



## DRILLING INFORMATION AND GEOLOGICAL REPORT

Operator: Charles N. Griffin  
Lease: Koblitz #3  
Survey: SW NE NW  
Section 26-34S-9W  
Field: Hibbord  
County: Harper  
State: Kansas

Contractor: Duke Drilling, Rig 10  
Elevation: 1271' GL / 1282' KB  
Surface Casing: 8-5/8" @ 224'  
Production: 5-1/2"  
Mud Up: 3417'  
Geologist: 4470'  
Pipe Strap: Strap @ 4420' (-0.66 to the board)  
Survey: Straight hole @ 4420' (1-1/4 degree deviation)  
Testing: Trilobite (2)  
Log: Dual Compensated Porosity / Dual Induction  
Detail: 3300' to RTD  
RTD: 4800'  
LTD: 4801'

### Daily Penetration

01/09/10	Spud
01/10/10	228'
01/11/10	1539'
01/12/10	2764'
01/13/10	3705'
01/14/10	4444'
01/15/10	4625'
01/16/10	4721'
01/17/10	4800'

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### Drill Stem Tests

DST #1 4594' to 4625'. Strong blow on the initial flow period. Strong blow, gas to surface in 2 minutes of the second flow period. Recovered: 60' GOCM (26% gas, 30% oil and 44% mud), 90' GMCWO (12% gas, 55% oil, 23% water and 10% mud). IFP/30" 42-42#, ISIP/45" 1668#, FFP/60" 43-59#, FSIP/60" 1706#.

DST #2 4628' to 4646'. Fair blow building to a strong blow on the initial flow period. Strong blow throughout the second flow period. Recovered: 1,640' Gas in Pipe, 45' GOCMW (6% gas, 15% oil, 15% water and 64% mud). IFP/30" 33-25#, ISIP/45" 709#, FFP/30" 29-32, FSIP/60" 682#.

### Formation Tops

<u>Formation</u>	<u>Sample Top</u>	<u>Datum</u>	<u>Log Top</u>	<u>Datum</u>	<u>Structural Comparison*</u>
Kansas City	4067'	-2785	4065'	-2783	-7
Stark	4215'	-2933	4216'	-2934	-9
B/KC	4305'	-3023	4305'	-3023	-8
Labette	4465'	-3183	4466'	-3184	-8
Cherokee	4477'	-3195	4477'	-3195	-5
Mississippi	4579'	-3297	4580'	-3295	-3

\*Reference well for structural comparison: Charles N. Griffin, #1 Koblitz, NW NE NW of Section 26-34-9W, Harper County, Kansas

### Zones of Interest

4598'-4608'

Mississippi Formation. Dolomitic limestone and dolomite: white, brown to light gray, fine crystalline, sucrosic to granular. There were a few pieces of mottled white to gray chert. Fair visible inter-crystalline and poor pinpoint porosity. There was no odor in the fresh sample with a very slight showing of free oil (scum) and light indication of gas bubbles. This section was covered in DST #1.

4629'-4641'

Mississippi Formation. Dolomite: cream, white to brown, more medium crystalline with some scattered fair vuggy porosity. There was an odor in the fresh sample with few spots of live brown oil to a rainbow showing of oil. Scattered pieces of vitreous chert. This section was covered in DST #2.

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### Comments and Recommendations

All tops have been corrected to the electric log for structural comparison. This well ran structurally lower than the producer to the north. Commercial shows of oil and gas were recovered from Drill Stem Test #1 from 4594' to 4625' in the primary producing formation that has developed in the offset wells.

It is therefore recommended that an oil string of casing be run to further test this well through selected perforations. From the electric log analysis, the zone of interest should be perforated from 4596' to 4608'.

Respectfully submitted,

A handwritten signature in black ink, reading 'Bruce A. Reed'. The signature is fluid and cursive, with the first name 'Bruce' being more prominent than the last name 'Reed'.

Bruce A. Reed – Well site Geologist

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