

National Petroleum Reserves, Inc
Drilling / Completion Progress Report

APR 16 2003

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KCC WICHITA

A.P.I. # 15-007-22641-0000
 ACO-1 filed _____

Lease HALL Well# 1 Spot Location 170' W N/2 S/2 NE/4
 Legal: Section 31, T31s R12w County Barber
 Drilling Contractor: DUKE Drilling Rig #8 Toolpusher: Rich Wheeler
 Geologist: Paul Gunzelman Spud 4/11/01 DC 4/22/01 Completed _____
 Surface Casing/cmnt 335' 8 5/8" w/215 sks Prod. Casing/cmnt 4,575' 4 1/2" with 225 sks

Reference Wells

Well A: MOC #1 Hall W/2 SE NE Sec 31 Well B: Graves #1 Hall SW SW NE Sec 31

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Structural Comparison

Formation	Sample Top	Well A	Well B	Well C
Topeka LM	3009 (-1473)	-2	-9	
Kanwaka	3342 (-1806)	-6	-20	
Heebner Shale	3497 (-1961)	-2	+5	
Lower Douglass SS	3632 (-2096)	+1	+18	
Lansing	3685 (-2149)	-2	+2	
Mississippian	4180 (-2644)	+7	+6	
Viola	4420 (-2884)	+8	+4	
Simpson Sand	4502 (-2966)	+12	KCC	
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- 2/20/01 Location construction, dig working and reserve pits **CONFIDENTIAL**
- 2/23/01 Move Rig base onto location, too much mud; Drilling contractor decision to move off and let location dry
- 4/11/01 Move in, rig-up and Spud well. Set 335' of 8 7/8" surface casing w/215 sks of 60/40 pozmix cement, 2% gel 3% calc. chloride.
- 4/12/01 Drilled to 1760', trip out of hole w/plugged bit.
- 4/13/01 Drilling ahead at 2427'
- 4/14/01 Drilling ahead at 3055' Minor drilling fluids loss, mud-up, 8#s lcm/gal
- 4/15/01 Drilling ahead at 3419', lost circulation (120 bbl) regained full returns
- 4/16/01 Mixing mud, lost circulation at 3400'. Rig up Log Tech, ran temperature survey. Rig up Acid Services, squeeze lost circulation zone with 100 sacks of cement. Waiting on cement.
- 4/17/01 Trip in hole with bit, washed down to 3150' – no cement below 3150'. Lost returns. Rig up Acid Services, squeeze lost circulation with additional 100 sacks of cement. Trip in hole with bit, washed down to old TD. Regained circulation, full returns. Drilling ahead at 3620'.
- 4/18/01 DST#1, 3627' to 3641', Lower Douglas Sand, 30-30-45-75. Gas to surface in 4 minutes, 794 MCF – 30 min. 2nd open gauged 1022 MCF – 40 min. Recovery: 30' of gas cut mud, 60' of slightly gas cut muddy water. FPs: 126 – 215, 199 – 233, SIP: 1227 – 1205. Drilling ahead at 3650'.
- 4/19/01 Drilling ahead at 4190'.
- 4/20/01 Drilling ahead at 4490'. Preparing to run DST #2 in the Simpson Sand.

- 4/21/01 DST #2 4488 to 4514, Simpson Sand 30-30-30-60, Gas to surface in 21 min. gauge 22 MCF -30', 2nd open 30 MCF-30'. Rec: 435' Gassy sl. mud cut Oil, no water SIP's: 1647 - 1666 PSI, Fp's: 40 - 98, 106 - 170 PSI
- 4/22/01 Drilled to Rotary Total Depth of 4,999', Electric Log Evaluation confirms Lwr Douglas Sand gas pay and Simpson Sand oil pay. Additional pay zones indicated in the Upper Douglas Sand (gas) and the Mississippian Chert, (oil & gas). Possible pay also indicated in shallow gas zones of the Herrington - Krider and Indian Cave Sand.

SET PRODUCTION CASING

Release

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