

Betty Radke "A" #1R Drilling Report

Russell Oil, Inc.
 Betty Radke "A" #1R
 930'FS & 800'FW
 Section 31-15S-14W
 Russell County, Kansas
 #15-167-23,806

KB: 1916
 GL: 1907

Reference Well A: *Russell Oil Neal Nuss #1 2540'FS & 2060'FE Sec 31-15S-14W (oil)*

Reference Well B: *H&P Elsasser "A" #1 NW NW SW Sec 31-15S-14W (dry)*

Reference Well C: *Farmer Boxberger #1 NW NE Sec 31-15S-14W (oil)*

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>SAMPLE TOPS</u>				
Anhydrite	924 (+992)	flat	+6	+8
B/Anhydrite	950 (+966)	+4	+10	+13
Howard	2770 (-854)	-4	+12	NA
Topeka	2835 (-919)	-1	+17	+10
Heebner	3064 (-1148)	+1	+15	+9
Toronto	3080 (-1164)	+1	+17	+10
Lansing	3125 (-1209)	+1	+17	+10
Mun Creek	3267 (-1351)	+1	+13	+8
B/KC	3367 (-1451)	+1	+11	+11
Arbuckle	3372 (-1456)	+15	+36	+19
RTD	3430 (-1514)			

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>ELECTRIC LOG TOPS</u>				
Anhydrite	924 (+992)	flat	+6	+8
B/Anhydrite	954 (+962)	flat	+6	+9
Howard	2771 (-855)	-5	+11	NA
Topeka	2840 (-924)	-6	+11	+4
Heebner	3070 (-1154)	-5	+9	+3
Toronto	3086 (-1170)	-5	+11	+4
Lansing	3132 (-1216)	-6	+10	+3
Mun Creek	3268 (-1352)	flat	+12	+7
B/KC	3365 (-1449)	+3	+13	+14
Arbuckle	3369 (-1453)	+18	+39	+22
RTD	3432 (-1516)			

Sample Shows and Drill Stem Tests:

7am 5-26-12: Drilling at 3005'

Topeka Plattsmouth 50' zone:

Circulate 3026'

Limestone, cream; fossiliferous; oolitic, poor to fair interparticle and pinpoint porosity; medium golden brown subsaturated to mostly saturated stain; slight to fair show of free oil on break; good pungent odor. 6' drilling break

Topeka Plattsmouth 30' zone:

Limestone, cream; oolitic, subchalky; poor to fair pinpoint porosity; few pieces dark brown subsaturated stain; no show of free oil on break; fair odor. 3' drilling break

Toronto:

Circulate 3096'

DST #1

Limestone, cream; fossiliferous; sm pieces very oolitic, poor to fair interparticle; some vugular porosity; medium brown subsaturated stain – some pieces with possible crystalline porosity; slight show of free oil on break; fair odor in 20" circulation sample. 4' drilling break

DST #1:

*Trilobite Testing Co., Inc. - Hays
Brian Fairbank; Tester*

Toronto

3062-3196

1st Op: Tool Slid 15'; No Blow

No Blowback

2nd Op: No Blow; Flush Tool: No Help

No Blowback

Tester picked up one joint after tool slid to tag bottom....will look at test charts for any possible plugging...

Rec:

50' Mud

IFP: 36-37#/30"

ISIP: 49#/30"

FFP: 36-37#/30"

FSIP: 43#/30"

Do not see any plugging on flows...

No pipe strap taken...too windy

Lansing "A":

Circulate 3140'

DST #2

Limestone, cream-white; slightly dolomitic; oolitic; isolated vugular porosity; overall poor interparticle porosity; 2-3 pieces light brown spotty to subsaturated stain; slight to fair show of free oil; one piece with gas on break; no odor. *No drilling break*

Lansing "B":

Circulate 3156'

DST #2

Limestone, cream; fossiliferous; very rare vugular porosity; few pieces light brown spotty stain; slight to fair show of free oil; some gas on break; fair odor on break. 3' drilling break

7am 5-27-12: Tripping out for DST #2 at 3156'

DST #2:

Lansing “A-B”:

3094-3156

1st Op: Tool Slid 10’; Weak Bldg 6 ½”

No Blowback

2nd Op: Weak Bldg 6 ½”

No Blowback

Rec:

30’ Watery Mud (45%W, 55%M)

120’ MW (95% W, 5%M)

150’ Total Fluid

IFP: 42-71#/45”

ISIP: 589#/45”

FFP: 76-105#/60”

FSIP: 579#/60”

Chlor: 32,000 ppm

Tool continued to slide during test...1’ on 1st open; 1’ on initial shut-in; 8” on 2nd open; 6” on final shut-in...both opens show hydrostatic and mud pushed ahead of tool; Paul Simpson feels valid test...tore two packers...will add tank mud after DST #2 and circulate longer at test points.

