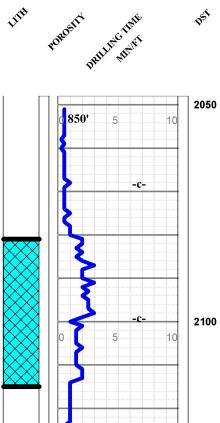
INDEPE		R L. MART EUM GEOLOGIST					
		IST'S REP me and sample i					
COMPANY VESS OIL COR	COMPANY VESS OIL CORPORATION						
LEASE <u>ED OSWALD 'B' #1</u>	1		KB <u>1849'</u> GL <u>1844'</u>				
FAIDDODT							
FIELD			Measurements Are All From <u>KB</u>				
LOCATION <sup>1980'</sup> FSL & 660'	FWL						
SECTION <sup>8</sup> TOWNSHI COUNTY <sup>RUSSELL</sup>	P <u>12S</u> R STATE	ANGE <u>15W</u> KANSAS	API # <u>15-167-24096</u>				
CONTRACTOR MURFIN	RIG #108		CASING				
SPUD <u>10/08/2019</u>	COMP $\frac{10/16/202}{10/16/202}$	19	SURFACE 8 5/8" set @ 346' w/250 sx				
22541	LTD <u>3253'</u>		60/40 Poz, 3% CC,2% gel				
	CAL SURVEYS		PRODUCTION 79 jts 5 1/2" 15.5# MW-55 set w/150 sx AA2, 130 sx A-con				
ELI: DIL, MEL, CDL/CNL/PE			Set W/150 Sa AA2, 150 Sa A-ton				
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY				
ANHYDRITE	876' (+973)	881' (+968)	10/08/2019- MIRU MDC Rig #108. SPUD 12 1/4" hole @ 7:30 PM. Run 8 jts 8 5/8" csg, set @ 346'				
BASE ANHYDRITE	912' (+937)	915' (+934)	w/250 sx 60/40 Pozmix, 3% CC, 2% gel. Plug down @ 6:15 AM 10/09/2019.				
TARKIO LS	2406' (-557)	2407' (-558)	10/09/2019- WOC @ 346'.				
ТОРЕКА	2648' (-799)	2646' (-797)	10/10/2019- DTD 1650' @ 7:30 AM.				
OREAD	2790' (-941)	2792' (-943)	Mud up, Wt 9.3, vis 30 10/11/2019- DTD 2424' @ 7:30 AM.				
HEEBNER	2869' (-1020)	2869' (-1020)	10/11/2019- DTD 2424 @ 7.50 AM. Wt 8.8, vis 51, LCM 3#				
TORONTO	2887' (-1038)	2889' (-1040)	10/12/2019- CTCH @ 2657'. Run DST #1. MW 9.0, vis 57, WL 7.2, Cl 4900, LCM 2#.				
LANSING	2920' (-1071)	2921' (-1072)	DTD 2855' @ 6:05 PM. Run DST #2.				
STARK	3120' (-1271)	3122' (-1273)	10/13/2019- DTD 2886' @ 7:30 AM. Wt 9.1, vis 55, LCM 1#, Lost circ @ ~2892'.				
B/KANSAS CITY GRANITE WASH/GRANITE	3170' (-1321) 3204' (-1355)	3173' (-1324) 3203' (-1354)	Increased LCM to 10#, lost ~40 bbl mud. Run DST #3, Spot 80 bbl 4#/bbl pill in prep for DST.				
RTD/LTD	3253' (-1404)	3254' (-1405)	10/14/2019- DTD 3013' @ 7:30 AM.				
			Wt 9.0, vis 51, LCM 5#				
			10/15/2019- CFS 3150' @ 7:30 AM. Wt 8.9, vis 64, LCM 8#, DTD 3254' RTD.				
			10/16/2019- Run E-logs & TIH for DST #5 straddle LCM 8#.				
@ 3253', DV @ 890'. Ce gypseal + 10% salt, + 6 0.5 fluid loss, + 0.5 defor 55 bbl water & 21.5 bbl plug w/ 1500# @ 12:45. 3211'. Dropped DV oper w/130 sx A-Con Blend ( did circ to surface (~20   #1, 2, 5, 10, 12, 15, 20, & was moved between 55 c ** E-Log tops by P. Ran Respectfully submitted,	nondetta, Geologist, VOC	-2 (10% ake, + aced w/ e. Bumped nould be @ cemented 'ement n top of it					
Respectfully submitted, Roger L. Martin, Geologist, Wellsite							

