



DRILL STEM TEST REPORT

Prepared For: **King Oil Operation**

1746 150th Ave.
Ellis, KS 67637

ATTN: Austin Klaus

Disney #1-18

18-13s-19w Ellis,KS

Start Date: 2015.06.11 @ 11:48:03

End Date: 2015.06.11 @ 19:47:03

Job Ticket #: 34526 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

King Oil Operation

18-13s-19w Ellis,KS

1746 150th Ave.
Ellis, KS 67637

Disney #1-18

Job Ticket: 34526

DST#: 1

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Test Start: 2015.06.11 @ 11:48:03

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:33

Time Test Ended: 19:47:03

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3513.00 ft (KB) To 3621.00 ft (KB) (TVD)

Reference Elevations: 2081.00 ft (KB)

Total Depth: 3621.00 ft (KB) (TVD)

2074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8655 Outside

Press@RunDepth: 164.80 psig @ 3522.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.11

End Date: 2015.06.11

Last Calib.: 2015.06.11

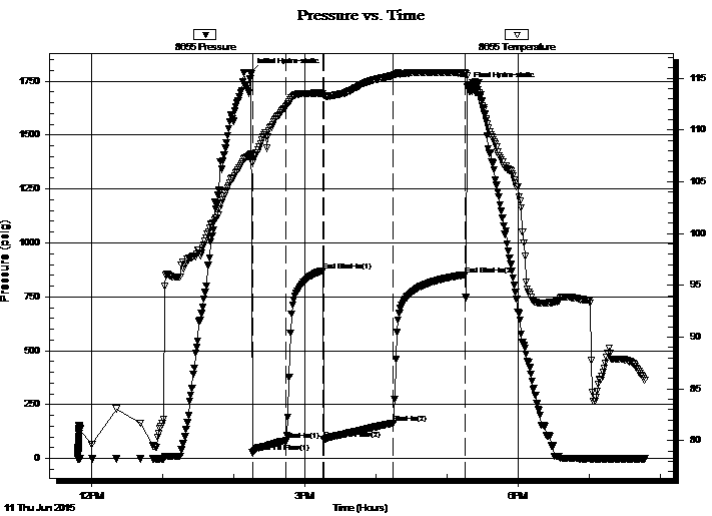
Start Time: 11:48:04

End Time: 19:47:03

Time On Btm: 2015.06.11 @ 14:14:03

Time Off Btm: 2015.06.11 @ 17:16:33

TEST COMMENT: 30- IF- BOB 19 mins
30- IS- Surface blow
60- FF- Slowly built to 2" in 14 mins and maintained blow throughout
60- FS- Surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.16	107.64	Initial Hydro-static
2	26.87	106.86	Open To Flow (1)
30	83.10	112.28	Shut-In(1)
61	871.63	113.51	End Shut-In(1)
62	87.81	113.33	Open To Flow (2)
121	164.80	115.26	Shut-In(2)
181	852.80	115.49	End Shut-In(2)
183	1725.47	115.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	SGSOCMW, 5%G 5%O 35%M 55%W	1.50
250.00	VGSWMCO, 40%G 5%W 10%M 45%O	3.54
0.00	640' GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

King Oil Operation

18-13s-19w Ellis,KS

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Ellis, KS 67637

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Job Ticket: 34526

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.06.11 @ 11:48:03

Tool Information

Drill Pipe:	Length: 3472.00 ft	Diameter: 3.82 inches	Volume: 49.22 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3513.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	108.00 ft				
Tool Length:	128.00 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			3494.00	
Shut In Tool	5.00			3499.00	
Hydraulic tool	5.00			3504.00	
Packer	5.00			3509.00	20.00 Bottom Of Top Packer
Packer	4.00			3513.00	
Stubb	1.00			3514.00	
Perforations	7.00			3521.00	
Change Over Sub	1.00			3522.00	
Recorder	0.00	8651	Inside	3522.00	
Recorder	0.00	8655	Outside	3522.00	
Drill Pipe	95.00			3617.00	
Change Over Sub	1.00			3618.00	
Bullnose	3.00			3621.00	108.00 Bottom Packers & Anchor

