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GEOLOGICAL REPORT

WHITEHILL P-1  
W/2 SW NW <sup>335</sup>  
SECTION 33 TWP 34S RGE 4E  
COWLEY COUNTY, KS.

ORIGINAL

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OPERATOR: Peak Energy LLC  
PO Box 783  
Coffeyville, KS 67337.

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SPUD: July 23, 2001

LOGGED: July 26, 2001

TOTAL DEPTH: 2150

CONTRACTOR: McGown Drilling Inc.  
Mound City, KS.

SURFACE CASING: 8 5/8" @ 200'

ELECTRIC LOGGING: Osage Wireline  
Hominy OK.

SURVEYS: Dual Induction & Dual Compensated  
Porosity Logs

ELEVATIONS: 1234 GPS TOPO (est)  
All measurements from GL

STATUS: 4 1/2" Casing set for further testing

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Elevations  
1234 GL est

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All measurements from GL

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**Formation**

**DEPTH**

**SUB-SEA**

Wreford Lime	340	+894
Beattie Lime	452	+782
Neva Lime	531	+703
Red Eagle Lime	560	+674
Admire Group	720	+514
Upper Admire	750	+484
Fall City Lime	777	+457
Lower Admire	764	+440
Howard Lime	1240	-6
Topeka Lime	1400	-166
Heebner Shale	1798	-564
Haskell Lime	1970	-736

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**STRUCTURAL COMPARSION**

<b>Formation</b>	<b>Peak Whitehill P-1</b>	<b>Peak Redman P-1</b>	<b>Peak Birdzell P-1</b>
Red Eagle Lime	+674	+678	+680
Admire Group	+514	+510	+510
Fall City Lime	+457	+462	+458
Topeka Lime	-166	-162	-150
Heebner Shale	-564	-558	-547
Haskell Lime	-736	-724	-710

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SAMPLE DESCRIPTIONS  
ZONES OF INTEREST

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Wreford Lime: 340'-348': Samples were not caught during the drilling of this zone. Electric log calculates 16% porosity, 29% water saturation at a depth of 346'.

Beattie Lime: 452'-460': Lime, gray to white, vuggy porosity. Electric log calculates 16% porosity, 33% water saturation at a depth of 456'.

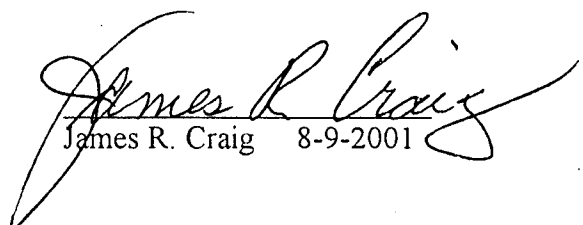
Upper Admire Sand: 754'-764': Sand, gray, medium to fine grained, micaceous, friable. Electric log calculates 16% porosity, 50% water saturation at a depth of 758'-760'.

**REMARKS:** The lower Admire sand was shaley and not well developed. Indian Cave and Elgin sands were water bearing, and the Douglas sands were not developed. Based on samples & electric log calculations casing was run for futhur testing of the upper zones..

**Recommend zones to be tested**

Wreford Lime: 342'-358'  
Beattie Lime: 452'-460'  
Upper Admire Sand: 754'-764'.

The Admire sand was perforated from 756' to 762' with slick jets, 2 shots per foot August 3, 2001.

  
James R. Craig 8-9-2001