



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Barnes 2-21 Dst 2

TIME ON: 15:45
TIME OFF: 22:48

Company L.D Drilling Lease & Well No. Barnes 2-21
Contractor Petromark Drilling Charge to L.D Drilling
Elevation 1932 Est Formation _____ Arb Effective Pay _____ Ft. Ticket No. RR163
Date Apr-6-2015 Sec. 21 Twp. _____ 18 S Range _____ 14 W County _____ Barton State KANSAS
Test Approved By Jim Musgrove Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 3421 ft. to 3460 ft. Total Depth 3460 ft.
Packer Depth 3416 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3421 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3411 ft. Recorder Number 0062 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3425 ft. Recorder Number 5954 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 59 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 10 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 9500 P.P.M. Drill Pipe Length 3273 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NA Reversed Out NA Anchor Length 39 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow (BOB in 11 1/2 mins) 1 " BB
2nd Open: 1/4" Blow (BOB in 19 mins) 1 1/2" BB

Recovered <u>220</u> ft. of <u>GIP</u>	
Recovered <u>249</u> ft. of <u>O</u> 100% O 35 Gravity @ 60 Deg	
Recovered <u>32</u> ft. of <u>GMO</u> 10% G 60% O 30% M	
Recovered <u>123</u> ft. of <u>WM w/ HO</u> 90% O 5% W 5% M	
Recovered <u>404</u> ft. of <u>Total Fluid</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Tool Sample</u> 85% O 5% W 10% M	Insurance
	Total

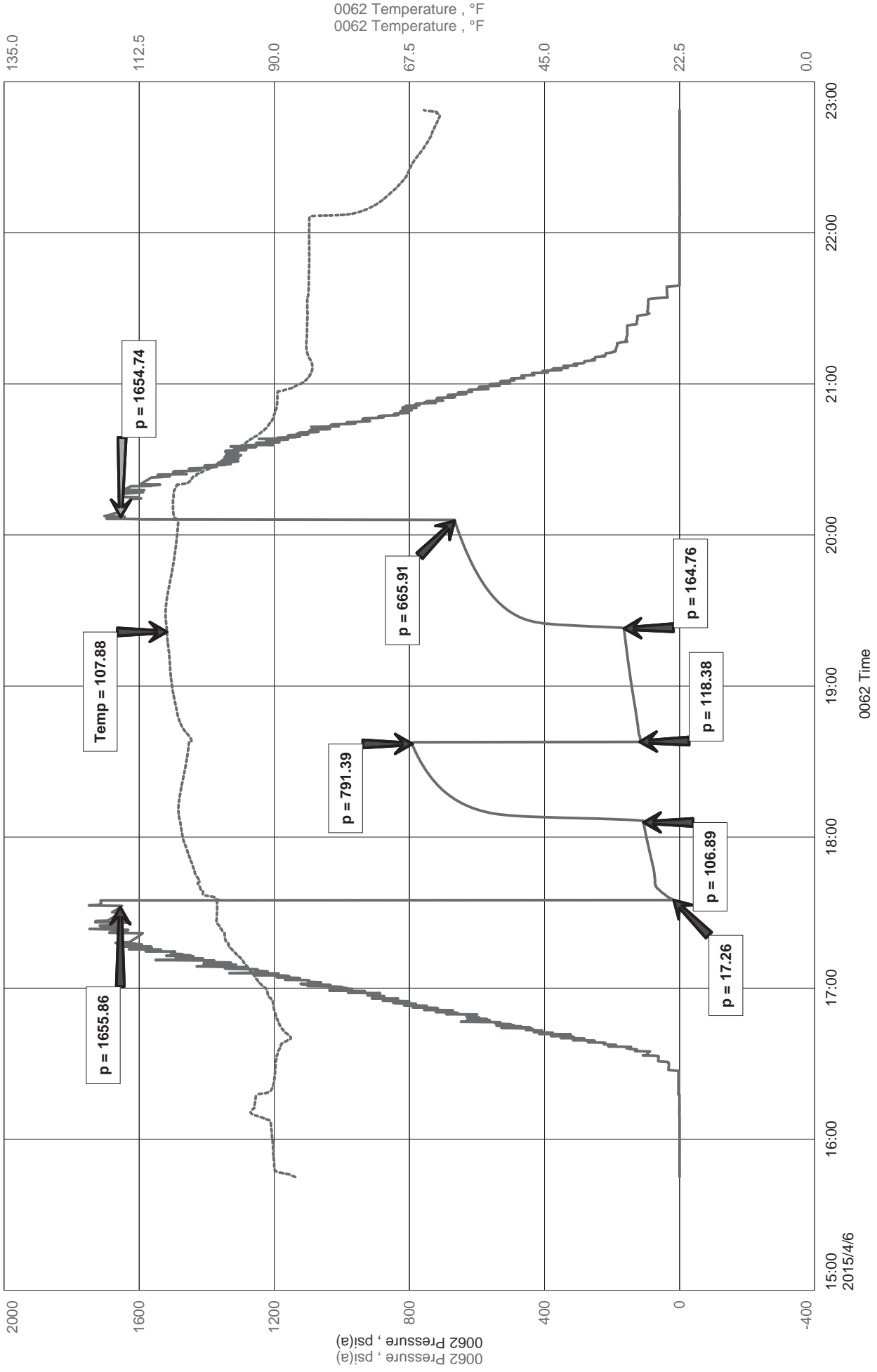
Time Set Packer(s) 5:35 PM A.M. P.M. Time Started Off Bottom 8:05 PM A.M. P.M. Maximum Temperature 108
Initial Hydrostatic Pressure..... (A) 1656 P.S.I.
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 109 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 791 P.S.I.
Final Flow Period..... Minutes 45 (E) 118 P.S.I. to (F) 165 P.S.I.
Final Closed In Period..... Minutes 45 (G) 666 P.S.I.
Final Hydrostatic Pressure..... (H) 1655 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.

