	Company: Address:	Dixon Operatin 8100 E. 22nd S Wichita, KS 67	ig Company, LLC St. N, Bld 300, St 226	; e 200	
Contac Contact	t Geologist: Phone Nbr: Well Name: Location: Pool: State:	VE #1-34 Section 34-235 Kansas	S-12W	API: Field: Country:	15-185-23959 Wildcat USA
	Woll Nama:	Scal	le 1:240 Imperial		
Surfa Botto	m Location:	Section 34-235	S-12W		
Licen	se Number: Spud Date:	5/20/2016		Time:	12:30 PM
Drilling Surface (Rettom Hole (Completed: Coordinates:	6/4/2016 620' FNL & 180	y DO' FWL	Time:	10:00 PM
Groun K.E	d Elevation: B. Elevation:	1862.00ft 1867.00ft		To	2050 00#
Drilling	Total Depth: Formation:	3950.00ft		10.	3930.001
Dhining	Fiuld Type.	SURFAG	CE CO-ORDINA	TES	
	Well Type: Longitude: N/S Co-ord:	Vertical 620' FNL		Latitude:	
E	E/W Co-ord:	1800' FWL	OGGED BY		
		ENERGY		E, LLG	
	Company: Address:	TerraTech Ener 1632 S. West S Wichita KS 67	rgy Service LLC. St. Suite 12		
	Phone Nbr: Logged By:	316-617-3959 Geologist	200	Name:	Bruce Reed
F	Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	C Murfin Drilling 16 mud rotary 5/20/2016 6/4/2016 6/5/2016	ONTRACTOR	Time: Time: Time:	12:30 PM 10:00 PM 7:00 PM
K.E K.B	8. Elevation: . to Ground:	E 1867.00ft 5.00ft	ELEVATIONS Grou	Ind Elevation:	1862.00ft
Surface Casing: Production Casing:	8- N	-5/8" at 254' one	NOTES		
Daily Penetration:	05/20/16 05/21/16 05/31/16 06/01/16 06/02/16 06/03/16 06/04/16 06/05/16	SPUD @ 262' 1620' 2705' 3535' 3785' 3859' R 3950' R	12:30 PM TD @ 10:00 PN ig released @ 7:	И 00 РМ	
		D	RILL STEM TI	ESTS	
DST #1 3729' to 3 Weak, one-half (1/2 IFP: 30" 35-48 psi	785' Viola. 2") inch blow ISIP: 30" 18	Weak, one (1") throughout the 1 psi FFP: 30') inch blow thro e second flow pe ' 49-54 psi FSU	ughout the initeriod. Recove P· 30" 91 psi	tial flow period. ered: 40' OSM
DST #2 3785' to 3 flow period. Weak Recovered: 20' GII IFP: 30" 46-77 psi.	855' Arbuck blow that bu 2, 40' Clean C ISIP: 60" 13	tle. Fair blow the fair blow t	hat built to eleve) inches during M (30% oil, 70)" 83-127 psi, F	en (11") inches the second flo % mud). SIP: 90" 1349	s during the initial w period.
