



## DRILL STEM TEST REPORT

Prepared For: **CMX Inc**

1700 Waterfront Pkwy  
Bldg 300B  
Wichita KS 67206

ATTN: Ken LeBlanc

**Susank B OWWO # 2-5**

**5 16s,-13w Barton,KS**

Start Date: 2016.05.01 @ 23:15:00

End Date: 2016.05.02 @ 08:39:00

Job Ticket #: 64773                      DST #: 1

Trilobite Testing, Inc  
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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

CMX Inc  
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 Bldg 300B  
 Wichita KS 67206  
 ATTN: Ken LeBlanc

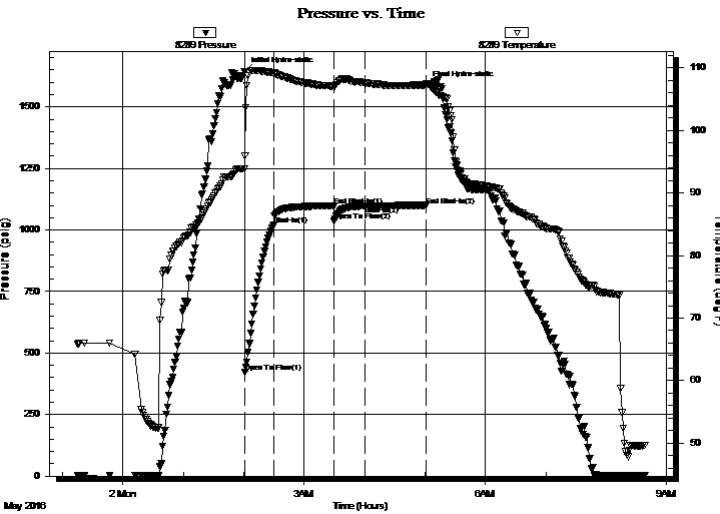
**5 16s,-13w Barton,KS**  
**Susank B OWWO # 2-5**  
 Job Ticket: 64773 **DST#: 1**  
 Test Start: 2016.05.01 @ 23:15:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:01:15  
 Time Test Ended: 08:39:00  
 Interval: **3342.00 ft (KB) To 3382.00 ft (KB) (TVD)**  
 Total Depth: 3382.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 76  
 Reference Elevations: 1940.00 ft (KB)  
 1931.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8289 Outside**  
 Press@RunDepth: 1098.06 psig @ 3347.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.05.01 End Date: 2016.05.02 Last Calib.: 2016.05.02  
 Start Time: 23:15:02 End Time: 08:39:00 Time On Btm: 2016.05.02 @ 02:00:30  
 Time Off Btm: 2016.05.02 @ 05:00:45

**TEST COMMENT:** 30-IFP- BOB in 1 min  
 60-ISIP- Weak Surface Blow in 3 min. Died in 7 min.  
 30-FFP- BOB in 1 min. Died Back in 15 min.  
 60-FSIP- Weak Surface Blow in 2 min. Died in 9 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.83	93.90	Initial Hydro-static
1	422.41	95.98	Open To Flow (1)
30	1022.09	109.20	Shut-In(1)
89	1096.60	106.97	End Shut-In(1)
90	1038.34	106.95	Open To Flow (2)
120	1098.06	107.59	Shut-In(2)
180	1099.78	107.25	End Shut-In(2)
181	1587.56	107.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1300.00	Water 100%	18.24
620.00	MOCW 5% m 10% o 85% w	8.70
500.00	OMCW 10% o 30% m 60% w	7.01
25.00	CO 100%	0.35
0.00	GIP 40	0.00

## Gas Rates

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





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**TOOL DIAGRAM**

CMX Inc  
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ATTN: Ken LeBlanc

**5 16s,-13w Barton,KS**  
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Job Ticket: 64773      **DST#: 1**  
Test Start: 2016.05.01 @ 23:15:00

