Company: Address:	Dixon Operati 8100 E 22nd \$ #300	n Company, LLC St N			
Contact Geologist:	Wichita, KS 6	7226			
Well Name: Location:	#18 Thomas F Section 29-32	⁻ orsyth S-12W	API:	15-007-24343	
State:	Kansas		Field: Country:	Medicine Lodge North USA	
Wall Name:	Sca #18 Thomas I	ale 1:240 Imperial			
Surface Location: Bottom Location:	#18 Thomas F Section 29-32	S-12W			
API: License Number: Spud Date:	15-007-24343 1/5/2019		Time [.]	3:00 PM	
Drilling Completed:	Barber County 1/16/2019		Time:	3:30 AM	
Bottom Hole Coordinates: Ground Elevation:	1603.00ft	DOU FEL			
K.B. Elevation: Logged Interval: Total Depth:	1613.00ft 3400.00ft 4820.00ft		To:	4820.00ft	
Formation: Drilling Fluid Type:	Chemical (Mu	dCo)			
Well Type:	SURFA	CE CO-ORDINATE	S		
Longitude: N/S Co-ord:	4950' FSL		Latitude:		
	OOU FEL	LOGGED BY			
		потс	101		
	IFK	KHIF	HI		
Company:	TerraTech Ene	ergy Service LLC.	, U		
Address.	Wichita, KS 6	7208			
Phone Nbr: Logged By:	316-617-3959 Geologist		Name:	Bruce Reed	
Contractor:	(WW Drilling	CONTRACTOR			
Rig #: Rig Type: Spud Date:	24 mud rotary 1/5/2019		Time:	3:00 PM	
TD Date: Rig Release:	1/16/2019 1/17/2019		Time: Time:	3:30 AM 10:00 PM	
K.B. Elevation:	1613.00ft	ELEVATIONS Groun	d Elevation:	1603.00ft	
K.B. to Ground:	10.00ft	NOTES			
Surface Casing: 8 Production Casing: 5	-5/8" at 308' -1/2" at 4802'	NOTES			
Daily Penetration: 01/05/19 01/06/19	Spud @ 310'	3:00 PM			
01/07/19 01/08/19	1023' 1023' H	Rotary table repairs	8		
01/09/19 01/10/19	1425' 2084' 25521 - 4	Ne 1-			
01/11/19 01/12/19 01/13/19	2352 2900' 3581'	Stuck			
01/14/19 01/15/19	4130' 4530'				
01/16/19 01/17/19	4820' H 4820' H	RTD @ 3:30 AM Rig released @ 10:	00 PM		
	ΤΙΛΝ ΤΟΡΟ				
FORMA Formation Sample 7	Cop Datum	Log Top	Datum	Comparison*	
Heebner 3673'	-2060	3675'	-2062	+9	
Lansing 3872' Stark 4246'	-2259 -2633	3883' 4248'	-2270 -2635	-3 +2	
MISSISSIPPIAN4412'Kinderhook4590'Woodford4652'	-2799 -2977 2020	4412' 4592' 4657'	-2799 -2979 -3044	+5 +2 +3	
Viola 4632 Viola 4688' Simpson 4799'	-3075 -3186	4692' NL	-3079 NL	+4	
Simpson Sand 4812'	-3199	NL	NL		
*Graves Drilling Co., #10 Thon	nas Forsyth, Se	ection 29-32S-12W	V, Barber Cou	ınty, Kansas	
		ROCK TYPES			
Cht Lmst	t fw7> 200 e, gry 100	Carbon Sh			
MINERAL	ŀ	ACCESSORIES			
✓ Dolomitic • Sandy △ Chert White					
Argillaceous/Shale		HEB CAMPOLO			
INTERVALS Oil Show	DST	t			
DST DST Fair Show O Poor Show O Spotted or Trace	DST al DST al Core	t e			
O Questionable Stn D Dead Oil Stn ■ Fluorescence					

