

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1262970
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1262970

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 Yes No
(Attach Additional Sheets)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No

Log Formation (Top), Depth and Datum Sample
Name Top Datum

List All E. Logs Run:

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3)
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No (If No, skip question 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)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

For: H&D Exploration

RIG No. 3

Well Name: R&R Unit #2
 Location: 1619' FSL & 1832' FEL
 Section: 30-15S-14W
 County: Russell
 API: 15-167-24033-00-00

Elevation: GL 1891'
 KB 1899'
 Est. TD: 3400'
 Conductor Pipe: N/A

Rig No. 3 (Pusher Jay Krier) 620 617-4477
 Rig No. 3 (Doghouse) 620 566-7104
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 21 joints of new 2 3/8", 8 6/8" casing, Tally @ 904.73', Set @ 914', used 350 sacks of 60/40 Poz, 3% cc, 2% gel, cement circulated, by Quality (Ticket #1441), plug down @ 3:15 am on 08.06.15.

Production Casing: Ran 85 joints of new 15.5#, 5 1/2" casing, Tally @ 3448.57', Set @ 3457', used 180 sacks of 60/40 Poz, 10% salt, 5% Gilsonite, cemented, by Quality (Ticket #1485), Job complete @ 6:15 pm on 08.10.15.

Rotary Total Depth: 3460'

Geologist: Jim Musgrove

Log Total Depth: 3460'

7:00 A.M. Depth: 3460'

7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	08/04/15	08/05/15	08/06/15	08/07/15	08/08/15	08/09/15	08/10/15	08/11/15	Total
08/04/2015 @ 9:15 AM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	
Total Depth (7:00am)	0	914	2020	2815	3300	3330	3450	3460	3460
Daily Progress	914	1106	796	485	30	130	0		51.26
Ft. Per Hr.	96.21	83.47	40.77	25.53	20.00	27.37	#DIV/0!	#DIV/0!	
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	Drilling	TOWT	Logging	Tear Down	
Formation	Surface	Surface	Lime / Shale	Lime / Shale	Lime / Shale	LKC	Arbuckle		
Fuel Used (39 Gall/Inch)	351.00	273.00	390.00	468.00	156.00	234.00	195.00		2067.00
Survey (degree & depth)	1/4" @ 914'				1" @ 3300'				
Mud Cost	\$0.00	\$0.00	\$0.00	\$5,832.90	\$0.00	\$0.00	\$0.00		\$5,832.90
Weight (# / Gal)				9.3					
Vis (Funnel)				57					
Water Loss (cc)									
Bit #1									
Bit Make / Type	Reed A								
Bit Size	12 1/4								
Bit Hours	9.50								9.50
Bit #2									
Bit Make / Type		Reed S52P	Reed S52P	Reed S52P	Reed S52P	Reed S52P			
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8			
Bit Hours		13.25	19.50	19.00	1.50	4.75			58.00
Bit Cumulative Hours	9.50	13.25	19.50	19.00	1.50	4.75	0.00	0.00	67.50
Weight on Bit (WOB)	15,000	30,000	30,000	30,000	30,000	30,000			
RPM	120	80	80	80	80	80			
Pump Pressure	500	850	850	950	830	800			
Drilling (Rotating) Hours	9.50	13.25	19.50	19.00	1.50	4.75	0.00	0.00	67.50
Daywork Hrs. (Operator's time)									
Rat Hole (>.75 Hrs)	1.00								1.00
Wait on Cement									0.00
Weather									0.00
Short Trip					2.00				2.00
Trip					7.75	9.50	1.00		18.25
Circulate			1.25	3.50	4.00	6.50	1.00		16.25
Tool					2.25	0.75			3.00
Testing					6.25				6.25
Clean Floor after DST									0.00
Logging						2.50	2.00		4.50
Nipple Down / Jet Cellar							1.00		1.00
LDDP / LDDC							3.00		3.00
Run Casing / Circ / Cement	4.00						3.25		7.25
Set Slips							0.50		0.50
Lost Circulation (> 2 hrs)									0.00
Billable Hours	5.00	0.00	1.25	3.50	22.25	19.25	11.75	0.00	63.00
Non-Billable Hours (Southwind's time)									
Rig Up / Tear Down	0.50						4.25		4.75
Wait on Cement (NB)	3.75	0.25							10.00
Drill Rat Hole (<.75 hrs)	0.75								0.75
Drill Plug		1.00							1.00
Circulate / Trip (Surface)	1.25								1.25
Rig Repair		0.50							0.50
Connections	3.25	2.25	2.00	1.50					9.00
Jet/Displace		0.75	1.25						2.00
Surveys					0.25				0.25
Rig Check									0.00
Lost Circulation (< 2 hrs)									0.00
Lay Down Kelly / MH & RH									0.00
Non-Billable Hrs.	9.50	10.75	3.25	1.50	0.25	0.00	4.25	0.00	29.50
Footage Cost	\$ 10,968.00	\$ 13,272.00	\$ 9,540.00	\$ 5,820.00	\$ 360.00	\$ 1,560.00	\$ -	\$ -	\$ 41,520.00
Daywork Cost	\$ 1,500.00	\$ -	\$ 375.00	\$ 1,050.00	\$ 6,675.00	\$ 5,775.00	\$ 3,525.00	\$ -	\$ 18,900.00
Combined Est. Cost*	\$ 12,468.00	\$ 13,272.00	\$ 9,915.00	\$ 6,870.00	\$ 7,035.00	\$ 7,335.00	\$ 3,525.00	\$ -	\$ 60,420.00

