



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Katherine #2-19

19-24s-30w Gray,KS

Start Date: 2014.08.10 @ 15:12:10

End Date: 2014.08.11 @ 01:13:40

Job Ticket #: 54130 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 17:32:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:25

Time Test Ended: 01:13:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 4870.00 ft (KB) To 4930.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 4930.00 ft (KB) (TVD)

2880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773

Inside

Press@RunDepth: 97.58 psig @ 4871.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.10

End Date:

2014.08.11

Last Calib.: 2014.08.11

Start Time: 15:12:15

End Time:

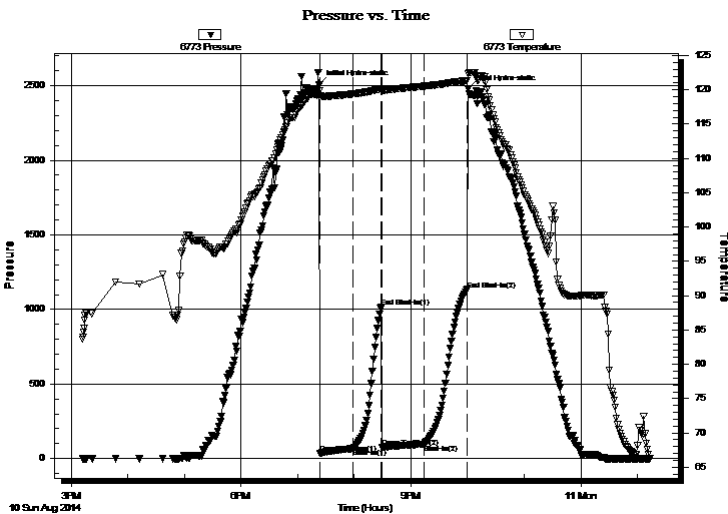
01:13:40

Time On Btm: 2014.08.10 @ 19:22:55

Time Off Btm: 2014.08.10 @ 22:00:25

TEST COMMENT: IF: Weak blow . Surf., - 1 1/2".
IS: No blow .
FF: Fair blow . Surf., - 8". Bleed off in 4 mins.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2509.71	119.79	Initial Hydro-static
1	34.87	118.96	Open To Flow (1)
36	67.34	119.41	Shut-In(1)
66	1013.40	120.12	End Shut-In(1)
67	73.29	119.92	Open To Flow (2)
112	97.58	120.53	Shut-In(2)
157	1132.71	121.33	End Shut-In(2)
158	2477.90	122.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 5%w 27%m 33%g 35%o	0.30
60.00	GOWCM 5%w 25%m 30%o 40%g	0.30
20.00	OCM 5%o 95%m	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

Tool Information

Drill Pipe:	Length: 4615.00 ft	Diameter: 3.80 inches	Volume: 64.74 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 65.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4870.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 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			4843.00	
Shut In Tool	5.00			4848.00	
Hydraulic tool	5.00			4853.00	
Jars	5.00			4858.00	
Safety Joint	3.00			4861.00	
Packer	4.00			4865.00	28.00 Bottom Of Top Packer
Packer	5.00			4870.00	
Stubb	1.00			4871.00	
Recorder	0.00	6719	Outside	4871.00	
Recorder	0.00	6773	Inside	4871.00	
Perforations	3.00			4874.00	
Change Over Sub	1.00			4875.00	
Blank Spacing	32.00			4907.00	
Change Over Sub	1.00			4908.00	
Perforations	19.00			4927.00	
Bullnose	3.00			4930.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54130

DST#: 1

ATTN: Kevin Timson

Test Start: 2014.08.10 @ 15:12:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

3900 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOWCM 5%w 27%m 33%g 35%o	0.295
60.00	GOWCM 5%w 25%m 30%o 40%g	0.295
20.00	OCM 5%o 95%m	0.098