Lansing “C”:

Circulate 3173’

DST #3

Limestone, white; dolomitic; oolitic; pelletoid; pieces oolitic porosity; good amount golden brown spotty to subsaturated stain; slight show of free oil – pinpoint beads on break; slight odor. 4’ drilling break

DST #3:

Lansing “C”:

3156-3173

1st Op: Weak Bldg 6”

No Blowback

2nd Op: No Blow first 6 minutes, then built 1”

No Blowback

Rec:

1’ Free Oil

74’ MW (95% W, 5%M)

75’ Total Fluid

IFP: 15-46#/45”

ISIP: 577#/45”

FFP: 49-63#/30”

FSIP: 530#/30”

Chlor: 48,000 ppm

Trilobite Testing Co., Inc. - Hays

Brian Fairbank; Tester

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7am 5-28-12: Drilling at 3190’

Lansing "F":

Circulate 3212'

DST #4

Limestone, cream; suboolitic; some pelletoid; poor interparticle porosity; several pieces golden brown spotty to subsaturated stain in dry sample; no show of free oil, no odor. 2' drilling break

DST #4:

Trilobite Testing Co., Inc. - Hays

Lansing "E-F":

Brian Fairbank; Tester

3182-3212

1st Op: No Blow

No Blowback

2nd Op: No Blow; Flush Tool: No Help

No Blowback

Rec:

1' Mud

IFP: 13-15#/30"

ISIP: 49#/30"

FFP: 16-17#/30"

FSIP: 53#/30"

Pipe Strap at 3212': 5.53 Board Short

No show in "G" zone... barren oolitic porosity...

Lansing "H":

DST #5

Limestone, cream-white; slightly fossiliferous; subchalky; poor interparticle porosity; 2-3 pieces light brown saturated stain; slight show of free oil; slight odor.

Lansing "I":

Circulate 3300'

DST #5

Limestone, cream; oolitic; some pelletoid; poor interparticle porosity; light brown subsaturated stain; very slight show of free oil – one piece with slight show of gas; slight odor.

Lansing "J":

Circulate 3322'

DST #5

Limestone, cream; few pieces slightly oolitic; overall dense; poor visible porosity; no show of free oil; no odor.

7am 5-29-12: Tripping out for DST #5 at 3322'

DST #5:

Trilobite Testing Co., Inc. - Hays

Lansing "H-J":

Paul Simpson; Tester

3264-3322

1st Op: Weak Blow; Died 15 minutes

No Blowback

2nd Op: Dead Blow

No Blowback

Rec:

5' Mud w/oil spots

IFP: 29-31#/20"

ISIP: 296#/30"

FFP: 32-32#/5"

FSIP: 259#/30"

Lansing "K":

Limestone, cream-white; slightly fossiliferous; subchalky; poor interparticle porosity; 2-3 pieces light brown saturated stain; slight show of free oil; slight odor.

Lansing "L":

Circulate 3372'

Limestone, cream; oolitic; some pelletoid; poor interparticle porosity; light brown subsaturated stain; very slight show of free oil – one piece with slight show of gas; slight odor.

Arbuckle Dolomite 0'-5'in: (-1461)

Circulate 3377'

DST #6

20 minute circulation sample: Dolomite; fine crystalline; poor to scattered fair intercrystalline porosity; scattered pieces light brown saturated stain; slight show of free oil – some gas on break; fair pungent odor.

40 minute circulation sample: Dolomite; fine to medium crystalline; poor to fair intercrystalline porosity; scattered vugular porosity; abundant pieces golden brown saturated stain; slight to fair show of free oil – some gas on break; good gassy pungent odor.

60 minute circulation sample: Dolomite; fine to medium crystalline; poor to fair intercrystalline porosity; scattered vugular porosity; abundant pieces golden brown very rich saturated stain; slight to fair show of free oil – some gas on break; good gassy pungent odor.

DST #6:

Arbuckle 0-5' in (-1461)

3365-3377

1st Op: BOB 30"

No Blowback

2nd Op: Weak Bldg 7 ½"

No Blowback

Trilobite Testing Co., Inc. - Hays

Brian Fairbank; Tester

Rec:

60' GIP

85' Free Oil (95%O, 5%M) – Gravity 36

30' HOCM (40%O, 60%M)

115' Total Fluid

IFP: 16-38#/30"

ISIP: 961#/30"

FFP: 40-56#/30"

FSIP: 844#/30”

Arbuckle Dolomite 5’-13’in: (-1469) *Circulate 3385’* **DST #7**

40 minute circulation sample: Dolomite; medium crystalline; some vugular porosity; poor to fair intercrystalline porosity; very friable; abundant pieces light golden brown subsaturated to saturated stain; fair show of free oil – some gas on break; fair to good gassy pungent odor. *Drilled 1-1-1-2-2-2-1-2.*

60 minute circulation sample: Dolomite; fine to medium crystalline; some pieces appear very dense; poor to fair intercrystalline porosity; many pieces friable; fair amount pieces light golden brown subsaturated to saturated stain; a few pieces subrhombic dolomite with barren or weakened stain; slight to fair show of free oil – some gas on break; fair gassy pungent odor. *The last two feet drilled may be water bearing...will run drill stem test to verify this...*

7am 5-30-12: Tripping out for DST #7 at 3385’

DST #7:

Arbuckle 5-13’ in (-1469)

3377-3385

1st Op: BOB 11”

Surface Blowback; Died 7 minutes

2nd Op: Weak Bldg 5”

No Blowback

Trilobite Testing Co., Inc. - Hays

Brian Fairbank; Tester

Rec:

60’ GIP

235’ Free Oil – Gravity 37

15’ WOCM (37%O, 3%W, 60%M)

250’ Total Fluid

IFP: 20-67#/45”

ISIP: 920#/30”

FFP: 70-103#/45”

FSIP: 774#/30”

Chlor: Too Small to Measure

Zones per Microlog:

Plattsmouth 50’ zn

Lansing “B”

Lansing “F”

Lansing “I”

Arbuckle

5 ½” production casing will be set Thursday morning...

FINAL REPORT