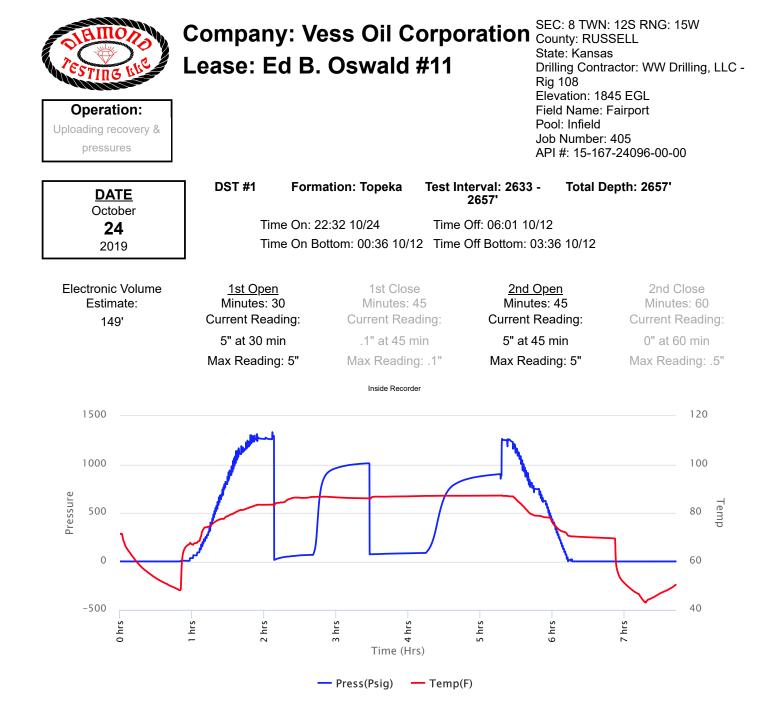


SAMPLE DESCRIPTION

REMARKS

881' (+968) ANHYDRITE 915' (+934) B/ANHYDRITE

				915' (+934) B/ANHYDRITE	
	- <b>C</b> -				
	<b>950'</b> 5 10	2150			
	0 5 10	2200	SH: gy & LS: md-dk gy, dn- ux & argil- Mdst w/ VPr- NV Poro, NS		
	-c-		SH: Incrs gy-blk.		
	<u></u>		& LS: lt- dk gy, argil Mdst & dn- ux w/ VPr- NV Poro, NS.		
	 0 5 10	2250	SH & LS: AA. & LS: cm-bf-gy, ux- subchlky & Mdst- sm argil, Pr- NV Poro, NS. sm VPr- Pr IX & uIGr Poro, NS.		
			Abndt Vgt'd SH & argil LS- Mdst.		
			SH: Vgt'd, Pred gy-blk, sm carb. LS: gy-bf, Wkst- Pkst & ux w/ VPr- Pr visbl Poro, NS & argil- shly LS.		
	<b>S</b>		Abndt SH: AA. LS: cm-bf-gy, ux- subchlky, sm Wkst- Pkst, Pr- NV Poro, NS.		
	0 5 10 -c-	2300	Abndt SH: gn-gy & gy-blk, sm calc & lmy & sm carb. LS: AA & gy-tn, dn- ux w/ VPr- NV Poro, NS.		
			SH: AA, sm blk carb SH, sm calc & lmy.		
	-C-		LS: cm-bf-tn, ux- dn & subchlky & Mdst- Wkst, Pr- NV Poro, NS.		
	0 5 10	2350	Pred SH: gy-blk, sm blk carb, sm calc & lmy SH. sm bf-tn LS: AA w/ NS, sm argil- shly LS, NS.		
			LS: gy-tn, dn- ux, Rr Wkst- Pkst, fos, sm argil Mdst, Pr- NV Poro,		
	-C-		NS. SH: AA & Vgt'd.		
		2400	SH: AA, gy-soft, sm calc & lmy, sm blk carb.		
	0 5 <u>−</u> c− 10	2400	(TARKIO) LS: gy-bf, dn & ux & argil w/ VPr- NV Poro, NS.	2407' (-558) TARKIO LS	Mud Checks by Mud-Co: 10/11/19 @ 7:30 AM Drlg @ 2427'
			LS: AA, sm argil- shly, sm wh-chlky, Rr Wkst- Pkst w/ VPr- Pr Poro, NS. LS: AA, Pred dn- ux & argil Mdst, NS.		wt 8.8, vis 51 PV 16, YP 20 pH 11.5, WL 7.2 Cl 4900, LCM 3 ECD 9.52
	-c-		SH- Mdst: lt gy- dk gy, soft (sm blk carb SH, AA).		
	0 5 10	2450	SH- SILTS & Mdst: gy, Rr pyrtc, Rr sndy, Vfn Gr'd, NS. Rr micac & sndy Silts- Mdst w/ Pr- NV Poro, NS.		
	-c- CFS20/40"		(ELMONT) LS: tn-gy-bn, sm mot Wkst, Pred dn- ux & argil Mdst w/VPr- NVP, NS. LS: AA, Pred dn- VPr Poro- NV Poro, NS.		
	<		SH: gy & sm blk carb.		
	\$	05	LS: tn-cm, gy-wh, sm ux- dn & mdst, Sl fos Wkst, sm chlky, Pred VPr- NV Poro, NS. LS: gy-tn & gy-wh, Mdst- Wkst & sm chlky LS w/ Pr- NV Poro,		
	0.5.10	2500	LS: AA, Pred dn to subchlky w/ Pr- NV Poro, NS.		
			SH: gy, calc & lmy & sm blk carb.		
	-C-		LS: cm-bf-gy, sm mot Wkst- Pkst, VRr chlky.		
	0 5 10	2550	Sm argil Mdst- Wkst, VPr- NV Poro, NS. VAbndt SH: gy & blk, sm calc & lmy & argil LS- Mdst & gy Silts.		
	-C-				
			SH: A, calc & lmy & argil- shly LS- Mdst. (& LS: AA)		
	-C-		SH: AA, cale- lmy & pyrte.		
	0 5 10	2600	LS: cm-tn-gy, Wkst- Pkst, & ux- fnx w/ Pr- NV Poro, NS, AA & sm wh-chlky LS w/ NS.	**10' SAMPLES**	
			SH: gy & blk, sm calc, sm carb. LS: gy-tn-wh, Abndt dn- ux & Mdst- Wkst, sm wh-chlky LS w/ VPr- NV Poro, NS.		
	3		LS: AA, Pred dn- ux & Mdst w/ VPr- NV Poro, NS. Incrs SH: AA & argil dn LS in drlg spl.		DST #1 TOPEKA 2633'-2657' 30-45-45-60
	0 5 10	2650	(TOPEKA) LS: cm-gy-tn, w/ sm Tn-bn OSTN, ux- Rr fnxln, >10% <20% w/ Pr- Fr Poro: LX Poro, pp Poro, spt'd- sat STN, SI- Fr SFO- GB, VRr Gd SFO- Cut, Fr Odor.	2646' (-797) TOPEKA Sl-Fr SFO	1st Op: No blo, blt to 5" in 30 min. 2nd Op: 1" blo, blt to 5" in 45 min. Bog: 1741 TE:
