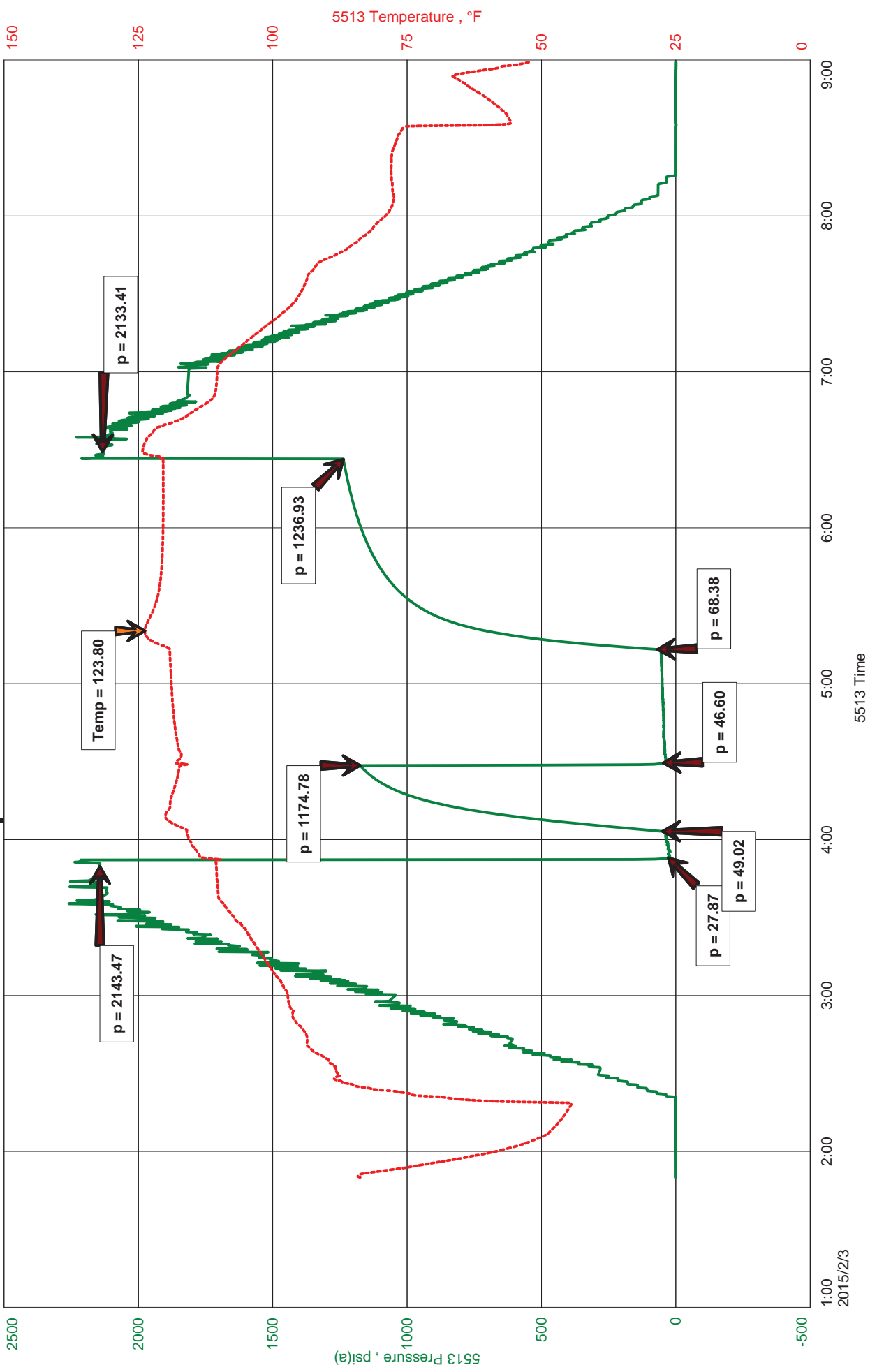


LB Exploration, Inc  
DST #3 Mississippi 4456-4472  
Start Test Date: 2015/02/03  
Final Test Date: 2015/02/03

