

26-14-15W

15-167-23168

ORIGINAL

M.A YOST OPERATIONS, INC.
P.O. Box 811
Russell, Kansas 67665

GEOLOGICAL REPORT

Waudby "B" No. 14
Approx. NE-SW-NE, Section 26
Twp. 14 South, Rge. 15 West
Russell County, Kansas

May 10, 2000

RECEIVED
STATE CORPORATION COMMISSION

AUG 4 2000

CONSERVATION DIVISION
Wichita, Kansas

M.A. Yost Operations, Inc.
P.O. Box 811
Russell, Kansas City 67665

ORIGINAL

GEOLOGICAL REPORT: Waudby "B" No. 14
Approx. NE-SW-NE, 26-14S-15W
Russell County, Kansas

DRILLING CONTRACTOR: Vonfeldt Drilling Co. Rig. No. 1
Russell, Kansas 67665

DRILLING COMMENCED: May 5, 2000

DRILLING COMPLETED: May 10, 2000

CASING RECORD: 8 5/8 set at 794' with 325 sx.
5 1/2 set at 3195' with 50 sx.

DRILLING TIME: By Geologist.
1 foot intervals plotted and recorded
from 2600' to 3196' R.T.D.

SAMPLES: 10 foot intervals from 2650' to
3196' R.T.D.

DRILL STEM TESTS: No tests were run on the Waudby "B"
No. 14.

LOGS: No open hole logs were run on the
Waudby "B" No. 14.

MUD: Chemical Mud
Andy's Mud & Chemical
Hays, Kansas 67601

ELEVATION: Kelly Bushing 1771'
Ground Level 1766'
Measurement from K.B.

FORMATION TOPS
(Sample Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
*Anhydrite	787	+984
*Base-Anhydrite	821	+850
Topeka	2672	-901
Heebner	2895	-1124
Toronto	2914	-1143
Lansing-Kansas City	2950	-1179
Base-Kansas City	3182	-1411
Gorham Sand	3194	-1423
Rotary Total Depth	3196	-1425
*Drillers Tops		

Lithology: Zones of Interest

Toronto 2914 (-1143-Top) 2919-23	LS;	White to light gray, fair crystalline porosity with a trace of stain. No free oil or odor.
Lansing-Kansas City 2950 (-1179) 2951-55 A Zone	LS;	White, fine crystalline and dense, trace of crystalline porosity with no show.
2976-78 B Zone	LS;	White, fine crystalline with a trace of fair fossil porosity and spotty stain. No free oil or odor.
2991-98 C Zone	LS;	White to buff, crystalline, oolitic to sub-oolitic porosity with no show.

Lithology: Page 2

3035-40 F Zone	LS;	White, trace of poor porosity with no show.
3047-53 G Zone	LS;	White, crystalline, fair oolitic and oolitic porosity with no show. Slightly chalky.
3095-97 H Zone	LS;	Light gray, poor crystalline porosity with a trace of stain. Cherty. No free oil or odor.
3117-18 I Zone	LS;	White to buff, trace of poor crystalline porosity with no show.
3142-46 J Zone	LS;	Buff, crystalline and dense, some chalky porosity with no show. Cherty.

Base-Kansas City 3182 (-1411)

Gorham Sand 3194 (-1423)

3194-95	SS;	Light gray to white rounded to angular sand grains, well sorted. Some clusters with very tight porosity. No show of oil or odor.
3195-96	SS;	As above. With a faint odor and a very slight show of free oil. Porosity still tight.

Rotary Total Depth 3196 (-1425)

REMARKS AND RECOMMENDATIONS

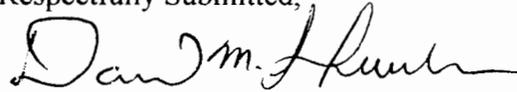
The Waudby "B" No. 14 Gorham Sand top of -1423 is some 7 feet lower than the Waudby "B No. 11 (comparing sample tops) 1 location west.

No commercial shows were noted in the Topeka or Lansing-Kansas City.

Pipe was set 1 foot off the bottom (3195') for an open hole completion. Samples of the Gorham Sand were very tight and contained very little show and only slight odor. Additional hole will need to be made to penetrate some better porosity as well as better shows of oil. If and when any additional hole is made please save samples for examination for future reference.

DMS/das

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "David M. Shumaker". The signature is fluid and cursive, with a long horizontal stroke at the end.

David M. Shumaker
Petroleum Geologist