	-c- CFS 20/40/60" wt 9.0, vis 50 LCM 2#		LS: gy-wh-bf, Pred dn- ux & subchlky, sm argil- shly w/ VPr- NV Poro, NS.		Rec: 174' TF: 15' GIP 48'SIGSIOCM (6%G,9%O 85%M)
			SH: Pred gy- blk , AA. LS: cm-tn, gy-wh, Pred dn- ux & argil- Mdst, VPr- NV Poro, NS. sm wh-chlky, Rr Wkst- Pkst w/ Pr- VPr visbl Poro, NS.		63'SIOSIGSIWCM (10%G,5%O 15%W,70%M) 63'SIGSIOHMCW
	-c-				(3%G,3%O 59%W,35%M) Tool Spl: 10%O, 60%W,30%M IHP: 1260
	0 5 10	2700	LS: cm-tn, gy-wh, prt chlky- sbchlky, sm Wkst- Pkst, SI fos, Pred Pr visbl- NV Poro, NS. SI Cherty, trc Wkst- Pkst w/ Pr IGr Poro, <b>Rr spt'd OSTN, mlky Cut, NSFO</b> .		IFP: 17-68 ISIP: 1011 FFP: 74-88 FSIP: 901
			LS: AA, gy-wh, bf-tn, Wkst- Pkst, prt chlky & ux w/ VPr- Pr Poro, Trc Fr IGr Poro, pp Poro, vug Poro, <b>&lt;5% spt'd- sat Tn-bn</b> <b>OSTN, Trc SFO &amp; mlky cut,</b> Sl Cherty.	Trc SFO	FHP: 1257 BHT: 88 F
	3		sm blk carb SH, sm dn- argil LS. SH & LS: AA, Pred barren w/ Pr- NV Poro.		
		2750	SH- SILTS: lt gn-gy, soft. LS: cm-bf-gy, dn- ux & Mdst, Trc uFrc & Pr visbl Poro w STN- SFO- dull FLR- Cut .	Trc SFO	
	0 5 10		LS: AA, Incrs bf-gy, dn- ux & Mdst, uFre- Pr visbl Poro, <b>Trc</b> SFO- STN- Cut.	Trc SFO	
	2		LS: cm-gy, bf-tn, sm Wkst- Pkst & ux- fnx, >5% <10% w/ Pr- Fr pp Poro, IX Poro & IGr Poro, Trc Gd Poro, A & vug Poro, spt'd- sat STN, SI- Trc Fr SFO, Fr Odor:	Sl- Fr SFO	
	-C-		Abndt dn & argil LS, AA & gn-gy SH. sm blk carb SH, sm LS, AA w/ Poro, SFO- STN SH: blk carb. (OREAD) LS: gy-bf-cm, sm dn & argil Mdst- Wkst, Rr Pkst w/	2792' (-943) OREAD	
	0 5 10	2800	Pr- NV Poro. LS: gy-wh, bf-tn, prt chlky, sm Wkst- Pkst, VRr <b>&lt;5% w/ VPr- Pr</b> <b>Poro, Trc SFO- STN &amp; Cut.</b> Abndt dn & argil LS- Mdst- Wkst.	Trc SFO	DST #2- OREAD 2815'-2855' 30-45-45-60
	-CFS 20/40/60" wt 9.0, vis 52 LCM 2#		SH: gy-blk, sm blk carb.		1st Op: WSB, blt to 3.5" in 30 min 2nd Op: 1.25" blo, blt 2.75" in 45 min. Rec: 73' TF:
	5		LS: cm-gy-tn, Wkst- Pkst, fos-crnd-fusl & ux- Rr fnx, sm wh-chlky, ~20% w/ Pr- Fr Poro: pp- vug Poro, IX Poro, IGr Poro w/ spt'd-sat Tn-bn OSTN, SI- Fr SFO, Frly Strng odor, Fr- Gd Strmg- mlky Cut.	Sl- Fr SFO	Rec: 75 TF: 180' GIP 10' SIOSIGCM (5%G,5%O 90%M)
	CFS 20/40/60" wt 9.0, vis 52	2850	LS: gy-tn-wh, ux- Vfnxln & prt chlky Wkst- Pkst, ~20% w/ Pr- Fr Poro: pp- vug Poro & uIGr & uIX Poro, spt'd- subst Tn-bn STN, Fr SFO, SI SGB, dull FLR, Frly Strg odor, VRr sat STN & Gd SFO, Fr- Gd strmg mlky Cut. Cherty, AA.	Fr SFO SISGB	63' SIÓSIGCM (15%G,10%O 75%M) Tool Spl: 3%G, 20% / 77%/M
	<sup>0</sup> CFS 20/40/60 <sup>,10</sup> wt 9.0, vis 52 LCM 2#		LS: AA, Rr Poro w/ spt'd- sat STN- SFO- Cut, AA. Pred dn- chlky & Pr- NV Poro.		20%O,77%M IHP: 1341 IFP 13-33 ISIP: 280 FFP: 37-53
	-C-		(HEEBNER) SH: blk carb- Vcarb & sm argil- dn LS- Mdst- shly.	2869' (-1020) HEEBNER	FSIP: 282 FHP: 1341 BHT: 91 F
			<ul> <li>SH: Vgt'd, lt- dk gn-gy, sm calc &amp; lmy, &amp; LS: gy-bf, dn &amp; argil Mdst.</li> <li>(TORONTO) LS: gy-bf-cm, Pred dn Mdst- Wkst, sm argil, sm wh-chlky, VRr ~5% Wkst- Pkst &amp; ux- Vfnxln w/ Pr- Fr Poro: pp</li> </ul>	2889' (-1040) TORONTO Fr SFO	10/13/19 & 5:45AM CTCH @ 2855' wt 9.1, vis 55 PV 12, YP 20 pH 10, WL 9.2
