

GEOLOGICAL REPORT

WELL #1 LEASE WORLEY

LOCATION

SW SW NE Section 27-102-15W
Osborne County, KansasJOSEPH E. PARKER
GEOLOGIST
RUSSELL, KANSAS

April 1, 1967

OPERATOR:Jones, Shelburne & Farmer, Inc.
Russell, Kansas
Durbin Bond & Company, Inc.
Little Rock, Arkansas**CONTRACTOR:**Jones, Shelburne & Farmer, Inc.
Russell, Kansas**CREW:**Rig #4
Tool Pusher: Raymond Kaba
Drillers: Jack Toolkes
Art Dedig
Virgil Drilling**ELEVATION:**Laughlin-Simmons & Company
Great Bend, Kansas

Derrick Floor: 1792

Rotary Bushing: 1794

All measurements shown are from Rotary Bushing

SAMPLES:Five foot intervals from 2800 to 3440 R.T.D.
All samples were examined, described and
sent to Kansas Sample Bureau, Wichita, Kansas.**DRILLING TIME:**One foot intervals from 2800 to 3440 R.T.D.
A copy of the drilling time is included with
this report.**PIPE ZERO POINT:**

feet above braden head.

27-10-15W

FORMATION TOPS:

TOPHIA LINE
NEEDHAM SHALE
TONGHO LINE
LANIER-KANSAS CITY
BASE OF KANSAS CITY
CONELONGRATH
SEMPSON
ANDREWS DELGATE
P.T.D.
GRAND T.D.

SAMPLE

2004 (-870)
2002 (-8100)
2003 (-1100)
2000 (-1100)
2002 (-1400)
2000 (-1511)
2000 (-1501)
2000 (-1501)
2000 (-1501)

HALLIBURTON CARD

2011 (-1117)
2004 (-1140)
2000 (-1100)
2002 (-1400)
2004 (-1510)
2000 (-1501)
2000 (-1501)
2000-1/2 (-1500-1/2)

NOTE:

The Halliburton Card log was run in the open hole with no Gamma Ray-Ruston curves. These will be run in the cased hole. The log tape may then be corrected slightly at that time.

SHOWS OF OIL OR GAS:

TOPHIA 2700-04

White finely crystalline limestone with good odor and fair free oil and good saturation in fair vugular porosity.

DOT #1 2000-2720
Open 45 minutes, shut in 20 minutes.
Recovered: 20 feet drilling mud
D.H.P.: 0'

2077-05

White finely crystalline slightly cherty limestone with poor porosity, poor saturation and spotted staining. Fair gassy odor. Not considered commercially important.

TONGHO LINE: 2000-05 and 2000-01 White finely crystalline limestone with fair vugular porosity in part. Fair staining and saturation free oil and a trace of odor.

DOT #2 2000-05
Open 45 minutes, shut in 20 minutes.
Wait 2 minutes blow.
Recovered: 7 feet mud
D.H.P.: 7100'

LANIER-KANSAS CITY: 2070-75 Light gray finely crystalline limestone with trace of staining and poor porosity and saturation. No free oil or odor. Not considered commercially important.

SW 20 NE Section 27-100-10W
Gehring County, Kansas

#1

WELL

2001-00

White finely crystalline limestone with fair vugular porosity and light staining. Slight odor and trace of free oil.

2002-10

White calcitic limestone with fair calcitic and oolitic porosity. Fair free oil and odor and fair staining and saturation.

LOT #3

2003-2010

Open 1 hour, shut in 30 minutes.

Work intermittent blow for 30 minutes.

Recovered: 100 feet muddy salt water.

I.F.P.: 0000

2003-20

White finely crystalline limestone with a trace of poor vugular porosity. Trace of free oil and odor. Poor to fair saturation and staining.

2003-30

Gray calcitic limestone with fair porosity, poor to fair saturation and staining. Trace of free oil and odor.

2004-00

White calcitic limestone.

Poor to fair staining and saturation.

2004-03

Fine odor and trace of free oil. Fair to good calcitic porosity.

2005-00

White calcitic and oolitic limestone with light staining, fair saturation and porosity. Fair free-oil and odor. Some of the samples in this interval contained barren oolitic porosity. This zone should be carefully examined on the log before perforated.

LOT #4

2005-2070

Open 1 hour, shut in 30 minutes. Gas to surface in 30 minutes.

Recovered: 500 feet heavily gas cut oil

100 feet gassy oil

100 feet heavily oil and gas cut and

I.F.P.: 000

F.F.P.: 2000

S.H.P.: 10000

2117-00

White finely crystalline limestone with a trace of staining, poor porosity and saturation. No free oil or odor. Not considered commercially important.

2175-00 ✓ White slightly calcitic limestone with poor to fair scattered porosity and staining, and poor to fair saturation. Traces of odor and free oil.

2200-05 ✓ White calcitic limestone. Rare spotted staining and poor saturation and porosity. Traces of free oil.

DOT #5 2104-2200
Open 45 minutes, shut in 20 minutes.
Wash 2 minute blow.
Recovered: 25 feet sand.
B.H.P.: 100W

CONDUIT RATE: 2300-20

This section consisted of well-sorted cherts and shales with fine to medium clean rounded sand in clusters. Free oil and no odor in sand clusters. All heavy staining in the sand clusters and white weathered cherts. Fair fluorescence in sand.

DOT #5 2300-20
Open 1 hour, shut in 20 minutes.
Strong blow decreasing to weak blow for one hour.
Recovered: 200 feet slightly oil and gas cut salt water
 300 feet oil and gas cut salt water
 100 feet salt water
I.F.P.: 20W
F.F.P.: 40W
B.H.P.: 20W

No shows were found present in the Simpson or the Atlantic.

RESULTS AND RECOMMENDATIONS:

This test ran a little lower than producing wells in the Purgies Pool approximately one mile North Northeast on the Landing and four feet higher than the highest Conglomerate top in the pool. We were also higher than any of the surrounding dry hole.

Due to the positive results of drill stem test number 4 it was recommended that pipe be set at 3100.

A Halliburton Guard Log was run in the open hole. Before perforating a Gamma Ray Neutron and collar log should be run.

Respectfully submitted,
JOSEPH E. PARKER

Joseph E. Parker

JEP/11

COPY