Total Tool Length: 128.00



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FLUID SUMMARY

King Oil Operation

18-13s-19w Ellis,KS

1746 150th Ave.
Ellis, KS 67637

Disney #1-18

Job Ticket: 34526

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.06.11 @ 11:48:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

11000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	SGSOCMW, 5%G 5%O 35%M 55%W	1.503
250.00	VGSWMCO, 40%G 5%W 10%M 45%O	3.544
0.00	640' GIP	0.000

Total Length: 375.00 ft

Total Volume: 5.047 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

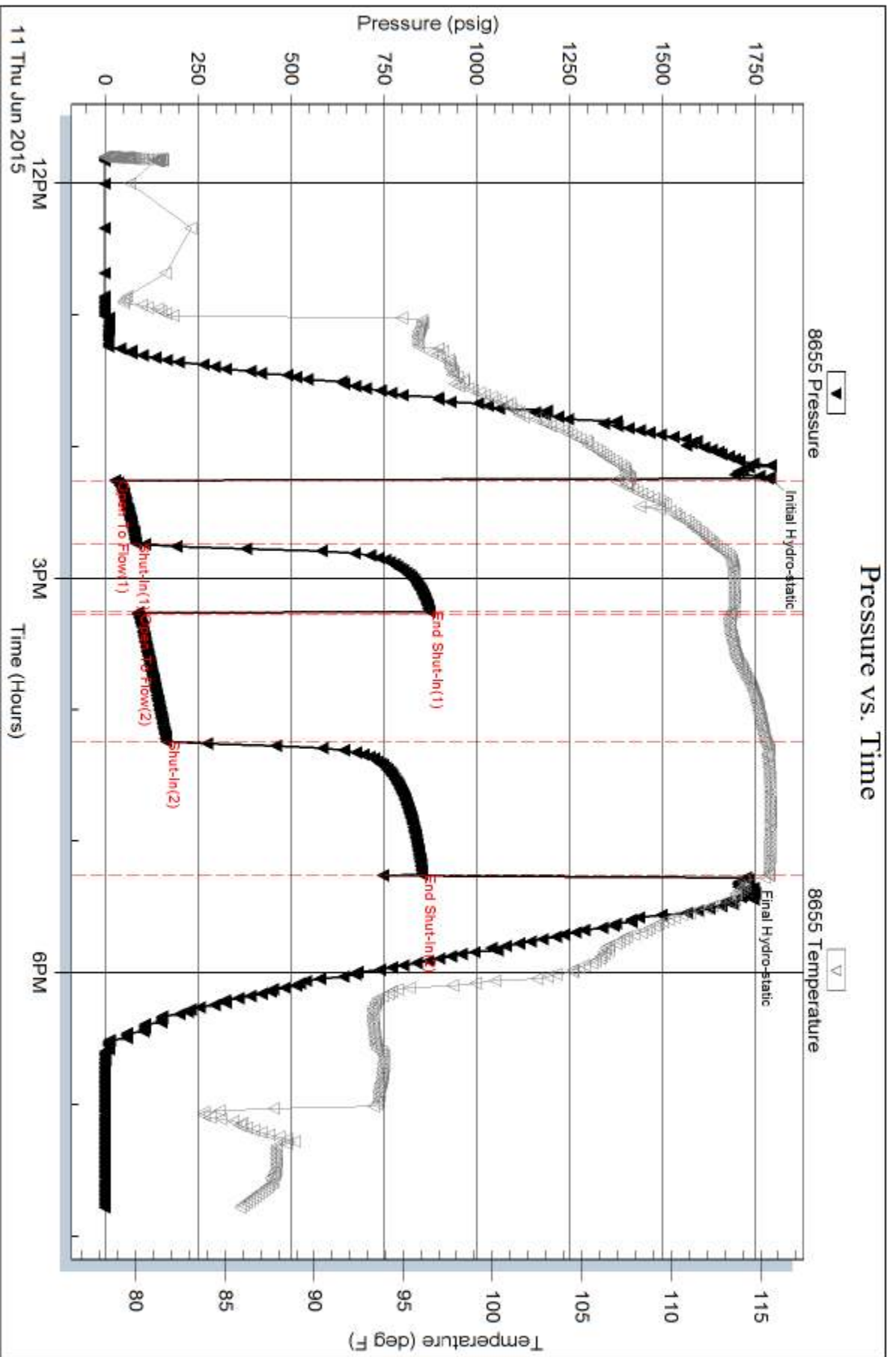
Recovery Comments:

