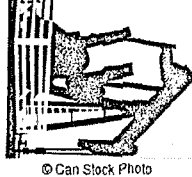


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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Ad Astra Oil, LLC

LEASE Becker #5

FIELD Fred

LOCATION SW-NW-NE-NE

SEC 14 TWP 9S RGE 21E

COUNTY Leavenworth STATE Kansas

CONTRACTOR Hatt Drilling, LLC

SPUD 8/4/2017 COMP 8/9/2017

RID 1538 LTD 1538

MAUD UP 1150

ELEVATIONS

KB _____

DF _____

GL 1097 est

Measurements Are At 11 FT OM Ground Level

CASING _____

PRODUCT ON 4 1/2"

8 5/8"

ELECTRICAL SURVEYS

Density/Neutron & Dual Induction

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION	
			A	B	C
Upper McClouth	1304	-207	-277	-286	-273
Lower McClouth	1366	-259	-327	-345	-340
Burgess Sand	1426	-323	-341	-355	-357
Miss	1438	-341	-355	-357	-357

REFERENCE WELLS FOR STRUCTURE

- A Becker #1 (Victor J. Leis) sec 14 19/R21E
- B Fredricks #2 (Victor J. Leis) sec 11 19/R21E
- C Becker #3 (Victor J. Leis) sec 14 19/R21E

**Becker #5
Geologist Report**

Ad Astra Oil, LLC

Geologist: Jarred Leis

Dear Sirs,

The following information is based on my microscopic examination of the drilling cuttings in this well from 1290 ft to Total Depth. All measurements for this well were taken from an estimated ground level elevation of 1097ft. Also, I will add analysis of the Open Hole logs that were run.

The Zones of interest in the Becker #5 were the Burgess Sand and Mississippi (1490-1496). The Burgess was comparable to the completed wells in this field, and appeared economic. The zone in the Miss looks economic on the open hole logs however with loss of circulation shortly after cutting this zone, cuttings were somewhat inconclusive. They are described in detail below.

Burgess Sand (1420-1436 e-log's)

1426-1436 sample log: Sandstone: fine-grained, loose grains, very friable, good inter-crystalline porosity, good odor, samples saturated in heavy oil, gas bubbles, great show of free oil, dull blue fluorescence. The open hole logs indicate that the upper 6 ft. of the Burgess has extremely good porosity (30-37%) with great gas crossover. As well as great porosity, the dual induction log shows 15-17 ohms resistivity in the upper 6ft which indicates good hydrocarbon saturation.

Miss Zone (1490-1496 e-log's)

1500 - 1510 on sample log after circulation was regained: Limestone: tan to grey, very fine grained, fair to good crystalline porosity, very scattered free oil, faint odor, poor fluorescence. The open hole logs indicate great porosity from 1490-1496 (26-36%) with great gas crossover. As well as great porosity, the dual induction log shows ~30 ohms resistivity which could indicate a good saturation of hydrocarbons.

Summary

Due to significant oil shows in the Burgess Sand and an abundant amount of oil bleed on the pits while drilling the Mississippi, as well as great attributes for both zones on the open hole logs the decision was made to run 4 1/2" casing to further evaluate these zones.

Respectfully Submitted,

JL
Jarred Leis
Petroleum Geologist

