

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	BETTY 3
Doc ID	1462562

Tops

Name	Top	Datum
Anhydrite	1924	544
Heebner Sh	3707	-1239
Toronto	3726	-1258
Lansing	3746	-1278
Stark Shale	3977	-1509
B/ Kansas City	4035	-1567
Marmaton	4076	-1608
Altamont	4101	-1633
Pawnee	4180	-1712
Fort Scott	4244	-1776
Cherokee Shale	4258	-1790
Mississippian	4355	-1887



DRILL STEM TEST REPORT

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

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Betty #3

12-14S-26W Gove,KS

Start Date: 2019.03.26 @ 02:28:14

End Date: 2019.03.26 @ 11:12:04

Job Ticket #: 65677 DST #: 1

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

Printed: 2019.03.28 @ 09:59:49

Carmen Schmitt, Inc.
12-14S-26W Gove,KS
Betty #3
DST # 1
LKC "K"
2019.03.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

12-14S-26W Gove,KS
Betty #3
 Job Ticket: 65677 **DST#: 1**
 Test Start: 2019.03.26 @ 02:28:14

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:58:20
 Time Test Ended: 11:12:04
 Interval: **3967.00 ft (KB) To 4000.00 ft (KB) (TVD)**
 Total Depth: 4000.00 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: 2468.00 ft (KB)
 2463.00 ft (CF)
 KB to GR/CF: 5.00 ft

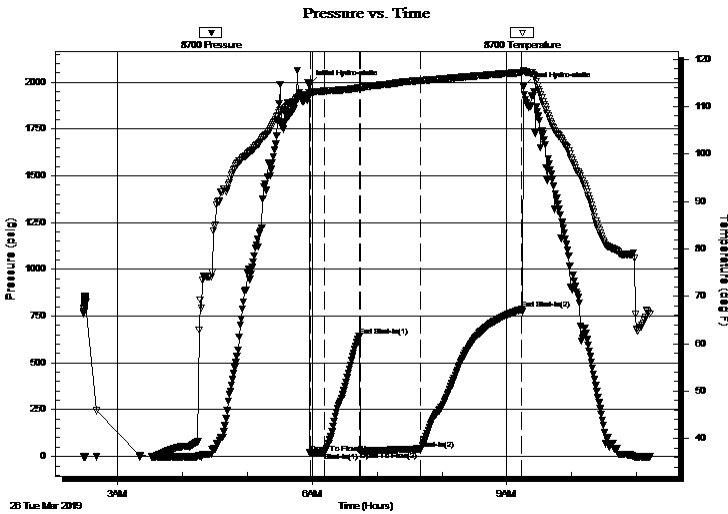
Serial #: 8700

Outside

Press@RunDepth: 41.13 psig @ 3968.00 ft (KB)
 Start Date: 2019.03.26 End Date: 2019.03.26
 Start Time: 02:28:15 End Time: 11:12:04
 Capacity: 8000.00 psig
 Last Calib.: 2019.03.26
 Time On Btm: 2019.03.26 @ 05:56:50
 Time Off Btm: 2019.03.26 @ 09:15:05

TEST COMMENT: 15- IF- Slow ly built to 4.24"
 30- IS- No blow
 60- FF- Slow ly built to 9.79"
 90- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.12	113.01	Initial Hydro-static
2	18.22	112.85	Open To Flow (1)
15	21.46	113.30	Shut-In(1)
47	644.47	113.93	End Shut-In(1)
48	27.53	113.92	Open To Flow (2)
103	41.13	115.53	Shut-In(2)
197	785.98	117.18	End Shut-In(2)
199	1974.92	117.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HMCO, 40%M 60%O	0.30
5.00	CO	0.02

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

12-14S-26W Gove,KS
Betty #3
Job Ticket: 65677 **DST#: 1**
Test Start: 2019.03.26 @ 02:28:14

Tool Information

Drill Pipe:	Length: 3760.00 ft	Diameter: 3.82 inches	Volume: 53.30 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3967.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 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			3940.00	
Shut In Tool	5.00			3945.00	
Hydraulic tool	5.00			3950.00	
Jars	5.00			3955.00	
Safety Joint	3.00			3958.00	
Packer	5.00			3963.00	28.00 Bottom Of Top Packer
Packer	4.00			3967.00	
Stubb	1.00			3968.00	
Recorder	0.00	6771	Inside	3968.00	
Recorder	0.00	8700	Outside	3968.00	
Perforations	29.00			3997.00	
Bullnose	3.00			4000.00	33.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-14S-26W Gove,KS

PO Box 47
Great Bend, KS 67530

Betty #3

Job Ticket: 65677

DST#: 1

ATTN: Brad Rine

Test Start: 2019.03.26 @ 02:28:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 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: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	HMCO, 40%M 60%O	0.295
5.00	CO	0.025

