



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211974
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: _____

1211974

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 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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Martin Dietz 2
Doc ID	1211974

Tops

Name	Top	Datum
Anhydrite	822	+1010
Tarkio Lime	2463	-631
Topeka	2728	-896
Heebner	2956	-1124
Toronto	2973	-1141
Lansing	3015	-1183
Base Kansas City	3226	-1394
Arbuckle		

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Martin Dietz #2
NW-NE-SW-NW (1475' FNL & 700' FWL)
Section 9-15s-14w
Russell County, Kansas

Page 1

Dry and Abandoned

Contractor: Southwind Drilling Co. (rig #3)
Commenced: May 14, 2014
Completed: May 19, 2014
Elevation: 1832' K.B., 1830' D.F., 1824' G.L.
Casing program: Surface; 8 5/8" @ 516'
Production, none
Sample: Samples saved and examined 2200' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2200 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were three (3) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: -None-

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	822	+1010
Base Anhydrite	851	+981
Grand Haven	2391	-559
1 st Tarkio Sand	2404	-572
Dover	2418	-586
2 nd Tarkio Sand	2430	-598
Tarkio Lime	2463	-631
Elmont	2536	-704
Howard	2663	-831
Topeka	2728	-896
Heebner	2956	-1124
Toronto	2973	-1141
Lansing	3015	-1183
Base Kansas City (Mai)	3226	-1394
Arbuckle	3264	-1432
Rotary Total Depth	3275	-1443

All tops and zones determinations were made from a correlation of Drilling Time Log and Sample Analysis.

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

1ST TARKIO SAND

2404-2414' Sand, gray, grayish green; very fine granular; few friable; poorly developed porosity, trace brown stain; trace of free oil; no odor in fresh samples.

2nd TARKIO SAND

2430-2443' Sand; gray, tan; very fine grained; "silty", poorly developed; trace light brown stain, trace of free oil and no odor in fresh samples.

Drill Stem Test #1 2394-2448

Times: 30-30-45-60

Blow: Fair (6")

Recovery: 126' slightly oil cut muddy water
(5% oil; 35% mud; 60% water)
55' mud; trace of water
(1% water; 99% mud)

Pressures: ISIP 553 psi
FSIP 566 psi
IFP 37-85 psi
FFP 87-108 psi
HSH 1174-1104 psi

TOPEKA SECTION

2910-2922' Limestone; white/cream, finely crystalline, fossiliferous, poor pinpoint to inter-crystalline porosity, chalky, dark brown stain, no show of free oil and no odor.

TORONTO SECTION

2973-2980' Limestone, white, light gray, finely crystalline, chalky; poor scattered porosity, trace of stain, no free oil and no odor.

LANSING SECTION

3020-3026' Limestone, white, light gray, oolitic, chalky, poor developed pinpoint and inter-crystalline type porosity, light brown stain, trace of free oil and fair odor in fresh samples.

3038-3044' Limestone, white, cream, finely crystalline, oolitic; chalky; poor porosity, no shows.

3057-3062' Limestone, white, light gray, finely crystalline, scattered sub-oomoldic to fair oomoldic porosity; light brown and golden brown stain, trace of free oil and faint order in fresh samples.

3080-3084' Limestone, cream, tan, finely crystalline, oolitic, chalky and spotty stain, no show of free oil and no odor in samples.

Drill Stem Test #2 **3019-3085**

Times: 30-30-30-30

Blow: Weak

Recovery: 10' mud

Pressures: ISIP 315 psi
FSIP 171 psi
IFP 32-33 psi
FFP 34-35 psi
HSH 1540-1450 psi

3115-3120' Limestone; white, gray, finely crystalline, chalky; spotty stain, no show of free oil and no odor, plus white/cream chert.

3120-3132' Limestone, white/cream, finely crystalline, oolitic, scattered inter-crystalline and sub oomoldic porosity, chalky, trace spotty stain, no show of free oil and no odor in fresh samples.

3141-3150' Limestone, white cream finely crystalline, oomoldic in part; chalky; trace of stain, no free oil and no odor.

3166-3174' Limestone, white, gray, sub-oomoldic, poorly developed porosity, chalky, no shows.

3182-3186' Limestone, cream, tan, finely crystalline, fair oolitic, dense.

3206-3216' Limestone, tan, cream, finely crystalline, chalky in part, dense; poor visible porosity, no shows.