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

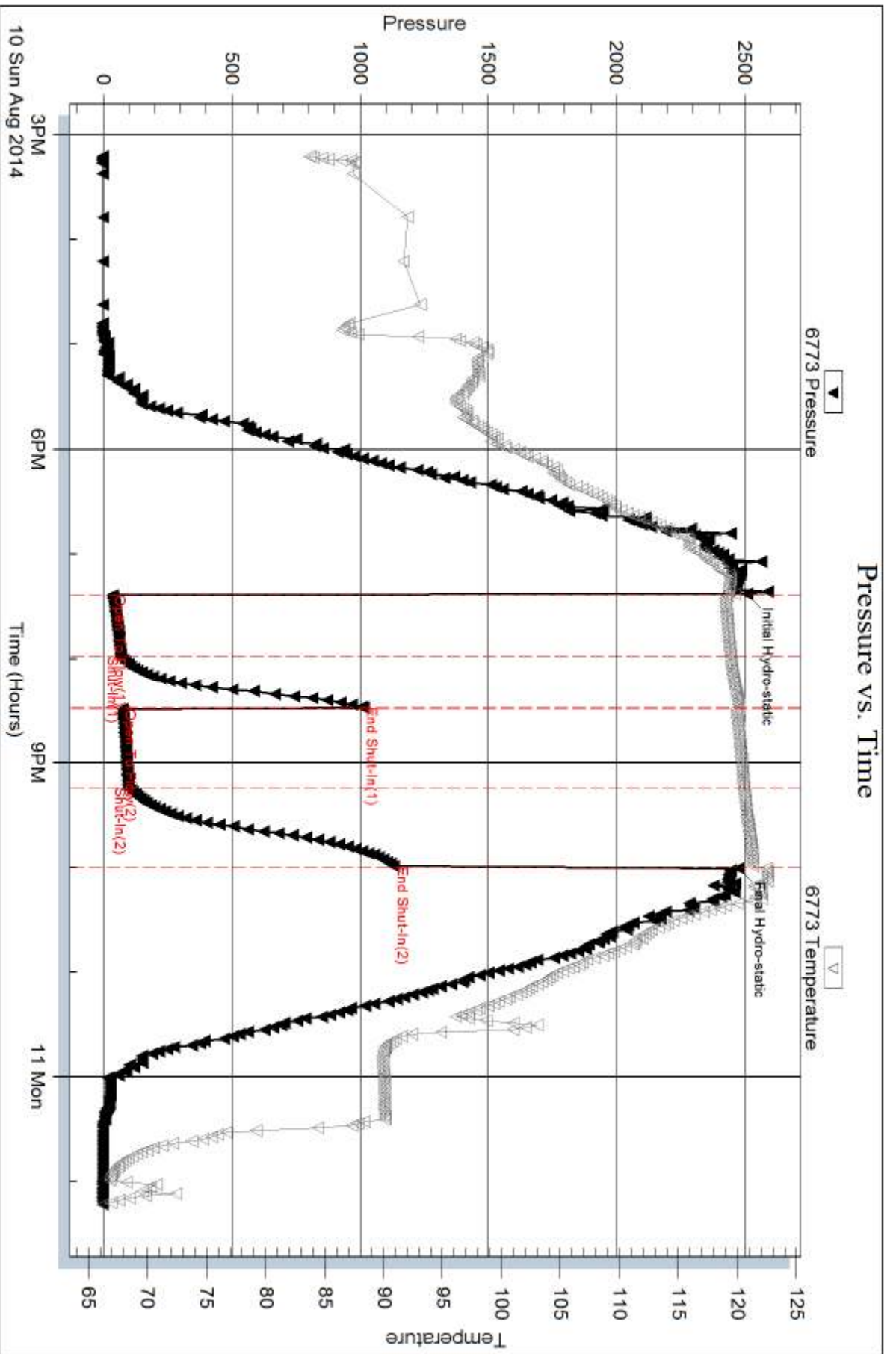
Num Gas Bombs: 0

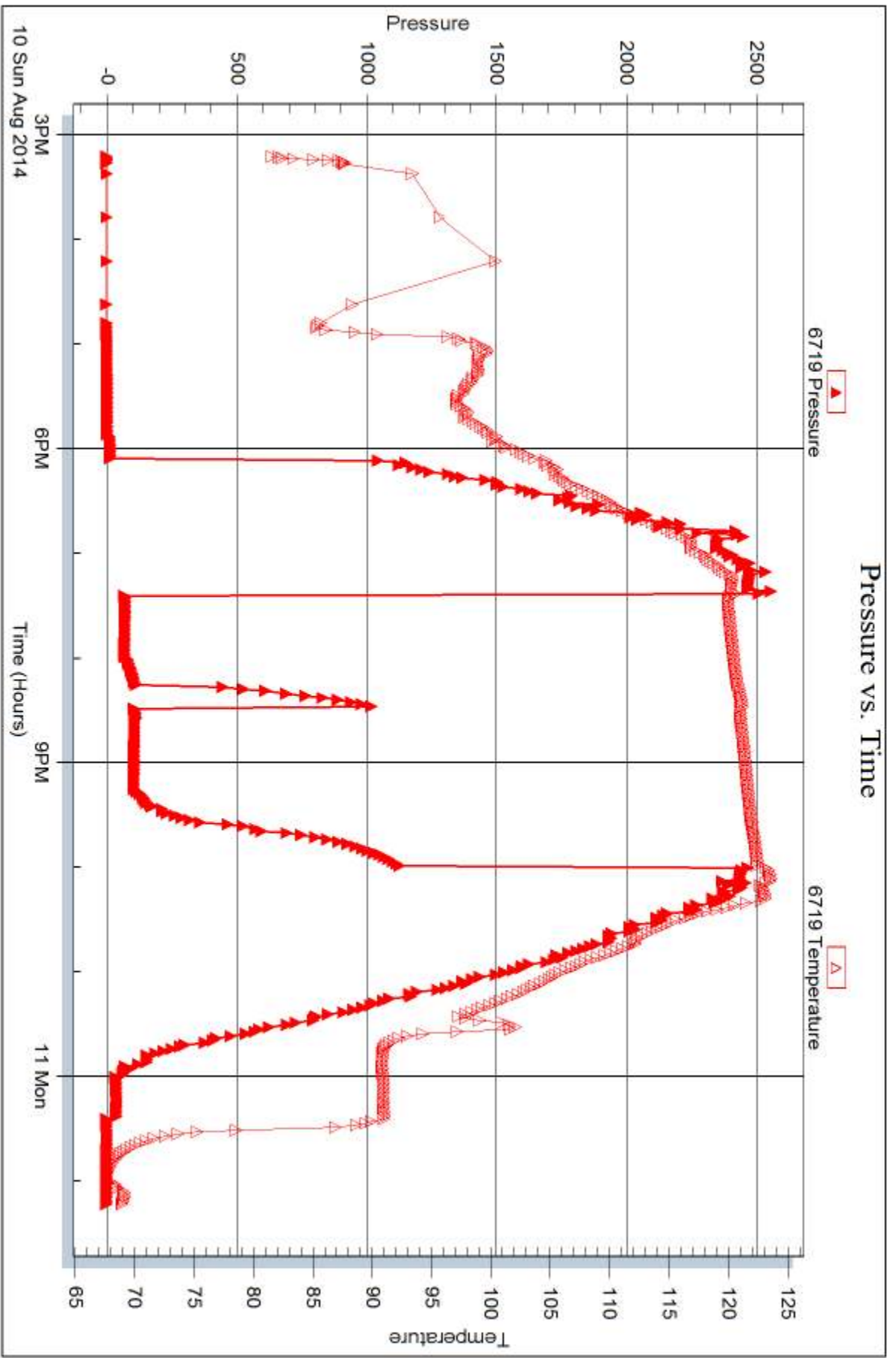
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Katherine #2-19

19-24s-30w Gray,KS

Start Date: 2014.08.11 @ 15:08:21

End Date: 2014.08.11 @ 22:44:51

Job Ticket #: 54131 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.13 @ 17:30:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior, Inc.