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

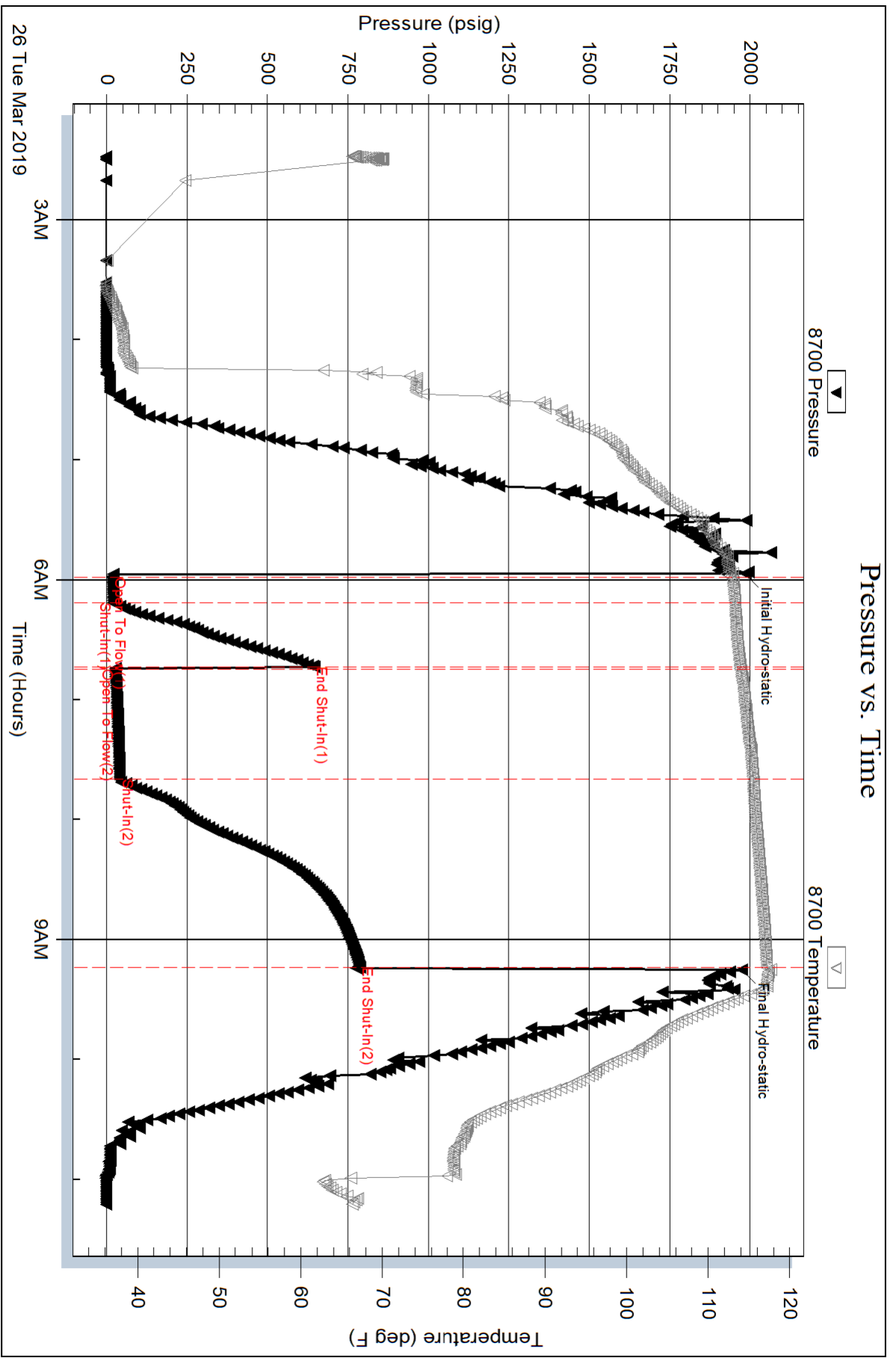
Num Gas Bombs: 0

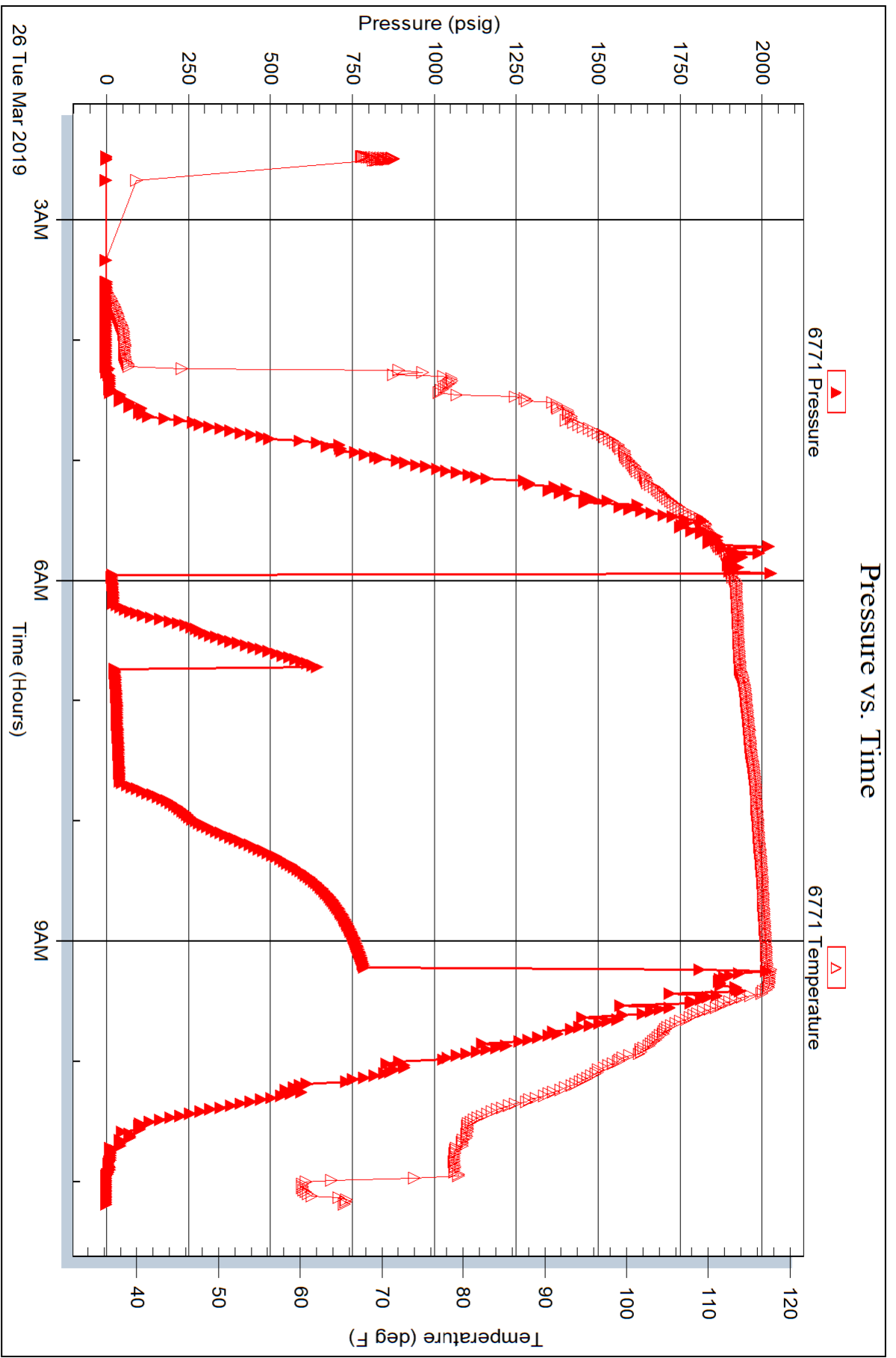
Serial #:

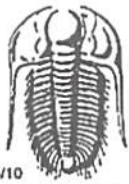
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65677**

Well Name & No. Betty #3 Test No. 1 Date 3/26/19
 Company Carmen Schmitt, Inc. Elevation 2468 KB 2463 GL
 Address PO Box 47 Great Bend, KS
 Co. Rep / Geo. Brod Rine Rig Murfin 8
 Location: Sec. 12 Twp 14 S Rge. 2E WCo. Have State KS

Interval Tested 3967-4000 Zone Tested LKC "K"
 Anchor Length 33' Drill Pipe Run 3760 Mud Wt. 9.4
 Top Packer Depth 3962 Drill Collars Run 187 Vis 60
 Bottom Packer Depth 3967 Wt. Pipe Run _____ WL 6.0
 Total Depth 4000 Chlorides 600 ppm System LCM 2#
 Blow Description IF - slowly built to 4.24"
ISF - No blow
FF - slowly built to 9.79"
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>HMCO</u>		<u>60</u>	<u>40</u>	
<u>5</u>	<u>CO</u>				

