

Company: LaVeta Oil and Gas  
 Address: PO Box 780  
 Middleburg, VA 20118

**OPERATOR**

Contact Geologist: #15 Allen  
 Contact Phone Nbr: Section 31-22S-11W  
 Well Name: #15 Allen  
 Location: Section 31-22S-11W  
 Pool: API: 15-185-23972  
 State: Kansas Country: Richardson USA

Scale 1:240 Imperial  
 Well Name: #15 Allen  
 Surface Location: Section 31-22S-11W  
 Bottom Location: API: 15-185-23972  
 License Number:  
 Spud Date: 11/11/2016 Time: 12:00 AM  
 Region: Stafford County  
 Drilling Completed: 11/16/2016 Time: 1:15 PM  
 Surface Coordinates: 2205' FSL & 1055' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1814.00ft  
 K.B. Elevation: 1824.00ft To: 3548.00ft  
 Logged Interval: 3000.00ft  
 Total Depth: 3548.00ft  
 Formation:  
 Drilling Fluid Type: Chemical (MudCo)

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: 2205' FSL Latitude:  
 N/S Co-ord: 1055' FWL  
 E/W Co-ord:

**LOGGED BY**



Company: TerraTech Energy Service LLC.  
 Address: 1632 S. West St. Suite 12  
 Wichita, KS 67208  
 Phone Nbr: 316-617-3959  
 Logged By: Geologist Name: Bruce Reed

**CONTRACTOR**

Contractor: EC Services  
 Rig #: 6  
 Rig Type: mud rotary  
 Spud Date: 11/11/2016 Time: 12:00 AM  
 TD Date: 11/16/2016 Time: 1:15 PM  
 Rig Release: 11/17/2016 Time: 11:00 PM

**ELEVATIONS**

K.B. Elevation: 1824.00ft Ground Elevation: 1814.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

Surface Casing: 8-5/8" at 250'  
 Production Casing: 5-1/2" at 3548'  
 Daily Penetration:  
 11/11/16 SPUD @ 12:00 AM  
 11/12/16 255'  
 11/13/16 1280'  
 11/14/16 2170'  
 11/15/16 2990'  
 11/16/16 3475' RTD @ 1:15 PM  
 11/17/16 3548' Rig Released @ 11:00 PM

**DRILL STEM TESTS**

DST #1 3492'-3548' Arbuckle. Fair blow, BOB in 5 minutes during the first flow period. Fair blow, BOB in 5 minutes on the second flow period. Recovered: 100' GIP, 20' CGO 372' GMCO (20% G, 70% O, 10% M), 124' GWMCO (20% G, 40% O, 30%W, 10%M) IFP/15" 44-107 psi, ISIP/30" 837 psi, FFP/30" 121-186 psi, FSI/60" 749 psi

**GEOLOGICAL TOPS**

| Formation  | Log Tops | Datum | Sample Top | Datum Comparison* |
|------------|----------|-------|------------|-------------------|
| Howard     | 2693'    | -869  | 2687'      | -863              |
| Severy     | 2747'    | -923  | 2741'      | -917              |
| Topeka     | 2793'    | -969  | 2786'      | -962              |
| Heebner    | 3088"    | -1264 | 3084'      | -1260 -4          |
| Toronto    | 3106'    | -1282 | 3103'      | -1279             |
| Douglas    | 3121'    | -1297 | 3117'      | -1293             |
| Brown Lime | 3231'    | -1407 | 3226'      | -1402 -7          |
| Lansing    | 3253'    | -1429 | 3248'      | -1424 -4          |
| Base KC    | 3500"    | -1676 | 3496'      | -1672 -4          |
| Arbuckle   | 3548"    | -1724 | 3544'      | -1720 -8          |

\*Reference well: LaVeta Oil & Gas, #12 Allen, 1390' FSL / 390' FWL Section 31-22S-11W, Stafford County, Kansas

**ROCK TYPES**

Dolprim Lmst fw7> shale, gry Carbon Sh

**ACCESSORIES**

MINERAL  
 Chert White

**INTERVALS**  
 Core DST  
 Oil Show  
 Good Show  
 Fair Show  
 Poor Show  
 Spotted or Trace  
 Questionable Str  
 Dead Oil Str  
 Fluorescence  
 Gas

**OTHER SYMBOLS**

DST  
 DST Int  
 DST alt  
 Core  
 tail pipe

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