19-24s-30w Gray, KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:32:06

Time Test Ended: 22:44:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 4990.00 ft (KB) To 5010.00 ft (KB) (TVD)

Reference Elevations: 2891.00 ft (KB)

Total Depth: 5010.00 ft (KB) (TVD)

2880.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Inside

Press@RunDepth: 23.09 psig @ 4991.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.11

End Date:

2014.08.11

Last Calib.:

2014.08.11

Start Time: 15:08:26

End Time:

22:44:50

Time On Btm:

2014.08.11 @ 18:30:51

Time Off Btm:

2014.08.11 @ 19:53:21

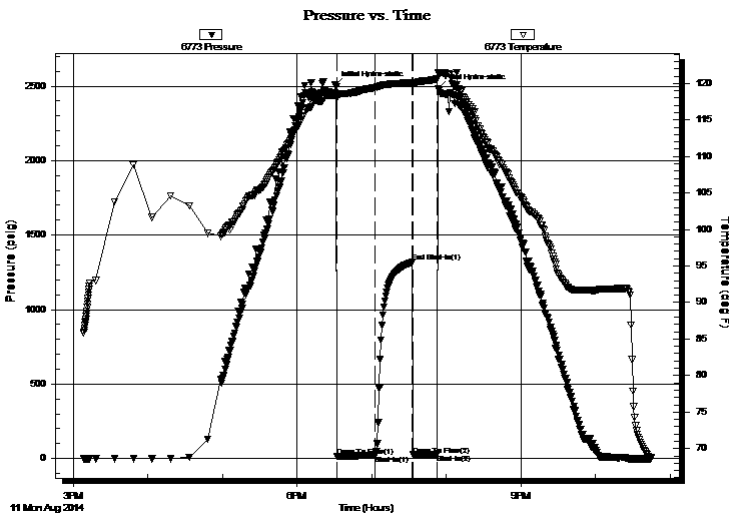
TEST COMMENT: IF: Weak blow . Surf., - 1/4".

IS: No blow .

FF: No blow .

FS: Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.07	118.40	Initial Hydro-static
2	15.06	117.93	Open To Flow (1)
32	23.09	119.44	Shut-In(1)
62	1318.14	120.13	End Shut-In(1)
63	24.39	119.86	Open To Flow (2)
82	29.37	120.60	Shut-In(2)
83	2481.00	121.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig Mud w / trace oil 100%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

Tool Information

Drill Pipe:	Length: 4747.00 ft	Diameter: 3.80 inches	Volume: 66.59 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 67.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4990.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4963.00	
Shut In Tool	5.00			4968.00	
Hydraulic tool	5.00			4973.00	
Jars	5.00			4978.00	
Safety Joint	3.00			4981.00	
Packer	4.00			4985.00	28.00 Bottom Of Top Packer
Packer	5.00			4990.00	
Stubb	1.00			4991.00	
Recorder	0.00	6719	Outside	4991.00	
Recorder	0.00	6773	Inside	4991.00	
Perforations	16.00			5007.00	
Bullnose	3.00			5010.00	20.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

19-24s-30w Gray,KS

PO Box 399
Garden City, KS 67846

Katherine #2-19

Job Ticket: 54131

DST#: 2

ATTN: Kevin Timson

Test Start: 2014.08.11 @ 15:08:21

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:

3900 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig Mud w / trace oil 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