Rec Total 65' BHT 117° Gravity 37 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1985</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0156</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0228</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0557</u>
(D) Initial Shut-In <u>644</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0912</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1112</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>124 RT</u> 124+124	Comments <u>Loaded tools</u>
(G) Final Shut-In <u>786</u>	<input type="checkbox"/> Sampler _____	<u>3/27 @ 2100</u>
(H) Final Hydrostatic <u>1975</u>	<input type="checkbox"/> Straddle _____	<u>1 night motel</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> EM Tool _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Day Standby _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Accessibility _____	Sub Total <u>0</u>
	Sub Total <u>1773</u>	Total <u>1773</u>

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



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

Well Name: Betty #3 - Carmen Schmitt, Inc.
API: 15-063-22355-00-00
Location: SW-NE-SE-SE, Section 12-14S-26W
License Number: KCC #6569
Spud Date: March 21, 2019
Surface Coordinates: 900' FSL & 350' FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2463 Ft.
Logged Interval (ft): 3400 Ft. To: 4415 Ft. Total Depth (ft): RTD 4415 Ft. LTD 4418 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Gove County, Kansas
Drilling Completed: March 28, 2019
Results: Production Casing Set
Field: Overland
K.B. Elevation (ft): 2468 Ft.

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, on the Betty #3, it was the decision of the Operator, to set production casing on March 28, 2019.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Drilling, Rig #8
Pump: National K380 6x14
Drawworks: Ideco H35
Collars: 577' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Jason Galli

Mud: Mudco (Gary Schmidtberger)
Gas Detector: None
Drill Stem Tests: Trilobite (Brannon Lonsdale)
Logs: Pioneer (Ian Mabb)
Water: Harvey Lease Irrigation Well (Walker Tank)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

Date:	Operations/Depth/Comments
03-21-19	MIRT, RU, Spud @ 0'
03-22-19	Drilling @ 500'
03-23-19	Drilling @ 2400'
03-24-19	Drilling @ 3120'
03-25-19	Drilling @ 3735'
03-26-19	On Bottom with DST #1 @ 4000'
03-27-19	Circulating for Samples @ 4280'
03-28-19	Laying Down Drill Pipe @ 4415' Run Production Casing, complete job at 2:00 PM

	Results: Oil			(Well A) Oil		(Well B) Oil			
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Carmen Schmitt, Inc.			
	Betty #3			Betty #1		WP Unit #6-7			
	900'FSL & 350'FEL			330' FSL & 1200' FEL		1550'FSL & 550'FWL			
	Sec. 12-14S-26W			Sec. 12-14S-26W		Sec. 07-14S-25W			
	2468	KB		2448	KB	2458	KB	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1920	1924	544	1899	549	1910	548	-5	-4
B/Anhydrite	1957	1959	509	1937	511	1947	511	-2	-2
Tarkio	3314	3317	-849	3300	-852	3303	-845	3	-4
Heebner Sh.	3705	3707	-1239	3685	-1237	3693	-1235	-2	-4
Toronto	3727	3726	-1258	3704	-1256	3712	-1254	-2	-4
Lansing	3744	3746	-1278	3723	-1275	3732	-1274	-3	-4
Muncie Creek Sh.	3892	3895	-1427	3872	-1424	3877	-1419	-3	-8
Stark Sh.	3976	3977	-1509	3953	-1505	3959	-1501	-4	-8
B/Kansas City	4032	4035	-1567	4010	-1562	4014	-1556	-5	-11
Marmaton	4075	4076	-1608	4052	-1604	4057	-1599	-4	-9
Altamont	4099	4101	-1633	4074	-1626	4081	-1623	-7	-10
Pawnee	4179	4180	-1712	4156	-1708	4162	-1704	-4	-8
Ft. Scott	4243	4244	-1776	4219	-1771	4224	-1766	-5	-10
Cherokee Sh.	4268	4258	-1790	4243	-1795	4249	-1791	5	1
Mississippian	4354	4355	-1887	4314	-1866	4317	-1859	-21	-28
Total Depth	4415	4418	-1950	4478	-2030	4361	-1903	80	-47

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 211 ft of 8-5/8" 23# new surface casing, set @ 219'. (Copeland) Cement with 195 sx Common, 3% gel, 2% /CC. Plug down at 7:30 PM, cement did circulate, March 21, 2019.

Production: Ran 100 jts 5-1/2" 14# new, set @ 4208'. (Swift) Cement as follows: 30 sx in RH, 15 sx in MH. Mixed 405 sx SMD followed by 150 sx EA2 and displaced casing with 102 bbls. Circulate 15 sx to surface. Plug down at 2:00 pm, March 28, 2019.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	CH20	0	220	2
2	7-7/8	HTC	DP506	220	2997	36.75
3	7-7/8	HTC	GX20C	2997	4415	62.00

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	220'	0.75*	2997'
0.50*	1193'	0.50*	4000'
0.50*	2205'	1.00*	4415'

PIPE STRAPS:

Difference: depth:
1.46' long 4000'

DST #1: 3967-4000 (LKC K)

Times: 15-30-60-90

Initial Open: Mod Blow, built to 4-1/4" i.b.

Final Open: Mod Blow, built to 10" i.b.

Rec: 65' Total Fluid

60' MCO: 40% m 60% o

5' Clean Oil (37* API)

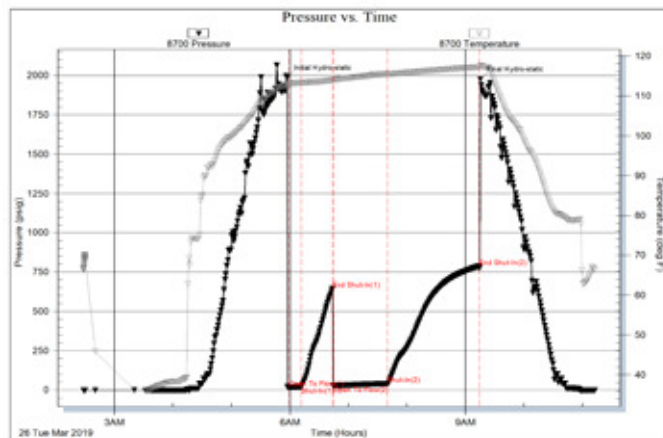
IHP: 1985 FHP: 1975

IFP: 18-21 FFP: 28-41







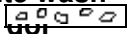



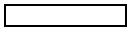
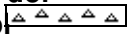







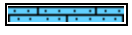
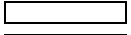





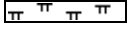

ISIP: 644 FSIP: 786*

BHT: 117°F













































*(Shutin's may indicate 2 reservoirs open)



