6-325-3W

W. C. Pickens'

#I STRAIT C SW NE Sec. 6-325-3W Sumner County, Kansas

GEOLOGICAL REPORT

CONTRACTOR:

Indian Drilling Company

ELEVATION:

1279' KB

COMMENCED:

October 7, 1967

1278' DF 1271' GL

COMPLETED:

October 17, 1967

CASING RECORD: 8 5/8" @ 275' with 175 sacks

MEASUREMENTS: K. B. Log

ELECTRICAL SURVEYS:

Welex Gamma Ray-Neutron & Guard detailed from

2600' to total depth.

DRILL STEM TESTS:

None

SAMPLES:

Examined from 2950 to Total Depth

DRILLING TIME:

5' Time logged from 2600' to total depth I' Time logged from 3200' to total depth

GEOLOGICAL TOPS: Welex

Heebner Sh2673'	(- 1394)	Mississippian3957'	(- 2678)
Toronto Lm2742'	(-1463)	Kinderhook Sh4343	(-3064)
Douglas Group2766'	(-1487)	Chattanooga Sh4399'	(-3120)
Stalnaker Sand3011'		Simpson Sand4433'	(-3154)
Kansas City3303'	(-2024)	•	
Base Kansas City3563'			
Marmaton		Log T.D4442'	(-3163)
Cherokee 37611		Driller T.D 44351	

ZONES OF INTEREST: All formation depths and tops are log measurements.

Stalnaker Sand:

3011-3095

Sandstone, white, fine grained, friable, No show. Log indicates water bearing.

Kansas City:

Zone | 3317-21 (4')

Limestone, light tan-cream, finely crystalline to dense, trace of fair vugular porosity, fair yellow fluorescence, poor to slight cut.

Log: Porosity = 16%; Salt water = 35%

Analysis: Possible low permeability thin

hydrocarbon zone.

Kansas City - continued ...

Zone 2 3334-56' (22') Limestone, tan-gray-cream, very finely crystalline to dense, fair to good vugular porosity, spotty dull yellow fluorescence,

NO CUT.

Log: Porosity = 17%; Salt water = 70%

Analysis: Water Productive

Zone 3 3465-71' (6') Limestone, buff to light gray, finely crystalline, trace of vugular & pinpoint

porosity, poor scattered dull yellow fluorescence with no cut.

Log: Porosity = 16%; Salt water = 37%

Analysis: Thin zone with low permeability -

possible hydrocarbons.

Zone 4 3507-18' (II') Limestone, tan to light gray, finely

crystalline, fair to good oolicastic porosity, trace vugular, No show.

Log: Porosity = 20%; Salt water 33%

Analysis: Water bearing

Marmaton:

3622-3761' Composed of tight and shally limestones and

thin black shales.

No shows were encountered.

Cherokee:

3761-3957'

Same as Marmaton

Mississippian:

Top @ 3957'

The first drilling break in the Mississippian was from 3987-4012'. Fresh chert and limestone was observed in the samples. The limestone was light tan, very finely crystalline, slightly cherty in part, trace pin-point porosity, scattered dull yellow fluorescence, with a very poor cut.

Log: All porous Mississippian calculated between 65-85% water saturation.

Analysis: Low permeability and/or water

bearing.

Simpson Sand: Top @ 4433'

- 4433-36' (3') Sandy Dolomite & Dolomite sand white to gray, fine to medium grained, well rounded, slightly pyritie, trace dead oil stain, scattered dull yellow fluorescence, No Cut.
- 4436-42' (6') Sandstone white, fine to medium grained clean, friable, no stain, dull yellow fluorescence. No Cut.

Analysis: Water bearing

CONCLUSIONS AND RECOMMENDATION:

The only oil shows observed in the samples were poor and were encountered in rocks of questionable reservoir quality.

Electric logs did not disclose any zones worthy of testing.

In view of the above conclusions, recommendation was made to plug and abandon the #1 Strait at a total depth of 4442'.

Respectfully submitted,

John C. Roberts, Geologist