



Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West      County: \_\_\_\_\_

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto: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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
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:					

<div style="text-align: center;"> <b>CASING RECORD</b>      <input type="checkbox"/> New    <input type="checkbox"/> Used            Report all strings set-conductor, surface, intermediate, production, etc.         </div>							
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 (Explain) _____			
Estimated Production Per 24 Hours	Oil      Bbls.	Gas      Mcf	Water	Bbls.	Gas-Oil Ratio      Gravity

<p><b>DISPOSITION OF GAS:</b></p> <p><input type="checkbox"/> Vented    <input type="checkbox"/> Sold    <input type="checkbox"/> Used on Lease</p> <p>(If vented, Submit ACO-18.)</p>	<p><b>METHOD OF COMPLETION:</b></p> <p><input type="checkbox"/> Open Hole    <input type="checkbox"/> Perf.    <input type="checkbox"/> Dually Comp.    <input type="checkbox"/> Commingled</p> <p>(Submit ACO-5)                  (Submit ACO-4)</p>	<b>PRODUCTION INTERVAL:</b>	
		Top	Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	OELKERS FAMILY TRUST 1
Doc ID	1408369

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	1105	60-40POZ	425	2%gel,4% CC

**JAMES C. MUSGROVE**

Petroleum Geologist, LLC  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 786-0839

Mai Oil Operations  
Oelkers Family Trust #1  
W/2-SW-SE-SE (330' FSL & 1131' FEL)  
Section 19-16s-19w  
Rush County, Kansas

Page 1

**Dry and Abandoned**

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** April 5, 2018  
**Completed:** April 11, 2018  
**Elevation:** 2090' K.B., 2088' D.F., 2082' G.L.  
**Casing program:** Surface; 8 5/8" @ 1105'  
Production, 5 1/2" @ none  
**Sample:** Samples saved and examined 3300' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 3300' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were one (1) Drill Stem Test ran by Trilobite Testing Co.  
**Electric Log:** None

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1341	+747
Base Anhydrite	1368	+722
Heebner	3417	-1327
Toronto	3436	-1346
Lansing	3463	-1373
Base Kansas City	3724	-1634
Marmaton	3766	-1676
Arbuckle	3831	-1744
Rotary Total Depth	3850	-1760

(All tops and zone(s) determinations were made from a correlation of Drilling Time Log and Sample Analysis

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**



**TOPEKA SECTION**

- 3327-3360' Limestone, tan, gray, finely crystalline, granular; highly chalky; few fossiliferous; poor to fair porosity; no shows.
- 3366-3386' Limestone, tan, gray, fossiliferous; few granular, poor visible porosity; trace brown stain; no free oil and no odor in fresh samples.

**TORONTO SECTION**

- 3336-3346' Limestone, white; cream, finely crystalline, finely oolitic, poor visible porosity, chalky; no shows.

**LANSING SECTION**

- 3463-3468' Limestone, cream, tan; finely crystalline, fossiliferous/oolitic, poor visible porosity; no shows.
- 3486-3494' Limestone, tan, brown, fossiliferous, granular, few oomoldic, chalky, scattered vuggy and oomoldic type porosity, light brown and golden brown stain, trace gas bubble, good show of free oil and fair odor n fresh samples.

**Drill Stem Test #1** **3470-3500**

**Times:** 30-30-45-45

**Blow:** Weak

**Recovery:** 5' mud

<b>Pressures:</b>	<b>ISIP</b>	<b>35</b>	<b>psi</b>
	<b>FSIP</b>	<b>23</b>	<b>psi</b>
	<b>IFP</b>	<b>11-13</b>	<b>psi</b>
	<b>FFP</b>	<b>14-23</b>	<b>psi</b>
	<b>HSH</b>	<b>1683-1642</b>	<b>psi</b>

