

API # ~~15-035-21482-00-00~~  
15-035-24182-00-00

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**GEOLOGICAL REPORT**

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CONSERVATION DIVISION  
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**R. JOHNSON 1 A**

*KCC*  
~~990 FNL-1650 FEL~~ *GPS 4270' FSL*  
SECTION 12 TWP 33S RGE 4E *3807' FEL*  
COWLEY COUNTY, KS

**OPERATOR:** Cowley Energy Associates, LLC  
3838 Oak Lawn Avenue Suite 910  
Dallas, TX 75219

**SPUD:** October 8, 2003

**TOTAL DEPTH** 718'

**CONTRACTOR:** Mc Pherson Drilling Co.  
Sycamore KS 67363-0097

**SURFACE CASING:** 7" @ 211 feet

**ELECTRIC LOGGING:** None run

**SURVEYS:** None run

**ELEVATIONS:** 1204 GPS Topo

**STATUS:** Casing set for futhur testing

1 of 3

R Johnson 1A

**FORMATION TOPS**  
All measurements from ground  
Elevation: 1204 GPS Topo  
Electric log measurements

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Formation	Depth	Sub-sea
NEVA LIME	390	+814
RED EAGLE LIME	456	+748
FORACKER LIME	498	+706
ADMIRE GROUP	548	+656
UPPER ADMIRE SAND	585	+619
FALL CITY LIME	605	+599
ADMIRE "B" SAND	None	
ADMIRE "C" SAND	622	+582
ADMINE "D" SAND	648	+556

#### STRUCTURAL COMPARSION

Formation	Cowley 2A Johnson	Cowley 3A Johnson	Cowley 1A Johnson
NEVA LIME	+790	+807	+814
RED EAGLE LIME	+724	+745	+748
FORACKER LIME	+691	+709	+706
ADMIRE GROUP	+627	+640	+656
FALL CITY LIME	+570	+590	+599

#### SAMPLE DESCRIPTIONS ZONES OF INTEREST

Red Eagle Lime 465'-475': Lime, white, tan, fossiliferous, some vugs. No cut.

Foracker Lime 505'-515': Lime, dark grey, some vugs, fossiliferous. No cut.

Upper Admire Sand 585'-590': Sand, grey to green, fine grained, silty. No cut.

Admire "C" Sand 623'-638': Sand, as above. No cut.

Admire D Sand 648'-657': Sand grey, fine grained, micaceous, friable, spotted  
fluoresnce, Fair cut.

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R Johnson #1-A

**REMARKS**

Testing was done on the subject well at depths on 397', 543', 611', 618', 643', 668', and 715'. Test # 2 gauged 4.45 MCF, which would have covered the Red Eagle and Foracker formations. The gas flow was 4.45 MCF thru test # 6, which would also covered the Red Eagle, Foracker, Upper Admire and the Admire "C" sands.

A significant increase in the flow of gas from 4.45 MCF to 24.5 MCF an increase of 20 MCF on the final test at 715' indicates this increase come from the Admire "D" sand at a depth of 648'-657'.

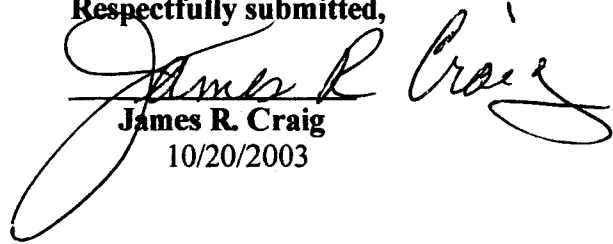
Casing was run for completion.

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Respectfully submitted,

  
James R. Craig

10/20/2003

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