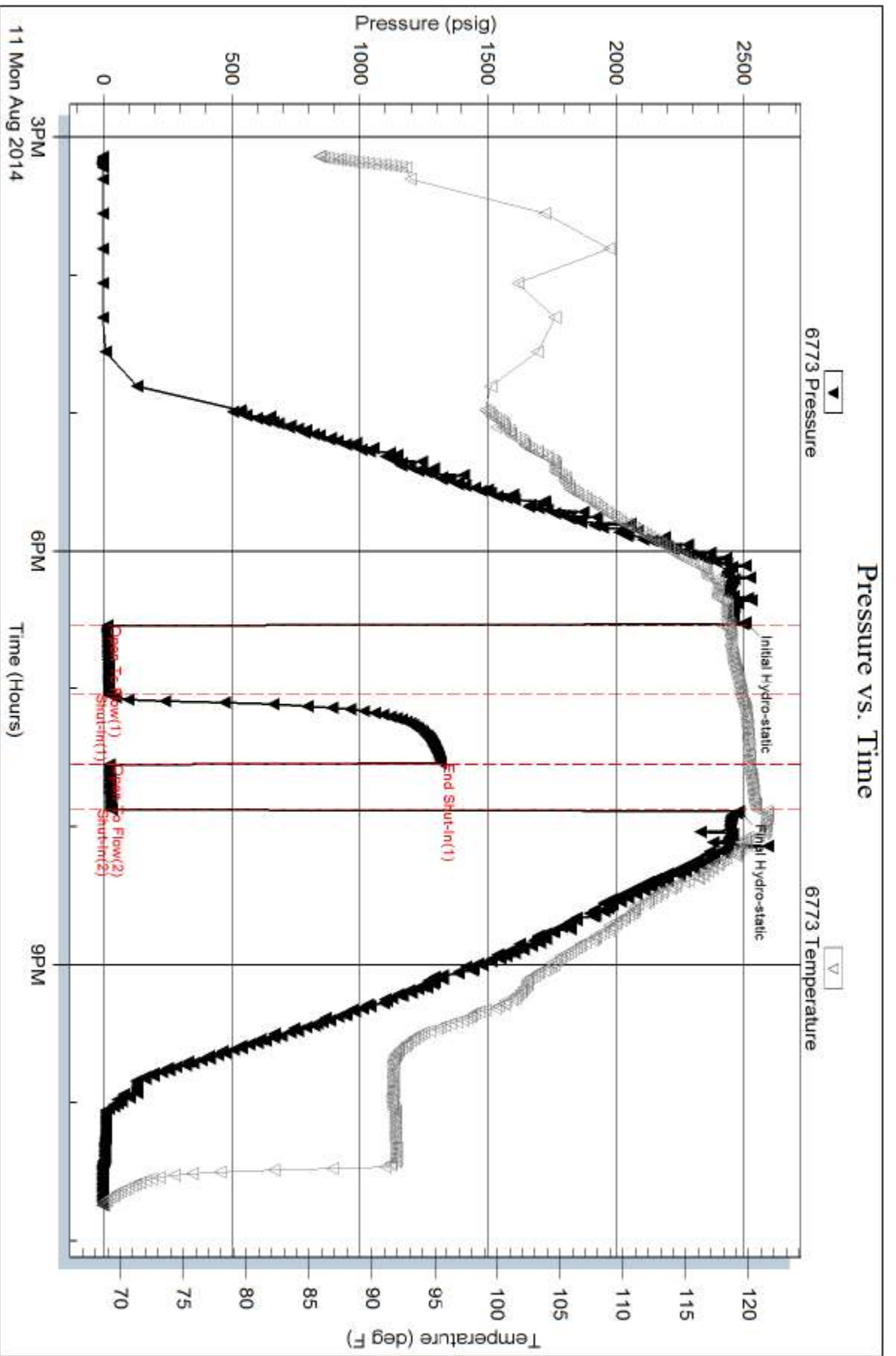
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