	0 5 10 -c- CFS-20/40/60"	2900	Poro, IX Poro, IGr Poro, w/ spt'd- subsat STN, dull FLR, SI-Fr SFO, Fr Odor, Fr strmg mlky Cut, Sl Cherty: AA & blu-gy,shrp.		PH 10, WL 9.2 Cl 8000, LCM 1# ECD 9.71
	wt 8.8, vis 53 LCM 10#		Abndt Vgt'd SH. LS: AA, >5% <10% w/Pr- Fr Poro, spt'd- sat STN- SFO- Cut- Odor, Pred dn- VPr Poro, Brren, SH: Incrs Vgt'd rd-mrn, ~75% SH: AA. (LANSING) Rr LS: cm-tn-gy, Pred dn- VPr Poro, VRr ux- fnx Wkst- Pkst w/ Pr- Fr Poro: pp, IX, IGr Poro, <b>spt'd-sat STN</b> , <b>S</b>	2921' (-1072) LANSING	DST #3 Tor-
			SFO & odor, VRr Gd Poro, sat STN, Fr SFO & Cut LS: wh-th-gy, Abndt dn to chlky w/ VPr- NV Poro, ~5%- 10% w/ Pr- Fr Poro, ux- fnxln, 2RX & Wkst- Pkst, Trc mdxln- 2RX, spt'd-sat STN, SI- Fr SFO- Odor, FLR Abndt Vgt'd SH: AA & LS, AA, Pred dn to VPr Poro & barren.SH: Incrs Vgt'd rd, gn-gy. LS: VRr	LANSING SI SFO SI-Fr SFO	LKC 'F' Zn 2863'-3013' 30-45-45-60 1st Op: 1" blo,
	-c- CFS-20/40/60"	2950	oomldc- ux- vfnxln, spt'd-sat STN. LS: tn-gy-bn, OSTN, ux- fnxln, prt to Voomldc w/spt'd- sat dk bn- blk OSTN, Fr SFO- bn & blk, SI SGB, Fr Odor sm dd STN, Gd- VGd Cut. Abndt dn LS to Pr visbl Poro & barren, Vrr pp- vug Poro & Edg's w/ STN/F.Oil & Cut, & dd tarry STN.	Fr SFO SI SGB	blt to 7.5" in 30 min 2nd Op: WSB, blt to .75" in 45 min Rec: 168' M Tool Spl: 2%O,
	0 wt 8,9, vis 47 LCM 7# CFS 20/40/60'' wt 8.9, vis 58 LCM 10+#		LS: AA & SH, Pred dn- Pr Poro.		98%M IHP: 1325 IFP: 59-83 ISIP: 470 FFP: 81-89
			LS: Rr mldc & Vfnlxn- sucro w/ Fr- Gd Poro: IX Poro & mldc Poro, sat Tn-bn STN, Fr SFO. LS: bf-gy-wh, ux- fnxln, VRr mdx- 2RX, ~5% Fr- Gd vug Poro, mldc Poro, spt'd- subsat STN, SI- Fr SFO & GB, Odor. Abndt dn- chlky LS, sm shly- argil w/	Fr SFO Sl- Fr SFO & GB	FFP: 81-89 FSIP: 363 FHP: 1324 BHT: 87 F
			blk SH. LS: gy-bf-cm, ux- fnxln, Trc mdx- 2RX, ~5% w/ Fr- Gd vug & mldc Poro & IX Poro, <b>spt'd- sat bn &amp; blk STN, Fr SFO &amp; GB</b> ,	Fr SFO & GB	
	-c- CFS 30" 0 5 10	3000	Fr odor, VRr dd tarry STN, Fr- Gd Cut Pred dn- VPr Poro Mdst- Wkst & Pkst w/ VRr SFO- STN. LS: Wkst- Pkst w/ Pr- Fr Poro, VRr SFO- STN, Fr Odor, Cherty. LS: bf-tn-gy, Wkst- Pkst, ux- fnx w/ VRr Fr Poro, spt'd- sat STN,	Fr SFO	DST #4 LKC 'G' 3010'-3033' 30-45-45-60
	CFS 20/40/60" wt 8.9, vis 59 LCM 10#	1	Fr SFO- Cut. LS: AA, Pred dn- VPr Poro, Cherty, VRr Poro- SFO- STN, AA. Vgt'd SH: AA. LS: cm-tn-gy, ux- fnxln, VRr (~5%) prt Voomlde w/ Fr- Gd visbl- mlde Poro & sm IX poro, subsat- sat rich Tn-bn OSTN, Fr- Gd SFO & Cut, Sl- Fr FLR, Fr- Gd SGB, Frly Strng Odor . Abndt dn- chlky LS.	Fr SFO Fr-Gd SFO & GB	1st Op: 0.25" blo, blt to 0.5" in 30 min 2nd Op: WSB Rec: 25' SIOCM
			LS: It gy-tn-cm, dn- ux, Rr chlky- wh; Rr ux- fnxln, Pr- Fr Poro: pp, IGr, IX Poro& 2RX w/ It OSTN, VSI SFO & Cut, VSI FLR,	VSI SFO	(1%O,99%M) Tool Spl: 2%O,98%M IHP: 1399 IFP: 11-17
		3050	Sl Odor (Tre mlde LS, A- STN- SFO-Cut)		ISIP: 58 FFP: 17-21 FSIP: 56 FHP: 1399
	0 5 10		LS: gy-tn-cm, Pred dn- ux & Mdst- Wkst w/ VPr- NV Poro; VRr <5% ux- fnx Wkst- Pkst w/ Pr- Fr Poro: pp- vug Poro w/ spt'd STN, Trc SFO, VSI Cut SI Cherty, Rr wh-chiky LS.	Trc SFO	BHT: 88 10/14/19 @ 7:00AM TOH w/DST #3 @ 3013'
			sm argil LS. SH: gy-blk.		wt 9.0, vis 51 PV 12, YP 13 pH 10.0, WL 7.2 Cl 4000, LCM 5#
