

15-077-21052

28-31-5W



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GEOLOGICAL REPORT A

PANCANADIAN PETROLEUM COMPANY

HIEBERT TRUST # 1-33-28

1550 FSL; 1550 FEL 28-31-5W.

HARPER COUNTY, KANSAS

C. C. Van Buskirk  
Suite 1115, 107 N. Market  
Wichita, Kansas  
67202

MAY 1 1964  
State Geological Survey  
WICHITA BRANCH

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APR 22 1965  
GAIL W. TAYLOR  
Wichita, Kansas

28-31-5W<sup>12</sup>

December 13, 1984

PanCanadian Petroleum Company  
600 17 Street  
Denver, Colorado 80202

Re: PanCanadian Petroleum Company  
Hiebert Trust #1 33-28  
1550' FSL; 1550' FEL  
Sec 28-31S-5W  
Harper County, Kansas

MAY 1 8 1985  
State Geological Survey  
ANCHITA BRANCH

Dear Sirs:

Submitted herewith is a geological report concerning the above captioned test. Data pertinent to the operation is tabulated below:

Spud:	November 25, 1984
Contractor:	Brandt Drilling Co.
Surface Pipe:	8 5/8"- 278 FKB
	Circulated 175 Sx. 2%gel, 3%cc
Cementers:	Halliburton
Mud:	Davis Mud Co., Chemical Gel
Mud Up:	3000'
Tool Pusher:	Jim Moore, Kingman, Kansas
Log:	Great Guns
Dst:	Halliburton
Drill Time:	1800'
Samples:	1800'
Gas Detector:	Davis Mud
Elevation:	1347'KB 1340'GL

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MAY 22 1985  
COMMERCIAL DIVISION  
STATE GEOLOGICAL SURVEY  
TOPEKA, KANSAS

Geological formation tops were picked from samples and adjusted to the open hole survey. All measurements are from the kelly bushing:

Elevation:	1347KB	1340GL
Base of Americus		1942 (-595)
Falls City		2028 (-681)
Stotler		2242 (-895)
Base of Howard		2763 (-1416)
Oread		2943 (-1591)
Heebner		2988 (-1641)
Douglas		3072 (-1725)
Iatan		3284 (-1937)
Stalnaker		3311 (-1964)
Iola		3554 (-2207)
Kansas City		3580 (-2233)
Base of KC		3808 (-2461)

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Marmaton	3885 (-2538)
Cherokee	4016 (-2669)
Mississippian	4207 (-2860)
Kinderhook	4570 (-3223)
Chattanooga	4654 (-3307)
Simpson	4676 (-3329)
LTD	4745 (-3398)
RTD	4749 (-3402)

Zones of interest were encountered at the following depths and evaluation of each are as follows:

Stalnaker 3311' to 3328'

Fine grained sandstone to good, very weak fluor. No gas detector action, no taste, no odor, no stain. Some dead stain. Circulated at 3328' and after one hour circulation a weak show on very pieces of oil show. Possible increase on gas detector of 20 units.

Circulated at 3338' slight show of oil in sandstone, but decrease on 1 hour circulating. Concluded that this was a very small oil show and did not deserve testing.

Kansas City 3580 to 3604

The top of the Kansas City Limestone Group. Had oolitic and pin point and vug porosity with good oil show within however, drilling was erratic perhaps showing thin porous streaks. Fluor. was good.

Drill Stem Test #1 3592 to 3604

15"-45"-45"-90"

1st opening: Strong blow off bottom of bucket

2nd opening: good blow through out opening

Recovery: 180 feet of heavy, gas cut oil with trace of water, plus 720 feet of salt water.

IHP	1762#
IFP	117# to 205#
ISIP	1149#
FFP	224# to 439#
FSIP	1006#
Temp	106°
FHP	1676#

3690 to 3698

Limestone that was soft and oolitic with no shows or visible porosity.

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3724 to 3734

Circulated at 3734'. Good pin point porosity and good oil show. Limestone shows weathering, gas bubbles show in sample. Gas detector 25 units. Free oil on water in tray. Drilling break good.

DST # 2 3720 to 3734  
15"-45"-45"-90"

1st opening: good blow off bottom of bucket  
2nd opening: same as above.

Recovery: 270 feet of oil and 90 feet of salt water and gas to the surface in 8 minutes, meas. 13,000 cfcpd

IHP	1701#
IFP	49# to 68#
ISIP	1552#
FFP	68# to 136#
FSIP	1552#
FHP	1743#
Temp	107°

3763 to 3774

Circulated at 3774'. Good odor. Free oil show. Gas bubbles. Gas detector kick over back ground. Limestone appears most oolitic, but does have pin point porosity and some weathering on the zone. Drilling time break good.

DST #3 3762 to 3774  
15'-45'-45'-90'

1st opening: Strong blow through out opening  
2nd opening: Blow weak during second opening.  
Recovery: 90 feet of slightly oil and gas cut mud and 360 feet of salt water

IHP	1810#
IFP	49 to 88#
ISIP	1245#
FFP	127# to 205#
FSIP	1245#
FHP	1772#
Temp	107°

Mississippian 4207 to 4570

Samples were watched closely through the entire section, but no show were noted. A great volume of dolomite was logged which would probably provide a thick reservoir if trapping was also present.

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Simpson 4675 to 4684

Circulated at 4684'. Sandstone, clean, no shows, clusters of sand, friable, no fluor., some sand grains med. size., gas detector 12 units. Down away from top some of cluster had a light tan appearance, but no live oil, some small amounts of gilsonite.

No structural comparison is made with the Gerber #2 in this report, however during the drilling a comparison was made and the Hiebert Trust #1 was structural lower on all beds.

Recommendation

Because of favorable drill stem tests setting pipe was recommended for this well.

Sincerely,

*C. C. Van Buskirk*

C. C. Van Buskirk  
Well Site Geologist

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