TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mike Kelso Oil Inc**

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

FHW-Wierman #15-1

15-17s-21w Ness,KS

Start Date: 2016.09.28 @ 08:07:00
End Date: 2016.09.28 @ 15:49:00
Job Ticket #: 63482 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.09.29 @ 13:49:15

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 DST#:3

Test Start: 2016.09.28 @ 08:07:00

GENERAL INFORMATION:

Formation: Cherokee Sands 'A' a
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:53:15
Time Test Ended: 15:49:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84

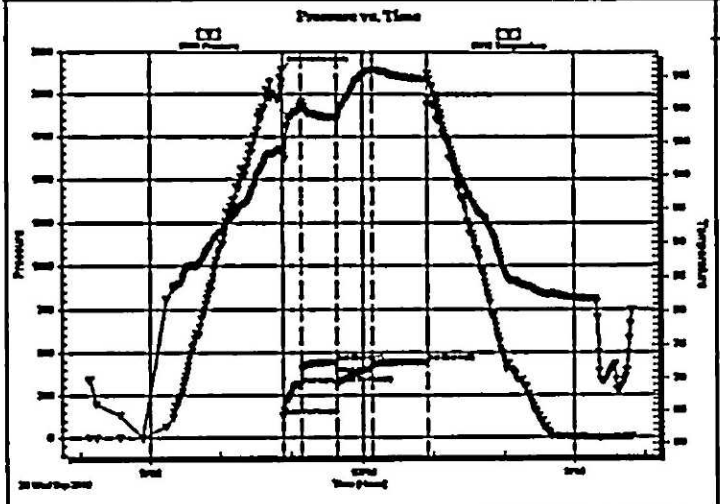
Interval: 4083.00 ft (KB) To 4148.00 ft (KB) (TVD)
Total Depth: 4148.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2210.00 ft (KB)
2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8938 Inside
Press@RunDepth: 422.42 psig @ 4153.00 ft (KB)
Start Date: 2016.09.28 End Date: 2016.09.28
Start Time: 08:07:15 End Time: 15:49:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm: 2016.09.28 @ 10:53:00
Time Off Btm: 2016.09.28 @ 12:54:45

TEST COMMENT: 15-IF- BOB in 3 Minutes
30-ISI-Weak Surface Blow; Built to 1/2" died
30-FF-BOB in 9 Minutes; blow died at 29 minute mark
45-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.38	103.67	Initial Hydro-static
1	131.01	103.03	Open To Flow (1)
16	312.41	111.08	Shut-In(1)
45	446.70	108.81	End Shut-In(1)
46	315.67	108.58	Open To Flow (2)
76	422.42	116.08	Shut-In(2)
122	446.85	114.65	End Shut-In(2)
122	1934.35	115.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Mud w/ few spots oil	1.42
400.00	MCW 30% M 70%W	3.83
300.00	Water	4.25

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

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2203.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 9120 Outside
Press@RunDepth: psig @ 4153.00 ft (KB)
Start Date: 2016.09.28 End Date: 2016.09.28
Start Time: 08:07:15 End Time: 15:49:00

Capacity: 8000.00 psig
Last Calib.: 2016.09.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF- BOB in 3 Minutes
30-ISI-Weak Surface Blow; Built to 1/2" died
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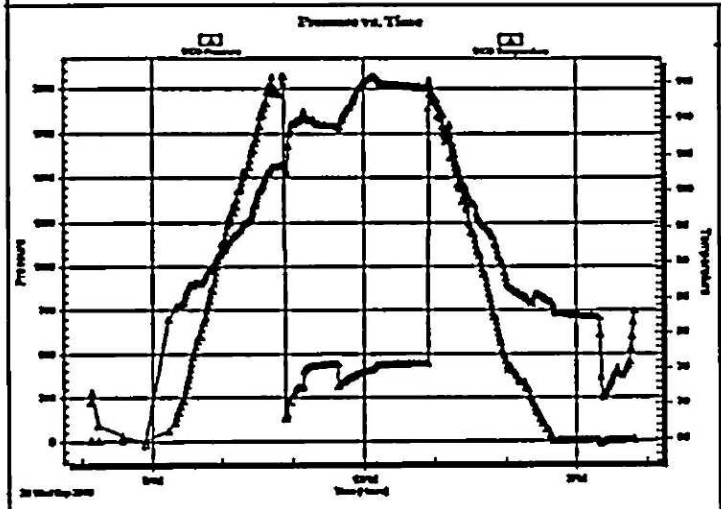


PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Mud w/ few spots oil	1.42
400.00	MCW 30% M 70%W	3.83
300.00	Water	4.25

*Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 **DST#: 3**

Test Start: 2016.09.28 @ 08:07:00

Tool Information

Drill Pipe:	Length:	3688.00 ft	Diameter:	3.82 inches	Volume:	52.28 bbl	
Heavy Wt. Pipe:	Length:	460.00 ft	Diameter:	2.70 inches	Volume:	3.26 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	55.54 bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	4148.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	69.00 ft
Tool Length:	93.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	82000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	50000.00 lb
Final	56000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4125.00		
Shut In Tool	5.00			4130.00		
Hydraulic tool	5.00			4135.00		
Jars	5.00			4140.00		
Safety Joint	3.00			4143.00		
Packer	5.00			4148.00	24.00	Bottom Of Top Packer
Packer - Shale	4.00			4152.00		
Stubb	1.00			4153.00		
Recorder	0.00	9120	Outside	4153.00		
Recorder	0.00	8938	Inside	4153.00		
Perforations	25.00			4178.00		
Change Over Sub	1.00			4179.00		
Drill Pipe	32.00			4211.00		
Change Over Sub	1.00			4212.00		
Perforations	1.00			4213.00		
Bullnose	4.00			4217.00	69.00	Anchor Tool
Total Tool Length:	**93.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase KS 67524+0467

ATTN: Mike Kelso

15-17s-21w Ness,KS

FHW-Wierman #15-1

Job Ticket: 63482 DST#:3

Test Start: 2016.09.28 @ 08:07:00

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:	5700 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