- 3506-3516' Limestone, white, fossiliferous; chalky in part, poorly developed porosity, no shows.
- 3534-3539' Limestone, cream, white, oolitic, chalky; no shows, plus; white oolitic chert.
- 3544-3549' Limestone, tan, oolitic, scattered porosity, chalky; no shows.
- 3558-3567' Limestone, tan, oolitic, oomoldic, chalky, fair oomoldic porosity (barren)
- 3598-3608' Limestone, white, cream, oolitic/fossiliferous, poor scattered pinpoint type porosity, plus trace tan chert, no shows.
- 3630-3640' Limestone, white, cream, fossiliferous; highly chalky; poor visible porosity, trace brown stain, no free oil and no odor in fresh sample.
- 3650-3663' Limestone, tan, brown; oomoldic, chalky, good oomoldic porosity; no shows (barren)

Mai Oil Operations  
Oelkers Family Trust #1  
W/2-SW-SE-SE (330' FSL & 1131' FEL)  
Section 19-16s-19w  
Rush County, Kansas

Page 3

3675-3684'	Limestone, white, cream, finely crystalline, few fossiliferous, poorly developed porosity, no shows.
3700-3714'	Limestone, tan, buff, oomoldic; good oomoldic porosity, trace stain; trace of free oil and no odor in fresh samples.

#### **MARMATON SECTION**

3766-3780'	Limestone, white, cream, finely crystalline, dense, no shows.
3780-3796'	Limestone, cream to white, finely crystalline, few fossiliferous, plus white boney opaque chert; no shows.

#### **CONGLOMERATE SECTION**

3806-3823'	Varied colored shales; plus varied colored cherts and trace sand, white, clear; quartzitic, sub-rounded; well sorted, no shows.
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#### **REWORKED ARBUCKLE SECTION**

3823-3834'	Dolomite, white, cream, finely crystalline, sucrosic, weathered; plus varied colored cherts and shales, no shows
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#### **ARBUCKLE SECTION**

3834-3850'	Dolomite, cream, gray, finely crystalline, poor inter-crystalline porosity; trace black dead stain; no free oil and no odor in fresh samples.
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**Rotary Total Depth      3850 -1760**

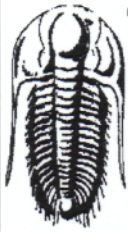
#### **Recommendations:**

The Mai Oil Operations, Inc., Oelkers Family Trust #1, was plugged and abandoned at the Rotary Total Depth 3850 -1760.

Respectfully yours,

  
Wyatt Urban  
Petroleum Geologist





TRILOBITE  
TESTING, INC.

## DRILL STEM TEST REPORT

Mai Oil Operations, Inc.

8411 Preston Rd. Ste. 800  
Dallas, TX 75225

ATTN: Wyatt Urban

Oelkers Family Trust #1

19-16S-19W Rush, KS

Job Ticket: 63428

DST#: 1

Test Start: 2018.04.10 @ 00:45:41

### GENERAL INFORMATION:

Formation: LKC "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:46:11

Time Test Ended: 06:31:11

Interval: 3470.00 ft (KB) To 3500.00 ft (KB) (TVD)

Total Depth: 3500.00 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: 2090.00 ft (KB)

2082.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6753

Outside

Press@RunDepth: 14.09 psig @ 3471.00 ft (KB)

Start Date: 2018.04.10

End Date:

2018.04.10

Start Time: 00:45:46

End Time:

06:31:10

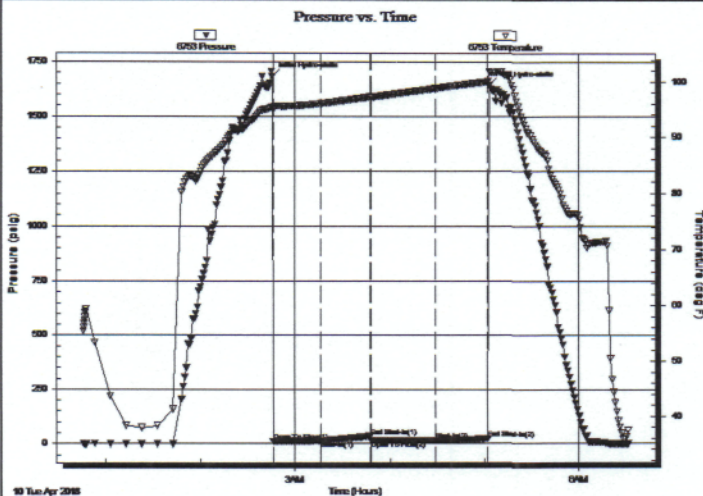
Capacity: 8000.00 psig

Last Calib.: 2018.04.10

Time On Btm: 2018.04.10 @ 02:45:41

Time Off Btm: 2018.04.10 @ 05:03:11

TEST COMMENT: 30- IF- Slow ly built to 1/2"  
30- IS- No blow  
45- FF- Very weak surface blow  
30- FS- No blow



