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ENERGY SERVICE, LLC

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: 2/9/2016
TD Date: 2/15/2016
Rig Release: 2/16/2016

Time: 3:45 PM
Time: 11:45 PM
Time: 12:00 PM

ELEVATIONS

K.B. Elevation: 1867.00ft
K.B. to Ground: 5.00ft

Ground Elevation: 1862.00ft

NOTES

Surface Casing: 8-5/8" at 268'
Production Casing: 5-1/2" at 3951'

Daily Penetration:

02/09/16	SPUD @ 3:45 PM
02/10/16	403'
02/11/16	1952'
02/12/16	2904'
02/13/16	3554'
02/14/16	3726'
02/15/16	3866' RTD @ 11:45 PM
02/16/16	4040'

Company: Charles N. Griffin
Address: Po Box 347
Pratt, KS 67124-0347

Contact Geologist:
Contact Phone Nbr:
Well Name: #1 VE
Location: Section 21-23S-12W
Pool: Kansas
State: Kansas
API: 15-185-23956
Field: Bedford Ext.
Country: USA

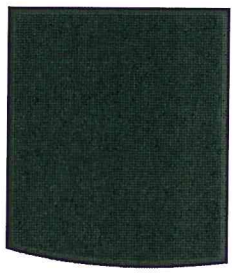
Scale 1:240 Imperial

Well Name: #1 VE
Surface Location: Section 21-23S-12W
Bottom Location:
API: 15-185-23956
License Number:
Spud Date: 2/9/2016
Region: Stafford County
Drilling Completed: 2/15/2016
Surface Coordinates: 1650' FNL & 330' FWL
Bottom Hole Coordinates:
Ground Elevation: 1862.00ft
K.B. Elevation: 1867.00ft
Logged Interval: 3200.00ft
Total Depth: 4040.00ft
Formation:
Drilling Fluid Type: Chemical (MudCo)
Time: 3:45 PM
Time: 11:45 PM
To: 4040.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 1650' FNL
N/S Co-ord: 330' FWL
E/W Co-ord:
Latitude:

LOGGED BY



DRILL STEM TESTS

DST #1 3574' to 3618' Lansing/KC "J" and "K". Weak blow throughout both flow periods.
 Recovered: 135' Very Slightly Oil Specked and Slightly Water Cut Mud (<1% oil, 3% water)
 IFF: 30" 13-49 psi, ISIP: 30" 1032 psi, FFP: 30" 52-73 psi, FSIP: 30" 994 psi

DST #2 3830' to 3866' Simpson Sand, Strong blow, bottom of bucket in 1" of each flow.
 Recovered: 300' SMCW (85% water, 15% mud), 2300' water
 IFF: 30" 207-951 psi, ISIP: 45" 1212 psi, FFP: 30" 955-1169 psi, FSIP: 60" 1218 psi

FORMATION TOPS

Formation	Sample Top	Datum	Log Top	Datum	Comparison*
Heebner	3241'	-1374	3242'	-1375	
Toronto	3261'	-1394	3260'	-1393	
Douglas	3276'	-1409	3278'	-1411	
Brown Lime	3381'	-1514	3382'	-1515	+6
Lansing	3411'	-1544	3412'	-1545	
Base KC	3674'	-1807	3671'	-1804	
Conglomerate	3724'	-1857	3724'	-1857	-12
Viola	3753'	-1886	3753'	-1886	-24
Simpson Shale	3821'	-1954	3819'	-1952	-15
Simpson Sand	3844'	-1977	3844'	-1977	+2
Arbuckle	3885'	-2018	3885'	-2018	-16

*Reference well: Mull Drilling Company, #1 McGill, C NW NE, Section 21-23S-12W
 Stafford County, Kansas