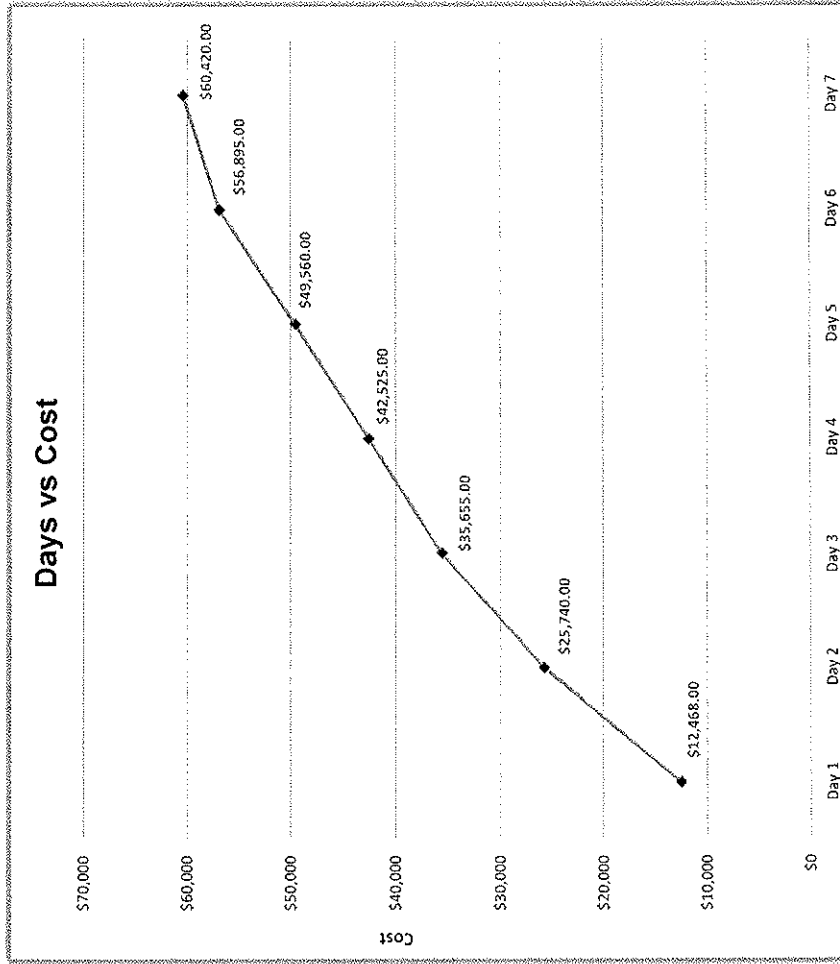
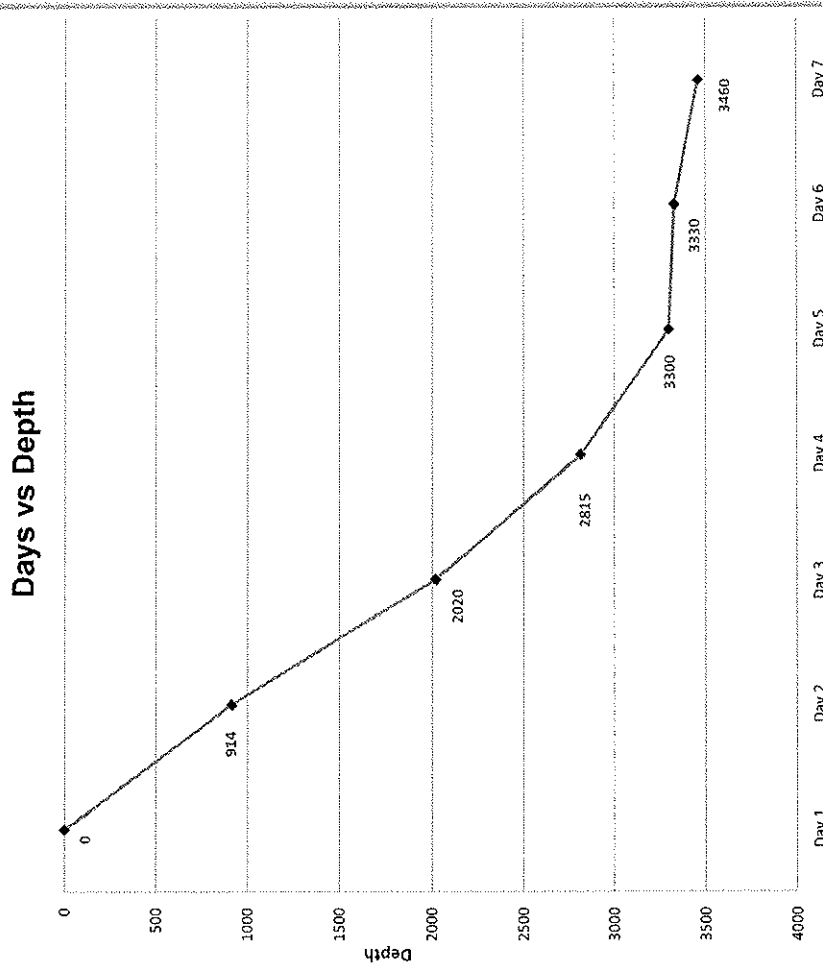
*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