DST #3 3855' to 3 initial flow period. flow period. Recov IFP: 30" 23-52 psi,	859' Arbuck Fair blow th vered: 50' Cl ISIP: 60" 13	tle. Fair blow that built to sever ean Oil and 120 353 psi, FFP: 60	hat built to seve and one half (7)' SOCMW (5%)" 53-90 psi, FS	n (7") inches c 7-1/2") inches o oil, 90% wate IP: 90" 1340 p	luring the during the second er, 5% mud). osi
		F	ORMATION T	OPS	
Formation	Sample T	op Datum	Log Top	Datum	Comparison*
Heebner Toronto	3241' 3256'	-1374 -1389	3244' 3260'	-1377 -1393	+1 NA
Douglas Brown Lime Lansing	3274' 3390' 3418'	-1407 -1523 -1551	3275' 3388' 3414'	-1408 -1521 -1547	NA NA ±1
Base KC Viola	3684' 3732'	-1817 -1865	3678' 3730'	-1811 -1863	+7 +19
Simpson Arbuckle	3785' 3852' 2050'	-1918 -1985	3784' 3848'	-1917 -1981	NA +16
Total Darth		_ /LIX 4	NY4D	- /U /Y	INA



0 ROP (min/ft) 10 3200 0 Gramma (API) 150		Shaley limestone	0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100
<u>}</u>		Limestone: tan-white, fine crystalline, to slightly medium crystalline, poor visible porosity, dense	r 0 <u>C3 (units)</u> 100 0 <u>C3 (units)</u> 100 0 <u>C4 (units)</u> 100
			Geologist on
		Limestone: tan, fine crystalline, dense	
2		Limestone: as above	
		Heepner 3241' (-1374)	
3240		Shale: black, carbonaceous, fissile	
		Some dense, tan, limestone	
		Toronto <u>3256' (-1389)</u>	
3260		Limestone: cream, fine crystalline, scattered fair vugular porosity,	
		chalky, no shows $327/1'$ (-1/107)	
		Shale: grav-black-red-brown brittle	
		Shale: gray-green-red (samples carry lots of limestone, wash dirty)	
		Obdesses	
		Shale. gray-green-reu	
		Shale: gray-green-red	
		Shale: grav-green	
3320			
		Shale: gray-green, silty	
3240		Shale: as above	
3340			
		Shale: as above	
		Shale: as above	
		Mara aith	
		INDRE SILLY	
3380		Shale: gray, into silty	
		Brown Lime 2200' (1502)	
		Limestone: tan-brown, very fine crystalline, dense	
0 ROP (min/ft) 10 3400		Shale: gray-green, soft	0 Total Gas (units) 100
0 Gamma (API) 150		Chalas areas ant	0 C1 (units) 100 0 C2 (units) 100 0 C3 (units) 100
		Shale. gray-green, son	0 C4 (unit s) 100
3420		Lansing 3418 (-1551) Limestone: dark gray, fine crystalline, poor to no visible porosity, dense	
		Limestone: cream tan, fine crustallline, dense, trace chalky, no shows	
3440		Limestone: cream-light tan, fine to micro-crystalline, dense, no shows	
		Limestone: as above	
		Limestone: cream-light gray, fine crystalline, poor visible porosity	
3460		dense, trace chalky, no shows	
	O	Limestone: cream-light tan-gray, fine crystalline to slightly fossiliferous, trace chalky, odor in fresh sample with very slight show free oil (3	
		pieces)	
3480		Limestone: as above, no show, shaley	
	0	Limestone: cream-tan-gray, fine crystalline, some pieces fosisliferous, poor visible porosity, odor in fresh, no show free oil	
		Limestone: as above	
		Limestone: cream-white-tan, fine crystalline, rare oolitic piece, poor visible porosity, sub chalky, no shows	
2500		Limestone: more tan. dense	
			Depth 3537'
E		Limestone: cream-white-tan, fine crystalline, very rare, oolicastic piece, sub chalky, trace gray chert, no shows	Funnel Viscosity 52 API Filltrate 10.4
3540		Limestone: as above	
		Limestone: cream-light tan, fine crystalline, rare scattered oolitic piece, sub chalky, no shows	
3560		Limestone: dense with some shale	
		Limestere: cream tan grou fine crustelline, rare fessilifereus nices	
		trace dead oil, no odor	
3580		Shaley, limestone	
S		Limestone: cream, chalky	
		Circulated at 3600' Limestone: gray-cream-white, fine crystalline, poor	
0 ROP (min/ft) 10 3600 0 Gamma (API) 150	O	visible porosity, chalky, very faint odor in fresh, no show free oil	0 Total Gas (units) 100 0 Ct (units) 100
		Shale: gray-black	0 C2 (units) 100 0 C3 (units) 100 0 C4 (units) 100
3620		Limestone: cream-white, fine crystalline, dense, chalky	
		Limestone: cream-tan-white, fine crystalline, very slightly fossiliferous, poor to no visible porosity, dense	
		Limestone: as above	
3640		בייוויטועווס. מא משטעפ	
		Shale: gray-black	
3660		Limestone: cream-tan, dense	
		Lirnestone: cream-tan-gray, fine crystalline, sub shaley	
3680		Limestone: gray, dense	
		D/NU 3084 (-181/) Shala: gray graap black and burnet	
		Snale. yray-yreen-Diack-re0-Drown	

	-						_			
			Limestone: arey ten dens	•						
	_		Limestone: gray-tan, dens	e			_			
	- 3700		Ob also de de succes							
	F		Shale: dark gray							
							_		+ +	
			Limestone: cream-tan, fine	e crystalline, dense, sub	chalky, samples					
	-	═└╌┼═╶┼╴═┤│	carry lots of shale, varicol	ored, samples wash slig	htly red		_		+	
			-		-					
