



## DRILL STEM TEST REPORT

Prepared For: **Comanche Resources Co.**

6520 N Western AVE STE 300  
Oklahoma City OK 73116

ATTN: Sean Deenihan / Jim

**Eder # 5-1**

**5-20s-34w Scott, KS**

Start Date: 2012.01.11 @ 01:36:00

End Date: 2012.01.11 @ 10:31:45

Job Ticket #: 44987                      DST #: 1

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

# DRILL STEM TEST REPORT

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 Test Start: 2012.01.11 @ 01:36:00

## GENERAL INFORMATION:

Formation: **Myric Station / Ft.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:17:00  
 Time Test Ended: 10:31:45  
 Interval: **4490.00 ft (KB) To 4554.00 ft (KB) (TVD)**  
 Total Depth: 4554.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Will MacLean  
 Unit No: 48  
 Reference Elevations: 3075.00 ft (KB)  
 3064.00 ft (CF)  
 KB to GR/CF: 11.00 ft

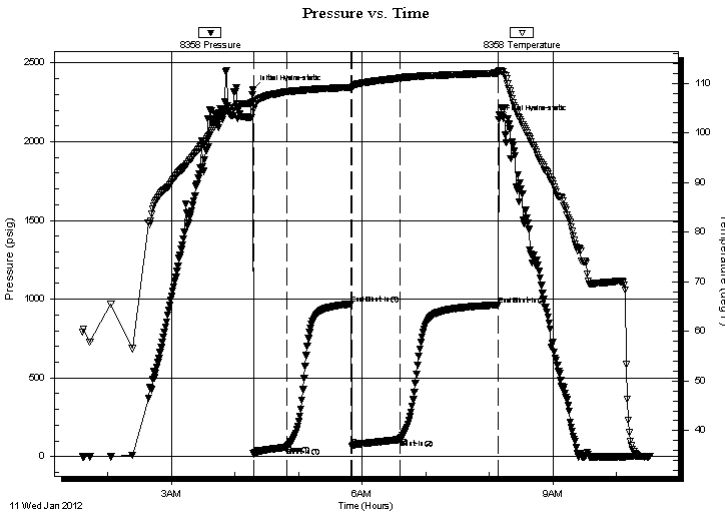
## Serial #: 8358

Inside

Press @ Run Depth: 108.69 psig @ 4491.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.01.11 End Date: 2012.01.11 Last Calib.: 2012.01.11  
 Start Time: 01:36:00 End Time: 10:31:45 Time On Btm: 2012.01.11 @ 04:16:45  
 Time Off Btm: 2012.01.11 @ 08:08:30

**TEST COMMENT:** IF- Weak Surface Blow Built to 4"  
 IS- Weak Surface Blow Died in 46 min  
 FF- Weak Surface Blow Built to 5"  
 FS- Weak Surface Blow Died in 68 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2328.00	106.17	Initial Hydro-static
1	18.06	104.78	Open To Flow (1)
32	60.27	108.29	Shut-In(1)
93	969.55	109.18	End Shut-In(1)
94	67.64	109.08	Open To Flow (2)
139	108.69	111.02	Shut-In(2)
232	963.64	112.04	End Shut-In(2)
232	2141.88	112.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 5%g 30%oil 65%m	0.15
60.00	GOCM 5%g 25%oil 70%m	0.30
60.00	GOCM 20%g 20%oil 60%m	0.30
60.00	GOCM 20%g 30%oil 50%oil	0.30
0.00	216' of GIP	0.00

## Gas Rates

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





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**TOOL DIAGRAM**

Comanche Resources Co.

