

15-009-24903

20-19s-11w

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CONFIDENTIAL
MAR 27 2006
KCC

Rama Operating Co., Inc
Schartz # 4-20
1650 FSL & 1210 FWL Section 20-19s-11w
Barton County, Kansas
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RECEIVED
MAR 28 2006
KCC WICHITA

5 1/2 Production Set @ 3392

Contractor: Sterling Drilling Company Rig # 1

Commenced: 2-7-06

Completed: 2-12-06

Elevation: GL 1785', KB 1794'

Casing Program: Surface; 8 5/8" @ 274'
Production; 5 1/2" @ 3392

Samples: Samples saved and examined 2050' to Rotary Total Depth.

Drilling Time: One (1) foot drilling time recorded and kept 1900' to Rotary Total Depth.

Measurements: All depths measured from the Kelly bushing.

Formation Testing: none

Electric Log: By Log Tech; Dual Compensated Porosity, Dual Induction Log

Gas Detector: By Sterling Drilling

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<u>Formations</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Tarkio	2392	-598
Elmont	2447	-653
Howard	2598	-804
Topeka	2686	-892
Platsmouth	2856	-1062
Heebner	2947	-1153
Toronto	2963	-1169
Douglas	2976	-1182
Brown Lime	3065	-1271
Lansing	3085	-1291
Conglomerate	3351	-1557
Arbuckle	3372	-1578
Rotary Total Depth	3393	-1599
Log Total Depth	3392	-1598

(All tops and zones are corrected to Electric Log measurements)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

Topeka Section

2712-2718'	Limestone; cream, tan, brown, finely crystalline, fossiliferous, chalky, trace pinpoint porosity (no shows)
2722-2740'	Limestone; cream, tan, finely crystalline, fossiliferous, cherty, slightly oolitic
2749-2755'	Limestone; cream, tan, fine-inter crystalline, fossiliferous, cherty, (dense)
2770-2778' chalky	Limestone; cream, tan, finely crystalline, fossiliferous in part,
2808-2815'	Limestone; cream, tan, finely crystalline, chalky, poor visible porosity, trace spotty brown-golden brown, stain, no free oil, no odor
2827-2830'	Limestone; cream, tan, finely crystalline, slightly fossiliferous, chalky, pinpoint porosity, trace spotty brown stain, free oil, no odor
2859-2873'	Limestone; tan, finely crystalline, fossiliferous/ oolitic, scattered pinpoint-vuggy porosity, trace golden brown stain, show of free oil, no odor, no gas kick
2896-2904'	Limestone; cream, tan, finely crystalline, chalky, vuggy-pinhpoint type porosity, trace brown oil stain, no free oil, no odor

Toronto Section

2963-2970'	Limestone; cream, finely crystalline, chalky in part, dense, trace black "dead oil"-brown oil stain, edge staining, no odor
2970-2976	as above
3081-3091'	Limestone; brown, tan, finely crystalline, dense, trace spotty black stain/saturation, no odor

Lansing Section

3100-3113'	Limestone; cream, tan, oolitic/ oomoldic, good oomoldic-vuggy type porosity, brown-golden brown stain/saturation, show of free oil, good odor, trace gas bubbles
3128-3133	Limestone, cream, gray, finely crystalline, fossiliferous/fossil cast, dense, glauconitic in part
3146-3151'	Limestone, cream, tan, oolitic/fossil cast, trace golden brown stain, faint odor
3154-3160	Limestone, cream, light gray, tan, finely crystalline, fossiliferous, scattered porosity, slightly cherty, trace golden brown stain/saturation, faint odor
3170-3196'	Limestone; cream, tan, oomoldic-vuggy type porosity, golden brown stain/saturation, faint odor, trace black "dead oil"
3233-3231'	Limestone; cream, good oomoldic-vuggy porosity, brown-golden brown stain, trace of free oil, fair odor
3238-3246	as above; plus oolitic
3251-3270	as above
3286-3292	Limestone; cream-tan, chalky
3321-3324	Limestone as above, abundant shale

Arbuckle Section

3375-3378'	Dolomite; cream-white, succrosic-very finely crystalline, trace of brown-golden brown stain, spotty show of oil, faint to fair odor
3379-3392'	Dolomite; cream-white, succrosic-very finely crystalline, vuggy porosity, brown-golden brown stain/saturation, show of free oil, fair to good odor

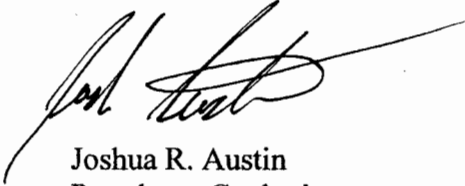
Rotary Total Depth 3393' (-1599)
Log Total Depth 3392' (-1598)

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Recommendations:

On the basis of the positive shows in the samples and reviewing the electric log, it was recommended by all parties involved that the Shartz #4-20, set 5 1/2" casing at the Rotary Total Depth 3393' (-1599)

Respectfully submitted;

A handwritten signature in black ink, appearing to read "Josh Austin", with a long horizontal flourish extending to the right.

Joshua R. Austin
Petroleum Geologist