



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation

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**WELL LOG**

Kansas Resource Exploration & Development, LLC

Kitchen #KRI-16

API # 15-121-29,963

March 17 - March 18, 2014

| <u>Thickness of Strata</u> | <u>Formation</u> | <u>Total</u>  |
|----------------------------|------------------|---|
| 7                          | soil & clay      | 7   |
| 19                         | lime             | 26  |
| 19                         | shale            | 45  |
| 9                          | lime             | 54  |
| 39                         | shale            | 93  |
| 15                         | lime             | 108   |
| 10                         | shale            | 118   |
| 29                         | lime             | 147   |
| 8                          | shale            | 155   |
| 22                         | lime             | 177   |
| 5                          | shale            | 182   |
| 5                          | lime             | 187   |
| 1                          | shale            | 188   |
| 5                          | lime             | 193 oil show, base of the Kansas City                 |
| 18                         | shale            | 211   |
| 4                          | sand             | 215 grey & green sand, light gassy odor               |
| 144                        | shale            | 359   |
| 9                          | lime             | 368   |
| 2                          | shale            | 370   |
| 3                          | lime             | 373   |
| 2                          | shale            | 375   |
| 5                          | silty shale      | 380   |
| 2                          | broken sand      | 382 20% light brown sand 80% shale,<br>light bleeding |
| 4                          | silty shale      | 386   |
| 25                         | shale            | 411   |
| 1                          | coal             | 412   |
| 8                          | shale            | 420   |
| 8                          | lime             | 428   |
| 10                         | shale            | 438   |
| 3                          | lime             | 441   |
| 19                         | shale            | 460   |
| 8                          | lime             | 468   |
| 21                         | shale            | 489   |
| 2                          | lime             | 491   |
| 3                          | shale            | 494   |
| 7                          | lime             | 501 oil show  |
| 5                          | shale            | 506   |

|     |               |       |  |
|-----|---------------|-------|--|
| 1.5 | oil sand      | 507.5 | brown sand, good bleeding, gassy                     |
| 1   | broken sand   | 508.5 | 90% brown oil sand, 10% shale<br>good bleeding gassy |
| 4.5 | oil sand      | 513   | brown sand, good bleeding, gassy                     |
| 4   | broken sand   | 517   | 50% brown sand, 50% shale light bleeding             |
| 4   | broken sand   | 521   | 50% brown & grey sand, 50% shale<br>minimal bleeding |
| 13  | silty shale   | 534   |  |
| 34  | shale         | 568   |  |
| 1   | lime & shells | 569   |  |
| 7   | shale         | 576   |  |
| 2   | broken sand   | 578   | light brown & grey sand minimal bleeding             |
| 3   | silty shale   | 581   |  |
| 1   | broken sand   | 582   | 10% brown sand, 90% shale<br>minimal bleeding        |
| 3   | silty shale   | 585   |  |
| 13  | shale         | 598   |  |
| 1   | coal          | 599   |  |
| 1   | shale         | 600   | TD   |

Drilled a 9 7/8" hole to 21.5'

Drilled a 5 5/8" hole to 600'

Set 21.5' of 7" surface casing cemented with 6 sacks of cement

Set 582.95' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp, 1 baffle.

Baffle set 32.15' from bottom of tally.

**Core Times**

|     | <u>Minutes</u> | <u>Seconds</u> |
|-----|----------------|----------------|
| 506 | 1              | 5              |
| 507 |                | 48             |
| 508 |                | 37             |
| 509 |                | 37             |
| 510 |                | 48             |
| 511 |                | 50             |
| 512 |                | 50             |
| 513 |                | 56             |
| 514 |                | 53             |
| 515 |                | 56             |
| 516 | 1              | 0              |
| 517 |                | 37             |
| 518 |                | 42             |
| 519 |                | 44             |
| 520 |                | 44             |
| 521 |                | 41             |
| 522 |                | 37             |
| 523 |                | 40             |
| 524 |                | 37             |
| 525 |                | 27             |