Rock Types

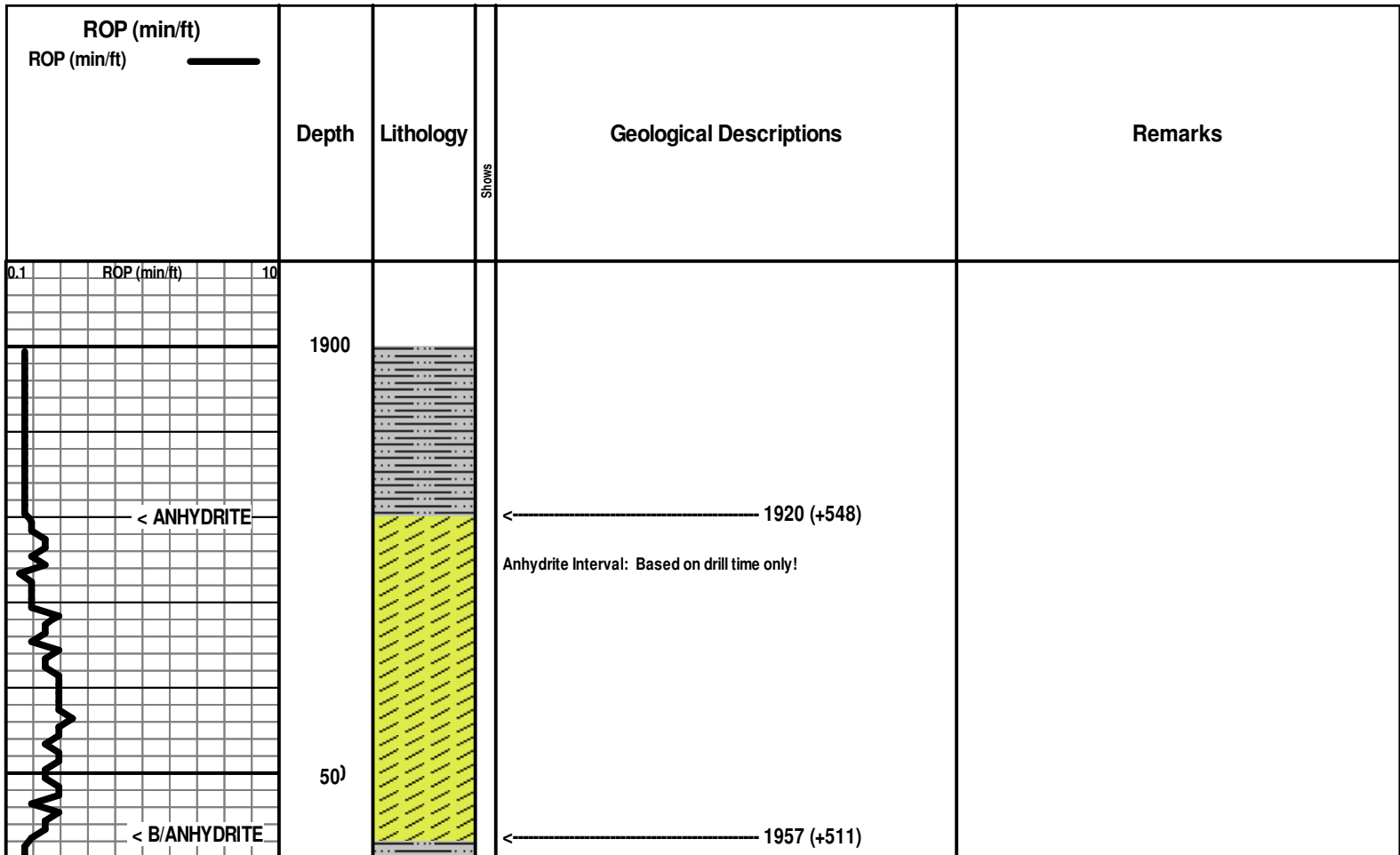
	Congl granite wash		Bent		Dol		Salt		Till
	dol ls limey		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Sandyls
	New symbol		Black shale/coal		Meta		Siltst		
	Anhy		Congl		Mrlst		Ss		

Accessories

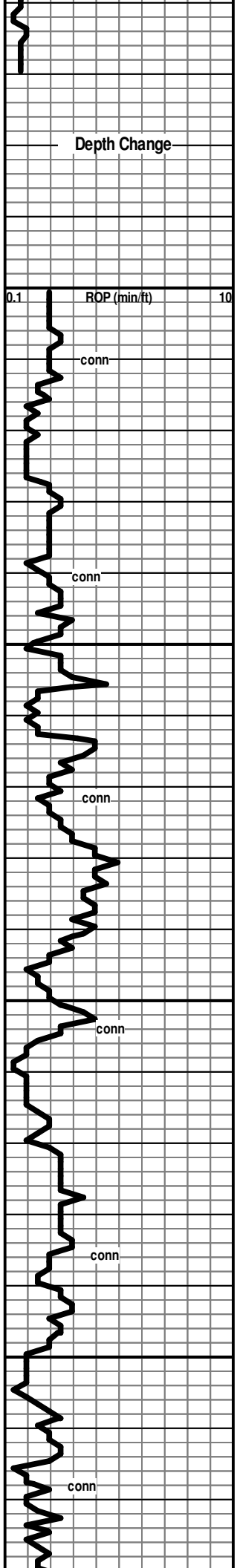
MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet		
	Arg		Marl		Pisolite	TEXTURE	
	Bent		Minxl		Plant		Boundst
	Bit		Nodule		Strom		Chalky
	Brecfrag		Phos				Cryxln
	Calc		Pyr	STRINGER			Earthy
	Carb		Salt		Anhy		Finexln
	Chtdk		Sandy		Shale		Grainst
	Chtlt		Silt		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		Core
	Oil & gas show		Spotted		Gas		Dst
	Gas show		Trace or questionable				



* Displace & Mud up @
3156 Ft!

