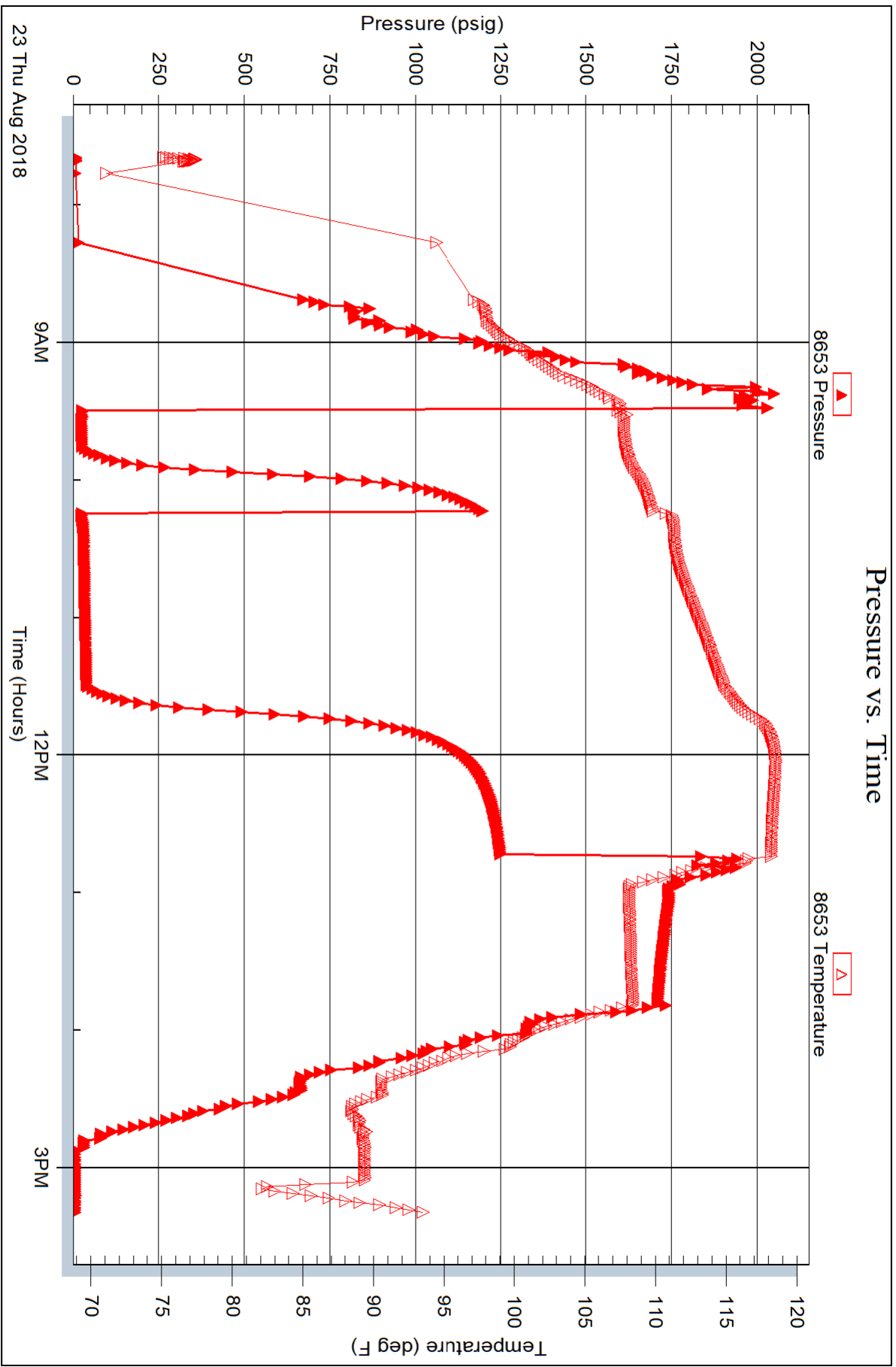
Serial #: 8653

Inside

Carmen Schmitt Inc

WP Unit #7-7

DST Test Number: 3



Test Ticket

NO. 64459



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Well Name & No. WP 6A 7-D Test No. 1 Date 8/22/18
 Company Carmen Schmitt Inc Elevation 2456 KB 2451 GL
 Address _____
 Co. Rep / Geo. Brad Rine Rig Murfin 16
 Location: Sec. 7 Twp 14s Rge. 25w Co. Trego State Ks