<p>DST #1 Info -</p> <p>Footage Interval: 3250' - 3300' LKC "J"</p> <p>Recovery: 744' Gas in Pipe 27' Clean Oil 60' Oil Cut Mud</p>		<p>DST #2 Info -</p> <p>Footage Interval: 3300' - 3330' LKC "K"</p> <p>Recovery: 3' Oil 54' Gassy Oil Cut Mud</p>	
<p>DST #3 Info -</p> <p>Footage Interval: 350' - 3400' "Arbuckle"</p> <p>Recovery: Packer Failure</p>		<p>DST #4 Info -</p> <p>Footage Interval:</p> <p>Recovery:</p>	



Job Summary Graphical Report

Southwind Rig No. 3
R&R Unit #2



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1441

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-5-15	30	15	14	Russell	KS		3:15 AM

Lease B&R UNIT Well No. 2 Location Milberger, 1/2w, N 2

Contractor Southwind 3 Owner To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Surface Charge To HD Exploration

Hole Size 12 1/4 T.D. 914 Street _____ City _____ State _____

Csg. 8 3/8 Depth 914 The above was done to satisfaction and supervision of owner agent or contractor.

Tbg. Size _____ Depth _____ Cement Amount Ordered 350 syx 6 1/4, 3%cc, 2%gel

Tool _____ Depth _____ Cement Left in Csg. _____ Shoe Joint 20

Cement Left in Csg. _____ Shoe Joint _____ Meas Line _____ Displace 56 1/2 bbl

EQUIPMENT			Common
Pumptrk	No.	Cementor	<u>210</u>
		Helper <u>Nick</u>	Poz. Mix <u>140</u>
Bulktrk	No.	Driver <u>Billy</u>	Gel. <u>7</u>
Bulktrk	No.	Driver <u>Travis</u>	Calcium <u>13</u>

JOB SERVICES & REMARKS
Remarks: Cement did circulate.

