



Computer Inve Michael A. Davignon

36-115-24w P

A.A.P.G. K.G.S.
Petroleum Geologist
Countryside Estates #9D
Hays, Kansas 67601
Phone 913-625-7674

State Geological Survey
WICHITA BRANCH

GEOLOGICAL REPORT

AP2# 15-195-20979 #1 Pfeifer
C W/2-NW-SE Trego Co., Ks.

36-11^s-24^w
dm
K&S

CONTRACTOR:	Helberg Oil Company Rig #3
SPUD:	2/08/83
COMPLETED:	2/18/83
SURFACE CASING:	205' of 8 5/8"
PRODUCTION CASING:	4090' of 4 1/2"
DRILL STEM TESTS:	(4) by Cheney Testing
ELECTRIC LOG:	Radiation- Guard Log
ELEVATION:	2446' Kelly Bushing 2441' Ground Level

FORMATION TOPS

<u>Formation</u>	<u>Depth (Sample)</u>	<u>Depth (Log)</u>
Anhydrite	N.A.	2001 (+1445)
Topeka	N.A.	N.A.
Heebner	3765 (-1319)	3760 (-1314)
Toronto	3787 (-1341)	3784 (-1338)
Lansing	3801 (-1355)	3796 (-1350)
Base of Kansas City	4042 (-1596)	4040 (-1594)
Marmaton Chert	4091 (-1645)	N.A.

OIL SHOWS AND ZONES OF INTEREST

<u>FORMATION</u>	<u>DESCRIPTION</u>
<u>Lansing-K.C. Zone 'A'</u>	
3800-3810	Limestone, white and buff, crystalline, slightly fossiliferous, No odor -BERRON-
3830-3834 Zone 40'	Limestone, white and cream, fine crystalline, cherty, good saturation, some free oil, fair interparticulate porosity
3845-3850 Zone 60'	Limestone, white, crystalline, slightly fossiliferous, chalky, spotted stain, no free oil.
<u>DST # 1</u>	
3817-3860	
<u>Recovery</u>	<u>43' Anchor</u>
65- of 25% oil, 25% gas	I.F.P.- 327#
300' of 10% oil, 20% gas	I.S.I.P.- 1292#
300' of 5% oil	F.F.P.- 466#
	F.S.I.P.- 1283#
3884-3890 Zone 80'	Limestone, white and buff, crystalline, vuggy, fair saturation, some dead oil, fair interparticulate porosity
<u>DST #2</u>	
3870-3901	
<u>Recovery</u>	<u>31' Anchor</u>
150' mud with oil spots	I.F.P.- #155
300' 50% oil	I.S.I.P.- #1168
No Water	F.F.P.- #200
	F.S.I.P.- #1103
3938-3946 Zone 140'	Limestone, white and cream, fine crystalline, slightly chalky, spotted stain, some dead oil, some visible porosity
3960-3965 Zone 160'	Limestone, A.A. fair odor, some free oil

3684-3889 Zone 180'

Limestone, Gray, dense, crystalline,
cherty, no show of oil

DST #3

Recovery

61' Anchor

400' Mud

I.F.P.- #300
I.S.I.P.- #817

Packer Failed

F.F.P.- #300
F.S.I.P.- #697

4030-4034

Limestone, white and cream, cherty
slightly chalky, no show of oil

Base of Kansas City

Marmaton Chert

4091-4095

Cherty, clear to opaque, medium crystalline,
no show of oil

DST #4

4040-4095

Recovery

55' Anchor

30' Mud

I.F.P.- #66
I.S.I.P.- #100
F.F.P.- N.A.
F.S.I.P.- N.A.

STRUCTURAL COMPARISON

<u>Well</u>	<u>Location</u>	<u>Lansing</u>
Rains & Williamson #1 Pfeifer	SE-NE-SW	6' High
Rains & Williamson #2 Pfeifer	NW-SW-SE	9' High

SUMMARY

The #1 Pfeifer was 6' high to the nearest production, 1 1/2 locations Southwest. On the basis of drill stem #2, it was recommended that production casing be set. Primary consideration should be 140', 160', 80', and 40' zones; Although, the 60' and 180' zones should be tested before the well is abandoned. Enclosed is an electric log with recommended perforations.

I Remain,

Michael A. Davignon

Micheal A. Davignon
Geologist