**Tool Information**

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.80 inches	Volume: 46.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3342.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3320.00	
Shut In Tool	5.00			3325.00	
Hydraulic tool	5.00			3330.00	
Safety Joint	2.00			3332.00	
Packer	5.00			3337.00	23.00      Bottom Of Top Packer
Packer	5.00			3342.00	
Stubb	1.00			3343.00	
Perforations	3.00			3346.00	
Change Over Sub	1.00			3347.00	
Recorder	0.00	8789	Inside	3347.00	
Recorder	0.00	8289	Outside	3347.00	
Blank Spacing	31.00			3378.00	
Change Over Sub	1.00			3379.00	
Bullnose	3.00			3382.00	40.00      Bottom Packers & Anchor

**Total Tool Length: 63.00**



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**FLUID SUMMARY**

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ATTN: Ken LeBlanc

**5 16s,-13w Barton,KS**  
**Susank B OWWO # 2-5**  
Job Ticket: 64773      **DST#: 1**  
Test Start: 2016.05.01 @ 23:15:00

## Mud and Cushion Information

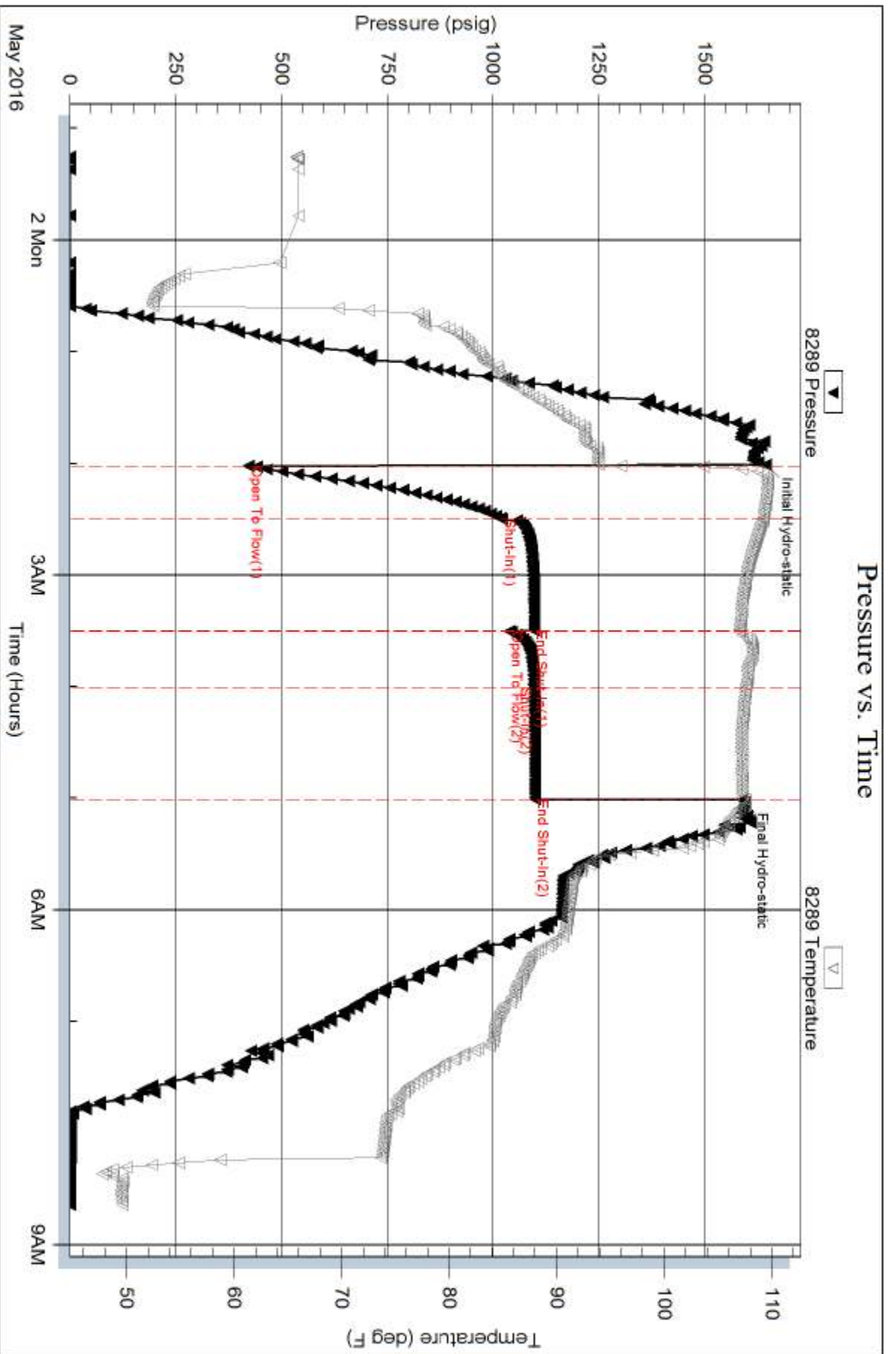
Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 30000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.75 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6200.00 ppm		
Filter Cake: 2.00 inches		

