



**COMPUTER  
GENERATED  
INTERPRETATION**

Company Production Drilling  
 Well Crissman # 4  
 Field Ubert  
 County Ellis  
 State Kansas

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 Well Crissman # 4  
 Field Ubert  
 County Ellis State Kansas

Location: API #: 15-51-26203

SEC 1 TWP 13S RGE 18W  
 493' FSL & 343' FWL

Other Services  
 DIL  
 CDNL

Elevation  
 K.B. 2117'  
 D.F. 2116'  
 G.L. 2109'

Date 10-26-11

Depth Driller 3695'

Curve Definitions

Water Saturation

Apparent Water Resistivity

Shale Volume

Effective Porosity

Permeability

Bulk Volume Water

If: PHIE>6%, VSH<50%, SW<50%, DCAL<10"

Recorded By L. Smith

Witnessed By Mr. Marty Patterson, Mr. Cliff Ottaway

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

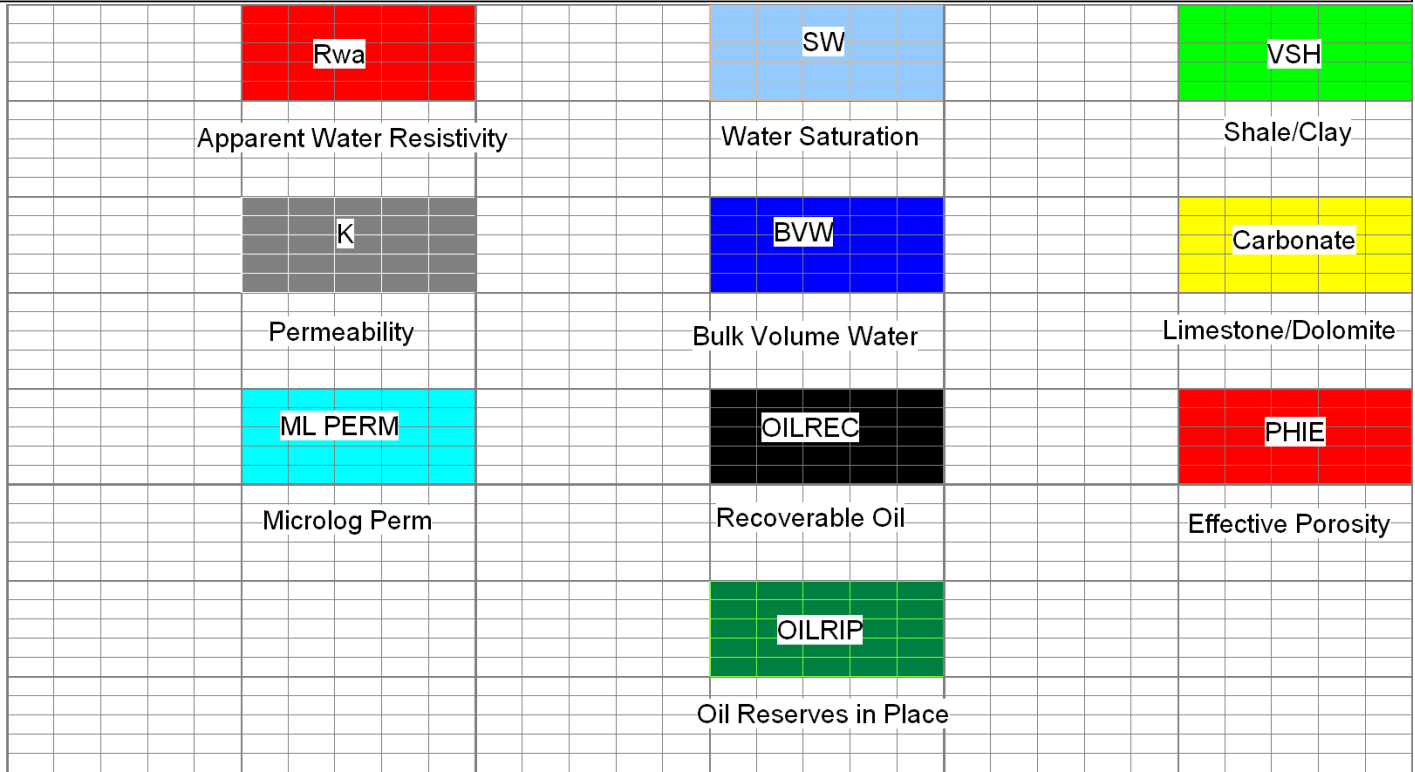
**Comments**

Thank you for using The Perforators LLC  
 Hays, KS (785) 621-4604



**Main Pass**

Database File: gcolorchart.db  
 Dataset Pathname: pass3.1  
 Presentation Format: color  
 Dataset Creation: Wed Nov 17 10:09:46 2010  
 Charted by: Depth in Feet scaled 1:240



Database File: pdicrissman#4oh.db  
 Dataset Pathname: oh2  
 Presentation Format: kohcgi  
 Dataset Creation: Thu Oct 27 14:04:38 2011  
 Charted by: Depth in Feet scaled 1:240

|     |             |     |     |            |      |             |   |     |        |               |     |         |          |   |
|-----|-------------|-----|-----|------------|------|-------------|---|-----|--------|---------------|-----|---------|----------|---|
| 0   | GR (GAPI)   | 150 |     | RILD       | 0    | Rwa (Ohm-m) | 1 | 100 | SW (%) | -100          | 0   | VSH (%) | 100      |   |
| 6   | DCAL (in)   | 16  | 0.2 | (Ohm-m)    | 2000 | 0           | K | 5   | 50     | PHIE (%)      | 0   | 50      | PHIE (%) | 0 |
| 6   | BOREID (in) | 16  |     | RLL3       |      |             |   |     | 50     | BVW (%)       | 0   |         |          |   |
| 140 | Rxo\Rt      | -60 | 0.2 | (Ohm-m)    | 2000 |             |   |     | 30     | NPOR (pu)     | -10 |         |          |   |
|     |             |     | 0   | NEU (NAPI) | 700  |             |   |     | 30     | DPOR (pu)     | -10 |         |          |   |
|     |             |     |     |            |      |             |   |     | 200    | COILREC (bbl) | 0   |         |          |   |
|     |             |     |     |            |      |             |   |     | 8000   | OILRIP (bbl)  | 0   |         |          |   |