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

TG, C1 - C5

Curve Track #1

OPERATOR



3860	friability, no shows	
	Limestone: brown-tan, fine crystalline, dense	
	Lansing 3072 (-2233)	
3880	dense, sub chalky, no shows	
	Limestone: more cream-white-light tan-some brown, fine crystalline, fossiliferous, sub chalky	
3900	porosity, dense, sub chalky, no shows	
	Limestone: more cream-light tan, fine crystalline, poor to no visible	
3920	Limestone: cream-white-light tan, fine crystalline to fossiliferous, dense	
\mathbf{x}	Limestone: cream-white, fine crystalline, very chalky, no shows	
3940	Limestone: cream-white, fine crystalline to fossiliteorus, poor visible porosity, chalky, no shows	
2	Limestone: cream-white-light tan, mostly fossiliferous, with poor visible	
5	porosity, chaiky, no snows	
3960	Limestone: as above, no significant change	
	Limestone: cream-white-light tan-light gray, fine crystalline, poor visible	
2	porosity, dense	
3980	Limestone: as above	
	Limestone: cream-light tan, fine to micro-crystalline, no visible porosity.	
	dense	
	Limestone: as above, slight increase in chalky material	
0 ROP (min/ft) 10 4000 0 Gamma (API) 150	Limpetone: groom light top, fine en stalling, source is "	0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100
	Linestone. Gean-light (an, line crystalline, poor visible porosity	0 C3 (units) 100 0 C4 (units) 100
	Limestone: as above with increase in sub chalky materials	
4020		
	Limestone: cream-light tan-brown, fine crystalline, no visible porosity, dense	
	Limestone: cream-white-light tan-light gray, fine crystalline to slightly	
4040	iossiliferous, sud chalky, no shows	
	Limestone: as above, washes white	
	Limestone: cream-white-light tan, fine crystalline, dense	
4060		
	Limestone: cream-light tan, fine crystalline, poor visible porosity, dense	
	Limestane: execut white light gray, sub shallor	
4080	Linestone. cream-writte-light gray, sub chaiky	
- E	Limestone: more gray, fine crystalline, dense	
$\boldsymbol{\zeta}$	1 ····································	
4100	Limestone: gray-cream, fine crystalline, poor visible porosity	
\mathbf{z}	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley,	
	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows	
4120	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white	
4120	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone	
	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone	Depth 4134'
4120	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0
4120 4120 4140	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
4120 4120 4140	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
4120 4120 4140 4140	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above Limestone: as above, sub chalky, mostly dense pieces	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
4120 4120 4140 4140 4160	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above Limestone: as above, sub chalky, mostly dense pieces Limestone: cream-light tan, fine crystalline, poor to no visible porosity,	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
4120 4120 4140 4140 4160	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above Limestone: as above, sub chalky, mostly dense pieces Limestone: cream-light tan, fine crystalline, poor to no visible porosity, rare piece chalky, no shows	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above Limestone: as above, sub chalky, mostly dense pieces Limestone: cream-light tan, fine crystalline, poor to no visible porosity, rare piece chalky, no shows Limestone: as above, poor to no visible porosity, dense	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
	Limestone: cream-light gray, fossiliferous, few pieces chert, sub shaley, no shows Limestone: chalky white, samples wash white Limestone: as above, few pieces dense, gray limestone Limestone: cream-white-light tan, fine crystalline, poor to no visible porosity, sub chalky Limestone: cream-white-light tan, fine crystalline, more chalky than above Limestone: as above, sub chalky, mostly dense pieces Limestone: as above, sub chalky, mostly dense pieces Limestone: cream-light tan, fine crystalline, poor to no visible porosity, rare piece chalky, no shows Limestone: as above, poor to no visible porosity, dense	Depth 4134' Mud Weight 9.4 Funnel Viscosity 57 API Filltrate 9.0 Chloride 4,500
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