Interval Tested 3869-3910 Zone Tested 2kcc H
 Anchor Length 41 Drill Pipe Run 3833 Mud Wt. 9.3
 Top Packer Depth 3864 Drill Collars Run 28 Vis 60
 Bottom Packer Depth 3869 Wt. Pipe Run _____ WL 6.0
 Total Depth 3910 Chlorides _____ ppm System LCM 1
 Blow Description Weak 1" blow building to 2.5"

88 surface blow building to 4.5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCP</u>				
<u>60</u>	<u>G-1P</u>	<u>60</u>		<u>40</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Rec Total <u>120</u>	BHT <u>110</u>	_____	_____	_____	_____

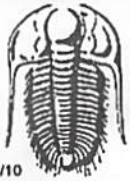
- (A) Initial Hydrostatic 1985
- (B) First Initial Flow 27
- (C) First Final Flow 30
- (D) Initial Shut-In 908
- (E) Second Initial Flow 30
- (F) Second Final Flow 40
- (G) Final Shut-In 978
- (H) Final Hydrostatic 1883

- Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
- Test 1050
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 60x2 + 20 140
- Sampler 1
- Straddle stuck
- Shale Packer 250
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1765

- T-On Location 2245
- T-Started 2349
- T-Open 0134
- T-Pulled _____
- T-Out _____
- Comments _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1765
- MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 75

Approved By Brad Rine Our Representative Paul Simpson
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64460

Well Name & No. WP Unit 5-D Test No. 2 Date 8/22/18
 Company Carmen Schmitt Inc Elevation 2456 KB 2451 GL
 Address Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfm 16
 Location: Sec. 7 Twp 14r Rge. 25 W Co. Trego State Ks

Interval Tested 3977-3988 Zone Tested L1c 1s
 Anchor Length 11 Drill Pipe Run 3927 Mud Wt. 9.3
 Top Packer Depth 3972 Drill Collars Run 28 Vis 60
 Bottom Packer Depth 3977 Wt. Pipe Run _____ WL 6.4
 Total Depth 3988 Chlorides _____ ppm System LCM _____

Blow Description weak blow built to 1/2"
ff 1" blow built to 3.5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>MCO</u>	<u>60</u>	<u>5</u>	<u>35</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 _____ BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2006 Test 1050 T-On Location _____
 (B) First Initial Flow 19 Jars 250 T-Started 1730
 (C) First Final Flow 24 Safety Joint 75 T-Open 1815
 (D) Initial Shut-In 507 Circ Sub _____ T-Pulled 2230
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 2347
 (F) Second Final Flow 32 Mileage 60x2 120 Comments _____
 (G) Final Shut-In 517 Sampler _____
 (H) Final Hydrostatic 1866 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____

Initial Open 15 Extra Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Recorder _____ Extra Copies _____
 Final Flow 75 Day Standby _____ Sub Total 0
 Final Shut-In 75 Accessibility _____ Total 1745
 Sub Total 1745 MP/DST Disc't _____

Approved By Brad Rine Our Representative Paul Simpson

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64461

Well Name & No. WP Unit 7-7 Test No. 3 Date 8/23/18
 Company Corman Schmitt Inc Elevation 2456 KB 2451 GL
 Address _____
 Co. Rep / Geo. Brad Rine Rig Murfin 16
 Location: Sec. 7 Twp 14s Rge. 25w Co. Trego State Ks

Interval Tested 3995-4030 Zone Tested 2kc 2
 Anchor Length 35 Drill Pipe Run 3959 Mud Wt. 9.3
 Top Packer Depth 3790 Drill Collars Run 28 Vis 58
 Bottom Packer Depth 3995 Wt. Pipe Run _____ WL _____
 Total Depth 4030 Chlorides _____ ppm System LCM _____

Blow Description Surface blow built to 1.6"
IST no blow
FF 1" blow built to bottom in 20 minutes built to 25"
FSD - no blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	
<u>70</u>	<u>clean oil</u>	<u>100</u>			
<u>300</u>	<u>GIP</u>				

Rec Total 70 BHT 115 Gravity 38 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2010 Test 1150 T-On Location _____
 (B) First Initial Flow 23 Jars 250 T-Started 0739
 (C) First Final Flow 23 Safety Joint 75 T-Open 0929
 (D) Initial Shut-In 1201 Circ Sub _____ T-Pulled 1244
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1520
 (F) Second Final Flow 39 Mileage 66x2 120 Comments _____
 (G) Final Shut-In 1248 Sampler _____
 (H) Final Hydrostatic 1832 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1845
 Sub Total 1845 MP/DST Disc't _____

Approved By Brad Rine Our Representative Paul Simpson

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