	+		Limestone: cream-gray fi	no crystallino, donso, so	me organic vitreous		_			
	3720		chert lots of shales	ie crystalline, dense, so	ine organic, vitreous					
	+						_			
	_		Viola	3732'	(-1865)					
	+		<u>- Tolu</u>	UTUL	(1000)				+ +	
	F		Chert: light amber-white-c	lear, translucent to semi	i-translucent, very					
	+		sharp and blocky, fair visil	ole porosity, samples wa	ash red and shaley, no		_		+ +	
	3/40		shows or odor							
	+						_		+ +	
			Chert: white-off white-light	gray, predominatley viti	reous with 5%					
	_		weathered, fresh sample g	good odor with show free	e oil		_			
	+		Chert: as above				_			
	2760		Circulated at 3766' Chert:	90% vitroous off white	white some vellow					
	-3/60		onaque sharp and blocky	10% granular dolomitic	chert bleeds oil					
	<u>+</u>		good strong odor in fresh	, rovo granalar dolornale					+ +	
	-									
	+		Circulated at 3785' Chert:	white-off white-tan, vitre	eous, opaque, sharp				+ +	
	Ŧ		and blocky, some light tan	weathered (tripolitic) pie	ece, trace vugular					
	t		porosity, good strong odor	with light lillin oil, trace	yas nunnie	\vdash				
	3780									
	+		Simpson	3785'	(-1918)		_	\vdash	+	
	-		<u></u>							
	+		Shale: pale green-turquois	e-blue, sticky		Donth			<u>ر</u>	785'
	1					-Mud V	Veiah	t	3	.4
	_					Funne	el Viso	cosity	, 7	. . 2
	+					API Fi	Iltrate))	9	.8
	3800		Shale: as above with few i	nterbedded sandstone o	clusters, sub rounded	Chlori	ide		6	,000
0 Rop (min/ft) 1	0		to sub angular, clear to m		v5			Gas (Units	s) 10
	_					0	c	2 (uni	ts)	10
	-					0		3 (uni	ts)	10
	2					0	C	4 (uni	ts)	10
	_						_			
	3820		Shale: pale green-turquois	e-blue-gray-red						
	+								+ +	
	F									
	-		Shale: as above, some pa	le green, sandstone clus	sters, sample carries		_		+ +	
			Slight odor							
	_		Circulated at 3842' Lots of	shale, slight odor			_			
	_									
	-									
2	3840		Circulated at 3847' Shale:	Simpson type with very	tite sandstone,					
	3840		Circulated at 3847' Shale: sample carries odor	Simpson type with very	tite sandstone,					
	3840		Circulated at 3847' Shale: sample carries odor	Simpson type with very	tite sandstone,	Depth	loight		38	359'
	3840		Circulated at 3847' Shale: sample carries odor	Simpson type with very	tite sandstone,	Depth Mud W	/eight		38	359' 2
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle	Simpson type with very 3852'	tite sandstone, (-1985)	Depth Mud W Funne API Fil	/eight I Visc Itrate	osity	38 9. 54	359' 2 1 5.2
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat	Simpson type with very 3852' nple: lots of shale with c	tite sandstone, (-1985) good strong odor 60"	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 1 5.2 2,000
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, mer	Simpson type with very 3852' mple: lots of shale with g Jium crystalline with sca	tite sandstone, (-1985) good strong odor 60" attered vugular	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840 		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, mer porosity, good strong odor uniform medium brown st	Simpson type with very 3852' mple: lots of shale with g tium crystalline with sca in fresh with fair show t ain	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840 - - - - - - - - - - - - - - - - - - -		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, met porosity, good strong odor uniform medium brown sta	Simpson type with very 3852' mple: lots of shale with g dium crystalline with sca in fresh with fair show t ain	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840 3860		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, met porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat	Simpson type with very 3852' mple: lots of shale with g dium crystalline with sca in fresh with fair show t ain mple Dolomite: cream-t	tite sandstone, (-1985) good strong odor 60" an medium	Depth Mud W Funne API Fil Chlori	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840 		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, met porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, yugular porosit	Simpson type with very 3852' mple: lots of shale with g dium crystalline with sca in fresh with fair show t ain mple Dolomite: cream-ta y, shaley, sample carrie	tite sandstone, (-1985) good strong odor 60" titered vugular free oil, scattered an, medium s odor	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat	Simpson type with very 3852' mple: lots of shale with gas dium crystalline with sca in fresh with fair show the ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	38 9. 54 16 12	359' 2 4 5.2 2,000
