Johnson County, KS
Well:E. Gordon #W3
Lease Owner: D and Z

**Town Oilfield Service, Inc.**
(913) 837-8400

Commenced Spudding:
1/29/2014

WELL LOG

| Thickness of Strata | Formation | Total Depth |
|---|---|---|
| 8 | soil/clay | 8 |
| 14 | sandstone | 22 |
| 17 | shale | 29 |
| 1 | lime | 40 |
| 21 | shale | 61 |
| 7 | lime | 68 |
| 5 | shale | 73 |
| 16 | lime | 89 |
| 8 | shale | 97 |
| 9 | lime | 106 |
| 9 | sandy shale and sand | 115 |
| 16 | lime | 131 |
| 9 | shale | 140 |
| 9 | sandy shale and sand | 149 |
| 19 | lime | 168 |
| 9 | sandy shale | 177 |
| 55 | lime | 232 |
| 22 | shale | 254 |
| 10 | lime | 264 |
| 17 | shale | 281 |
| 8 | lime | 289 |
| 3 | shale | 292 |
| 9 | lime | 301 |
| 34 | shale | 335 |
| 1 | lime | 336 |
| 12 | shale | 348 |
| 25 | lime | 373 |
| 7 | shale | 380 |
| 23 | lime | 403 |
| 5 | shale | 408 |
| 4 | lime | 412 |
| 5 | shale | 417 |
| 7 | lime | 424 |
| 6 | shale | 430 |
| 5 | sand | 435 |
| 102 | asale | 537 |
| 8 | sand | 545 |
| 52 | shale | 597 |
| 5 | lime | 602 |
| 3 | shale | 605 |

Johnson County, KS
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Commenced Spudding:
1/29/2014

| | | |
|---|---|---|
| 2 | lime | 607 |
| 7 | shale | 614 |
| 6 | lime | 620 |
| 15 | shale | 635 |
| 3 | lime | 358 |
| 7 | shale | 645 |
| 4 | lime | 649 |
| 4 | shale | 653 |
| 2 | lime | 655 |
| 31 | shale | 686 |
| 2 | lime | 688 |
| 4 | shale | 692 |
| 3 | lime | 695 |
| 12 | sand | 707 |
| 10 | sandy shale | 717 |
| 45 | shale | 762 |
| 5 | broken sand | 767 |
| 7 | sandy shale | 774 |
| 14 | shale | 788 |
| 3 | lime | 791 |
| 6 | shale | 797 |
| 6 | sand | 803 |
| 36 | shale | 839 |
| 5 | sand | 844 |
| 4 | sandy shale | 848 |
| 32 | shale | 880 |
| 1 | sandy lime | 881 |
| 3 | sandy lime | 884 |
| 2 | sand | 886 |
| 2 | sand | 888 |
| 2 | sand | 890 |
| 1 | sand | 891 |
| 1 | broken sand | 892 |
| 2 | brokan sand | 894 |
| 6 | sandy shale | 900 |
| 60 | shale | 960-TD |
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# Short Cuts

**TANK CAPACITY**

**BBLS. (42 gal.) equals $D^2$x.14xh**
**D equals diameter in feet.**
**h equals height in feet.**

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**BARRELS PER DAY**

**Multiply gals. per minute x 34.2**

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**HP equals BPH x PSI x .0004**
**BPH - barrels per hour**
**PSI - pounds square inch**

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**TO FIGURE PUMP DRIVES**

*** D - Diameter of Pump Sheave**
*** d - Diameter of Engine Sheave**
**SPM - Strokes per minute**
**RPM - Engine Speed**
**R - Gear Box Ratio**
***C - Shaft Center Distance**

**D - RPMxd over SPMxR**
**d - SPMxRxD over RPM**
**SPM - RPMXD over RxD**
**R - RPMXD over SPMxD**

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

# Log Book

Well No. East Gordon #W3

Farm East Gordon

KS (State) Johnson (County)

27 (Section) 14 (Township) 22 (Range)

For D+2 Exploration (Well Owner)


## Town Oilfield Services, Inc.

*1207 N. 1st East*
*Louisburg, KS 66053*
*913-710-5400*

East Central Farm: Johnson County

KS State; Well No. W3

Elevation 1050

Commenced Spuding 1-29 20 14

Finished Drilling 1-30 20 14

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

27 14 22

(Section) (Township) (Range)

Distance from S line, 3960 ft.