			LS: gy-wh, cm-tn, Pred dn- ux & chlky, sm argil, VRr ux- fnxln Wkst- Pkst, Pr- Fr pp Poro, IX Poro, IGr Poro, <b>spt'd STN, VSl</b> <b>SFO &amp; Cut, VSl Odor on brk.</b> 10% SH: Vgt'd, to 20' SH in 3100' spl. & argil- shly LS- Mdst. Incrs Vgt'd SH, AA. LS: Wkst- Pkst & chlky. <b>Trc STN- Poro- SFO- Cut</b> .	VSI SFO	ECD 9.59
	- <b>c</b> - 0 5 10	3100	LS: Wkst- Pkst & chlky, Trc STN- Poro- SFO- Cut. LS: tn-gy-wh, Pred dn- ux & Mdst w/ VPr- NV Poro, VRr pp Poro- 2RX Edg's, vug & IX Poro w/ spt'd Tn-bn STN, SI- Fr SFO & GB, SI- Fr Cut, VRr oomldc LS:- ux- fnxln, Fr- Gd Poro, spt'd-	Trc SFO	DST #5- LKC 'H'- LKC 'L' (straddle) 3042'-3185'
			sat STN, Fr Odor. (STARK) SH: blk carb. SH: AA, Rr blk carb.	SI- Fr SFO 3122' (-1273) STAPK	30-45-45-60 1st Op: .25" blo, blt to .75" in 30 min 2nd Op: WSB,
			LS: A, Pred dn-chlky w/ Pr- NV Poro, < <b>5% w/ Poro- STN- SFO-</b> <b>Cut,</b> AA. SH: SI Incrs Vgt'd SH.	STARK	blt to 1/8" in 45 min Rec: 20' M Tool Spl: 100%M IHP: 1447
	CFS 20/40"	3150	LS: wh-gy-tn, Pred chlky to dn- ux, sm mot Wkst- Pkst w/ Pr- Fr IGr Poro, spt'd STN, SI SFO. VRr (but iners) mlde w/Fr- VGd mlde Poro, Pr- Fr IX Poro w/ spt'd- sat STN & Cut.	SI SFO	IFP: 13-17 ISIP: 64 FFP: 18-20 FSIP: 56
	0 Mt 8,8, vis 58 10 UCM 6# -C-		<ul> <li>SH: Vgt'd blk carb &amp; gy- blk, &amp; gn-gy &amp; rd.</li> <li>LS: tn-gy-wh, Pred dn- ux, sm prt chlky, VRr &lt;5% Wkst- Pkst &amp; ux- Vfnxln w/ VPr- Pr visbl Poro: pp Poro, IX Poro, IGr Poro, snt'd STN Tre SEQ. Cut</li> </ul>	Trc SFO	FHP: 1446 BHT: 93
	CFS 20/40/60"		spt'd STN, Trc SFO- Cut. (BASE KANSAS CITY) Abndt Vgt'd SH, sm blk carb SH.	3173' (-1324) B/KANSAS CITY	
	CFS 20/40/60"		(MARMATON) LS: tn-gy-wh, Pred dn- ux- fnx & cryptox- Litho- dn & sm argil- shly, <b>Trc Poro &amp; Edg STN, Trc SFO &amp; Cut</b> SH: Vgt'd AA & Incrs mrn-rd.	Trc SFO	
	0 5 10	3200	LS: wh-bf-tn-gy, ux- fnx, prt chlky Sl Chrty, VRr Pr- Fr Poro w/ STN- Trc SFO- Cut. (GRANITE WASH) Pred SH: gn, frags- qtz- biot, sm plag- felds. NS. Abndt GRANITE WASH (GW): Pred qtz & biotite w/sm plag	Trc SFO 3203' (-1354) GRANITE WASH	Mud Checks by Mud-Co:
			NS. Abndt GRANITE WASH (GW): Pred qtz & biotite w/sm plag & Kfelds, VPr- NV Poro, NS. NC. GW: wh-transl & blk & rd-pnk-orng qtz, biot & plag & Kfelds, Pred dn w/ VPr visbl Poro- NV Poro, NS. NF. (shrp decrs SH) sm gn-gy & mrn-rd SH. (Incrs pnk-rd Kfelds)		10/15/19 @ 12:45PM CFS @ 3223' wt 8.9, vis 64 PV 11, YP 15
× × × × × × × × × × × × × × × × × × ×	-c- CFS 20/40"		gn-gy & mrn-rd SH. (Incrs pnk-rd Kfelds) GW: AA, qtz- biot- plag- Kfelds & sm SH, AA, VPr visbl Poro- NV Poro, NS. NC.		pH 8.0, WL 10.8 Cl 6500, LCM 8# ECD 9.46
× × × × × × × × × × × × × × × × × × ×	wt 8.9 vis 80 LCM 7#	3250	NV Poro, NS. NC. GW: wh-tn-rd-orng & blk qtz- plag- Kfeld & biot, VPr- NV Poro, NS. NC.		10/16/19 @ 7:15 AM TIH w/DST #5 @ 3254' wt 9.1, vis 52 PV 12, YP 14
	0 <b>rgh/torq</b> 5 <b>-c-</b> 10			RTD 3254' (-1405) LTD 3253' (-1404) VESS OIL CORP	PV 12, YP 14 pH 11.0, WL 7.2 Cl 4500, LCM 8 ECD 9.67
				ED OSWALD B #11 1980'FSL & 660'FWL SEC 8-12S-15W RUSSELL CO, KS API# 15-167-24096	
		3300			