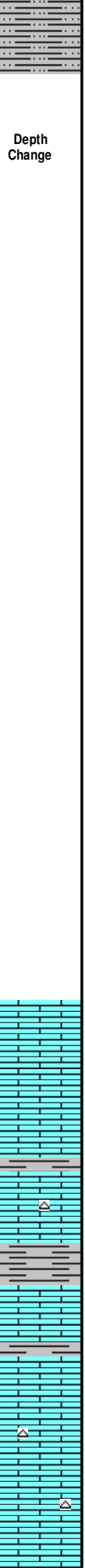


3400

3450

3500

3550



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

Sh gy

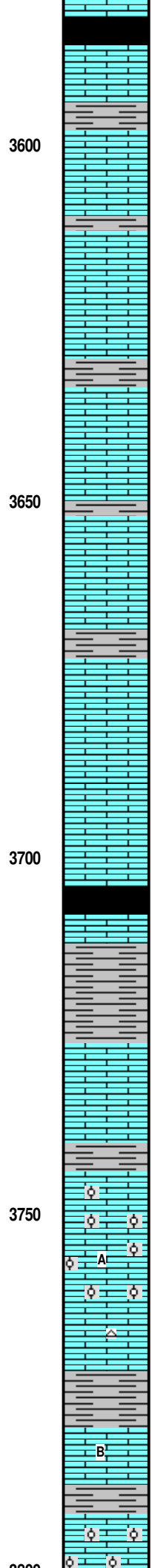
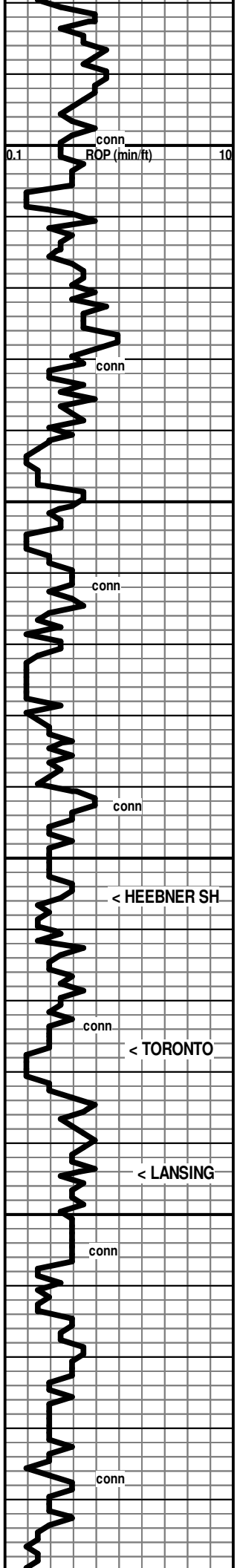
Ls cr-tan, fn xln, dns, chert: fresh, wh/g mix, foss

Sh gy, silty in pt

Ls cr, fn xln, dns-prxln por

Sh gy

Ls cr, fn xln, pr-fr-gd xln por, abund to packed foss & microfoss, chert: fresh, cr, opa



Sh black, carb

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

Ls wh-cr, fn xln, grainy text in pt, pr-fr xln por, scatt pp pores, foss

Sh gy

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

Ls wh-cr, fn xln, pr xln por, scatt pp pores, foss

Sh gy

Ls wh-cr, fn xln, pr-fr xln por, foss

Sh gy

Ls wh-cr-tan, fn xln, pr-fr xln por, abund pp pores, dns in pt, abund foss with scatt interfoss pores

Ls cr-tan-brn-gy, fn xln, some silty text, dns, foss, abund dk reddish brn inclusions

← 3705 (-1237)
 Sh black, carb (abund in 3720' spl)
 Ls cr-tan, fn xln, pr xln por, some pp pores, foss

Sh gy-gy-grnish, silty text in pt

← 3727 (-1259)

Ls wh-cr-tan with a few white chalky pcs, pr-fr xln por with scatt pp pores, foss

Sh gy

← 3744 (-1276)

Ls wh-cr, chalky in pt, fn xln in pt, abund ool (well cem to chalky cements with scatt pores)

Ls wh-cr, chalky in pt, fn xln in pt, abund ool (well cem to chalky cements with scatt pores), Chert: fresh, wh, opa, foss

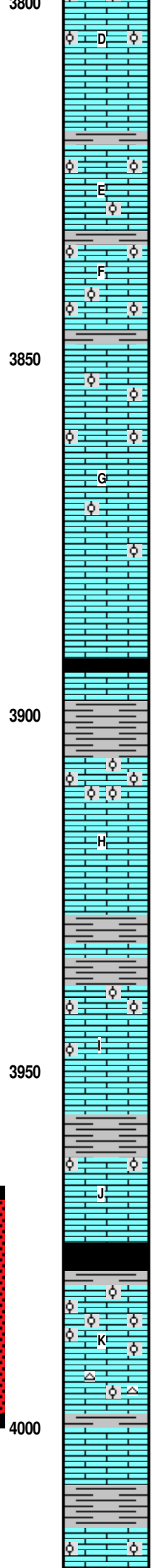
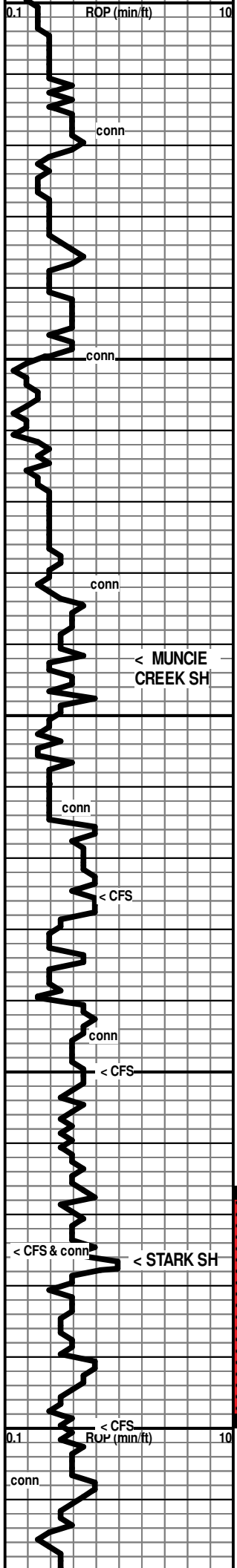
Sh gy

Ls wh-cr, fn xln, pr xln por with some fr xln por, foss

Sh gy-grn

Ls wh-cr, fn xln, pr-fr xln por, ool & foss with scatt interool pores

7:00 AM, March 25, 2019



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

Sh gy

Ls wh-cr, fn xln, pr xln por, ool with scatt interool pores

Sh gy

Ls wh-cr, fn xln, pr-fr xln por with some dolom text, some chalky pcs, ool

Ls wh-cr, fn xln, pr xln por in pt, chalky in pt, abund ool (course, cem to interool por & pores)

Ls wh-cr, fn xln, pr xln por in pt, chalky in pt, abund ool & oom (course, cem to interool por & pores)

Ls cr-pl gy, fn xln, pr xln por to dns, ool in pt, sli foss

Ls cr, fn xln, dns, sli foss

← 3892 (-1424)

Sh black, carb

Ls cr-tan, fn xln, dns, foss

Sh gy-grnsh

Ls wh-cr, fn xln, chalky to pr xln por, Rr scatt pp pores, ool in pt, foss

[No Odor, 2-3 pcs per tray with dull fluor, few pcs per tray with spots or patches of brn stn with trace to v sli show dk Brn FO & NVL on on crush]

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

Sh gy-dk gy-grnsh, silty in pt

Ls wh-cr, mostly dns, some pr xln por, ool in pt with some scatt interool pores

[No Odor, found a few pcs with scatt brn stn with trace-v sli show brn-dk brn FO & NVL deadish oil on crush]

Sh gy-dk gy-grn-red, silty in pt

Ls wh-cr-gy,fn xln, dns to pr xln por, some chalky & soft pcs, foss & microfoss, tr micro ool

← 3976 (-1508)

Sh black, carb (well repres in circ spls)

Sh gy-grn, silty/mic text in pt

Ls wh-cr, fn xln, some chalky, mod am't pcs with pr xln por with abund pp pores, micro-ool with abund interool pores in pt, Rr sm vuas. foss

Show Descr. →

Ls wh-cr, subchalky to pr xln por, with some ool, foss, chert: fresh, wh-gy, subtransl-opaq foss

Sh gy-grnsh

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

Sh gy-grnsh-grn

Ls cr-tan, fn xln, dns, ool in Rr pt (well cem), pr crush

Mud Check: Drlg @ 3338':

Vis	Wt	WL	LCM	PV	YP
60	9.4	6.0	2	17	29
Chi	Hd	pH	Solids		
600	Tr	11.0	7.8		

DST #1: 3967-4000 (LKC K)

Times: 15-30-60-90

Initial Open: Mod Blow, built to 4-1/4" i.b.

