

GEOLOGICAL REPORT

NE NE SE

BILL A. RICHARDS

WELL #2 LEASE Meckel "A"

LOCATION: Sec. 29-T12S-R15W
Russell County, KansasGEOLOGIST
RUSSELL, KANSAS**29-12-15W**RUDY HERMAN OIL OPERATIONS

Following is my Geological Report and other pertinent information pertaining to the above-captioned test well. Drilling of this test well was supervised by me from 2900' to rotary total depth. All references used in this report are taken from rotary bushing.

OPERATOR: Rudy Herman Oil Operations
Russell, Kansas

CONTRACTOR: Shields Drilling Co.
Russell, Kansas

RIG: Number Two

COMMENCED: January 14, 1959

COMPLETED: January 25, 1959

CASING: Surface: 8 5/8" at 896' with 450 sacks cement
Production: 5 1/2" at 3280' with 25 sacks regular and 100 sacks
Latex cement

SAMPLES: Ten foot interval from 2650' to 2950'.
Five foot interval from 2950' to Rotary Total Depth.

DRILLING TIME: One foot interval from 2650' to rotary total depth. A
condensed copy of drilling time is included with this
report.

TOOL PUSHER: Ed Weiler

DRILLERS: Lawrence Everheart
M. C. Wilkerson
Walter J. Oden, Jr.

ELEVATION: Laughlin - Simmons Co.
Great Bend, Kansas
Derrick Floor: 1827'
Rotary Bushing: 1829'

LOG: None

CORES: 3 1/2" Diamond Core from 2983 to 3033' described in this
report as Core #1.

RECEIVED
STATE CORPORATION COMMISSION

APR 16 1957

CONSERVATION DIVISION
Wichita, Kansas

FORMATION TOPS, ZONES OF OIL SHOWS, POROSITY AND ODOR

<u>FORMATION</u>	<u>SAMPLE TOP AND DATUM</u>
ANHYDRITE	886 (+943) Driller
TOPEKA	2710 (-881)
HEEBNER	2928 (-1097)
TORONTO	2947 (-1118)
LANSING K. C.	2978 (-1149)
CHERTY CONGLOMERATE	3254 (-1425)
ARBUCKLE	3275 (-1446)
ROTARY TOTAL DEPTH	3287 (-1458)
5 1/2" CASING	3280 (-1451)

Toronto 2947 (-1118)
2955-2960

Scattered light brown oil stain in buff Crystalline and Sucrose Limestone. No odor and no free oil in wet samples. Saturation fair. Traces of pinpoint porosity. This zone should be correlated with the Gamma Ray-Neutron Log and perforated and treated as required if the log merits.

Lansing K. C. 2978 (-1149)
2978-2983

Buff Crystalline Limestone. No show of oil.

2983 to 3033' was diamond-cored taking a 3 1/2" by 50' core. Coring was done by Drilling and Service, Great Bend, Kansas. Full recovery was obtained. Following is a description of the core.

CORE #1 2983 to 3033'

2983-2784	1.0'	Dense buff to light brown Crystalline fractured Limestone. No show oil.
2984-2990	6.0'	Buff Crystalline Limestone. Vugular porosity. Fair light brown oil saturation. Bleeding oil and gas. Good odor.
2990-2991.5	1.5'	Same as above with a decrease in stain and porosity.
2991.5-2992	0.5'	Buff Oolitic and Fossiliferous Limestone. No show oil.
2992-2995	3.0'	Dense buff Cherty Crystalline Limestone. No show oil.
2995-2998.5	3.5'	Gray and brown shale.
2998.5-2999	0.5'	Shaly Limestone.
2999-3000	1.0'	Brown and gray Shale.

RECEIVED
STATE CORPORATION COMMISSION

APR 16 1987

Geological Division
Wichita, Kansas

3000-3007	7.0'	Buff Crystalline Limestone. Trace of light brown oil stain. Bleeding some oil and gas. Fair odor. Saturation spotted.
3007-3012	5.0'	Good Oolitic Limestone with good oil staining. Bleeding oil and gas. Good odor. Good Vugular and Oolitic porosity.
3012-3013	1.0'	Dense buff Crystalline Limestone. No show oil.
3013-3014	1.0'	Shaly Limestone.
3014-3015	1.0'	Dense buff Crystalline Limestone. No show oil.
3015-3016	1.0'	Dense buff Crystalline Limestone. Trace of spotted oil stain. No odor. Dense buff Crystalline Limestone. No show oil.
3016-3017	1.0'	Dense buff Crystalline Limestone. No show oil.
3017-3020	3.0'	Gray Shale and shaly Limestone.
3020-3021	1.0'	Dense buff Crystalline Limestone. Rare light brown oil stain, spotted. Bleeding some oil and gas. Light odor. Traces of Vugular Porosity.
3021-3024	3.0'	Dense buff Crystalline Limestone. No show oil.
3024-3027	3.0'	Buff Crystalline and Oolitic Limestone with light brown oil stain. Bleeding oil and gas. Good odor. Good Porosity.
3027-3029.5	2.5'	Limestone and Shale, shaly Lime.
3029.5-3033	3.5'	Same as the 3024-3027 break.
	50.0'	Total Recovery.

Samples from this core were frozen and sent to core lab in Oklahoma City, Oklahoma for analysis.

The bottom section of this core was drill stem tested. This test covered the 40' break in the Lansing K. C.

DRILL STEM TEST #1 3018-3033 Reinhardt Tool

Tool Open:	One hour.
Blow:	Fair for five minutes. Bypassed tool, blow died in thirty minutes.
Recovered:	Five feet of drilling mud.
Initial Flow Pressure:	0#

RECEIVED
STATE CORPORATION COMMISSION

APR 16 1987

DIVISION
Wichita, Kansas

Final Flow Pressure: 0#
Bottom Hole Pressure: 195# in thirty minutes.

Although this zone did not give up any fluid, the zone should be perforated and treated.

3052-3055 Rare spotted light brown oil stain in dense buff Crystalline Limestone. No odor and no free oil. Saturation spotted. This zone is of no value.

3070-3073 Rare spotted light brown oil stain in buff Crystalline Limestone. Saturation spotted. No odor and no free oil in wet samples. This zone of no commercial value.

3192-3195 Rare trace of light brown oil stain in buff Crystalline Limestone. No porosity. Saturation very spotted. This zone of no commercial value.

3221-3225 Rare trace of light brown oil stain in buff Crystalline and Sucrose Limestone. No porosity. Saturation very spotted. This zone of no commercial value.

3246-3250 Rare light brown oil stain in buff Crystalline, Cherty Limestone. No odor and no free oil in wet samples. Saturation very spotted. This zone of no commercial value.

Cherty Conglomerate 3254 (-1425) Vari-colored Cherts. No show of oil. No sand development.

Arbuckle 3275 (-1446)
3275-3278 Dense, white, medium Crystalline Dolomite with Pyrite imbedded. No show of oil.

3278-3287 White medium Crystalline Dolomite with traces of dark brown to black oil stain. Saturation very spotted. No free oil in wet samples. Possible light odor. Traces of intercrystalline Porosity.

DRILL STEM TEST #2 3277-3287 Bee Testing Co.

Tool Open: One hour.
Blow: Weak for Ten minutes.
Recovered: 10' watery mud.
Initial Flow Pressure: 0#
Final Flow Pressure: 0#
Bottom Hole Pressure: 210# in thirty minutes.

R. T. D. 3287 (-1458)

RECEIVED
STATE CORPORATION COMMISSION

APR 16 1987

COMMISSION