### PRESSURE SUMMARY

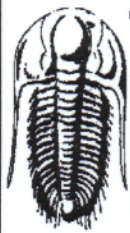
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.88	95.40	Initial Hydro-static
1	11.25	94.93	Open To Flow (1)
31	13.29	96.02	Shut-In(1)
62	34.85	97.23	End Shut-In(1)
63	13.56	97.20	Open To Flow (2)
103	14.09	98.78	Shut-In(2)
136	22.86	99.99	End Shut-In(2)
138	1642.01	101.74	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	M	0.07

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### TOOL DIAGRAM

Mai Oil Operations, Inc.

## Oelkers Family Trust #1

8411 Preston Rd. Ste. 800  
Dallas, TX 75225

**19-16S-19W Rush,KS**

Job Ticket: 63428

DST#: 1

ATTN: Wyatt Urban

Test Start: 2018.04.10 @ 00:45:41

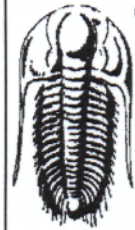
### Tool Information

Drill Pipe:	Length:	3458.00 ft	Diameter:	3.82 inches	Volume:	49.02 bbl
Heavy Wt. Pipe:	Length:	ft	Diameter:	inches	Volume:	- bbl
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl
					Total Volume:	- bbl
Drill Pipe Above KB:	8.00 ft					
Depth to Top Packer:	3470.00 ft					
Depth to Bottom Packer:	ft					
Interval between Packers:	30.00 ft					
Tool Length:	50.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Weight:	2000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	37000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	33000.00 lb
Final	34000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3451.00	
Shut In Tool	5.00			3456.00	
Hydraulic tool	5.00			3461.00	
Packer	5.00			3466.00	20.00
Packer	4.00			3470.00	
Stubb	1.00			3471.00	
Recorder	0.00	6771	Inside	3471.00	
Recorder	0.00	6753	Outside	3471.00	
Perforations	26.00			3497.00	
Bullnose	3.00			3500.00	30.00
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations, Inc.  
  
8411 Preston Rd. Ste. 800  
Dallas, TX 75225  
  
ATTN: Wyatt Urban

**Oelkers Family Trust #1**  
  
**19-16S-19W Rush,KS**  
  
Job Ticket: 63428      **DST#: 1**  
  
Test Start: 2018.04.10 @ 00:45:41

**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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	inches				

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.071

Total Length:	5.00 ft	Total Volume:	0.071 bbl	
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:
Laboratory Name:		Laboratory Location:		
Recovery Comments:				

