

Dubois and Johnson

Consulting Geologists

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Geologic Report

McNeish Oil Operations #1 Scheetz
NW NE 22-11S-33W, Logan County, Kansas

Daily Progress:

2-16 Spud at 3:15 a.m., set 8-5/8" casing at 304' with
200 sacks, plug down at 9:45 p.m.
2-17 Drilled plug at 5:45 a.m., drilling at 365' at
8:00 a.m.
2-18 2180', drilling
2-19 3105', drilling
2-20 3795', drilling
2-21 4281', bit trip
2-22 4303', going in hole after DST #2
2-23 4491', drilling
2-24 4653', going in hole after DST #4, RTD 4720' reached at
1:50 p.m., plugged as D & A

Service Companies:

Drilling Contractor: Abercrombie Drilling, Inc., Rig 5
Drilling Mud: Mud-Co, Inc.
Cement: Halliburton
Drill Stem Tests: Halliburton

Formation Tops (Sample, no E-Logs run):

<u>Formations</u>	McNeish #1 Scheetz NW NE 22-11S-33W KB 3138	Structural Relation to Slawson #1 Pinkston "B" SE SE 15-10S-33W
Anhydrite	2826 (+512)	Flat
B. Anhydrite	4852 (+486)	Flat
Heebner	4051 (-913)	-3
Lansing	4090 (-952)	+3
Stark	4308 (-1170)	+3
Base Kansas City	4372 (-1234)	-1
Pawnee	4511 (-1373)	-2
Cherokee	4590 (-1452)	-1
Johnson Zone	4638 (-1500)	-6
Mississippi	4698 (-1558)	-2
Total Depth	4720 (-1582)	-

Oil Shows:

- 4077-81 Toronto
Limestone, white, fine to medium grained, rounded fossil grains, poor to fair intergranular and moldic porosity, spotty oil stain and slight show of free oil in 5-10% of sample. (packstone - grainstone) No DST run, non-commercial show.
- 4208-12 Lansing-Kansas City "F" Zone
Trace of scattered oil stain, no show of free oil
- 4249-56 Lansing-Kansas City "H" Zone
Trace of free oil and oil stain.
- 4287-95 Lansing-Kansas City "I" Zone
Limestone, white, fine-grained, rounded fossil grains, much is tight, scattered fair pin point moldic porosity, faint odor, florescence and oil stain in 10% of sample, slight show of free oil. (packstone)
- DST #1 4276-4292
30-30-30-30
Weak blow died in 20 minutes
Recovered: 3' mud
Flow Pressures: 25-25, 25-25
Shutin Pressures: 42-25
Hydrostatic Pressures: 2130-2105
Bottom hole Temperature: 105 degrees F.
- 4292-4303 Lansing-Kansas City "J" Zone
Limestone, white, fine to medium grained, rounded fossil grains, mostly poor, some fair moldic porosity, faint odor, florescence and oil stain in 20% of sample, slight show of free oil. (packstone and grainstone)
- DST #2 4283-4303
30-30-30-30
Weak blow died in 10 minutes
Recovered: 20' mud
Flow Pressures: 25-25, 25-25
Shutin Pressures: 50-50
Hydrostatic Pressures: 2180-2163
Bottom hole Temperature: 104 degrees F.
- 4319-23 Lansing-Kansas City "K" Zone
Limestone, tan, medium grained, rounded fossil grains, poor moldic porosity, fair odor, florescence and oil stain in 20% of sample, slight to fair show of free oil. (packstone)

4328-33 Limestone, blue-gray, cherty, fossiliferous, scattered fossil molds and vugs, poor to fair porosity, fair odor, fluorescence and stain in 30% of sample, fair show of free oil. (wackestone)

DST #3 4302-4335

30-30-30-30

Weak blow died, both opens

Recovered: 100' mud with slight show of oil on top of the tool

Flow Pressures: 33-50, 67-83

Shutin Pressures: 965-949

Hydrostatic Pressures: 2180-2130

Bottom hole Temperature: 108 degrees F.

4638-43 Johnson Zone
Limestone, brown, medium grained, rounded fossil grains, very hard and brittle, scattered vugs, poor porosity overall, fair odor, oil stain on fractures and vugs in 20-25% of sample, fair show of free oil. (wackestone)

DST #4 4631-53

30-45-45-60

Weak blow died at end of first period

Recovered: 30' slightly oil spotted mud

Flow Pressures: 33-33, 33-33

Shutin Pressures: 117-100

Hydrostatic Pressures: 2380-2305

Bottom hole Temperature: 110 degrees F.

Recommendation/Summary:

It was recommended that the McNeish Oil Operations #1 Scheetz well be plugged and abandoned due to the lack of commercial oil shows. All significant shows of oil were condemned by drill stem tests. The slight show of oil in the Toronto was not tested but appeared to be non-commercial based upon drill times and sample evaluation.

All the producing zones in the Cook Southwest pool to the northeast were encountered in a relatively favorable structural position in the #1 Scheetz well. However, all zones lacked sufficient porosity and permeability to yield any fluid.

Respectfully submitted,

Martin K. Dubois
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MKD:lk