Rat Hole _____ Hulls _____

Mouse Hole _____ Salt _____

Centralizers _____ Flowseal _____

Baskets _____ Kol-Seal _____

D/V or Port Collar _____ Mud CLR 48 _____

Handling 360 CFL-117 or CD110 CAF 38 _____

Mileage _____ Sand _____

Mileage _____ Handling 360 _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

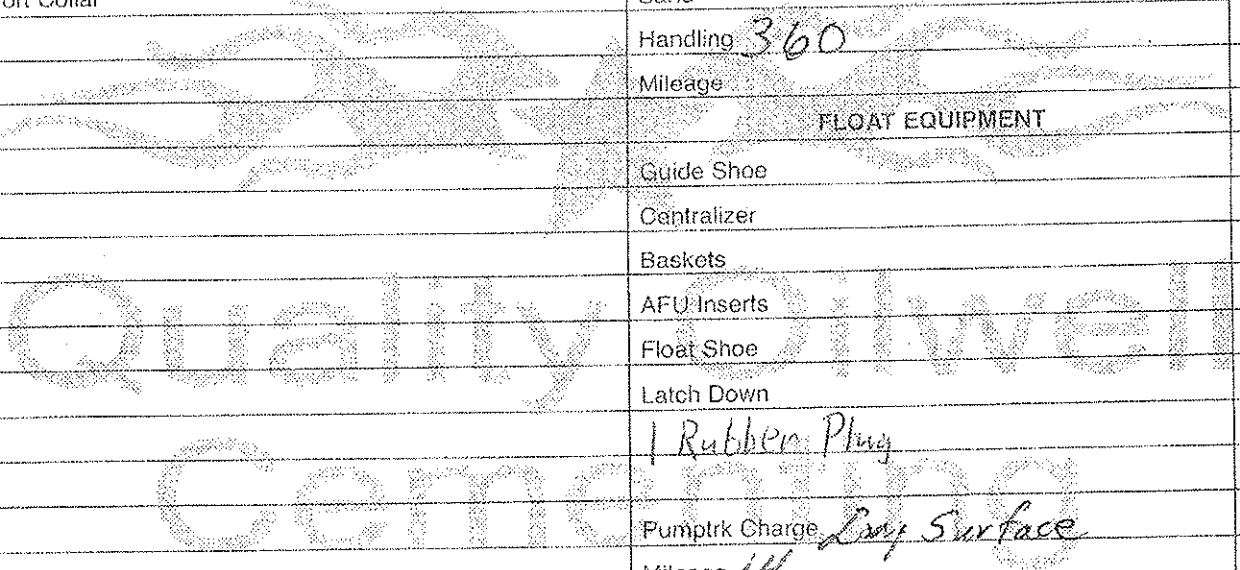
Mileage _____ Mileage _____

Mileage _____ Mileage _____

Mileage _____ Mileage _____

X Signature Jay Street

Tax _____
Discount _____
Total Charge _____



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1485

Date	8-10-15	Sec.	30	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	6:15pm
Location								Milberger 1/2w N. into							

Lease R & R Unit Well No. 2 Owner _____

Contractor Southwind #3 To Quality Oilwell Cementing, Inc.
Type Job Production String 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 7 7/8 T.D. 3460 Charge To H. #1 Exploration

Csg. 5 1/2 15.50 Depth 3457 Street _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 15' Shoe Joint 15' Cement Amount Ordered 180 10/Salt 5/Gilsonite

Meas Line _____ Displace 82.3L 500gal mud Clear 20.3L KCL

EQUIPMENT
Pumptrk 18 No. Cementer/Helper Craig Poz. Mix 20

Bulktrk _____ No. Driver Brett Gel. _____

Bulktrk 3 No. Driver David Calcium _____

JOB SERVICES & REMARKS Halls KCL 2 gal

Remarks: Salt 14

Rat Hole 30SK Flowseal _____

Mouse Hole _____ Kol-Seal 700#

Centralizers _____ Mud CLR 48 500 gal

Baskets _____ CFL-117 or CD110 CAF 38

D/V or Port Collar _____ Sand _____

5 1/2 set 3457 Insert @ 3442 Handling 20!

Est. Circulation Pump 500gal Mileage _____

4 10 BLS Spacer Plug Rathole 30SK **FLOAT EQUIPMENT**

Cement 5 1/2 with 150SK Guide Shoe 5 1/2

350SK scavenger Cement. Centralizer 8 Turbols

Clear lines & Displace Plug. Baskets 1

LA Pressure 800# AFU Inserts _____

Plug land'g 1500# Float Shoe 1

Signature [Signature] Latch Down 1

Pumptrk Charge prod string
Mileage 14
Tax _____
Discount _____
Total Charge _____