# Company: Vess Oil Corporation SEC: 8 TWN: 12S County: RUSSELL

Lease: Ed B. Oswald #11

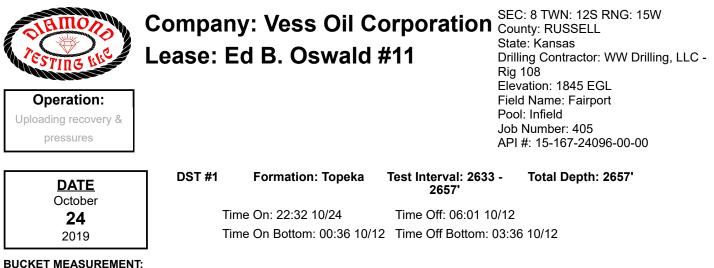
Operation: Uploading recovery & pressures

Close / Final Close

SEC: 8 TWN: 12S RNG: 15W County: RUSSELL State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00

DATI Octob		DST #1 Fo	rmation: Topeka		val: 2633 - 57'	Total D	epth: 2657'	
24		Time Or	n: 22:32 10/24	Time Off	: 06:01 10/12	2		
2019		Time Or	n Bottom: 00:36 1	0/12 Time Off	Bottom: 03:	36 10/12		
Rec	overed							
Foot	BBLS	Descriptio	on of Fluid	<u>Gas %</u>	<u>Oil %</u>	Wate	<u>er %</u> <u>M</u>	<u>ud %</u>
15	0.21345	(	G	100	0	C	)	0
48	0.68304	SLGCS	SLOCM	6	9	C	)	85
63	0.3737335	SLOCSLO	SCSLWCM	10	5	1	5	70
63	0.30996	SLGCSL	CHMCW	3	3	5	9	35
Total Recov Total Barrels		1: 1.5801835	Reversed Out NO		Recove	ery at a gl	ance	
Initial Hydro	static Pressure	1260	PSI					
	Initial Flow		PSI					
Initial Close	ed in Pressure	1011	PSI					
Final	Flow Pressure	74 to 88	PSI			_		
Final Close	ed in Pressure	901	PSI	0			Recovery	
Final Hydros	static Pressure	1257	PSI					
	Temperature	88	°F	•	Gas 19.06%	• Oil 5.66%	Water 15.12%	Mud 60.16%
Pressure	e Change Initial	10.9	%					

GIP cubic foot volume: 1.69055



Diesel in Bucket

1st Open: No Blow. Built to 5 inches in 30 Mins

1st Close: Weak Blow Back

2nd Open: 1" Blow. Built to 5 inches in 45 mins

2nd Close: 1/2" Blow Back

#### **REMARKS:**

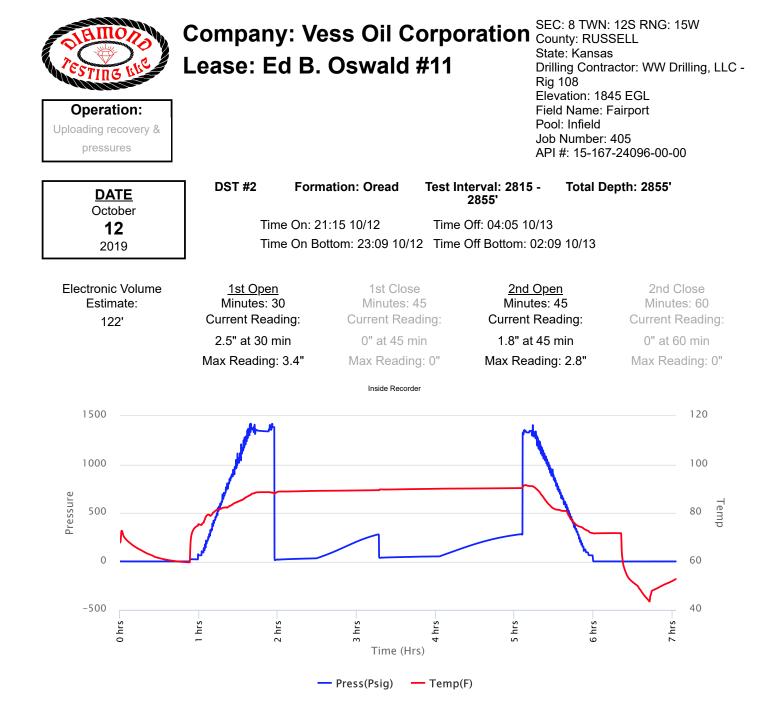
Tool Sample: 0% Gas 10% Oil 60% Water 30% Mud

### Ph: 7

Measured RW: 1.2 @ 48 degrees °F

RW at Formation Temp: 0.694 @ 88 °F

Chlorides: 20,000 ppm



SIEMONS	
resting the	,

# Company: Vess Oil Corporation Sec: 8 TWN: 12S County: RUSSELL

Lease: Ed B. Oswald #11

**Operation:** Uploading recovery & pressures

SEC: 8 TWN: 12S RNG: 15W State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00

11.11%

DAT Octob 12 2019	er	Time Or	ormation: Oread n: 21:15 10/12 n Bottom: 23:09 10	Time	t <b>erval: 2815 - 2855'</b> Off: 04:05 10/13 Off Bottom: 02:09	<b>Total Dep</b> 9 10/13	th: 2855'	
Rec	overed							
Foot	BBLS	<u>Description</u>	on of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water 9	<u>%</u>	<u>/ud %</u>
180	2.1317435	(	G	100	0	0		0
10	0.0492	SLOCS	SLGCM	5	5	0		90
63	0.30996	SLOCS	SLGCM	15	10	0		75
Total Recov Total Barrels		t :d: 2.4909035	Reversed Out NO	2	Recover	y at a glan	ICe	
Initial Hydro	static Pressur	e 1341	PSI	BBL				
	Initial Flow	v 13 to 33	PSI	<u> </u>				
Initial Close	ed in Pressur	e 280	PSI					
Final	Flow Pressure	e 37 to 53	PSI					
Final Close	ed in Pressur	e 282	PSI	0		Re	covery	
Final Hydros	static Pressure	e 1341	PSI				,	
	Temperatur	e 91	°F		Gas 87.55%	Oil 1.34%	• Water 0%	Mud 11.11
	e Change Initia se / Final Close		%	GIP cubic f	oot volume: 12.2	4353		

<b>Operation:</b> Uploading recovery & pressures	-	y: Vess Oil C d B. Oswald	#11	SEC: 8 TWN: 12S RNG: 15W County: RUSSELL State: Kansas Drilling Contractor: WW Drilling, LLC - Rig 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00
DATE October	DST #2	Formation: Oread	Test Interval: 2815 2855'	- Total Depth: 2855'
<b>12</b> 2019		ne On: 21:15 10/12 ne On Bottom: 23:09 10/ <sup>.</sup>	Time Off: 04:05 10/ 12 Time Off Bottom: 0	

#### BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: WSB. Built to 3 1/2 inches in 30 mins

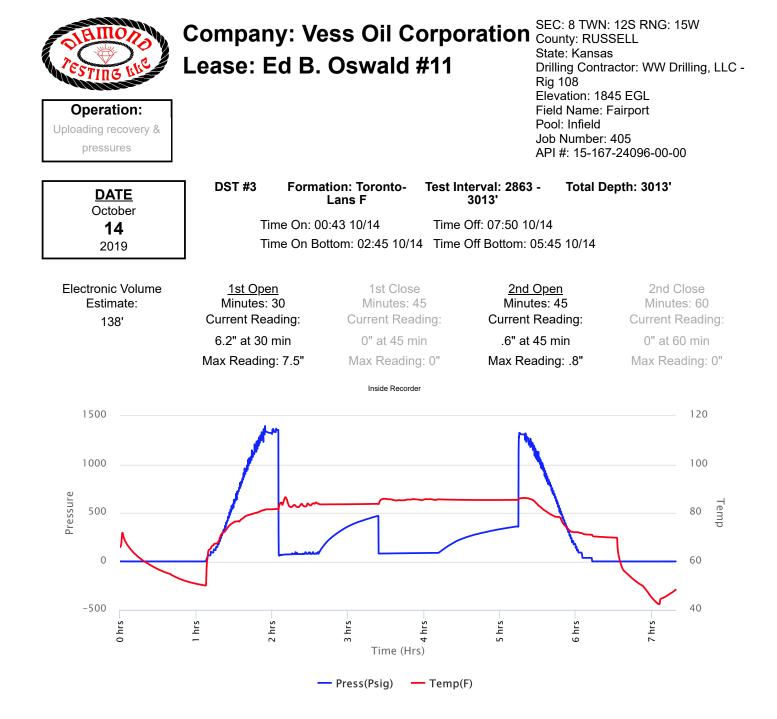
1st Close: NOBB

2nd Open: 1 1/4" Blow. Built to 2 3/4 inches in 45 mins.

2nd Close: NOBB

### REMARKS:

Tool Sample: 3% Gas 20% Oil 0% Water 77% Mud



		: Vess Oil I B. Oswald	-	<b>TION</b> Cou Sta Dril Rig Ele Fiel Poo Job	unty: RUSSE te: Kansas	or: WW Drilling, LLC - EGL rport 5
DATE	DST #3	Formation: Toronto Lans F	- Test Interv 301		Total Dept	h: 3013'
October	Time	On: 00:43 10/14	Time Off <sup>.</sup>	07:50 10/14		
<b>14</b> 2019		On Bottom: 02:45 1		Bottom: 05:4	5 10/14	
<u>Recovered</u>						
Foot BBLS		<u>ption of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	Water %	
168 1.281353	5	Μ	0	0	0	100
Total Recovered: 168 Total Barrels Recover		5 Reversed Out NO	1	Recover	ry at a gland	ce
Initial Hydrostatic Pressu	ure 1325	PSI				
Initial Fl		B PSI				
Initial Closed in Pressu	ure 470	PSI	0.5			
Final Flow Pressu	ure 81 to 89	) PSI				
Final Closed in Pressu	ure 363	PSI	0		Po	covery
Final Hydrostatic Pressu	re 1324	PSI			Ke	COVELY
Temperatu	ure 87	°F		Gas 0%		Water • Mud 0% 100%
Pressure Change Ini Close / Final Clo		%	GIP cubic foot	•	U70	0% 100%



**Operation:** 

Uploading recovery &

pressures

# Company: Vess Oil Corporation SEC: 8 TWN: 12S Lease: Ed B. Oswald #11

SEC: 8 TWN: 12S RNG: 15W County: RUSSELL State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00

DATE October	DST #3	Formation: Toronto- Lans F	Test Interval: 2863 - 3013'	Total Depth: 3013'
14	Tim	ne On: 00:43 10/14	Time Off: 07:50 10/14	
2019	Tim	ne On Bottom: 02:45 10/14	Time Off Bottom: 05:45	10/14

