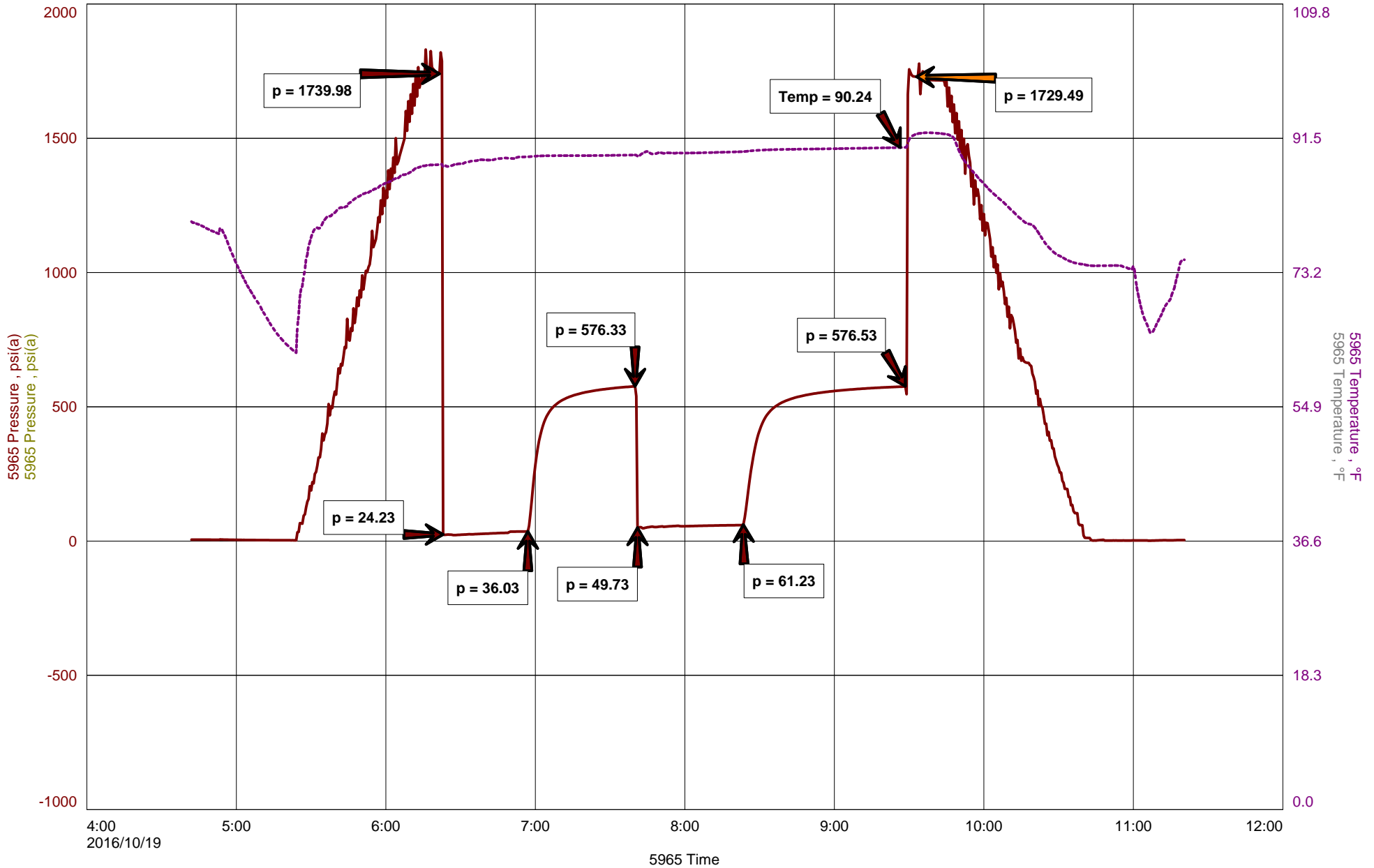


LD Drilling
DST 4 Lower Reagan 3574-3622
Start Test Date: 2016/10/19
Final Test Date: 2016/10/19

Miller A 1-5
Formation: Lower Reagan
Job Number: W248

Miller A 1-5 DST 4





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Larry Friend	Job Number	W248
Contact		Miller A 1-5	Representative	Wilbur Steinbeck
Well Name		DST 4 Lower Reagan 3574-3622	Well Operator	LD
Unique Well ID		5-3s-23w Norton/Kan	Report Date	2016/10/19
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Larry Friend

Test Information

Test Type	Conventional		
Formation	Lower Reagan		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2016/10/19	Start Test Time	04:42:00
Final Test Date	2016/10/19	Final Test Time	11:20:00

Test Recovery

Recovery
 10' Free Oil
 90' WCM With oil spots 20%W 80%M
 100' Total Fluid

Tool Sample=WOCM 10%W 35%O 55%M

Corrected Gravity=19.6

RW=26



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Miller A 1-5 DST 4

TIME ON: 4:42
TIME OFF: 11:20

Company LD Drilling Lease & Well No. Miller A 1-5
Contractor LD Charge to LD
Elevation 2343 KB Formation _____ Reagan Effective Pay _____ Ft. Ticket No. W247
Date 10/19/16 Sec. 5 Twp. _____ 3 S Range _____ 23 W County _____ Norton State KANSAS
Test Approved By Larry Friend Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 4 Interval Tested from 3574 ft. to 3622 ft. Total Depth 3622 ft.
Packer Depth 3569 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3574 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3560 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3575 ft. Recorder Number 5587 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1000 P.P.M. Drill Pipe Length 3416 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number J/J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 48 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 2 1/2" No Blow
2nd Open: Built to 4" No Blow

Recovered 10 ft. of Free Oil
Recovered 90 ft. of WCM with oil spots 20%W 80%M
Recovered 100 ft. of Total Fluid

Recovered _____ ft. of _____	75Miles RT	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>Tool Sample=WOCM 10%W 35%O 55%M</u>		Insurance
<u>Corrected Gravity=19.6</u>		
<u>RW=26,000</u>		Total

Time Set Packer(s) 6:25 A.M. P.M. Time Started Off Bottom 9:25 A.M. P.M. Maximum Temperature 90

Initial Hydrostatic Pressure..... (A) 1740 P.S.I.
Initial Flow Period..... Minutes 30 (B) 24 P.S.I. to (C) 36 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 576 P.S.I.
Final Flow Period..... Minutes 45 (E) 50 P.S.I. to (F) 61 P.S.I.
Final Closed In Period..... Minutes 60 (G) 576 P.S.I.
Final Hydrostatic Pressure..... (H) 1729 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.