ARBUCKLE SECTION

3264-3275' Dolomite, white, cream, fine to medium crystalline, fair inter-crystalline porosity, golden brown to dark brown stain, show of free oil and good odor in fresh samples



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil
 8411 Preston Rd.
 Dallas TX 75225
 ATTN: Kurt talbott

9-15s-14w Russell,KS
Martin Dietz #2
 Job Ticket: 55278 **DST#: 3**
 Test Start: 2014.05.19 @ 08:16:00

GENERAL INFORMATION:

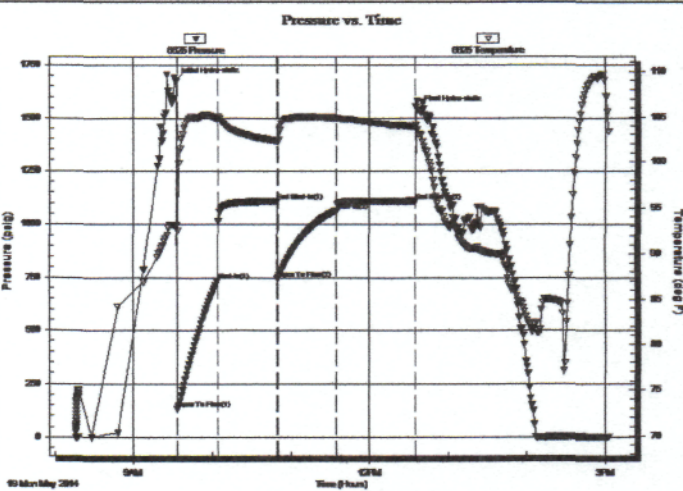
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:30
 Time Test Ended: 15:03:00
 Interval: **3212.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 67
 Reference Elevations: 1832.00 ft (KB)
 1824.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625

Outside

Press@RunDepth: 1064.26 psig @ 3247.00 ft (KB)
 Start Date: 2014.05.19 End Date: 2014.05.19
 Start Time: 08:16:01 End Time: 15:03:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.05.19
 Time On Btmr: 2014.05.19 @ 09:32:00
 Time Off Btmr: 2014.05.19 @ 12:37:30

TEST COMMENT: IF - 30 - BOB in 2 min
 I.S.I - 45 - No blow back
 F.F. - 45 - BOB in 1 min
 F.S.I - 60 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.96	93.07	Initial Hydro-static
2	131.51	92.45	Open To Flow (1)
32	736.12	104.81	Shut-In(1)
78	1107.50	102.34	End Shut-In(1)
78	744.09	102.25	Open To Flow (2)
123	1064.26	104.91	Shut-In(2)
183	1108.94	103.88	End Shut-In(2)
186	1540.84	103.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2502.00	H,M,C,W, 20%M 80%W	35.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil
8411 Preston Rd.
Dallas TX 75225
ATTN: Kurt talbott

9-15s-14w Russell,KS
Martin Dietz #2
Job Ticket: 55277 **DST#: 2**
Test Start: 2014.05.18 @ 14:30:00

GENERAL INFORMATION:

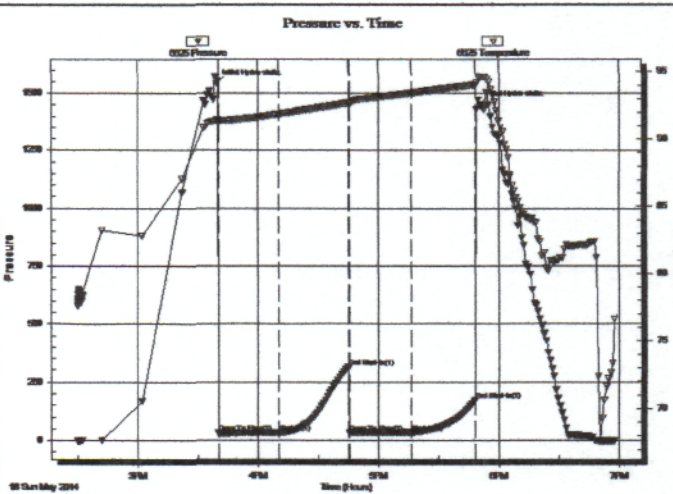
Formation: **LKC "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:40:00
Time Test Ended: 18:57:30
Interval: **3019.00 ft (KB) To 3085.00 ft (KB) (TVD)**
Total Depth: 3085.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 67
Reference Elevations: 1832.00 ft (KB)
1824.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6625

Outside

Press@RunDepth: 35.07 psig @ 3053.00 ft (KB)
Start Date: 2014.05.18 End Date: 2014.05.18
Start Time: 14:30:01 End Time: 18:57:30
Capacity: 8000.00 psig
Last Calib.: 2014.05.18
Time On Btmr: 2014.05.18 @ 15:39:00
Time Off Btmr: 2014.05.18 @ 17:50:30