Hopkins Ranch 31 #1  
Formation: Mississippi  
Pool: Wildcat  
Job Number: K222

# Hopkins Ranch 31 #1





**DIAMOND TESTING**  
P. O. Box 157  
**HOISINGTON, KANSAS 67544**  
(316) 653-7550  
**GAS VOLUME REPORT**

Company LB Exploration, Inc Lease & Well No. Hopkins Ranch 31 #1  
Date 2-3-15 Sec. 31 Twp. 32S Rge. 13W Location \_\_\_\_\_ County Barber State KS  
Drilling Contractor Ninnescah #101 Formation Mississippi DST No. 3  
Remarks: Sample Taken 20 Min. into 2nd Open.

**INITIAL FLOW**

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

**FINAL FLOW** IW

Time O'Clock	Orifice Size	Gauge	CF/D
10	.5 in.	3.5# in.	64,000
20	.5 in.	3# in.	59,200
30	.5 in.	3# in.	59,200
40	.5 in.	3# in.	59,200
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW



**JASON MCLEMORE**

**CELL # 620-617-0527**

**General Information**

<b>Company Name</b>	LB Exploration, Inc	<b>Job Number</b>	K222
<b>Contact</b>	Steve Petermann	<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Hopkins Ranch 31 #1	<b>Well Operator</b>	Steve Petermann
<b>Unique Well ID</b>	DST #3 Mississippi 4456-4472	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	31-32s-13w-Barber	<b>Qualified By</b>	Steve Petermann
<b>Field</b>	Palmer	<b>Test Unit</b>	6
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Mississippi	<b>Well Operator</b>	Steve Petermann
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2015/02/03
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2015/02/03	<b>Start Test Time</b>	01:50:00
<b>Final Test Date</b>	2015/02/03	<b>Final Test Time</b>	08:58:00

**Test Results**

**RECOVERED:**

80	VSOCM, 1% Oil, 99% Mud
40	OCMW, 20% Oil, 60% Water, 20% Mud
120	TOTAL FLUID



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: hop31dst3

TIME ON: 1:50 AM  
TIME OFF: 8:58 AM

Company LB Exploration, Inc Lease & Well No. Hopkins Ranch 31 #1  
Contractor Ninnescah 101 Charge to LB Exploration, Inc  
Elevation GL 1715 Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. K222  
Date 2-3-15 Sec. 31 Twp. 32 S Range 13 W County Barber State KANSAS  
Test Approved By Steve Petermann Diamond Representative Jason McLemore

Formation Test No. 3 Interval Tested from 4456 ft. to 4472 ft. Total Depth 4472 ft.  
Packer Depth 4451 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4456 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4444 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4445 ft. Recorder Number 5588 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6000 P.P.M. Drill Pipe Length 4431 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? No Reversed Out No Anchor Length 16 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: BOB in 20 Seconds, No Blowback  
2nd Open: BOB on Open, Gas To Surface in 8 Min., Gaging Gas, No Blowback

Recovered 80 ft. of VSOCM, 1% Oil, 99% Mud  
Recovered 40 ft. of OCMW, 20% Oil, 60% Water, 20% Mud  
Recovered 120 ft. of TOTAL FLUID

Recovered _____ ft. of <u>CHLORIDES: 84,000</u>	Price Job
Recovered _____ ft. of <u>PH: 6</u>	Other Charges
Recovered _____ ft. of <u>RW: .130 @ 25</u>	Insurance
Remarks: _____	Total

Time Set Packer(s) 3:55 am A.M. P.M. Time Started Off Bottom 6:20 am A.M. P.M. Maximum Temperature 124

Initial Hydrostatic Pressure..... (A) 2143 P.S.I.  
Initial Flow Period..... Minutes 10 (B) 28 P.S.I. to (C) 49 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1175 P.S.I.  
Final Flow Period..... Minutes 45 (E) 47 P.S.I. to (F) 68 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1237 P.S.I.  
Final Hydrostatic Pressure..... (H) 2133 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.