Distance from E line, 5280 ft.

3- Sacks

## CASING AND TUBING RECORD

| | | | |
|---|---|---|---|
| 10" Set | | 10" Pulled | |
| 7⅞" Set | 24.5' | 8" Pulled | |
| 6¼" Set | | 6¼" Pulled | |
| 4" Set | | 4" Pulled | |
| 2"/8 Set | 929.80' | 2" Pulled | |

960 TD

CASIN

| Feet | In |
|---|---|
| | |

| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 8 | soil /clay | 8 | |
| 14 | sandstone | 22 | |
| 17 | shale | 39 | |
| 1 | Lime | 40 | |
| 21 | shale | 61 | |
| 7 | Lime | 68 | |
| 5 | shale | 73 | |
| 16 | Lime | 89 | |
| 8 | shale | 97 | Dark |
| 9 | Lime | 106 | |
| 9 | sandyshaletsand | 115 | no oil |
| 16 | Lime | 131 | |
| 9 | shale | 140 | |
| 9 | sand+sandyshale | 149 | |
| 19 | Lime | 168 | |
| 9 | sand,shale | 177 | |
| 55 | Lime | 232 | |
| 22 | shale | 254 | |
| 10 | Lime | 264 | |
| 17 | shale | 281 | |
| 8 | Lime | 289 | |
| 3 | shale | 292 | |
| 9 | Lime | 301 | |
| 34 | shale | 335 | |
| 1 | Lime | 336 | |
| 12 | shale | 348 | |
| 25 | Lime | 373 | |

373

| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 7 | shale | 380 | |
| 23 | Lime | 403 | |
| 5 | shale | 408 | |
| 4 | Lime | 412 | |
| 5 | shale | 417 | Heather |
| 7 | Lime | 424 | |
| 6 | shale | 430 | |
| 5 | sand | 435 | ~~one~~ x, no oil |
| 102 | shale | 537 | |
| 8 | sand | 545 | ~~one~~ x, no oil |
| 52 | shale | 597 | |
| 5 | Lime | 602 | |
| 3 | shale | 605 | |
| 2 | Lime | 607 | |
| 7 | shale | 614 | |
| 6 | Lime | 620 | |
| 15 | shale | 635 | |
| 3 | Lime | 638 | |
| 7 | shale | 645 | |
| 4 | Lime | 649 | |
| 4 | shale | 653 | |
| 2 | Lime | 655 | |
| 31 | shale | 686 | red bed - 662' |
| 2 | Lime | 688 | |
| 4 | shale | 692 | |
| 3 | Lime | 695 | |
| 12 | sand | 707 | |

707

| Thickness of Strata | Formation | Total Depth | Remarks |
|---|---|---|---|
| 10 | sand, shale | 717 | |
| 45 | shale | 762 | |
| 5 | Broken sand | 767 | odor, light oil |
| 7 | sandy shale | 774 | |
| 14 | shale | 788 | |
| 3 | Lime | 791 | |
| 6 | shale | 797 | |
| 6 | sand | 803 | grey, no oil |
| 36 | shale | 839 | |
| 5 | sand | 844 | |
| 4 | sandy shale | 848 | |
| 32 | shale | 880 | |
| 1 | sandy lime | 881 | odor, 2%-5%, Broken |
| 3 | sand & Lime | 884 | 15%-20% oil |
| 2 | sand | 886 | 50% oil |
| 2 | sand | 888 | 50%- solid oil, good bleeding |
| 2 | sand | 890 | 60%-70% oil > laminated |
| 1 | sand | 891 | 50% oil |
| 1 | Broken sand | 892 | 2%-5% oil |
| 2 | Broken sand | 894 | |
| 6 | sandy shale | 900 | |
| 60 | shale | 960 | TD |
| | | | |
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