Final Open: Mod Blow, built to 10" i.b.

Rec: 65' Total Fluid

60' MCO: 40% m 60% o

5' Clean Oil (37* API)

IHP: 1985 FHP: 1975

IFP: 18-21 FFP: 28-41

ISIP: 644 FSIP: 786*

BHT: 117°F

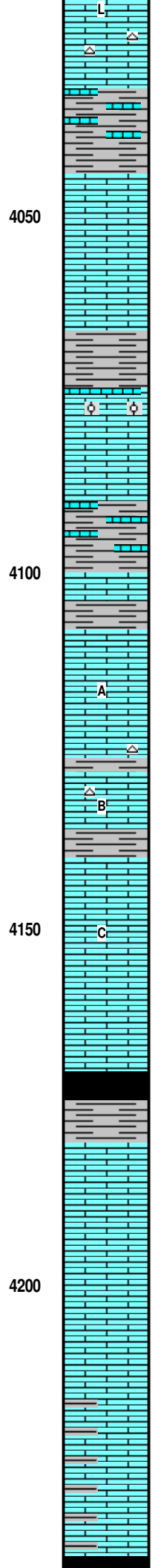
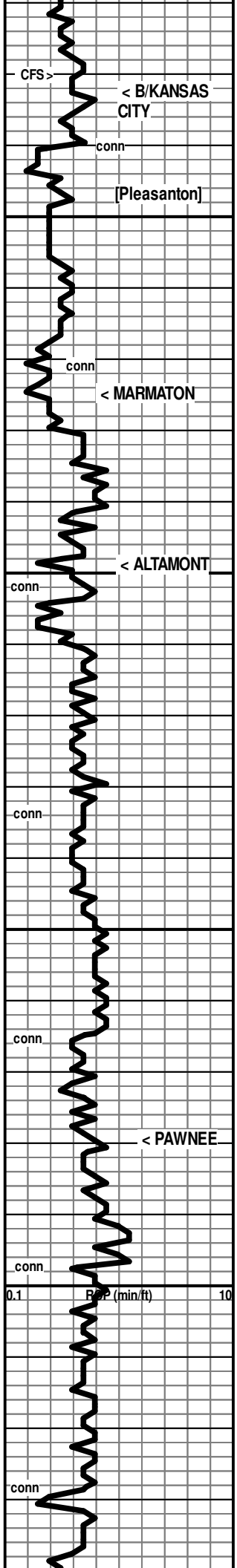
* (Shut-in's may indicate 2 reservoirs open)

[Mod Odor, Mod am't pcs with dull-brt fluor, with spotty to patchy to even lt brn stn, with moderately low % pcs with mostly sli shows of brn gassy FO, some pcs with fr show FO on crush, few pcs with blk res spotty stn]

7:00 AM, March 26, 2019

Mud Check: OB/DST1 @ 4000':

Vis	Wt	WL	LCM	PV	YP
60	9.2	6.4	2	15	26
Chi	Hd	pH	Solids		
1100	Tr	11.0	6.4		



Ls cr-tan-pl gy, with some white chalky pcs, fn xln, dns, foss in pt, chert: fresh, cr-tan, subtr-transl, foss in pt

← 4032 (-1564)
Sh gy-grn-brn-red, earthy to silty to limey, abund dns ls in spls

Ls cr-tan-pl gy, fn xln, dns with Rr pcs with pr xon por, chalky on edges and patches in pt, foss in pt,
[4070' spl: No Odor, No fluor, Few pcs total with spots of dark stn, Dead on crush, NSFO]

Sh gy-grn, silty/mic text in pt

← 4075 (-1607)
Ls wh-r-tan-gy, fn xln, some chalky, mostly dns, some pr xln por, foss, ool in pt

Sh gy-grnish, calc in pt

← 4099 (-1631)
Sh gy-dk gy-dk grn

Ls cr-tan, vfn-fn xln, dns & firm to subchalky & softer, some salmon colored pcs and fresh chert

Ls wh-cr-tan, vfn-fn xln, dns with some softer chalky pcs, chert: fresh, tan, transl

Sh gy-grn

Ls wh-cr, vfn-fn xln, dns, sli foss in pt

Ls wh-cr-pl gy, fn xln, dns7 & hard to softer & subchalky

Sh black, carb to dk gy

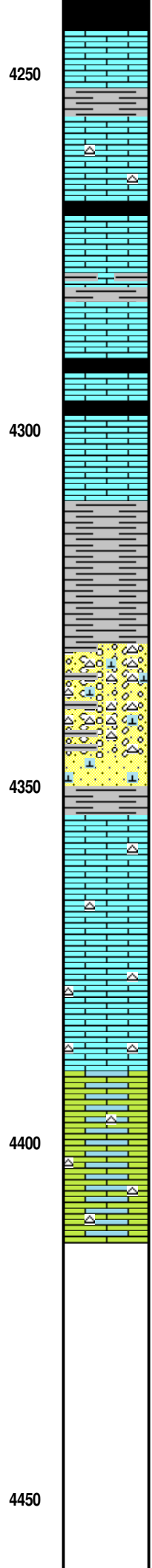
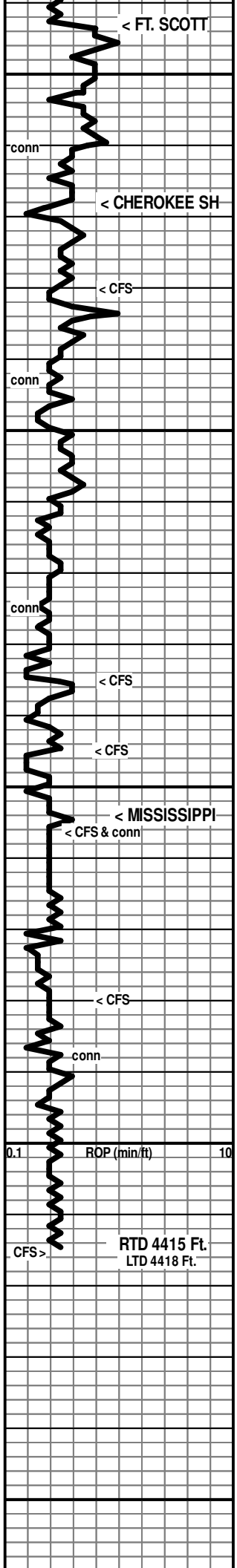
← 4179 (-1711)
Ls wh-cr-tan-pl gy, vfn-fn xln, dns, subgrainy text in pt

