



# DIAMOND TESTING, LLC

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STNRT3DST1

Company NGH Oil Operations Lease & Well No. Steinert "B" No. 3  
 Elevation 1865 KB Formation Toronto-Lansing/Kansas City "C" Effective Pay \_\_\_\_\_ Ft. Ticket No. M707  
 Date 9-16-14 Sec. 21 Twp. 15S Range 15W County Russell State Kansas  
 Test Approved By Steve Reed Diamond Representative Mike Cochran

Formation Test No. 1 Interval Tested from 3,069 ft. to 3,134 ft. Total Depth 3,134 ft.  
 Packer Depth 3,064 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3,069 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,058 ft. Recorder Number 0063 Cap. 5,000 psi.  
 Bottom Recorder Depth (Outside) 3,071 ft. Recorder Number E1150 Cap. 5,000 psi.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Royal Drilling, Inc. - Rig 1 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
 Mud Type Chemical Viscosity 55 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
 Weight 8.7 Water Loss 8.4 cc. Drill Pipe Length 3,044 ft I.D. 3 1/2 in.  
 Chlorides 3,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.  
 Bars: Make Sterling Serial Number Not Run Anchor Length 33' perf. w/32' drill pipe Size 4 1/2-FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong, surface blow increasing. Off bottom of bucket in 1 1/2 mins. No blow back during shut-in.  
 2nd Open: Strong, surface blow increasing. Off bottom of bucket in 1 1/2 mins. Fair, 4 in. blow back during shut-in.

Recovered 360 ft. of gas in pipe  
 Recovered 267 ft. of gas & heavy oil cut mud = 3.799410 bbls. (Grind out: 4%-gas; 41%-oil; 55%-mud)  
 Recovered 267 ft. of TOTAL FLUID = 3.799410 bbls.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 100%-oil w/some gassy bubbles (Gravity: 37.3 @ 60°)

Time Set Packer(s) 2:45 A.M. Time Started off Bottom 4:45 A.M. Maximum Temperature 96°  
 Initial Hydrostatic Pressure.....(A) 1481 P.S.I.  
 Initial Flow Period.....Minutes 15 (B) 60 P.S.I. to (C) 106 P.S.I.  
 Initial Closed In Period.....Minutes 45 (D) 397 P.S.I.  
 Initial Flow Period.....Minutes 15 (E) 143 P.S.I. to (F) 187 P.S.I.  
 Initial Closed In Period.....Minutes 45 (G) 375 P.S.I.  
 Initial Hydrostatic Pressure.....(H) 1458 P.S.I.

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	NGH OIL OPERATIONS	Job Number	M707
Well Name	STEINERT "B" #3	Representative	MIKE COCHRAN
Unique Well ID	DST #1 TORONTO-LKC "C" 3069-3134	Well Operator	NGH OIL OPERATIONS
Surface Location	SEC 21-15S-15W RUSSELL CO.KS.	Report Date	2014/09/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	STEVE REED
		Test Unit	NO. 3

### Test Information

Test Type	CONVENTIONAL		
Formation	DST #1 TORONTO-LKC "C" 3069-3134		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/09/16	Start Test Time	00:50:00
Final Test Date	2014/09/16	Final Test Time	07:10:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

Remarks RECOVERED:  
 360' GIP  
 267' GHOCM 4% GAS, 41% OIL, 55% MUD  
 267' TOTAL FLUID

GRAVITY: 37.3 @ 60 DEG

TOOL SAMPLE: 100% OIL W/ SOME GASSY BUBBLES

NGH OIL OPERATIONS  
DST #1 TORONTO-LKC "C" 3069-3134  
Start Test Date: 2014/09/16  
Final Test Date: 2014/09/16

STEINERT "B" #3  
Formation: DST #1 TORONTO-LKC "C" 3069-3134  
Pool: WILDCAT  
Job Number: M707

# STEINERT "B" #3