Serial #: 8655

Outside King Oil Operation

Disney #1-18

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 34526

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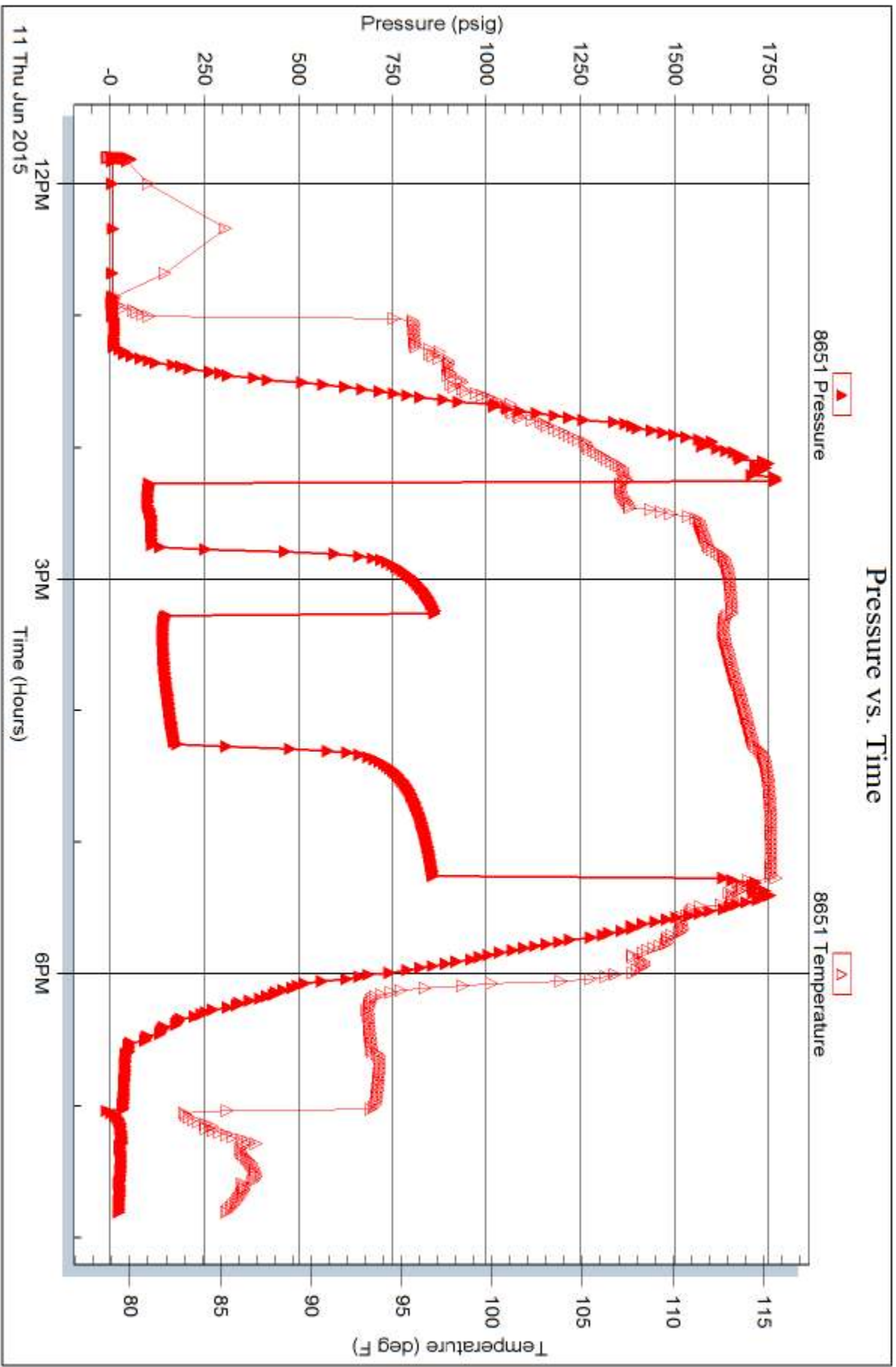
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Inside