Ls wh-cr-tan-pl gy, vfn-fn xln, dns, silty-subgrainy text in pt

Ls wh-cr-tan-pl gy, vfn-fn xln, dns, silty-subgrainy text in pt, some gy to dk gy shales

Ls wh-cr-tan-pl gy, vfn-fn xln, dns, silty-subgrainy text in pt with an incr in dk gy-blk shales

Sh black carb



Sh black, carb

← 4243 (-1775)
 Ls wh-cr-tan, vfn-fn xln, dns with Rr sm patches of pr xln por, subchalky in pt, sli foss in pt
 [No Odor, Rr sm patches of dull fluor with scant trace spotty brn stn, NSFO]
 Ls wh-cr-tan, vfn-fn xln, dns with Rr sm patches of pr xln por, subchalky in pt, sli foss in pt, chert: fresh, tan, transl, foss/spiculitic
 [No Odor, few pcs per tray with scant spotty brn stn, NSFO]

← 4268 (-1800)
 Sh black, carb
 Ls wh-cr-tan, fn xln, subchalky in pt, dns in pt, sli foss in pt

Sh gy-dk gy

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

Sh dk gy-dk grn-black, carb in pt, and Ls as above

Ls wh-cr-tan, fn xln, scatt chalky pcs & patches, mostly dns, foss

Sh gy-grn-reddish, silty & mic text in pt

Sh gy-grn-reddish-yell, silty & mic text in pt, Rr scatt sd grns, pyritic in pt

Sh gy-grn-reddish-yell-lavender, silty & mic text in pt, Rr scatt sd grns, pyritic in pt; loose crs grns, subrd-subang, some fm gm, subang-aubrd, poorly sorted sd clusters-some with chalky cem, some clusters tinted with various colors of shales, some fresh chert, transl; incr in cherts of various colors in cfs, transl to opa, subgmy in pt, foss in greater pt; mod-abund am't of dns Ls in spls, ool in pt

< 4356 'cfs: abund Sd clusters, rd'd clusters to subsharp, pr-fr-gd fri, gd sort, fn gm, subrd grns, white to gy color, scatt glauc specks, pr-gd intergrmlr por; as well as much above

← 4354 (-1886)
 4370' & 4380' spls...60% Shales: red-gy-grn-yell, soft to subfirm, sdy in pt, tr of pyr; 20% Sd as above; 15% Ls cr-tan, fn xln, dns & firm to Subchalky & softer, sdy in pt, ool in pt, foss in pt; 05% fresh cherts, transl-opaq

4380' cfs: 60% Ls wh-cr, mostly fn xln some blocky/md xln, foss; 05% fresh cherts, ool in pt; 25% Shales as above; 10% Sd as above

4400' & 4410' spls: 75% Ls wh-cr-tan, fn xln, possibly sli dolom, chalky-subchalky in pt, dns in pt, pr xln por in pt, foss, scatt glauc stn, abund chert: fresh, wh-cr-tan-orange, transl-opaq foss in pt, 25% shales of various color, sdy in pt, trace of sd from above

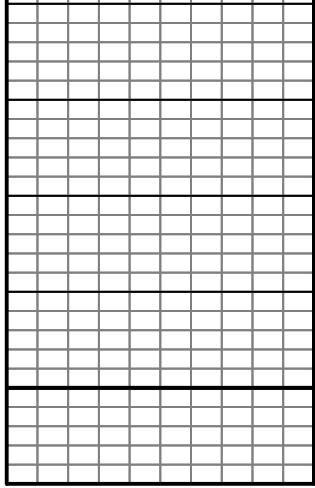
4415' cfs: 80% Ls wh-cr-tan, fn xln, sli incr in dolom text below 4400', chalky-subchalky in pt, dns in pt, pr xln por in pt, Rr pp pores, foss, scatt glauc stn, abund chert: fresh, wh-cr-tan-orange, transl-opaq foss in pt, 20% shales of various color, sdy in pt, trace of sd from above

7:00 AM, March 27, 2019

Mud Check: Drlg @ 4317:

Vis	Wt	WL	LCM	PV	YP
59	9.4	7.8	2	18	29
Chi	Hd	pH	Solids		
3500	20	10.5	7.7		

RTD 4415 Ft. at 5:30 PM, March 27, 2019



4500





HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
CARMEN SCHMITT INC
PO BOX 47
GREAT BEND, KS 67530-0047

Invoice Date: 3/21/2019
Invoice #: 0340979
Lease Name: Betty
Well #: 2 (New)
County: Gove
Job Number: ICT1854

Date/Description	HRS/QTY	Rate	Total
Surface-New well	0.000	0.000	0.00
Heavy Eq Mileage	110.000	3.400	374.00
Light Eq Mileage	65.000	1.438	93.50
Ton Mileage	530.000	1.275	675.75
Cement pump #231	1.000	637.500	637.50
H-325	195.000	17.000	3,315.00