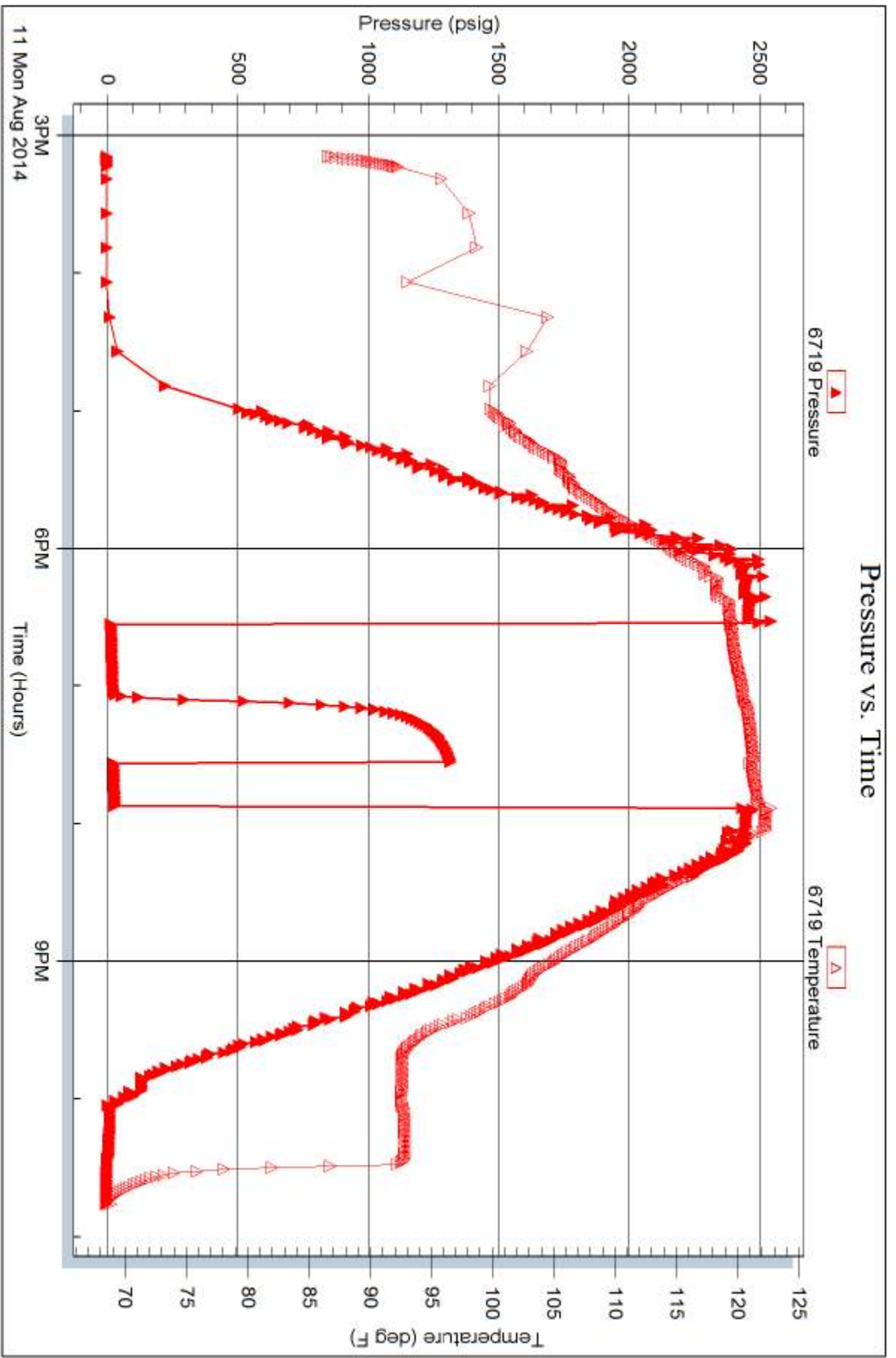


Serial #: 6719

Outside American Warrior, Inc.

Katherine #2-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 54131

Printed: 2014.08.13 @ 17:30:49



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54130**

Well Name & No. Katheeme # 2-19 Test No. 1 Date 8/10/14
 Company American Warrior, Inc. Elevation 2891 KB 2880 GL
 Address 3118 Cummings RD P.O. Box 399 Garden City, KS. 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Rig # 5
 Location: Sec. 19 Twp. 24s Rge. 30w Co. Gray State KS.

Interval Tested 4870 - 4930 Zone Tested MORROW
 Anchor Length 60' Drill Pipe Run 4615 Mud Wt. 9.5
 Top Packer Depth 4865 Drill Collars Run 248 Vis 48
 Bottom Packer Depth 4870 Wt. Pipe Run Ø WL 9.6
 Total Depth 4930 Chlorides 3,900 ppm System LCM 2[#]

Blow Description IF: Weak blow. Surf., - 1 1/2".
ISI: No blow.
FF: Fair blow. Surf., - 8". Bleed off in 4 mins.
FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>		<u>5</u>		<u>95</u>
<u>60</u>	<u>GOWCM</u>	<u>40</u>	<u>30</u>	<u>5</u>	<u>25</u>
<u>60</u>	<u>GOWCM</u>	<u>33</u>	<u>35</u>	<u>5</u>	<u>27</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140' BHT 121° Gravity N.A. API RW N.C @ —° F Chlorides 3,900 ppm

(A) Initial Hydrostatic <u>2510</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1440</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1512</u>
(C) First Final Flow <u>67</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1923</u>
(D) Initial Shut-In <u>1013</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2200</u>
(E) Second Initial Flow <u>73</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0113</u>
(F) Second Final Flow <u>98</u>	<input checked="" type="checkbox"/> Mileage <u>(254)</u> 393.70	Comments _____
(G) Final Shut-In <u>1137</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2478</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>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1968.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1968.70</u>	

