(	Company: Address:	Charles N. Gr PO Box 347 Pratt KS 671	OPERATOR iffin 24-0347			
Contact Contact Pl	Geologist: none Nbr:		24-0047			
VV	ell Name: Location: Pool: State:	#3 Springer Section 34-32 Kansas	2S-12W	API: Field: Country:	15-007-24308 Toni-Mike LISA	
		Sca	ale 1:240 Imperial			
Wi Surface Bottom	ell Name: Location: Location:	#3 Springer Section 34-32	S-12W			
License Sj	Number: oud Date: Region:	10/25/2016 Barber County	, V	Time:	4:15 PM	
Drilling Co Surface Coo Bottom Hole Coo	ompleted: ordinates: ordinates:	10/30/2016 379' FSL & 22	, 217' FEL	Time:	3:00 AM	
Ground E K.B. E Logge	Elevation: Elevation: Interval:	1566.00ft 1571.00ft 3400.00ft		To:	4930.00ft	
F Drilling Fl	ormation: uid Type:	Chemical (Mu	idCo)			
Y	Vell Type:	SURF# Vertical	ACE CO-ORDINAT	ES		
N/: E/V	S Co-ord: V Co-ord:	379' FSL 2217' FEL		Lanuue.		
		TER	RAT	ECH		
C	Company:	ENERG	<b>SERVICE</b>	E, LLC		
	Address:	1632 S. West Wichita, KS 6	St. Suite 12 7208			
	ogged By:	Geologist		Name:	Bruce Reed	
C	ontractor: Rig #: Rig Type:	WW Drilling 8 mud rotary				
S <sub>l</sub> Rig	oud Date: TD Date: Release:	10/25/2016 10/30/2016 10/31/2016		Time: Time: Time:	4:15 PM 3:00 AM 3:15 AM	
K.B. E K.B. to	Elevation: Ground:	1571.00ft 5.00ft	ELEVATIONS Grou	Ind Elevation:	1566.00ft	
Surface Casing: Production Casing:	8	-5/8" at 254'	NOTES			
Daily Penetration:	1	0/25/16 S	SPUD @ 4:15 PN	И		
	1 1 1 1 1	0/26/16 2 0/27/16 2 0/28/16 3 0/29/16 4 0/30/16 4 0/31/16 4	254' 2297' 3895' 4818' 4930' RTD @ 3 4930' Rig Releas DRILL STEM T	:00 AM sed @ 3:15 AN EST	М	
DST #1 4790'-4818'. first flow period. Fair Recovered: 70' SOW	Simpson r blow, bu 7CM (5%)	Sand. Fair blov ilt to BOB in 2 oil, 5% water,	w, built to BOB i 2 minutes during 90% mud).	n 20 minutes c the second flo	luring the ow period.	
IFP/30" 22-37#, ISIP	/45" 524#	, IFP/30" 37-5	2#, FSIP/60" 620	)#		
Formation	Log Top	Datum	FORMATION T	OPS	Comparison*	
Lecompton	3464'	-1893	3465' 3407'	-1894	-6	
Eigin Heebner Lansing	3680' 3863'	-1926 -2109 -2292	3497 3682' 3863'	-1926 -2111 -2292	-6 -9 +3	
Stark Base KC Mississippian	4250' 4331' 4419'	-2679 -2760 -2848	4249' 4331' 4416'	-2678 -2760 -2845	-7 -4 -4	
Kinderhook Viola	4613' 4718'	-3042 -3147	4608' 4713'	-3037 -3142	flat -1	
TOTAL DEPTH:	4814	-3243 -3364	4811 4930'	-3240 -3359	-4	
Reference well: Char	les N. Gri	ffin, #1 Spring	er, 990' FSL / 2,3	310' FWL, Sec	tion 34-32S-12W E	Barber County
TOTAL DEPTH: Reference well: Char Kansas The second bench of the	4935' 'les N. Gri e Simpson S	-3364 ffin, #1 Spring Sand in the Texa	4930' er, 990' FSL / 2,3 aco offset well was	-3359 310' FWL, Sec recorded at 482	tion 34-32S-12W E 22' to 4831' (-3266 to -3	arber Cou
TOTAL DEPTH: Reference well: Char	4935' les N. Gri	-3243 -3364 ffin, #1 Spring	4930' er, 990' FSL / 2,3	-3240 -3359 310' FWL, Sec	-4 tion 34-32S-12W E	arber Cour
TOTAL DEPTH: Reference well: Char	4935' les N. Gri	-3364 ffin, #1 Spring	4930' er, 990' FSL / 2,3	-3359 310' FWL, Sec	tion 34-32S-12W E	Barber Count
Kansas	. 0'	, π1 oping	a, 770 FOL / 2,3	.10 1 WL, SEC	1001 - 520 - 12 W E	
The possible producing	simpson sand in the	Sand in the Texa #3 Springer we	aco orrset well was ell was logged at 48	330' to 4836' (-3	22 to 4831 (-3266 to -3 259 to -3265).	213)
스스스 Cht	shal	e, gry <mark>: · : · : · : · : · : · : · : · : · : </mark>	ROCK TYPES Ss			
INERAL Dolomitic Sandy Chert White		Jun 311	ACCESSORIES			
Argillaceous/Shale			THER SYMBOLS			
TERVALS Oil St Core © Goo DST © Fair	<b>low</b> d Show Show	DST Ir ■ DST Ir ■ DST a	<b> ~</b>			
● Poo ● Spo ○ Que D Dea	r Show tted or Trace stionable Stn d Oil Stn	Core Core	e			
■ Fluc ★ Gas	prescence			Printed by GEO	strip VC Striplog version 4 (	).7.0 (www.arei oo
Curve Track #1 OP (min/ft) namma (API)					TG Total Gas (ur C1 (units)	its)
Iter					C2 (units)	

