

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1145020

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from Dorth / South Line of Section
City: Sta	ite: Zip:+	Feet from Cast / West Line of Section
Contact Person:	·	Footages Calculated from Nearest Outside Section Corner:
Phone: ()		
CONTRACTOR: License #		County:
		Lease Name: Well #:
		Field Name:
5		Producing Formation:
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:
New Well	Entry Workover	Total Depth: Plug Back Total Depth:
 Oil WSW Gas D&A OG CM (Coal Bed Methane) Cathodic Other (Core, 	SWD SIOW ENHR SIGW GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: feet depth to: w/ sx cmt
If Workover/Re-entry: Old Well Info	as follows:	
Well Name:		Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Deepening Re-perf.	Original Total Depth: Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back:	Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:	Operator Name:
Dual Completion	Permit #:	Lease Name: License #:
SWD	Permit #:	Quarter Sec TwpS. R East West
	Permit #:	County: Permit #:
GSW	Permit #:	
Spud Date or Date Read Recompletion Date	ched TD Completion Date or Recompletion Date	

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Side Two	1145020
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Shee	ets)	Yes No		Log Fo	ormation (Top), Depth ar	nd Datum Top	Sample
Samples Sent to Geologic	cal Survey	Yes No		Name		юр	Datum
Cores Taken Electric Log Run Electric Log Submitted El (If no, Submit Copy)	ectronically	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No)				
List All E. Logs Run:							
		CAS		New U	sed		
		Report all strings	set-conductor, surfac	e, intermediate,	production, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Sett Dep		# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:		METHOD OF COMPLE		TION:		PRODUCTION INT	ERVAL:			
Vented Sold Used on Lease			Open Hole Perf. Dually (Submit A			Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)			
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ROGER L. MARTIN INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970					
(GIST'S REI			
COMPANY VESS OIL COR	PORATION		ELEVATIONS		
LEASE KOOGLER 'A' #30	KB <u>1312'</u> GL <u>1306'</u>				
FIELDEL DORADO	Measurements Are All				
LOCATION 330' FSL 500' F	EL		From KB		
SECTION $\frac{20}{1000}$ TOWNSHII		ANCE 05E	API <u>15-015-23970</u>		
COUNTY BUTLER			· · · · · · · · · · · · · · · · · · ·		
CONTRACTOR C&G Drill			CASING SURFACE <u>6 jts 8-5/8" 23#/ft @ 264' KB</u>		
SPUD <u>04/29/2013</u> C		/2013	w/150 sx Class A on btm 1": 40 sx on top		
RTD 2584' (-1272) L	TD == AL SURVEYS		PRODUCTION 61 jts 5-1/2" 15.5#/ft		
No Open Hole E-logs Dynalog: Cased Hole log	AL SURVETS		set @ 2581' w/125 sx Thickset.		
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY		
Lansing		1726' (-414)	04/29/2013- MIRU C&G Drilling, Rig #1. Drill rathole @ 12:30 OM, SPUD 12 1/4" hole @ 2 PM. Lost circulation @ 40', lots of hulls to get partial returns		
Kansas City		2036' (-724)	to finish surface hole. TD 12 1/4" hole @ 265' @ 2:30 AM. Set 256' 8 5/8" 23#/ft LS casing, set @ 264' KB. CONSOLIDATED: 150 sx Class A,		
Stark SH	8	2139' (-827)	1" 40sx, Staying full. Btm plug down @4 AM.		
Base/Kansas City Checkerboard		2205' (-893) 2271' (-959)	04/30/2013- Drill under surface @ 12:0 PM. Run PDC bit.		
Hepler Sd	0	NP	05/01/2013- Drlg @ 1740', Mud up @ 1700'. 1917'- MW 9.1, VIS 33, WL 11.4, LCM .5		
Altamont Cherokee SH		2326' (-1014) 2402' (-1090)	05/02/2013- Drlg @ 2230, MW 9.3, VIS 36, LCM 1#. Bit Trip @ 1926', PDC out, button		
Ardmore		2476' (-1164)	bit in. 2311'- MW 9.1, VIS 37, WL 10.6, LCM .5		
Viola	5	2579' (-1267)	05/03/2013- Circ @ 2572'; MW 9.4, VIS 55, WL 9.4, LCM 1#. 1 PM short trip for DST #1.		
LTD/RTD		2584' (-1272)	05/04/2013- TD 2584'. Ran DST #2. CASING JOB: Ran 61 jts of 5 1/2" 15.5#/ft J-55		
		2	LT&C Casing, set @ 2581; Put on 6 centralizers & 1 basket. Circ mud for 20 min. Set packer shoe @ 1275#, Circ mud 20 min. Consolidated Services pump		
			500 gal Mud Flush. Cemented w/125 sx Thickset. Caught pressure @ 34.5 bbl, Good circ of mud. Lift pressure to 800#. Land plug @ 1050# @ 10:45 PM.		
			It seeped some, left 250# on pipe, Set slips @ cut off casing Sun AM. 5 sx Rathole.		
Respectfully submitted. Roger L. Martin, Geolo	gist (Wellsite)				
UTH POROSING DRUINE THE DST	SAMPL	E DESCRIPTION	REMARKS		
	PDC BIT: KELLY DC LS: wh-tn, mx- fnxln, NVP. & SH: gy-bk, sm car	prt chky, sm fos, Pred Prv	isbl Por-		
	sm SH: It-dk gn-gy & SILTS. LS: AA & sm dn Mdst, Abndt cm-tn, mx-fn×ln, Pr-FrIX Por, NS. sm wh-chky. (1367' spl)				
	Abndt SH: Pred dk g sm LS: cm-bf-tn, dn-	y-bk, Rrpyrto. m∝-fnx, Pr-NVP. (1429'sp	>D		
		sm mot, Pred dn- mx- fnx VI d Pr- NVP w/NS. (1460' spl)			

