

GAMMA RAY  
 NEUTRON  
 PLETION LOG

|         |                        |
|---------|------------------------|
| Company | TALWATER, INC.         |
| Well    | SOUTH KEMPINICH #23-1W |
| Field   | GARNETT SHOESTRING     |

County **ANDERSON** State **KANSAS**

|           |                           |                |
|-----------|---------------------------|----------------|
| Location: | API #: 15-003-25036-00-00 | Other Services |
|-----------|---------------------------|----------------|

2640' FSL &amp; 1980' FWL

|       |  |
|-------|--|
| E2 W2 |  |
| 0     |  |
| 1     |  |
| 3     |  |
| 4     |  |
| 3     |  |
| 3     |  |
| 0     |  |
| 0     |  |
| 1     |  |
| 3     |  |
| 1     |  |

| Permanent Datum | Elevation |
|-----------------|-----------|
| SEC 22          | 965.1 EST |
| IWP 203         |           |
| RGE 20E         |           |

| Log Measured From | GL | KB | DF |
|-------------------|----|----|----|
| 1                 | 1  | 1  | 1  |
| 2                 | 1  | 1  | 1  |
| 3                 | 1  | 1  | 1  |
| 4                 | 1  | 1  | 1  |
| 5                 | 1  | 1  | 1  |
| 6                 | 1  | 1  | 1  |
| 7                 | 1  | 1  | 1  |
| 8                 | 1  | 1  | 1  |
| 9                 | 1  | 1  | 1  |
| 10                | 1  | 1  | 1  |
| 11                | 1  | 1  | 1  |
| 12                | 1  | 1  | 1  |
| 13                | 1  | 1  | 1  |
| 14                | 1  | 1  | 1  |
| 15                | 1  | 1  | 1  |
| 16                | 1  | 1  | 1  |
| 17                | 1  | 1  | 1  |
| 18                | 1  | 1  | 1  |
| 19                | 1  | 1  | 1  |
| 20                | 1  | 1  | 1  |
| 21                | 1  | 1  | 1  |
| 22                | 1  | 1  | 1  |
| 23                | 1  | 1  | 1  |
| 24                | 1  | 1  | 1  |
| 25                | 1  | 1  | 1  |
| 26                | 1  | 1  | 1  |
| 27                | 1  | 1  | 1  |
| 28                | 1  | 1  | 1  |
| 29                | 1  | 1  | 1  |
| 30                | 1  | 1  | 1  |
| 31                | 1  | 1  | 1  |
| 32                | 1  | 1  | 1  |
| 33                | 1  | 1  | 1  |
| 34                | 1  | 1  | 1  |
| 35                | 1  | 1  | 1  |
| 36                | 1  | 1  | 1  |
| 37                | 1  | 1  | 1  |
| 38                | 1  | 1  | 1  |
| 39                | 1  | 1  | 1  |
| 40                | 1  | 1  | 1  |
| 41                | 1  | 1  | 1  |
| 42                | 1  | 1  | 1  |
| 43                | 1  | 1  | 1  |
| 44                | 1  | 1  | 1  |
| 45                | 1  | 1  | 1  |
| 46                | 1  | 1  | 1  |
| 47                | 1  | 1  | 1  |
| 48                | 1  | 1  | 1  |
| 49                | 1  | 1  | 1  |
| 50                | 1  | 1  | 1  |
| 51                | 1  | 1  | 1  |
| 52                | 1  | 1  | 1  |
| 53                | 1  | 1  | 1  |
| 54                | 1  | 1  | 1  |
| 55                | 1  | 1  | 1  |
| 56                | 1  | 1  | 1  |
| 57                | 1  | 1  | 1  |
| 58                | 1  | 1  | 1  |
| 59                | 1  | 1  | 1  |
| 60                | 1  | 1  | 1  |
| 61                | 1  | 1  | 1  |
| 62                | 1  | 1  | 1  |
| 63                | 1  | 1  | 1  |
| 64                | 1  | 1  | 1  |
| 65                | 1  | 1  | 1  |
| 66                | 1  | 1  | 1  |
| 67                | 1  | 1  | 1  |
| 68                | 1  | 1  | 1  |
| 69                | 1  | 1  | 1  |
| 70                | 1  | 1  | 1  |
| 71                | 1  | 1  | 1  |
| 72                | 1  | 1  | 1  |
| 73                | 1  | 1  | 1  |
| 74                | 1  | 1  | 1  |
| 75                | 1  | 1  | 1  |
| 76                | 1  | 1  | 1  |
| 77                | 1  | 1  | 1  |
| 78                | 1  | 1  | 1  |
| 79                | 1  | 1  | 1  |
| 80                | 1  | 1  | 1  |
| 81                | 1  | 1  | 1  |
| 82                | 1  | 1  | 1  |
| 83                | 1  | 1  | 1  |
| 84                | 1  | 1  | 1  |
| 85                | 1  | 1  | 1  |
| 86                | 1  | 1  | 1  |
| 87                | 1  | 1  | 1  |
| 88                | 1  | 1  | 1  |
| 89                | 1  | 1  | 1  |
| 90                | 1  | 1  | 1  |
| 91                | 1  | 1  | 1  |
| 92                | 1  | 1  | 1  |
| 93                | 1  | 1  | 1  |
| 94                | 1  | 1  | 1  |
| 95                | 1  | 1  | 1  |
| 96                | 1  | 1  | 1  |
| 97                | 1  | 1  | 1  |
| 98                | 1  | 1  | 1  |
| 99                | 1  | 1  | 1  |
| 100               | 1  | 1  | 1  |

|                        |    |              |
|------------------------|----|--------------|
| Drilling Measured From | GL | G.L. 300 E31 |
|------------------------|----|--------------|

|          |  |
|----------|--|
| 0-2-2012 |  |
| 1 MW     |  |

[illegible]

|  |        |  |
|--|--------|--|
|  | 719.3' |  |
|--|--------|--|

|   |  |  |
|---|--|--|
| 0 |  |  |
|---|--|--|

|  |        |  |  |
|--|--------|--|--|
|  | 7/19.3 |  |  |
|  | CIII   |  |  |

|       |  |  |
|-------|--|--|
| WATER |  |  |
| WATER |  |  |

|            |   |   |
|------------|---|---|
|            |   |   |
| 27/8" @ TD | @ | @ |

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| p  |  |  |  |
| st |  |  |  |

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|  |  |  |  |  |  |

[illegible]

|      |  |     |  |
|------|--|-----|--|
| Here |  | 105 |  |
|------|--|-----|--|

|  |  |  |  |      |
|--|--|--|--|------|
|  |  |  |  | Fold |
|--|--|--|--|------|

|              |  |
|--------------|--|
| SOLOWMON, B. |  |
| HITCHINSON D |  |

[illegible]

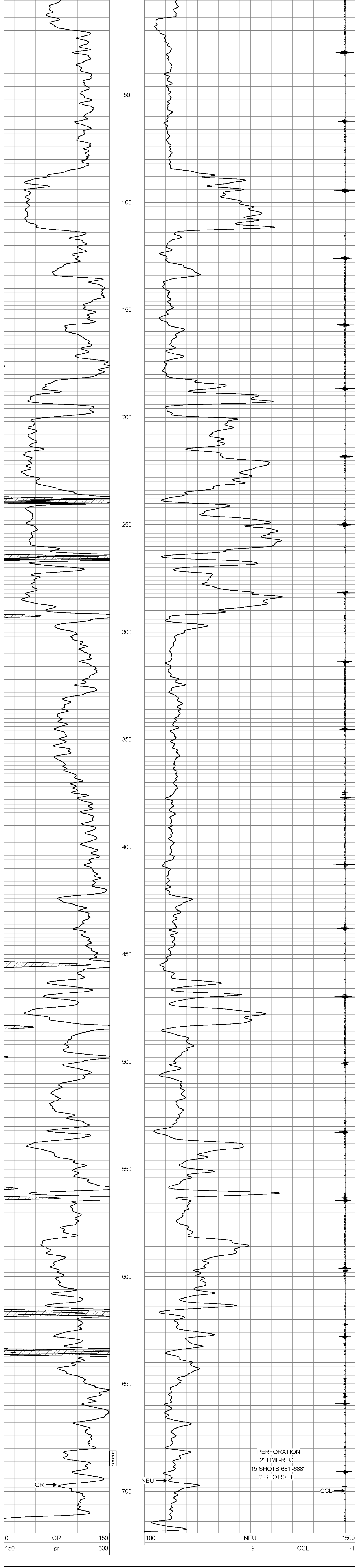
|  |          |
|--|----------|
|  | Comments |
|  |          |

| Tool Joint                                                                                                                   | GR   | CCL  | NEU | GR-TITAN_169 (TIT169_001)<br>Titan 1 11/16" Gamma Ray | CCL-TITAN_169 (TIT169)<br>Titan 1 11/16" Logging CCL | NEU-TITAN_169 (TIT169_001)<br>Titan 1 11/16" Neutron | 4.75 | 1.69 | 20.00 |
|------------------------------------------------------------------------------------------------------------------------------|------|------|-----|-------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------|------|-------|
| 7.59                                                                                                                         | 5.05 | 0.63 |     |                                                       |                                                      |                                                      |      |      |       |
|                                                                                                                              |      |      |     |                                                       |                                                      |                                                      | 1.83 | 1.69 | 7.50  |
|                                                                                                                              |      |      |     |                                                       |                                                      |                                                      | 4.33 | 1.69 | 20.00 |
| Dataset: south kempnich #23-iw.db: field/well/run1/pass1<br>Total Length: 10.92 ft<br>Total Weight: 47.50 lb<br>O.D. 1.69 in |      |      |     |                                                       |                                                      |                                                      |      |      |       |

Database File:

q:\south kempnich #23-iw.db

|     |    |     |  |     |
|-----|----|-----|--|-----|
| 0   | GR | 150 |  | 100 |
| 150 | gr | 300 |  |     |



|         |                             |
|---------|-----------------------------|
| Company | TAILWATER, INC.             |
| Well    | SOUTH KEMPNIH #23-IW        |
| Field   | GARNETT SHOESTRING          |
| County  | WYOMING, SEC 36, T42N, R10E |