

Mai Operations
One West Hills
5787 South Hampton, Suite 485
Dallas, Texas 75232

6-10-20W
ORIGINAL

RECEIVED
AUG 16 1982

KCC WICHITA

GEOLOGICAL REPORT:

Richards No. 3
NE-SW-NE, 6-10S-20W 11 South
Ellis County, Kansas

DRILLING CONTRACTOR:

Revlin Drilling Co., Rig No. 1
Russell, Kansas 67665

DRILLING COMMENCED:

November 18, 1987

DRILLING COMPLETED:

November 27, 1987

CASING RECORD:

8 5/8 set at 258' with 165 sx.
60/40 poz., 2% gel., 3% cc.
5 1/2 set at 3557 1/2' with 100 sx.
com. 10% salt 10 bbls. salt water
preflush.

SAMPLES:

10' intervals from 3050' to
3570' then 5' intervals from
3570' to 3658' R.T.D.

DRILLING TIME:

By Geolograph.
1' intervals plotted and re-
corded from 2900' to 3658' R.T.D.

DRILL STEM TEST:

5 by Swift Formation Testers
Great Bend, Kansas

LOGS:

No logs were run on the Richards
No. 3.

ELEVATION:

American Elevations
Kelly Bushing 2041'
Ground Level 2036'
Measurements from K.B.

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FORMATION TOPS
(Sample Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUMS</u>
*Anhydrite	1500	+541
*Base-Anhydrite	1553	+488
Howard	3077	-1036
Topeka	3100	-1059
Heebner	3287	-1246
Toronto	3308	-1267
Lansing-Kansas City	3324	-1283
Base-Kansas City	3543	-1502
Marmaton	3568	-1527
Conglomerate	3599	-1558
Simpson	3617	-1576
Arbuckle	3641	-1600
Rotary Total Depth	3658	-1617
*Drillers Tops		

Lithology: Zones of Interest

Howard (Topeka) 3077 (-1036)

Topeka 3100 (-1059)
3102-09LS; Buff, tight crystalline porosity
with a trace of spotty stain. Trace
of free oil and no odor.

3234-40

LS; Buff, crystalline to granular, porosity
with scattered light stain. No free
oil, but faint odor.

Lithology: Page 2

Toronto 3308 (-1267)
3309-12LS; Buff, fine crystalline, dense to
chalky. Trace of spotty stain.
Cherty. No free oil or odor.Lansing-Kansas City 3324 (-1283)
3325-27
A ZoneLS; Buff, dense to chalky. No free
oil or odor.

Tested by D.S.T. No. 1

3332-38
A₁ ZoneLS; Buff, fossiliferous and chalky.
No free oil or odor.

Tested by D.S.T. No. 1

3340-42
B ZoneLS; Buff, fine crystalline dense to
chalky. No free oil or odor.

Tested by D.S.T. No. 1

3362-65
C ZoneLS; Light gray, sucrosic and slightly
oolitic porosity with fair stain.
Slight show of free oil and no odor.

Tested by D.S.T. No. 1

3385-87
D ZoneLS; White to buff, fine crystalline,
dense to chalky. Trace of stain.
No free oil or odor.3407-12
F ZoneLS; White, chalky fossiliferous porosity,
slightly oolitic. Trace of spotty
stain. No free oil or odor.3419-27
G ZoneLS; White, chalky fossiliferous and oolitic
porosity. No free oil or odor.3460-64
H ZoneLS; Light gray to buff, fine crystalline
and dense. Fossiliferous. Cherty.
Trace of spotty stain. No free oil
or odor.

Tested by D.S.T. No. 2

3480-83
I Zone

LS; White, crystalline and oolitic.
Fossiliferous. Light stain. Slight
show of free oil and very faint odor.

Tested by D.S.T. No. 2

3500-04
J Zone

LS; White, poor fossil porosity with
scattered light stain. No free oil
or odor.

Tested by D.S.T. No. 2

3521-25
K Zone

LS; Buff, crystalline and oolitic.
Trace of spotty stain. No free oil
or odor.

3535-36
L Zone

LS; White, fine crystalline, dense to
chalky. Fossiliferous. No free
oil or odor.

Base-Kansas City 3543 (-1502)

Marmaton 3568 (-1527)
3582-90

LS-Chert; Buff, fine crystalline limestone.
Weathered cherts. Included tarry
oil stain. No free oil or odor.

Tested by D.S.T. No. 3

Conglomerate 3599 (-1558)
3600-07

SS; Gray, tight medium grained porosity
with dark poorly saturated stain.
Vitreous and weathered chert. Show
of free oil and no odor.

Tested by D.S.T. No. 3

Simpson 3617 (-1576)
3628-32

SS-Sh; Transparent, medium grained and
rounded sand clusters. Pale green
waxy shales. No visible shows.

Tested by D.S.T. No. 3

Lithology: Page 4

Arbuckle 3641 (-1600)

~~3642-45~~

Dol; Buff, sucrosic, tight porosity with light stain. Slight show of free oil and faint odor.

Tested by D.S.T. No. 4

~~3647-51~~

Dol; Buff medium crystalline porosity with scattered light to dark stain. Show of free oil and fair odor.

Tested by D.S.T. No. 4

3651-53

Dol; Buff, medium crystalline porosity with dark stain. Show of free oil and fair odor.

Tested by D.S.T. No. 5

3654-58

Dol; Buff, fine crystalline and dense. Trace of poor crystalline porosity with scattered light spotty stain. No free oil but good odor.

Tested by D.S.T. No. 5

Rotary Total Depth 3658 (-1617)