

14-11-29 W.

Property of  
Kansas Geological Society  
540 Petroleum Bldg.  
Wichita, Kansas

GEOLOGICAL REPORT

Company: Imperial Oil of Kansas, Inc.  
Farm: Hauser No. 1  
Contractor: Rig #3  
Pool: Wildcat

NW NW NE Sec. 14-11S-29W  
Gove County, Kansas  
Elevation: 2818 K.B.  
Rotary Total Depth: 4561

Rotary Completed: 9-14-57

Geological Data:

Samples were examined from 220' to Rotary Total Depth.

Formation Tops

Anhydrite	2365	( +453)
Heebner	3893	(-1075)
Toronto	3917	(-1099)
Lansing	3932	(-1114)
Marmaton	4252	(-1434)
Mississippi Chert	4477	(-1659)
Mississippi Lime	4540	(-1722)
Rotary Total Depth	4561	(-1743)

Porosity and shows of oil

- Toronto 3917 (-1099)  
3917-28 White to cream fossiliferous fine crystalline limestone. No show. Trace of fair vugular porosity.
- Lansing 3932 (-1114)  
3932-50 (Top zone) White, fine crystalline oolitic dense limestone. No shows. Some fair barren oocastic porosity. Mostly poor porosity.
- 3963-72 (35' zone) White to cream very oolitic and fossiliferous limestone. No show. Fair to good fossiliferous and oolitic porosity.
- 3976-85 (50' zone) White to gray fine crystalline fossiliferous cherty limestone. Very poor very spotty show of free oil with some dead oil stain. Some fair to poor fossiliferous porosity.
- D.S.T. #1 3974-95 Open 1 hour. Recovered 95' muddy salt water. BHP 775#
- 4005-09 (70' zone) Cream finely crystalline fossiliferous limestone. Trace of black solid gilsonite. No free oil. Fair scattered fossiliferous porosity.
- 4015-20 (90' zone) White to cream fine crystalline cherty dense limestone. No show. Poor visible porosity.
- 4032-44 (100' zone) Cream fine to medium crystalline dolomite. No show. Fair to good crystalline porosity.
- 4077-86 (140' zone) White to gray fine crystalline dense limestone. Trace of free oil. Spotty dead oil stain and oil residue. Fair to poor visible porosity.

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D.S.T. #2 4070-95 Open 2 hours. Recovered 83' muddy salt water. BHP 925#

4105-09 (160' zone) White to cream fine crystalline dense very slightly fossiliferous limestone. Trace of black residue. No free oil. Poor visible pinpoint porosity.

D.S.T. #3 4093-4120 Open 1 hour. Recovered 18' mud. BHP 25#

4128-32 (180' zone) White to pale gray fine crystalline dense cherty limestone. Trace of very dark free oil. Fair very spotty stain. Much black dead oil stain. Fair to poor inter-crystalline and vugular porosity.

D.S.T. #4 4116-42 Open 1 hour. Recovered 15' mud. BHP 20#

4158-63 (200' zone) Cream finely fossiliferous limestone. Poor spotty show of free oil. Poor spotty oil residue stain. Fair to poor tight pinpoint porosity. Faint odor.

D.S.T. #5 4139-70 Open 1 hour. Recovered 15' mud. BHP 30#

4185-93 (220' zone) Gray to tan fine crystalline oolitic dense limestone. No show. Poor to very poor porosity.

Monaton 4252 (-1434)

4318-30 Cream to gray fine crystalline fossiliferous dense limestone. Trace of free oil. Poor spotty sick staining. Fair to poor tight pinpoint fossiliferous and inter-crystalline porosity. Spotty dead oil stain.

D.S.T. #6 4276-4340 Open 1 hour. Recovered 25' mud, BHP 455#

4360-64 Cream to brown fine crystalline slightly fossiliferous dense limestone. Poor spotty stain. Poor very spotty show of free oil. Fair to poor fossiliferous tight porosity. No value.

D.S.T. #7 4338-80 Open 2 hours. Recovered 30' mud with specks of oil. BHP 90#

4393-99 Cream fine crystalline fossiliferous limestone. Fair to poor spotty show of free oil. Fair to poor scattered vugular porosity. No value.

D.S.T. #8 4378-4430 Open 1 hour. Recovered 30' mud with specks of oil. BHP 55#

Mississippi Chert 4477 (-1659)

4477-97 White fossiliferous opaque fresh to tripolitic chert with some white chalky fine crystalline limestone. No shows. Poor porosity. No value.

4497-4522 White to bluish opaque fresh to tripolitic chert with some drusy crystalline quartz. Fair spotty show of free oil. Fair scattered vugular porosity.

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Logical Report

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Hauser No. 1

D.S.T. #9 4438-4510 Open 1 hour 10 min. Recovered 30' mud with specks of oil.  
BHP 455#

D.S.T. #10 4510-24 Open 1 hour. Recovered 100' mud with a slight show of oil.  
Top 40' slightly oil cut mud. BHP 840#

Rotary Total Depth 4561.

5 1/2" production casing set at 4561 on 9-14-57.

Remarks: Because of the show of free oil and the presence of a fairly well developed chert section, it was decided to run pipe and further test the Mississippi Chert at the #1 Hauser.

IMPERIAL OIL OF KANSAS, INC.

*Charles B Moore Jr.*  
Charles B. Moore, Jr. *C.B.S.*  
Geologist on well

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