ROGER L. MARTIN

			Max, Sicherty, Fred FI- NVF W/NS. (1460 Spi)		
		-1450	sh rp In crs SH: (~40-50 %, SH) gy-blk & gn-gy SH. sm LS:wh-gy-tn, Predidn - ch kiy & m - fn -, VPr-NVP, NS. (1491'spl)		
			NS. (1981 Spl)		
	<u>}</u>		V Abndt SH-SILTS: (~70%) Varicolored (VC), SH: gn-gy & mrn-rd & blk, sm pyrtc. SILTS: gn-gy, sm calc & sndy. VRr Sd Clust gn-gy, Vfn-		
		-1500	fn Gr'd, siltý, well cmťd, Pr- VPr Por, NS. NF. NC. (1522' spl)		
	₽ 2 5 10 2 10 2 10				
			In crs SD CLUST: (>5% <10%) It gy, Vfn-fn Gr'd, Fr-Gd IGr Por-fribl w/NS.NF.NC.sm Vfn Gr'd, silty, micac w/ VPr-Pr Por, NS. Ab ndt pyrtc SH & SILTS: (1553'spl)	SHS= 1/4 deg	
		-1550	Inors SILTY SD CLUST: (>10% <20%) Pred Vfn Gr'd, silty & micac, sm calc, Rr Vfn- fn Gr'd, friblw/Fr- Gd Por, NS. NF. NC. & SH: gn-gy & mrn-rd. (1584' spl)		
			Pred SH: dk-tt gy, micac, sm blk carb. VRr LS: cm-bf-th, dn- m×, VPr- NVP. NS. (1616' spl)		
		-1600	Shrp Inces in LS: (~ 60%) LS:wh-cm-tn, prt ch ky, mx- fnxin,sm mot Pkst, fos & grnir, VPr-Pr visbi Por, NS. SH: gy & gn-gy. (1647'spl)		
	}				
		-1650	VAbndt LS: cm-tn, mx-Vfn×ln, Pred Wk st-Mdst w/VPr- NVP & NS. SILTS: ht gy & gn-gy, sm sndy, & Rr Sd Clust: Vfn Gr'd & sihly-micac, Pr Por, NS. SH: gn-gy & blk. (1678'spl)		
	0 5 10				
			VAbndt SH- SILTST: gy, pred micao, sm sndy: Vfn Grd,		
		1700	VRr Sd Clust: AA w/VPr- Pr visbl Por, Ns. NF. NC. (1709' spl)		
	5 10 5 C	-1700		DISPLACE MUD	
			{LANSING} LS: VAbndt (~90% LS) gy-tn-wh, Pred mot dn	1726' (-414) LANSING	
			Mdst & