GEOLOGICAL REPORT

Company: Imporial Oil of Kansas. Inc

Farm: Nickelson "A" 4

Contractor: Imperial Oil of Kansas, Inc. Rig #2

Pool: South Holley

Graham County, Kansas C SW SE Sec. 15-9S-2LW Elevation: 2499 K.B. STATE CORPORATION COMMISSION Rotary Total Depth: 4048:

Rotary Completed: 6-8-58

Geological Data:

Samples were examined from 3600' to Rotary Total Depth.

ca: were examined from 360	00' to Ro	tary Total De	pth.	CONSE	MAY 7 1969 RVATION DIVISION
	Form	ation Tops		Wic	THIS Kansas
Sample Tops			Electr	ic Log Tops	MOISISTABLE
Anhydrite Heebner Toronto Lansing Rotary Total Depth	2148 3797 3821 3838 4048	(+ 351) (-1298) (-1322) (-1339) (-1549)	3796 3820 3836 4047	(-1297) (-1321) (-1337) (-1548)	

## Porosity and Shows of Oil

Toronto 3821 (-1339)

3821-25 White fine crystalline slightly fossiliferous cherty dense limestone. No oil show. Fair to poor porosity. Judged no value.

Lansing 3838

3838-50 (Top Zone) White to cream chalky colitic fine crystalline dense limestone. No oil show. Fair to poor porosity. Judged no value.

3865-73 (35' Zone) White to cream very cherty slightly fossiliferous limestone. Fair spotty show free oil. Fair fossiliferous porosity. Perforate.

D.S.T. #1 3855-75 Open 2 hours. Recovered 195' heavy oil cut mud, BHP 1030#.

3880-84 (50' Zone) White to gray fine crystalline dense limestone. No oil show. Poor to very poor porosity. Judged no value.

3903-09 (70' Zone) Cream to white colitic and fossiliferous limestone. Fair to good spotty show free oil. Fair to good pinpoint fossiliferous porosity. Perforate.

3894-3908 Open 1 hour. Recovered 480' gas, 120' heavy oil cut mud, 120' D.S.T. #2 oil, BHP 1130#.

3912-18 (90' Zone) Cream to white colitic limestone. Fair very spotty show dark free oil. Fair to good fossiliferous porosity. Judged no value.

D.S.T. #3 3907-20 Open 1 hour. Recovered 690' salt water with specks of oil, BHP 1260#.

3920-28 (100' Zone) White to cream slightly chalky fine crystalline dense limestone. No oil show. Poor porosity. Judged no value.

15-065-01616-0000

GEOLOGICAL REPORT

Nickelson "A" 4

C SW SE Sec. 15-9S-24W

Graham County, Kansas

STATE CORPORATION COMMISSION

MAY 7 1969

Wichita, Kansas

Nickelson "A" 4

- 3963-70 (140' Zone) Cream to white fossiliferous to dense limestone. Fair to very spotty show light free oil. Fair scattered fossiliferous porosity. Perforate top 2'.
- D.S.T. #4 3957-80 Open 2 hours. Recovered 1245' gas, 200' oil cut mud, 120' salt water, BHP clock failed to function.
  - 3985-92 (160: Zone) Cream fine crystalline fossiliferous limestone. Fair spotty show free oil. Fair fossiliferous porosity. Perforate.
  - D.S.T. #5 3980-96 Open 1 hour. Recovered 60' heavy oil cut mud, 90' oil, IBHP 470#, FBHP 470#.
  - 4004-10 (180' Zone) Cream fine crystalline fossiliferous limestone. Fair spotty show free oil. Fair fossiliferous porosity. Perforate.
- D.S.T. #6 4000-15 Open 1 hour. Recovered 960' gas, 60' very heavy oil cut mud, 180' oil, IBHP 800#, FBHP 770#.
  - 4025-27 (200' Zone) White to gray fine crystalline dense limestone. Fair to poor very spotty show free oil. Fair to poor tight porosity. Judged no value.
  - 4040-44 (220' Zone) Cream to tan shaly dense fossiliferous limestone. No show. Poor to very poor porosity. Judged no value.
- D.S.T. #7 4013-48 Open 1 hour. Recovered 12' mud, BHP 65#.

Rotary Total Depth 4048' (-1549).  $5\frac{1}{2}$ " Production Casing set at 4048' on 6-8-58. Centralizers set at 3754, 3780, 3852, 3890, 3872, 3930, 3972, 4042.

IMPERIAL OIL COMPANY, INC.

Charles B. Moore, Jr.

Geologist

CBM:pcs

STATE CORPORATION COMMISSION

MAY 7 1960

CONSERVATION DIVISION

Wichita, Kansas