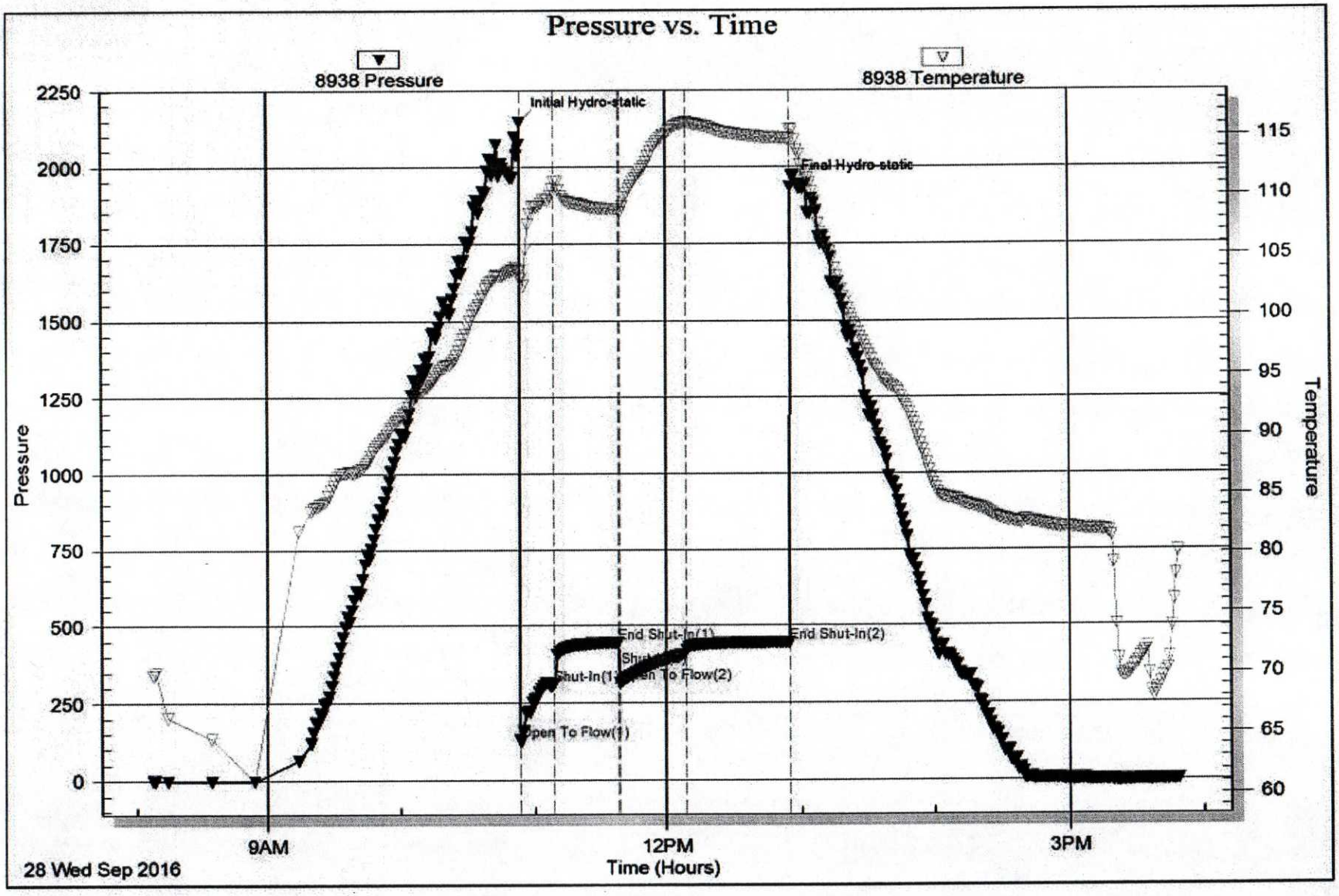
Recovery Table

Length ft	Description	Volume bbl
200.00	Mud w/ few spots oil	1.416
400.00	MCW 30% M 70%W	3.826
300.00	Water	4.253

Total Length: 900.00 ft Total Volume: 9.495 bbl

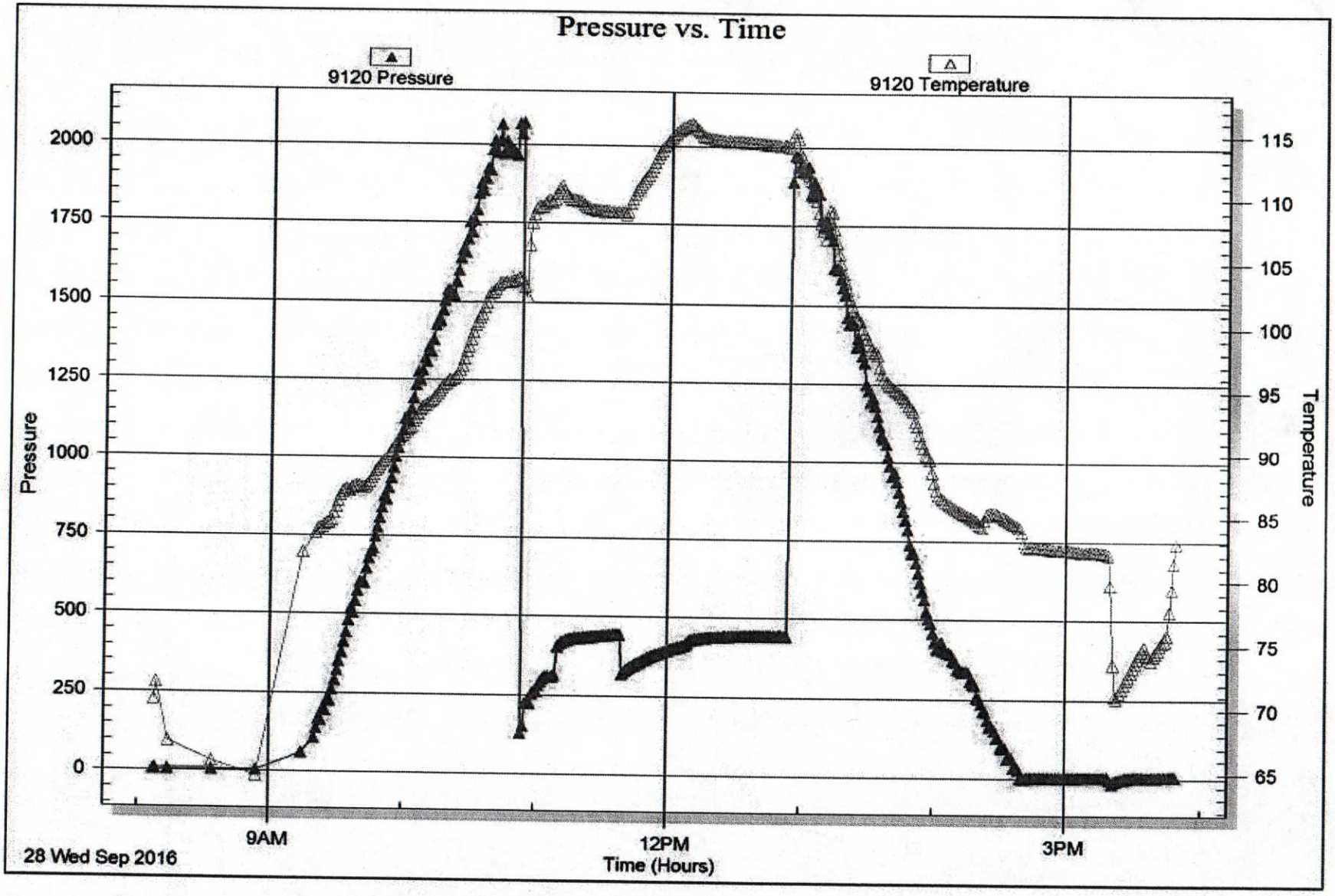
Num Fluid Samples: 0 . Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8938 **Inside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63482 Printed: 2016.09.29 @ 13:49:16