#### BUCKET MEASUREMENT:

1st Open: 1" Blow. Built to 7 1/2 inches in 30 mins

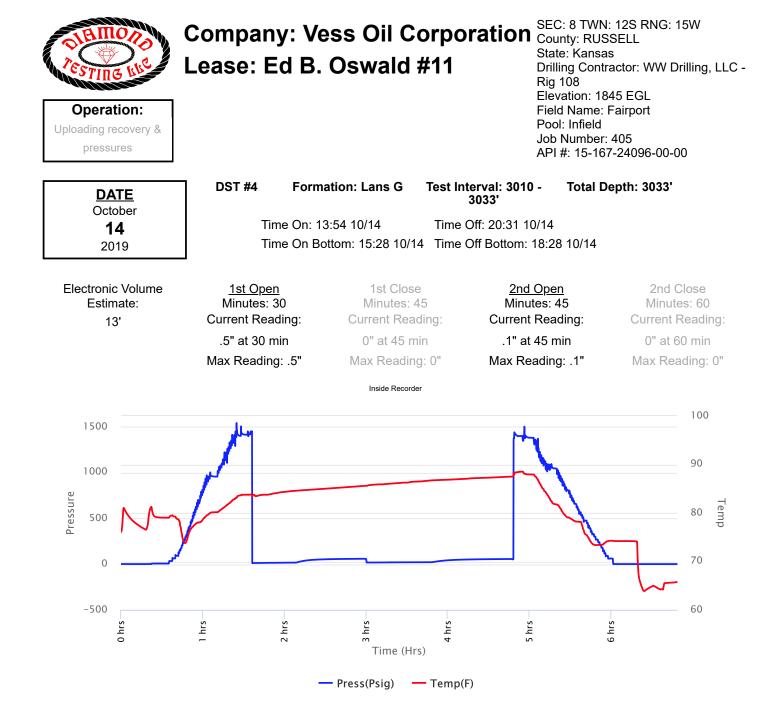
1st Close: NOBB

2nd Open: WSB. Built to 3/4 inch in 45 mins

2nd Close: NOBB

#### **REMARKS**:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



		Vess Oil C B. Oswald	-	I <b>TION</b> Cou Sta Dril Rig Ele Fiel Poo Job	te: Kansas	WW Drilling, LLC - L rt	
DATE	DST #4 F	ormation: Lans G	Test Interv 303		Total Depth:	3033'	
October	Time (	)n: 13:54 10/14	Time Off <sup>.</sup>	20:31 10/14			
<b>14</b> 2019		On Bottom: 15:28 10/1	-		8 10/14		
2019		JI Dottom: 10.20 10/			0 10/11		
<u>Recovered</u>							
Foot BBLS	<u>Descrip</u>	tion of Fluid	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>	
25 0.123	SL	OCM	0	1	0	99	
Total Recovered: 25 f Total Barrels Recover	-	Reversed Out NO	0.1	Recover	ry at a glance		
Initial Hydrostatic Pressu	ure 1399	PSI	1				
Initial Fl		PSI	۲ 9 0.05 – – – –				
Initial Closed in Pressu	ure 58	PSI	0.05				
Final Flow Pressu	ure 17 to 21	PSI					
Final Closed in Pressu	ure 56	PSI	0		Reco	/erv	
Final Hydrostatic Pressu	re 1399	PSI			Reco	, cry	
Temperati	ure 88	°F		Gas 0%	<ul> <li>Oil</li> <li>Wa</li> <li>1%</li> <li>0%</li> </ul>		
Pressure Change Ini Close / Final Clo		%	GIP cubic foot	volume: 0			

	-	y: Vess Oil C d B. Oswald	#11	SEC: 8 TWN: 12S RNG: 15W County: RUSSELL State: Kansas Drilling Contractor: WW Drilling, LLC - Rig 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00
DATE October	DST #4	Formation: Lans G	Test Interval: 3010 3033'	- Total Depth: 3033'
14	Tir	ne On: 13:54 10/14	Time Off: 20:31 10/	/14
2019	Tir	ne On Bottom: 15:28 10/1	4 Time Off Bottom: 1	8:28 10/14

#### BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/4" Blow. Built to 1/2 inch in 30 mins

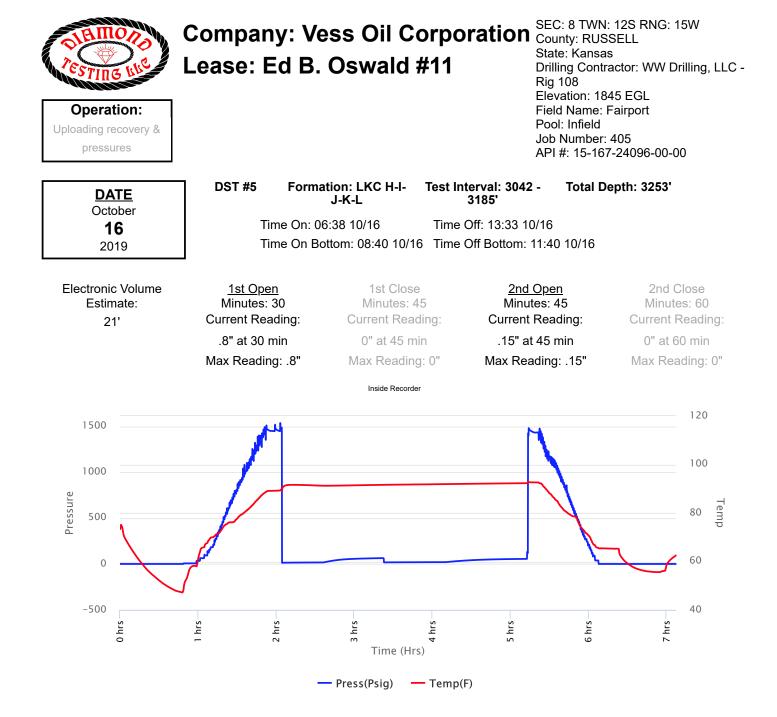
1st Close: NOBB

2nd Open: Weak Surface Blow. Blow Never Built.

2nd Close: NOBB

### **REMARKS**:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



	Company: _ease: Ed l		-	I <b>tion</b> Cou Stat Drill Rig Elev Fiel Poo Job	unty: RUS te: Kansa ling Conti 108 vation: 18 d Name: ol: Infield Number	as ractor: WW 345 EGL Fairport	V Drilling, LLC -	
DATE	DST #5 Fo	rmation: LKC H-I- J-K-L	Test Interv 318		Total D	)epth: 325	3'	
October <b>16</b> 2019	-	n: 06:38 10/16 n Bottom: 08:40 10/		13:33 10/16 Bottom: 11:40	0 10/16			
<u>Recovered</u> Foot <u>BBLS</u> 20 0.0984	•	on of Fluid M	<u>Gas %</u> 0	<u>Oil %</u> 0		<u>er %</u> 0	<u>Mud %</u> 100	
Total Recovered: 20 Total Barrels Recove		Reversed Out NO	0.1	Recover	ry at a g	lance	-	
Initial Hydrostatic Press Initial Fl Initial Closed in Press Final Flow Press	low 13 to 17 ure 64	PSI PSI <b>PSI</b> PSI	폂 0.05					
Final Closed in Press Final Hydrostatic Press	ure 56 ure 1446	<b>PSI</b> PSI	0			Recovery		
Temperat Pressure Change Ini Close / Final Clo	itial 12.3	°F %	GIP cubic foot	Gas 0% volume: 0	Oil 0%	• Water 0%	Mud 100%	



# Company: Vess Oil Corporation County: RUSSELL Lease: Ed B. Oswald #11

SEC: 8 TWN: 12S RNG: 15W State: Kansas Drilling Contractor: WW Drilling, LLC -Ria 108 Elevation: 1845 EGL Field Name: Fairport Pool: Infield Job Number: 405 API #: 15-167-24096-00-00

Total Depth: 3253'

Operation:
Uploading recovery &
pressures

**DST #5** Formation: LKC H-I-Test Interval: 3042 -J-K-L

Time On: 06:38 10/16

Time Off: 13:33 10/16

3185'

Time On Bottom: 08:40 10/16 Time Off Bottom: 11:40 10/16

## BUCKET MEASUREMENT:

DATE

October

16

2019

1st Open: 1/4" Blow. Built to 3/4 inch in 30 mins.

1st Close: NOBB

2nd Open: Weak Surface Below. Built to 1/8 inch in 45 mins

2nd Close: NOBB

### **REMARKS:**

Straddle Packer Held. (1455 Pressure)

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud

### **Below Straddle Recorder**