7/10/43
19574.0002
Well File
Surface Cement

Total 5,095.75

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



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



Invoice

DATE	INVOICE #
3/28/2019	27496

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

- Acidizing
- Cement
- Tool Rental

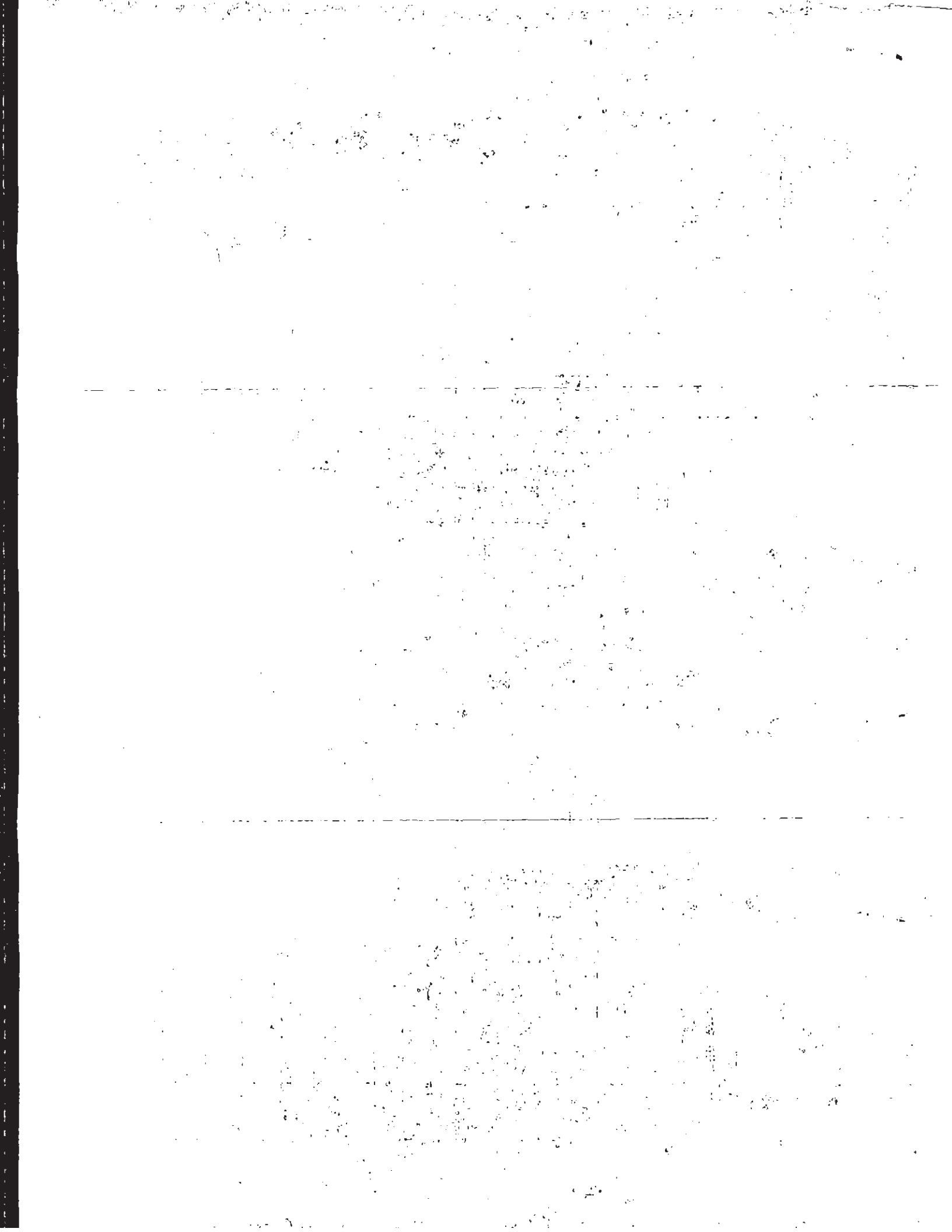
TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3	Betty	Gove	Murfin Drlg Rig #8	Oil	Development	Long String	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	5.00	300.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString				1	Job	1,800.00	1,800.00
290	D-Air				5	Gallon(s)	42.00	210.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
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
330	Swift Multi-Density Standard (MIDCON II)				450	Sacks	16.25	7,312.50T
325	Standard Cement				150	Sacks	13.00	1,950.00T
284	Calseal				7	Sack(s)	35.00	245.00T
283	Salt				800	Lb(s)	0.20	160.00T
292	Halad 322				75	Lb(s)	8.00	600.00T
276	Flocele				150	Lb(s)	2.50	375.00T
581D	Service Charge Cement				600	Sacks	1.75	1,050.00
583D	Drayage				1,815.18	Ton Miles	0.85	1,542.90
	Subtotal							18,445.40
	Sales Tax Gove County						8.50%	1,168.96

7/10/43
19574.0003
Well Rite
Cement Long string

We Appreciate Your Business!

Total

\$19,614.36





CHARGE TO: *Carmen Schmitt Inc.*
 ADDRESS:
 CITY, STATE, ZIP CODE:

1. SERVICE LOCATIONS <i>Hays, KS</i>	WELL/PROJECT NO. <i>#3</i>	LEASE <i>Betty</i>	COUNTY/PARISH <i>Goose</i>	STATE <i>KS</i>	CITY
2. <i>Ness City, KS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Murkin Drilling</i>	RIG NAME/NO. <i>Rig 8</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>Location</i>
3.	WELL TYPE <i>Oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Long String</i>	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 # 113	60	mi	
579		1			Pump Charge - Top to Bottom Long String	1	EA	
290		1			D-Air	5	gal	
281		1			Mud Flush	500	gal	
221		1			Liquid KCL	2	gal	
402		1			Centralizers	10	EA	5 1/2"
403		1			Cement Basket	3	EA	
406		1			Latch Down Plug & Baffle	1	EA	
407		1			Insert float shoe w/Autofill	1	EA	

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 _____ TIME SIGNED _____
 A.M.
 P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED
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 listed on this invoice.

SWIFT OPERATOR _____

APPROVAL _____



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

TICKET CONTINUATION

CUSTOMER <i>Carmen Schmitt Inc</i>	WELL <i>Betty #3</i>
---------------------------------------	-------------------------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	U/M	QTY	U/M
		LOC	ACCT	DF						
330		2				450	SKS	44781	18	
325		2				150	SKS	15725	18	
284		2				7	SRS			
283		2				800	lbs			
292		2				75	lbs			
276		2				150	lbs			
581		2				SERVICE CHARGE <i>Cement</i>		CUBIC FEET <i>6000 SKS</i>		
583		2				MILEAGE CHARGE	TOTAL WEIGHT <i>60506</i>	LOADED MILES <i>60</i>	TON MILES <i>1815.18</i>	

CO

JOB LOG

SWIFT Services, Inc.

DATE 03/28/19 PAGE NO. 1

CUSTOMER *Carmen Schmitt Inc* WELL NO. *#3* LEASE *Betty* JOB TYPE *Long String* TICKET NO. *27496*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0820							On location w/float Equipment Rig Changing Over
								RTD - 4415' LTD - 4418' 100 Joints of 5 1/2" x 14# - 4208' Shoe IT - 42.4, Baffle - 4165.6' Baskets - 2, 32, 54 Centralizers - 4, 6, 8, 10, 12, 14, 16, 18, 20, + 53
	0915							Start Casing w/float Equipment
	1130							Break Circulation on Bottom
	1238							Hook up to Swift
		2	8					Plug RatHole w/30 SKS SMD
		2	5					Plug Mouse hole w/15 SKS SMD
		5	12			400		Pump Mudflush
		5	20			400		Pump KLL spacer
	1255	6				400		Start SMD @ 11.2 ppg
	1255	6	224			300		Finish SMD, start EA-2 @ 15.5 ppg
	1335	10	260			Vac		Fin Cmt.
	1340							Drop Plug, Washout Pump + Lines.
	1345	7 1/2				Vac		Start Displacement
		7 1/2	55			580		Catch Pressure
	1400	6 1/4	102			1200/2000		Land Plug List PSI 1200# Land PSI 2000#
	1405							Release Truck, Dry
								Wash up
	1420							Back up
								Circulated Cmt to Surface
	1430							Job Complete
								Thanks Jon, Austin, Shane, Isaac