L.D Drilling
 Dst 2 Arbuckle (3421-3460)
 Start Test Date: 2015/04/06
 Final Test Date: 2015/04/06

Barnes 2-21
 Formation: Dst 2 Arbuckle (3421-3460)
 Pool: Infield
 Job Number: RR163

Barnes 2-21





Diamond Testing LLC
 P.O. Box 157
 Hoisington KS 67544

Ricky Ray - Tester
(620) 617-7261

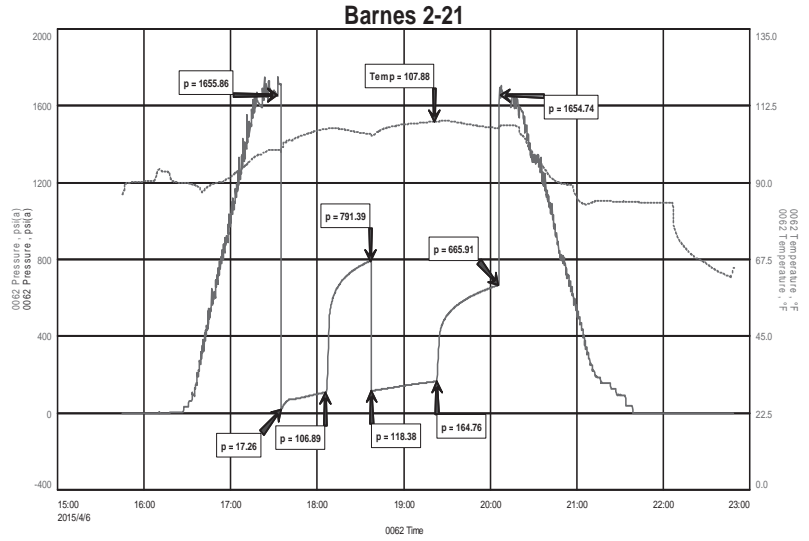
Wellsite Report

General Information

Company Name	L.D Drilling
Contact	L.D Davis
Well Operator	L.D Drilling
Well Name	Barnes 2-21
Surface Location	Sec: 21-18s-14w (Barton County)
Field	NA
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Jim Musgrove
Gauge Name	0062

Test Information

Job Number	RR163
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Arbuckle (3421-3460)
Start Test Date	2015/04/06 YYYY/MM/DD
Start Test Time	15:45:00 HH:mm:ss
Final Test Date	2015/04/06 YYYY/MM/DD
Final Test Time	22:48:00 HH:mm:ss



Test Results

Recovery:

220'	GIP			
249'	O	100% O	35 Gravity @ 60 Deg	
32'	GMO	10% G	60% O	30% M
123'	WM w/ HO	90% O	5% W	5% M
404'	Total Fluid			

Tool Sample: 85% O 5% W 10% M