Serial #: 9120 **Outside** Mike Kelso Oil Inc FHW-Wierman #15-1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63482 Printed: 2016.09.29 @ 13:49:17

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63482

Well Name & No. F.H.W.-Wiesman #15-1 Test No. 3 Date 09/28/2016
Company Mike Kelso Oil Inc Elevation 2210 KB 2203 GL
Address PO BOX 467 Chase KS 67524 +0467
Co. Rep / Geo. Pat Dennihan/Sean Dennihan/Mike Kelso Rig Skytop #1
Location: Sec. 15 Twp. 17S Rge. 21W Co. Ness State KS

Interval Tested 4083-4148 Zone Tested Cherokee Sands 'A' and 'B'
Anchor Length 65 Drill Pipe Run 3688 Mud Wt. 9.4
Top Packer Depth 4078 Drill Collars Run — Vis 59
Bottom Packer Depth 4083 Wt. Pipe Run 460 WL 8.8
Total Depth 4148 Chlorides 4000 ppm System LCM 2#

Blow Description IF - BOB in 3 minutes
ISI - Weak Surface Blow; built to ½ inch; died
FF - BOB in 9 minutes; Blow died @ 29 min mark
FSI - No Blow

Rec 200	Feet of Mud w/ oil spots	%gas	%oil	%water	100	%mud
Rec 400	Feet of MCW	%gas	%oil	70 %water	30	%mud
Rec 300	Feet of Water	%gas	%oil	100 %water		%mud
Rec	Feet of	%gas	%oil	%water		%mud
Rec	Feet of	%gas	%oil	%water		%mud

Rec Total 900 BHT 115° Gravity — API RW .8 @ 90 °F Chlorides 5700 ppm

(A) Initial Hydrostatic	2144	☒ Test	1050	T-On Location	06:23
(B) First Initial Flow	131	☒ Jars	250	T-Started	08:07
(C) First Final Flow	312	☒ Safety Joint	75	T-Open	10:53
(D) Initial Shut-In	446	☐ Circ Sub		T-Pulled	12:53
(E) Second Initial Flow	315	☐ Hourly Standby		T-Out	15:48
(F) Second Final Flow	422	☒ Mileage	84 RT	Comments	
(G) Final Shut-In	446	☐ Sampler			
(H) Final Hydrostatic	1934	☐ Straddle		☐ Ruined Shale Packer	
		☒ Shale Packer	250	☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1788
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1788		

Approved By _____ Our Representative Spencer J. Strait

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