**5-20s-34w Scott, KS**

6520 N Western AVE STE 300  
Oklahoma City OK 73116

**Eder # 5-1**

Job Ticket: 44987

**DST#: 1**

ATTN: Sean Deenihan / Jim

Test Start: 2012.01.11 @ 01:36:00

## Tool Information

Drill Pipe:	Length: 4228.00 ft	Diameter: 3.80 inches	Volume: 59.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 6000.00 lb
			<u>Total Volume: 60.48 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4490.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4463.00	
Shut In Tool	5.00			4468.00	
Hydraulic tool	5.00			4473.00	
Jars	5.00			4478.00	
Safety Joint	3.00			4481.00	
Packer	5.00			4486.00	28.00 Bottom Of Top Packer
Packer	4.00			4490.00	
Stubb	1.00			4491.00	
Recorder	0.00	8358	Inside	4491.00	
Recorder	0.00	6668	Outside	4491.00	
Perforations	25.00			4516.00	
Change Over Sub	1.00			4517.00	
Drill Pipe	31.00			4548.00	
Change Over Sub	1.00			4549.00	
Bullnose	5.00			4554.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 92.00**



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**FLUID SUMMARY**

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Oklahoma City OK 73116  
ATTN: Sean Deenihan / Jim

**5-20s-34w Scott, KS**  
**Eder # 5-1**  
Job Ticket: 44987      **DST#: 1**  
Test Start: 2012.01.11 @ 01:36:00

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.94 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 2.00 inches			

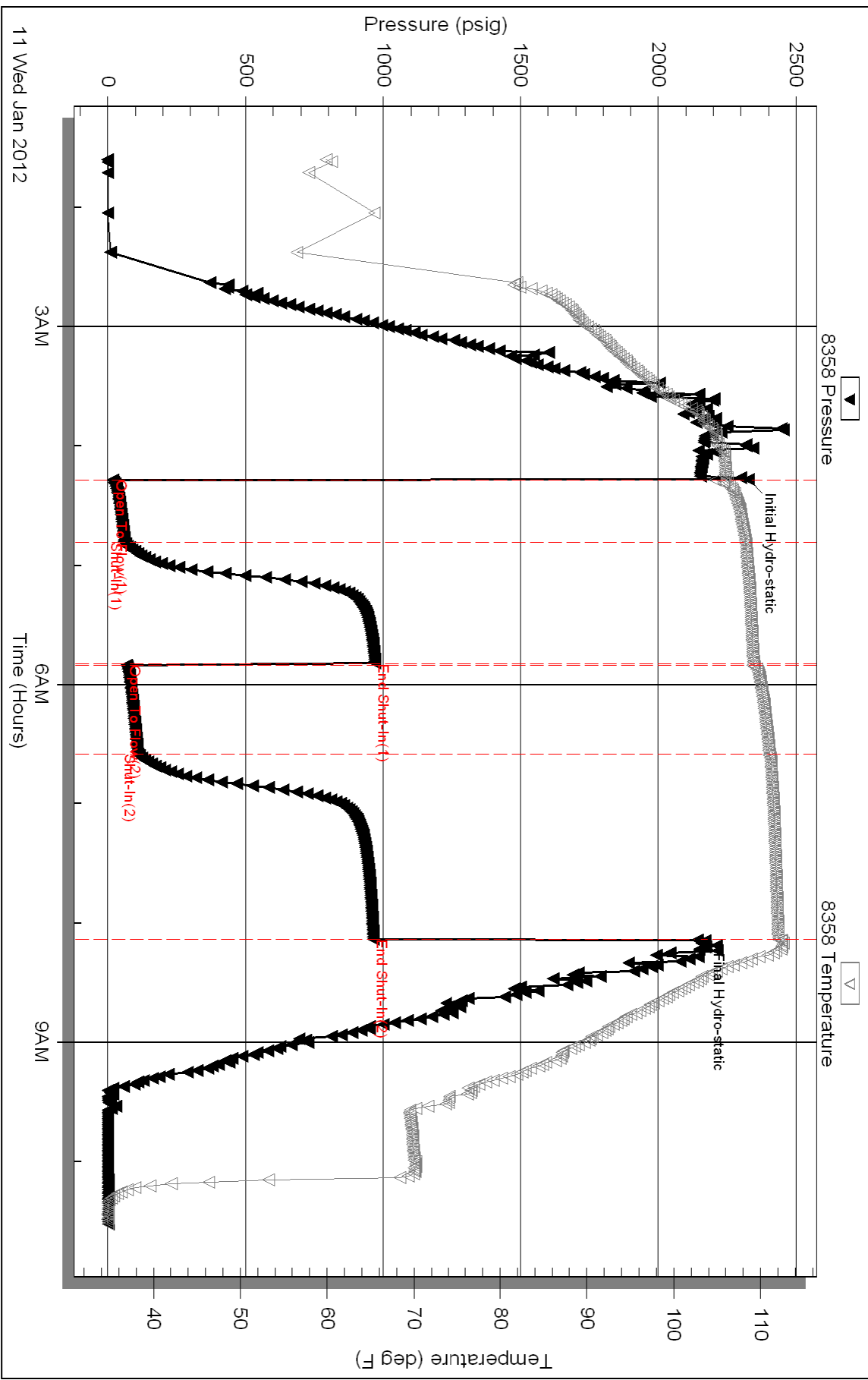
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GOCM 5%g 30%oil 65%m	0.148
60.00	GOCM 5%g 25%oil 70%m	0.295
60.00	GOCM 20%g 20%oil 60%m	0.295
60.00	GOCM 20%g 30%oil 50%oil	0.295
0.00	216' of GIP	0.000

