

Company: Charles N. Griffin  
 Address: PO Box 347  
 Pratt, KS 67124

Contact Geologist:  
 Contact Phone Nbr:

Well Name: #1 Springer  
 Location: Section 34-32S-12W  
 Pool:  
 State: Kansas

API: 15-007-24303  
 Field: Toni-Mike  
 County: USA

Scale 1:240 Imperial

Well Name: #1 Springer  
 Surface Location: Section 34-32S-12W  
 Bottom Location:  
 API: 15-007-24303

License Number:  
 Spud Date: 6/25/2016  
 Region: Barber County  
 Drilling Completed: 7/3/2016  
 Surface Coordinates:  
 Bottom Hole Coordinates: 1553.00ft  
 Ground Elevation: 1558.00ft  
 K.B. Elevation: 3400.00ft  
 Logged Interval: 4882.00ft To: 4882.00ft  
 Formation:  
 Drilling Fluid Type: Chemical (MudCo)

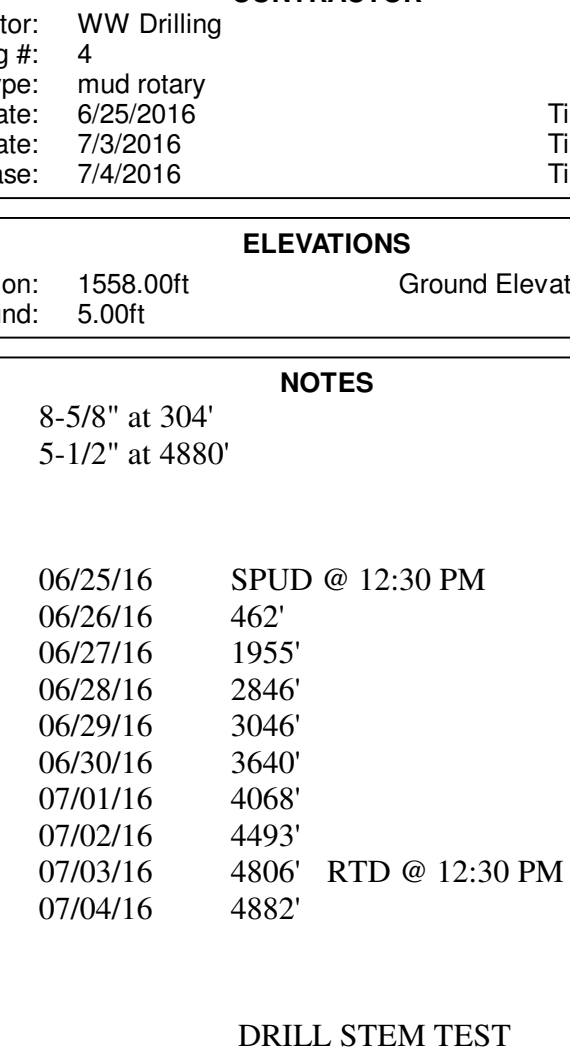
Time: 12:30 PM  
 Time: 12:30 PM

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 N/S Co-ord:  
 EW Co-ord:

Latitude:

**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: WW Drilling  
 Rig #: 4  
 Rig Type: mud rotary  
 Spud Date: 6/25/2016  
 TD Date: 7/3/2016  
 Rig Release: 7/4/2016

Time: 12:30 PM  
 Time: 12:30 PM  
 Time: 7:30 AM

**ELEVATIONS**

K.B. Elevation: 1558.00ft  
 K.B. to Ground: 5.00ft  
 Ground Elevation: 1553.00ft

**NOTES**

Surface Casing: 8-5/8" at 304'  
 Production Casing: 5-1/2" at 4880'

Daily Penetration:  
 06/25/16 SPUD @ 12:30 PM  
 06/26/16 462'  
 06/27/16 1955'  
 06/28/16 2846'  
 06/29/16 3046'  
 06/30/16 3640'  
 07/01/16 4068'  
 07/02/16 4493'  
 07/03/16 4806' RTD @ 12:30 PM  
 07/04/16 4882'

**DRILL STEM TEST**

DST #1 4774'-4806'. Simpson Sand. Strong blow, BOB in 15 seconds during the initial flow period, GTS in 10". BOB and GTS immediately during the second flow period, TSTM. Recovered: 2,801 GIP, 1,773 Clean Oil, 180' GOCM (20% Gas, 10% oil, 70% mud). IFP/30" 186-243#, ISIP/45" 1465#, FFP/30" 291-387#, FSP/60" 1465#

**FORMATION TOPS**

Formation	Log Top	Datum	Sample Top	Datum	Comparison*
Lecompton	3445'	-1887	3443'	-1885	-7
Elgin	3478'	-1920	3476'	-1918	-7
Hebner	3658'	-2100	3658'	-2100	-7
Lansing	3853'	-2295	3854'	-2296	-6
Stark	4230'	-2672	4231'	-2673	-4
Hush	4260'	-2702	4260'	-2702	-5
Base KC	4314'	-2756	4313'	-2755	-4
Mississippian	4402'	-2844	4402'	-2844	-7
Kinderhook	4600'	-3042	4597'	-3039	-9
Viola	4704'	-3146	4705'	-3147	-9
Simpson Sand	4797'	-3239	4795'	-3237	-4

\*Reference well: Charles N. Griffin, #1 Jazmyne, SE NE SW  
 Section 34-32S-12W, Barber County, Kansas

**ROCK TYPES**

Colprim  
 shale, gry  
 shale, gray  
 Carbon Sh  
 Ss

**ACCESSORIES**

MINERAL  
 • Sandy  
 • Chert/White  
 • Argillaceous/Shale

**INTERVALS**

Oil Show  
 Good Show  
 Fair Show  
 Poor Show  
 Spotted or Trace  
 Questionable Sm  
 Dead Oil Sm  
 Fluorescence  
 Gas

**OTHER SYMBOLS**

DST Int  
 DST all  
 Core  
 Tail pipe