King Oil Operation

Disney #1-18

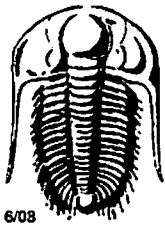
DST Test Number: 1



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TRILOBITE TESTING INC.

34526

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Disney #1-18 Test No. 1 Date 6/11/15
 Company King Oil Operation Zone Tested LKC "H-K"
 Address 1746 150th Ave, Ellis, KS 67637 Elevation 2081 KB 2074 GL
 Co. Rep / Geo. Anstn Klaws Rig Discovery #1
 Location: Sec. 18 Twp. 13 S Rge. 19 W Co. Ellis State KS
 Comment: Loaded tools 6/12 @ 1815

Interval Tested 3513 - 3621 Drill Pipe Size 4 1/2
 Anchor Length 108' Wt. Pipe Run _____
 Top Packer Depth 3508 Drill Collar Run 6 1/4 29'
 Bottom Packer Depth 3513 Ft. Run _____ 3472'
 Total Depth 3621 Recorder #(s) 8651 + 8655

Blow Description IF - BOB 19 mins
ISI - Surface blow
FF - slowly built to 2" in 14 mins and maintained flow throughout
FSI - Surface blow

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>375</u>	<u>640</u>	<u>29</u>	<u>346</u>
Rec. <u>125</u>	Feet of <u>3650 CW</u>	<u>5% gas</u>	<u>5% oil</u> <u>55% water</u> <u>35% mud</u>
Rec. <u>250</u>	Feet of <u>VA SW MC O</u>	<u>40% gas</u>	<u>45% oil</u> <u>5% water</u> <u>10% mud</u>
Rec. _____	Feet of <u>640' LIP</u>	% gas	% oil % water % mud
Rec. _____	Feet of _____	% gas	% oil % water % mud
Rec. _____	Feet of _____	% gas	% oil % water % mud

BHT 116° °F Gravity 35 °API D @ 73 °F Corrected Gravity 34 °API
 RW .46 @ 88 °F Chlorides 11,000 ppm Recovery _____ Chlorides 8,000 ppm System

IF <u>30</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Day Standby _____
ISI <u>30</u>	<input type="checkbox"/> Jars _____	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Accessibility _____
FF <u>60</u>	<input type="checkbox"/> Safety Joint _____	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
FSI <u>60</u>	<input type="checkbox"/> Circ Sub _____	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
T-on Loc <u>1143</u>	<input type="checkbox"/> Hourly Standby _____	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
T-started <u>1148</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT x 2</u>	<input type="checkbox"/> Other _____	
T-open <u>1416</u>	<u>40+40</u>		
T-pulled <u>1716</u>	Sub Total <u>1130</u>	Sub Total <u>0</u>	Sub Total <u>0</u>
T-out <u>1949</u>			Total <u>1130</u>

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Approved By _____ Our Representative Brennan Lonsdale