Total Length: 210.00 ft      Total Volume: 1.033 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time



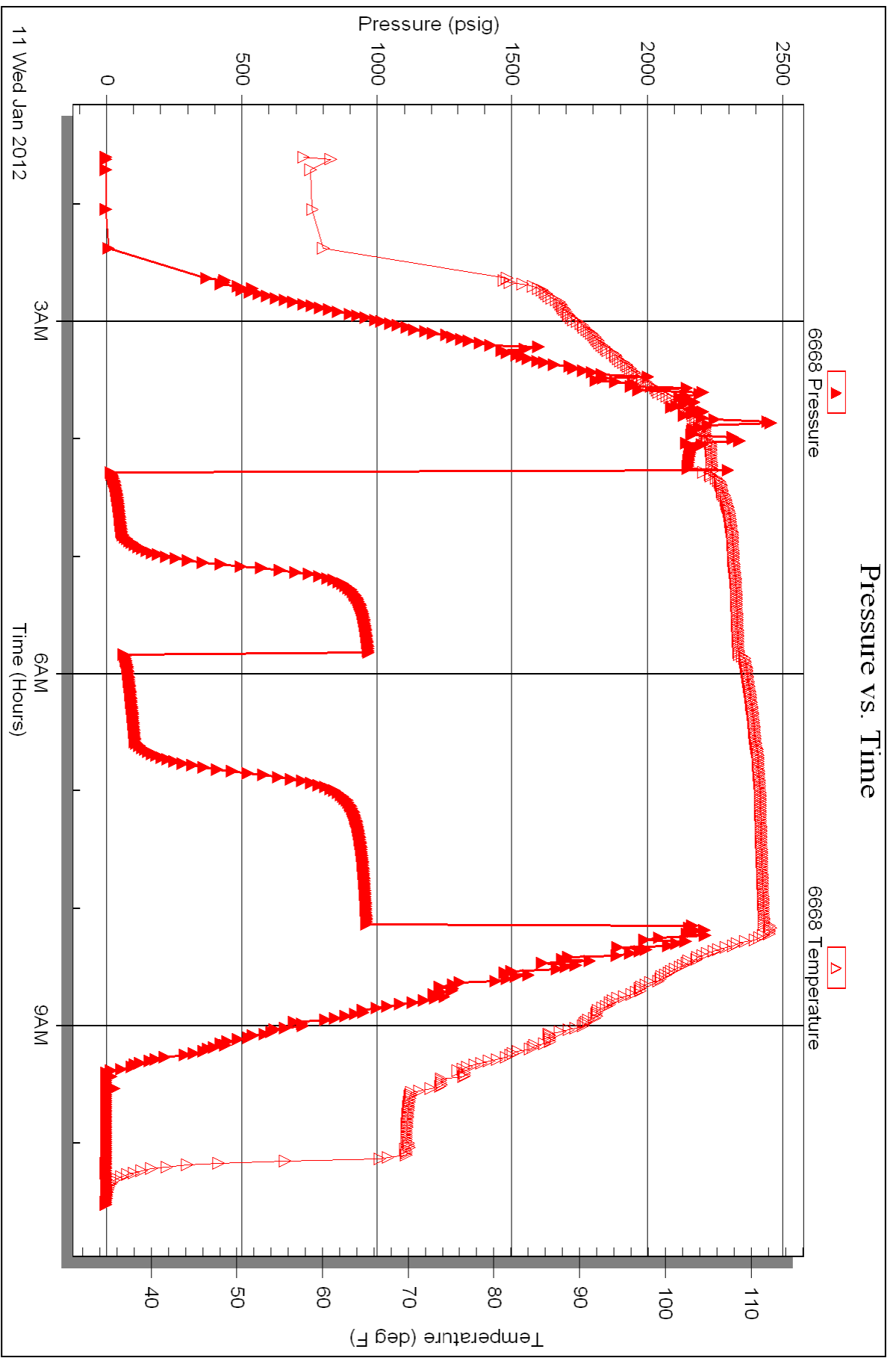
11 Wed Jan 2012

Serial #: 6668

Outside Comanche Resources Co.

Elder #5-1

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
JAN 13 2012

## Test Ticket

NO. 44987

Well Name & No. Eder # 5-1 BY: \_\_\_\_\_ Test No. DST # 1 Date 1-11-12  
 Company Comanche Res Co. Elevation 3075 KB 3064 GL  
 Address 6520 N. Western AVE STE 300 OKLAHOMA CITY OK 73116  
 Co. Rep / Geo. Sean Deekihan / Jim Lemaster Rig Murfin #22  
 Location: Sec. 5 Twp. 20s Rge. 34w Co. Scott State KS

Interval Tested 4490-4554 Zone Tested Myric Station / Ft. Scott  
 Anchor Length 64 Drill Pipe Run 4228 Mud Wt. 9.2  
 Top Packer Depth 4486 Drill Collars Run 238 Vis 55  
 Bottom Packer Depth 4490 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4554 Chlorides 5500 ppm System LCM 616

Blow Description IF-Weak Surface Blow Built to 4"  
ISI-Weak Surface Blow Died in 46 min  
FF-Weak Surface Blow Built to 5"  
FST-Weak Surface Blow Died in 68 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>G-OCM</u>	<u>20</u>	<u>30</u>	<u>50</u>	<u>0</u>
