

Company: La Veta Oil and Gas
 Address:

OPERATOR

Contact Geologist:
 Contact Phone Nbr:
 Well Name: #3 Jan
 Location: Section 13-22S-12W
 Pool:
 State: Kansas

API: 15-185-23998
 Field: Heyen
 Country: USA

Scale 1:240 Imperial

Well Name: #3 Jan
 Surface Location: Section 13-22S-12W
 Bottom Location:
 License Number: 15-185-23998
 Spud Date: 10/12/2017 Time: 7:45 PM
 Region:
 Drilling Completed: 10/18/2017 Time: 9:30 PM
 Surface Coordinates: 2625' FNL & 2240' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1842.00ft
 K.B. Elevation: 1851.00ft
 Logged Interval: 3100.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation:
 Drilling Fluid Type: Chemical (MudCo)

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 N/S Co-ord: 2625' FNL
 E/W Co-ord: 2240' FWL
 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: Southwind Drilling
 Rig #: 9
 Rig Type: mud rotary
 Spud Date: 10/12/2017 Time: 7:45 PM
 TD Date: 10/18/2017 Time: 9:30 PM
 Rig Release: 10/19/2017 Time: 2:30 PM

ELEVATIONS

K.B. Elevation: 1851.00ft Ground Elevation: 1842.00ft
 K.B. to Ground: 9.00ft

NOTES

Surface Casing: 8-5/8" at 270'
 Production Casing: 5-1/2" at 3746'

Daily Penetration:
 10/12/17 SPUD @ 7:45 PM
 10/13/17 270'
 10/14/17 1071'
 10/15/17 2235'
 10/16/17 3086'
 10/17/17 3540'
 10/18/17 3656' RTD @ 9:30 PM
 10/19/17 3750' Completed @ 2:30 PM

DRILL STEM TESTS

DST #1 3624'-3656' Arbuckle. Strong blow on both initial and second flow period.
 Recovered: 1827' GIP, 534' Clean Gassy Oil (20% gas, 80% oil).
 IFP/15" 49-107 psi, ISIP/30" 1115 psi, FFP/30" 118-213 psi, FSIP/60" 1139 psi

DST #2 3675'-3684' Arbuckle. Strong blow on both initial and second flow period.
 Recovered: 744' GIP, 90' Clean Gassy Oil, 62' GMCOW (40 % gas, 12% oil, 38% W, 15% M),
 186' GMCOW (10% gas, 5% oil, 77% W, 8% M), 248' Water
 IFP/15" 48-68 psi, ISIP/30" 1216 psi, FFP/30" 156-271 psi, FSIP/60" 952 psi

GEOLOGICAL TOPS

Formation	Sample Top	Datum	Log	Datum	Comparison*
Heebner	3144'	-1293	3141'	-1290	-3
Toronto	3165'	-1314	3161'	-1310	-5
Douglas	3176'	-1325	3173'	-1322	-3
Brown Lime	3276'	-1425	3270'	-1419	-2
Lansing	3298'	-1447	3294'	-1443	-3
B/KC	3523'	-1672	3520'	-1669	-2
Viola	3562'	-1711	3558'	-1707	-1
Simpson	3598'	-1947	3595'	-1744	-7
Arbuckle	3646'	-1795	3644'	-1793	-5

*Reference well: LaVeta Oil & Gas, #1 Jan, 1870' FNL / 1560' FWL
 Sec 13-22S-12W, Stafford County, Kansas

ROCK TYPES

Legend for rock types and symbols:

- Cht: Chert
- Dolprim: Dolomite
- Lmst fw7> shale, gry: Limestone
- Carbon Sh: Carbon Shale
- Ss: Sandstone

OTHER SYMBOLS

Legend for well symbols:

- Oil Show: Good Show, Fair Show, Poor Show, Spotted or Trace, Questionable Str, Dead Oil Str, Fluorescence, Gas
- DST: DST Int, DST alt, Core, tail pipe