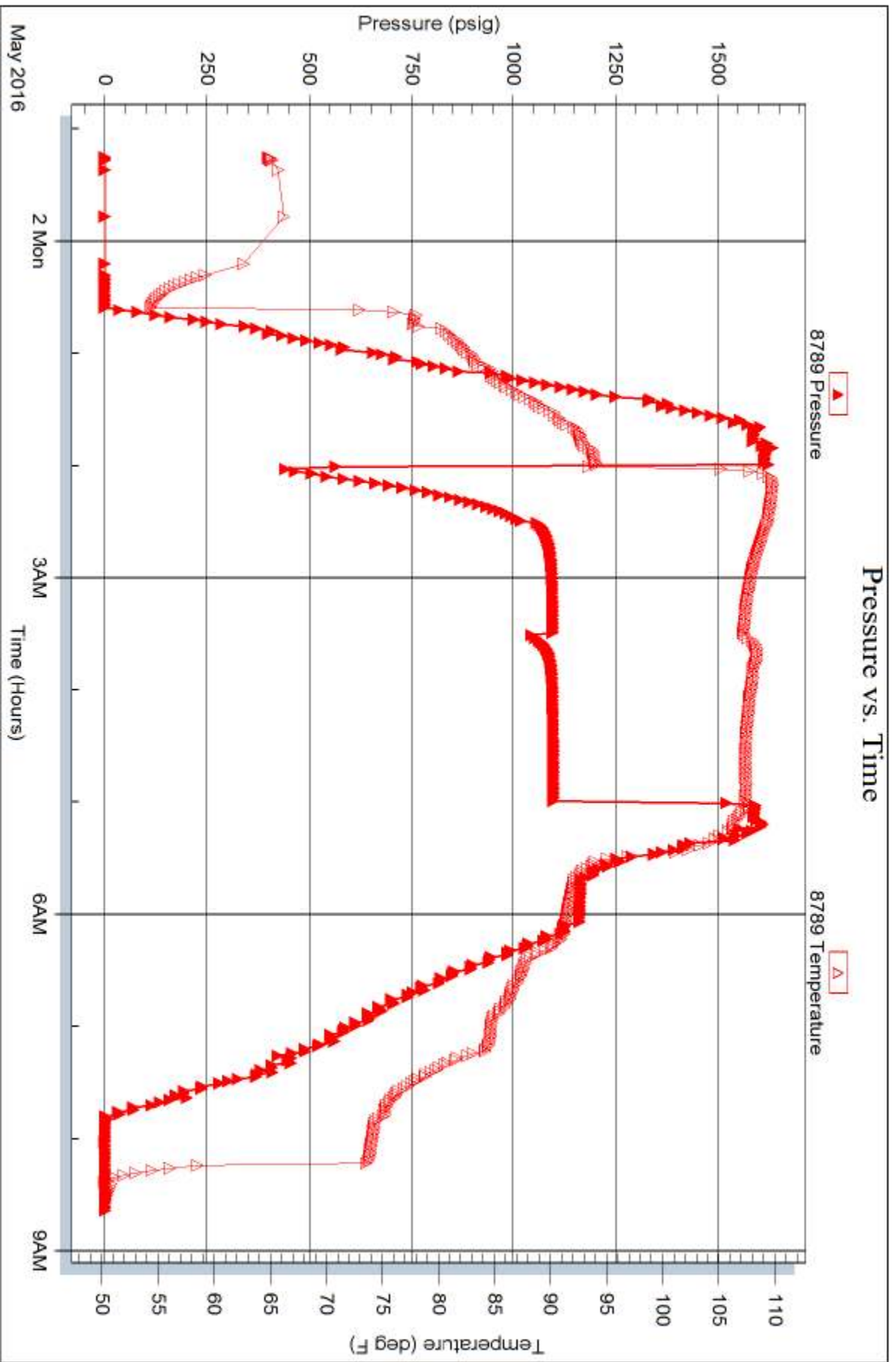
## Recovery Information

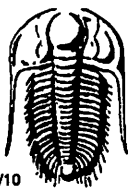
Recovery Table

Length ft	Description	Volume bbl
1300.00	Water 100%	18.236
620.00	MOCW 5%m 10%o 85%w	8.697
500.00	OMCW 10%o 30%m 60%w	7.014
25.00	CO 100%	0.351
0.00	GIP 40	0.000

Total Length: 2445.00 ft      Total Volume: 34.298 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .325 @ 49







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64773

Well Name & No. SUSANK BOWNO 2-5 Test No. 1 Date 5-1-16  
 Company CMX INC. Elevation 1940 KB 1931 GL  
 Address 1700 N. WATERFRONT PKWY BLDG 300B WICHITA KS 67206  
 Co. Rep / Geo. Ken LeBlac Rig Duke #2  
 Location: Sec. 5 Twp. 16<sup>S</sup> Rge. 13<sup>W</sup> Co. BARTON State KS

Interval Tested 3342-3382 Zone Tested Arbuckle  
 Anchor Length 40 Drill Pipe Run 3346 Mud Wt. 9  
 Top Packer Depth 3337 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3342 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3382 Chlorides 6200 ppm System LCM 2

Blow Description IFP - BOB in 1min.  
ISIP - Weak Surface Blow in 3min. Died in 7min.  
