



DIAMOND TESTING, LLC
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HOISINGTON, KANSAS 67544
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RHM3DST2

Company Richlan Drilling Lease & Well No. Rahm No. 3
Elevation 2216 EGL Formation Mississippi Effective Pay _____ Ft. Ticket No. M584
Date 11-27-13 Sec. 22 Twp. 19S Range 22W County Ness State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative Mike Cochran

Formation Test No. 2 Interval Tested from 4,289 ft. to 4,345 ft. Total Depth 4,345 ft.
Packer Depth 4,284 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,289 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,271 ft. Recorder Number 0063 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 4,291 ft. Recorder Number E1150 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 8 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 57 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 7.6 cc. Drill Pipe Length 4,257 ft I.D. 3 1/2 in.
Chlorides 3,000 P.P.M. Test Tool Length 32 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 24' 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: Weak, surface blow increasing to 2 ins. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to 1 1/4 ins. No blow back during shut-in.

Recovered 400 ft. of gas in pipe
Recovered 2 ft. of clean oil = .028460 bbls. (Grind out: 100%-oil) Gravity: 44 @ 60°
Recovered 35 ft. of gas & slightly oil specked mud = .498050 bbls. (Grind out: 1%-gas; 2%-oil; 97%-mud)
Recovered 37 ft. of TOTAL FLUID = .526510 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 6%-oil; 94%-mud

Time Set Packer(s) 6:00 P.M. Time Started off Bottom 8:00 P.M. Maximum Temperature 106°
Initial Hydrostatic Pressure.....(A) 2064 P.S.I.
Initial Flow Period.....Minutes 30 (B) 10 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 567 P.S.I.
Final Flow Period.....Minutes 30 (E) 19 P.S.I. to (F) 24 P.S.I.
Final Closed In Period.....Minutes 30 (G) 141 P.S.I.
Final Hydrostatic Pressure.....(H) 2056 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RICHLAN DRILLING, A GENERAL PARTNERSHIP	Job Number	M584
Well Name	RAHM #3	Representative	MIKE COCHRAN
Unique Well ID	DST #2 4289-4345 MISSISSIPPIAN	Well Operator	RICHLAN DRILLING, A GENERAL PARTNERSHIP
Surface Location	SEC.22-19S-22W NESS CO.KS.	Report Date	2013/11/27
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	BOB SCHREIBER
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST #2 4289-4345 MISSISSIPPIAN		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/11/27	Start Test Time	15:30:00
Final Test Date	2013/11/27	Final Test Time	10:40:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
400' GIP
~2' CO 100% OIL
~35' GSOSM 1% GAS, 2% OIL, 97% MUD
~37' TOTAL FLUID

GRAVITY: 44.0 @ 60 DEG

TOOL SAMPLE: 6% OIL, 94% MUD

RAHM #3

