



310 N. Hospital Drive

Paola, Kansas 66071

(913) 294-9083

1514-202  
COPY

Custom  
oil & gas  
drilling  
Lease Development

WELL LOG  
Schultz -#22  
Colt Energy Inc.  
API No. 15-045-21,122  
August 21-24, 1990

Thickness of Strata

Formation

Total

|     |             |     |
|-----|-------------|-----|
| 2   | soil & clay | 2   |
| 10  | sand        | 12  |
| 77  | shale       | 89  |
| 5   | lime        | 94  |
| 4   | sand        | 98  |
| 2   | shale       | 100 |
| 18  | lime        | 118 |
| 8   | shale       | 126 |
| 6   | lime        | 132 |
| 7   | shale       | 139 |
| 28  | lime        | 167 |
| 18  | shale       | 185 |
| 14  | lime        | 199 |
| 5   | sand        | 204 |
| 61  | shale       | 265 |
| 6   | lime        | 271 |
| 4   | shale       | 275 |
| 17  | lime        | 292 |
| 18  | shale       | 310 |
| 9   | lime        | 319 |
| 43  | shale       | 352 |
| 5   | lime        | 358 |
| 14  | shale       | 372 |
| 24  | lime        | 396 |
| 8   | shale       | 404 |
| 24  | lime        | 428 |
| 4   | shale       | 432 |
| 15  | lime        | 447 |
| 146 | shale       | 593 |
| 3   | sand        | 596 |
| 16  | shale       | 612 |
| 4   | lime        | 616 |

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Base of the K.C.

Brown, slight oil st

13-14-20E

|     |              |        |                                              |
|-----|--------------|--------|----------------------------------------------|
| 4   | shale        | 620    |                                              |
| 5   | lime         | 625    |                                              |
| 2   | shale        | 627    |                                              |
| 1   | coal         | 628    |                                              |
| 4   | shale        | 632    |                                              |
| 7   | lime         | 639    |                                              |
| 16  | shale        | 655    |                                              |
| 4   | lime         | 659    |                                              |
| 16  | shale        | 675    |                                              |
| 1   | lime         | 676    |                                              |
| 3   | shale        | 679    |                                              |
| 1   | lime         | 680    |                                              |
| 25  | shale        | 705    |                                              |
| 2   | lime         | 707    |                                              |
| 2   | shale        | 709    | Dark                                         |
| 23  | shale        | 732    | Grey                                         |
| 2   | brokensand   | 734    | Drilled, Brown b<br>ing sand & grey<br>shale |
| 3.4 | sand & shale | 737.4  | Thin seams, ble<br>ing sand and gr<br>shale  |
| 7.4 | sand         | 744.8  |                                              |
| .7  | lime         | 745.5  |                                              |
|     | shale        | 800 TO |                                              |

Set 42.75' of 7" surface casing.  
Set the top of the seating nipple  
at 732'. Set a total of 787.5' of  
2 7/8" 10 round tubing, including 7  
scratchers, 3 centralizers, one seating  
nipple & collar, 1 float shoe, and 1 clamp.

Core Times

|     | <u>Min.</u> | <u>Sec.</u> |
|-----|-------------|-------------|
| 734 |             |             |
| 735 | 1           | 45          |
| 736 | 2           | 15          |
| 737 | 2           | 25          |
| 738 | 2           | 00          |
| 739 | 2           | 00          |
| 740 | 2           | 15          |
| 741 | 1           | 50          |
| 742 | 1           | 40          |
| 743 | 1           | 55          |
| 744 | 1           | 45          |
| 745 | 1           | 45          |
| 746 | 3           | 25          |
| 747 | 3           | 00          |
| 748 | 3           | 20          |

|     | <u>Min.</u> | <u>Sec.</u> |
|-----|-------------|-------------|
| 749 | 3           | 05          |
| 750 | 3           | 15          |
| 751 | 3           | 20          |
| 752 | 3           | 10          |
| 753 | 3           | 00          |
| 754 | 3           | 15          |
| 755 |             |             |
| 756 |             |             |

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