

M.V.R.C. OIL OPERATIONS  
SCHAUF B #1  
NE SW NE, Section 6-14S-12W  
RUSSELL COUNTY, KANSAS

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Mustang Drilling Company

COMMENCED: 7-21-84

COMPLETED: 7-27-84

ELEVATION: 1845' K.B., 1842' D.F., 1840' G.L.

CASING PROGRAM: Surface: 8 5/8" @ 493'  
Production: 5 1/2" @ 3415'

MEASUREMENTS: All depths measured from the  
Kelly Bushing.

DRILLING TIME: One (1) foot drilling time recorded  
by geolograph, surface to the R.T.D.

SAMPLES: Samples saved 2650' to the R.T.D.

ELECTRIC LOG: None

FORMATION TESTING: There were two (2) drill stem  
tests run by Superior Testers.

| <u>FORMATION</u>    | <u>SAMPLE DEPTH</u> | <u>SUB-SEA DATUM</u> |
|---------------------|---------------------|----------------------|
| Anhydrite (driller) | 770                 | +1075                |
| Topeka              | 2688                | - 843                |
| Heebner             | 2921                | -1076                |
| Toronto             | 2940                | -1095                |
| Douglas             | 2954                | -1109                |
| Lansing             | 2992                | -1147                |
| Base Kansas City    | 3275                | -1430                |
| Conglomerate        | 3327                | -1482                |
| Arbuckle            | 3364                | -1519                |
| Rotary Total Depth  | 3515                | -1620                |

(All tops and zone determinations were made from a correlation  
of a drilling time log and sample analysis.)

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

TOPEKA SECTION  
2849-2851

Limestone, cream to buff, oolitic  
to fossiliferous, trace of spotty  
brown stain, trace of spotty poor  
vugular porosity. Trace of heavy  
tarry (dead) oil and slight odor  
in wet samples.

TORONTO SECTION  
2944-2948

Limestone, very finely crystalline,  
dense, slightly fossiliferous, fair  
spotty to scattered stain. No free  
oil and very slight odor in wet  
samples.

LANSING SECTION  
3011-3014

Limestone, cream to gray, finely crystalline, oolitic to oocastic, slightly fossiliferous, fair to good oocastic to fossiliferous porosity, fair scattered brown stain. Fair show of free oil and odor in wet samples.  
(PERFORATE)

DRILL STEM TEST #1 3000-3020

Open: I.F. 45"  
F.F. 45"  
Blow: Fair increasing to good.  
Recovery: 60' of gas in the pipe.  
15' of oil specked gassy mud.  
60' of slightly oil and gas cut mud.  
60' of very heavy oil and gas cut mud with a good show of free oil.  
Grind out 60% gas 25% oil 15% mud.  
Pressures: ISIP 127 psi  
FSIP 117 psi  
IFP 53-53 psi  
FFP 63-63 psi  
HSH 1618-1596 psi

3035-3046

Limestone, gray to buff, finely crystalline, oocastic, good oocastic to vugular porosity, fair to good scattered golden stain. Fair show of free oil (gassy) and odor in wet samples.

DRILL STEM TEST #2 3030-3060

Open: I.F. 45"  
F.F. 45"  
Blow: Fair increasing to good.  
Recovery: 30' of gas in the pipe.  
25' of slightly oil and gas cut watery mud.  
30' of muddy water/scum of oil.  
120' of muddy water.  
Pressures: ISIP 768 psi  
FSIP 757 psi  
IFP 63-74 psi  
FFP 85-95 psi  
HSH 1628-1598 psi

3092-3099

Limestone, buff to gray, cherty and dense, oocastic, spotty fair oocastic porosity, trace of poor spotty stain, abundant white chalk. Trace of free oil and very faint odor in wet samples.

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3108-3120

Limestone, as above, increase  
in barren porosity plus abundant  
white chalk. No shows of oil.

3165-3168

Limestone, cream, finely crys-  
talline, cherty, suboocastic,  
poorly developed spotty oocastic  
porosity. No shows of oil.

3192-3195

Limestone, gray to tan, cherty,  
oocastic, fair oocastic porosity,  
(barren). No shows of oil.

ARBUCKLE SECTION  
3364-3515

No shows were noted.

ROTARY TOTAL DEPTH 3515 (-1670).

RECOMMENDATIONS: It was recommended that 5 1/2" casing be set  
and cemented at 3415'. Prior to completion of the well, a cased  
hole gamma-ray neutron-collar log will be run and all zones of  
porosity and oil shows will be accurately located and evaluated.  
Zones of interest will be perforated and treated as needed. If  
production proves to be non-commercial the Schauf B #1 can be  
converted into a saltwater disposal well at some later date.

Respectfully submitted

Brad Hutchison

BH/dm