Approved By _____ Our Representative Matthew A. Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54131

Well Name & No. Katherine # 2-19 Test No. 2 Date 8/11/14
 Company American Warrior, Inc. Elevation 2891 KB 2880 GL
 Address 3118 Cummings RD P.O. Box 399 Garden City, KS. 67846
 Co. Rep / Geo. Kevin Timson Rig Duke Rig # 5
 Location: Sec. 19 Twp. 24s Rge. 30w Co. GRAY State KS.

Interval Tested 4990 - 5010 Zone Tested St. Louis
 Anchor Length 20' Drill Pipe Run 4,747 Mud Wt. 9.3
 Top Packer Depth 4985 Drill Collars Run 248 Vis 62
 Bottom Packer Depth 4990 Wt. Pipe Run Q WL 8.8
 Total Depth 5010 Chlorides 3,900 ppm System LCM 2#

Blow Description IF: Weak blow. Surf., - 1/4".
ISI: No blow.
FF: No blow.
FSI: Pulled Test

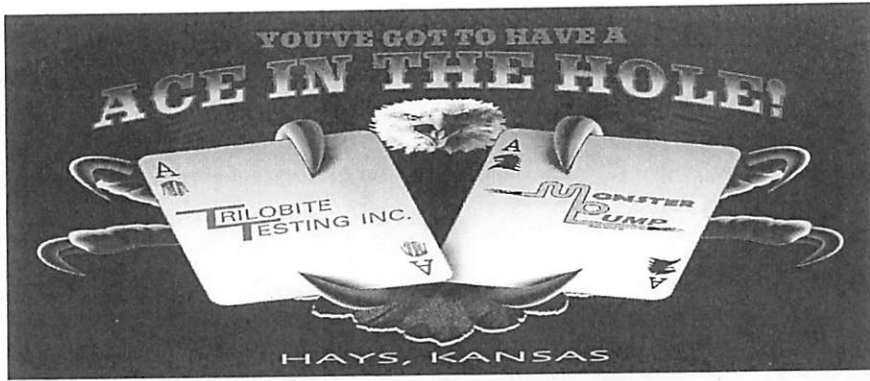
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>DElg Mud w/IRC Drl</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20' BHT 121° Gravity N.A. API RW Nic @ — °F Chlorides 3,900 ppm
 (A) Initial Hydrostatic 2506 Test 1350 T-On Location 1450
 (B) First Initial Flow 15 Jars 250 T-Started 1508
 (C) First Final Flow 23 Safety Joint 75 T-Open 1832
 (D) Initial Shut-In 1318 Circ Sub _____ T-Pulled 1953
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 2244
 (F) Second Final Flow 29 Mileage 254 393.70 Comments _____
 (G) Final Shut-In Pulled Sampler _____
 (H) Final Hydrostatic 2481 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 10 Extra Recorder _____ Sub Total 0
 Final Shut-In Pulled Day Standby _____ Total 2068.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2068.70

Approved By _____ Our Representative [Signature]

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TRK # 53
 MATT Smith
 Pratt Shop

Rig: DUKE #5

	Name	M	L	XL	2X	3X	4X
Morning Tower	1 Jason Jellison			✓			
	2 LARRY COSS				X		
	3 Richard Rawson			✓			
	4 Damon Mosshart			✓			

Evening Tower	1 Frank Roddy		✓				
	2 Sonny Morris		✓				
	3 Keifer Heade		✓				
	4 Tyler Cleaver		✓				

Daylights	1 Roy Craig			✓	X		
	2 Charles Stout				X		
	3 marvin moon				X		
	4 Harold McQuade		✓				

Tool Pusher	KENNETH M'GUIRE			✓			
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Geologist	Kevin Timson		✓				
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Relief →

Mike					X		
Tony					X		
MARSHAL STATHS				X			
Back-up Hand					X		

OR Gary will give to Tool Pusher they live by each (2-Blocks)

* Probably Send to Scott City Shop they will move over by Charleston, Geary Co.