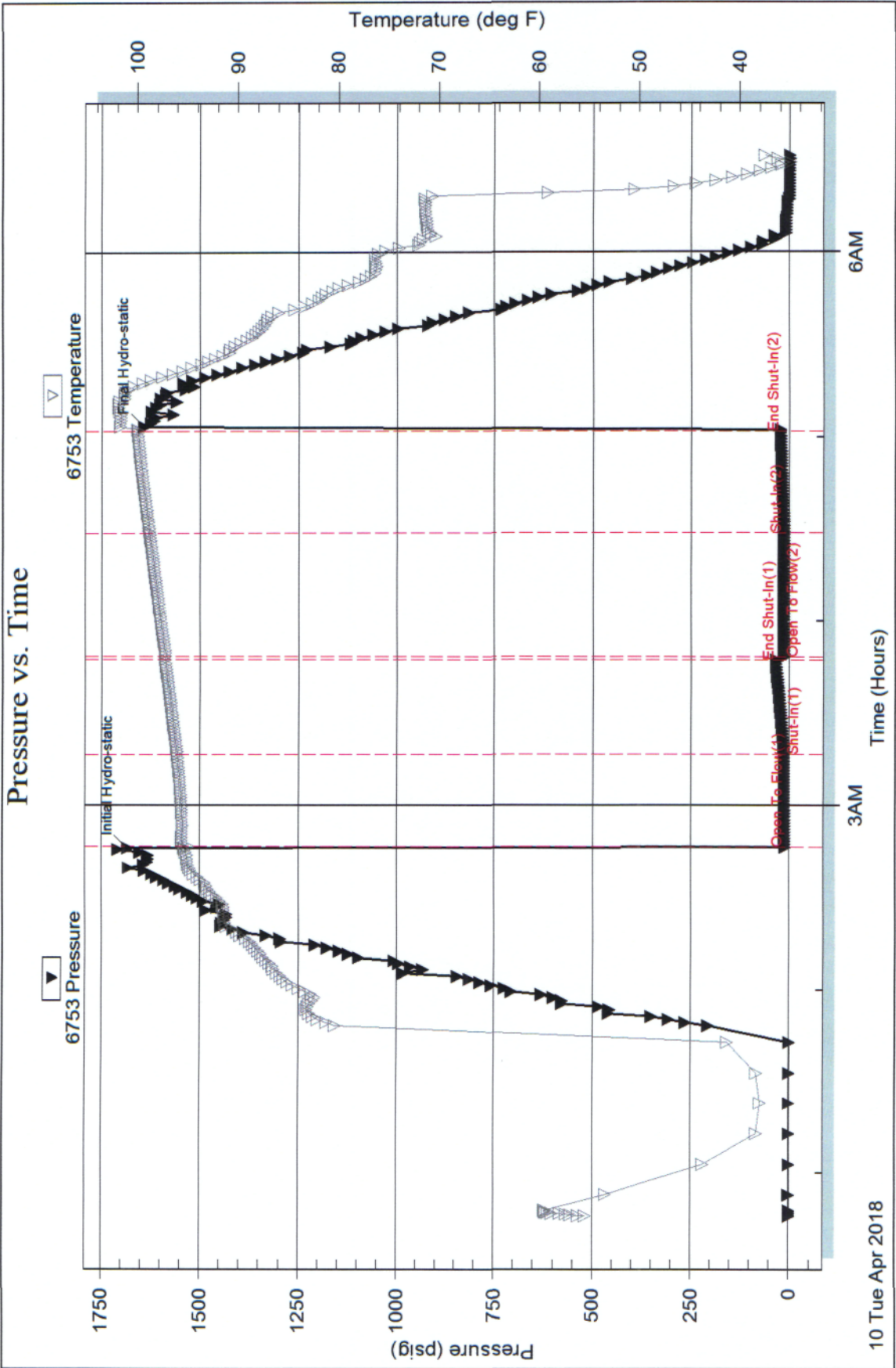


Serial #: 6753

Outside Mai Oil Operations, Inc.

19-16S-19W Rush, KS

DST Test Number: 1





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No.

740

Cell 785-324-1041

Date	4-10-18	Sec.	19	Twp.	16	Range	19	County	Rush	State	KS	On Location		Finish	8:30pm
Lease								Oelkers Trust		Well No.		1			
Contractor								Southwind #3		Owner		To Quality Oilwell Cementing, Inc.			
Type Job								Surface		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size								12 1/4		T.D.		1105			
Csg.								8 5/8		Depth		1105			
Tbg. Size										Depth					
Tool										Depth					
Cement Left in Csg.								40		Shoe Joint		40			
Meas Line										Displace		67 3/4 BBL			
EQUIPMENT										Common					
Pumptrk								16		No. Cementer		Craig			
										Helper					
Bulktrk										No. Driver		Trev			
										Driver					
Bulktrk								21		No. Driver		Brett			
										Driver					
JOB SERVICES & REMARKS										Hulls					
Remarks:										Salt					
Rat Hole										Flowseal					
Mouse Hole										Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
8 5/8 on bottom. For Circulation										Handling					
Mix 425361 Displace Plug										Mileage					
Cement Circulated										FLOAT EQUIPMENT		8 5/8			
										Guide Shoe		Rubber Plug			
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge					
										Mileage					
										Tax					
										Discount					
X Signature								Judy Idrien		Total Charge					