<u>60</u>	<u>G-OCM</u>	<u>20</u>	<u>20</u>	<u>60</u>	<u>0</u>
<u>60</u>	<u>G-OCM</u>	<u>5</u>	<u>25</u>	<u>70</u>	<u>0</u>
<u>30</u>	<u>G-OCM</u>	<u>5</u>	<u>30</u>	<u>65</u>	<u>0</u>
Rec	Feet of <u>216' of G-IP</u>	%gas	%oil	%water	%mud
Rec Total <u>210</u>	BHT <u>103</u>	Gravity	API RW	@	°F Chlorides

(A) Initial Hydrostatic <u>2328</u>	<input checked="" type="checkbox"/> Test <u>1225'</u>	T-On Location <u>23:47</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>1:36 AM</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>4:17 AM</u>
(D) Initial Shut-In <u>969</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>8:08 AM</u>
(E) Second Initial Flow <u>67</u>	<input type="checkbox"/> Hourly Standby <u>3/4 hr 75'</u>	T-Out <u>10:31 AM</u>
(F) Second Final Flow <u>108</u>	<input checked="" type="checkbox"/> Mileage <u>42 R/T 58.80</u>	Comments <u>1112 18:30</u>
(G) Final Shut-In <u>963</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2141</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>32 hrs</u>	Total <u>2483.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>11683.80</u>	

Approved By Jim Lemaster Our Representative Will Neal

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