TEST COMMENT: I.F. - 30 - Weak surface blow throughout
I.S.I - 30 - No blow back
F.F. - 30 - No blow
F.S.I - 30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.30	91.36	Initial Hydro-static
1	31.75	91.16	Open To Flow (1)
31	33.41	91.87	Shut-In(1)
66	315.35	92.71	End Shut-In(1)
67	34.40	92.67	Open To Flow (2)
97	35.07	93.43	Shut-In(2)
129	170.72	94.04	End Shut-In(2)
132	1449.85	94.61	Final Hydro-static

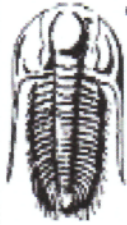
Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil
 8411 Preston Rd.
 Dallas TX 75225
 ATTN: Kurt talbott

9-15s-14w Russell,KS
Martin Dietz #2
 Job Ticket: 55267 **DST#: 1**
 Test Start: 2014.05.17 @ 01:45:00

GENERAL INFORMATION:

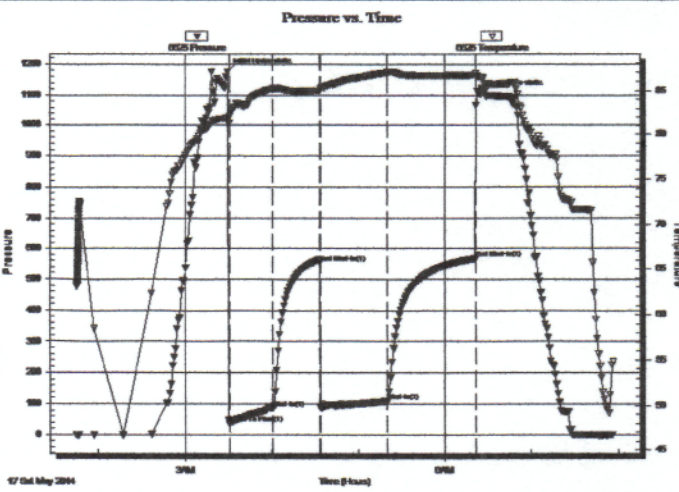
Formation: **Tarkio**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:31:00
 Time Test Ended: 07:57:00
 Interval: **2394.00 ft (KB) To 2448.00 ft (KB) (TVD)**
 Total Depth: **2448.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 67
 Reference Elevations: 1832.00 ft (KB)
 1824.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625

Outside

Press@RunDepth: 107.73 psig @ 2429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.17 End Date: 2014.05.17 Last Calib.: 2014.05.17
 Start Time: 01:45:01 End Time: 07:57:00 Time On Btm: 2014.05.17 @ 03:29:30
 Time Off Btm: 2014.05.17 @ 06:24:00

TEST COMMENT: I.F. - 30 - Weak blow built to 6"
 I.S.I. - 30 - No blow back
 F.F. - 45 - Weak blow built to 7"
 F.S.I. - 60 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1174.19	81.91	Initial Hydro-static
2	36.53	82.06	Open To Flow (1)
32	85.14	85.19	Shut-In(1)
64	553.20	84.93	End Shut-In(1)
65	86.75	85.18	Open To Flow (2)
111	107.73	87.00	Shut-In(2)
172	566.20	86.71	End Shut-In(2)
175	1104.17	86.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	S,O,C,M,W, 5%O 35%M 60%W	0.62
55.00	S,O,S,W,M, 1%W 99%M (FEW OIL SP)	0.77

Gas Rates

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

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. 182

Date	5-15-14	Sec.	Twp.	Range	County	State	On Location	Finish
					Russell	KS		5:00 AM

Location 281 + Walters Rd 2 W 1/4 S E into

Lease	Martin-Dietz	Well No.	42	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.
Contractor	Southwind		3		
Type Job	Surface				
Hole Size	12 1/4	T.D.	516'	Charge To	Man Oil
Csg.	8 5/8	Depth	516'	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.	30'	Shoe Joint		Cement Amount Ordered	250 6 3/4 3 3/4 cc 2 3/4 gal

Meas Line	Displace 31631
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EQUIPMENT

Pumptrk	5	No.	Cementer	Helper	David	Common
Bulktrk	14	No.	Driver	Clayton		Poz. Mix
Bulktrk	P4	No.	Driver	Brett		Gel.
			Driver			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

Cement	8 5/8
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Rubber Plug!
	Pumptrk Charge
	Mileage

X Signature *Gay Miller*

	Tax
	Discount
	Total Charge