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro	Simpson type with very 3852' mple: lots of shale with gas dium crystalline with sca in fresh with fair show the ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalling odor in fresh with fair	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	3889.54	359' 2 4 5.2 2,000
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stroto oil, some spotted to unifor	Simpson type with very 3852' mple: lots of shale with gas tium crystalline with sca in fresh with fair show the in fresh with fair show the mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de	osity	3889.54	359' 2 4 5.2 2,000
	3840 3860 3880		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good strot oil, some spotted to unifor	Simpson type with very 3852' nple: lots of shale with ga dium crystalline with sca in fresh with fair show the ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de		38 9. 54 16 12	359' 2 4 5.2 2,000
	3840 3860 3880		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro oil, some spotted to unifor Dolomite: cream, medium	Simpson type with very 3852' nple: lots of shale with g dium crystalline with sca in fresh with fair show t ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fai	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de			359' 2 4 5.2 2,000
	3840 3860 3860 3880		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight sta	Simpson type with very 3852' nple: lots of shale with g dium crystalline with sca in fresh with fair show t ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fair now free oil	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de			359' 2 4 5.2 2,000
	3840		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, met porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight sta	Simpson type with very 3852' mple: lots of shale with ga in resh with fair show the in fresh with fair show the model of the show the show the model of the model of the show the model of the	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de		389.54	359' 2 4 5.2 2,000
	3840 3860 3880		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight sta	Simpson type with very 3852' mple: lots of shale with ga in fresh with fair show fain mple Dolomite: cream-ta wy, shaley, sample carrie am-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fair how free oil	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de			359' 2 4 5.2 2,000
	3840 3860 3880 3880		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, med porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stro oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight st	Simpson type with very 3852' mple: lots of shale with ga in fresh with fair show the in fresh with fair show the model of the shale with fair mple Dolomite: cream-ta y, shaley, sample carrie am-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fair how free oil	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlorid	/eight I Visc Itrate de			
	3840 3860 3880 3880 33800		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, mer porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sa crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good stron oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight sl	Simpson type with very 3852' mple: lots of shale with g dium crystalline with sca in fresh with fair show the ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fair now free oil to coarse crystalline, so	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlori	/eight I Visc Itrate de			
	3840 3860 3880 3880 33900		Circulated at 3847' Shale: sample carries odor Arbuckle Circulated at 3855 30" sat sample Dolomite: tan, mer porosity, good strong odor uniform medium brown sta Circulated at 3859' 30" sat crystalline, vugular porosit 60" sample Dolomite: creat vugular porosity, good strong oil, some spotted to unifor Dolomite: cream, medium good strong odor, slight sta Dolomite: cream, medium porosity, sample carries o	Simpson type with very 3852' mple: lots of shale with g dium crystalline with sca in fresh with fair show the ain mple Dolomite: cream-ta y, shaley, sample carrie um-tan, medium crystalli ong odor in fresh with fair m brown stain to coarse crystalline, fair now free oil to coarse crystalline, soc dor, rainbow show free of	tite sandstone, (-1985) good strong odor 60" attered vugular free oil, scattered an, medium s odor ne, fair to good ir to good show free ir visible porosity,	Depth Mud W Funne API Fil Chlori	/eight I Visc Itrate de			
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