FFP - BOB in 1min. Died BACK in 15min.  
FSIP - Weak Surface Blow in 2min. Died in 9min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1300</u>	<u>Water</u>			<u>100</u>	
<u>620</u>	<u>MOCW</u>	<u>10</u>	<u>85</u>	<u>5</u>	
<u>500</u>	<u>OMCW</u>	<u>10</u>	<u>60</u>	<u>30</u>	
<u>25</u>	<u>CO</u>	<u>100</u>			
	<u>40' MIP</u>				

Rec Total 2445 BHT 107 Gravity 39 API RW 325 @ 49 °F Chlorides 30000 ppm

(A) Initial Hydrostatic 1644  Test 1050 T-On Location 23:05  
 (B) First Initial Flow 422  Jars \_\_\_\_\_ T-Started 23:15  
 (C) First Final Flow 1022  Safety Joint 75 T-Open 02:00  
 (D) Initial Shut-In ~~1038~~ 1096  Circ Sub \_\_\_\_\_ T-Pulled 05:00  
 (E) Second Initial Flow ~~1098~~ 1038  Hourly Standby \_\_\_\_\_ T-Out 08:39  
 (F) Second Final Flow 1098  Mileage 71.25 95 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 1099  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1587  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 0  
 Total 1196.25  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1196.25

Approved By \_\_\_\_\_ Our Representative

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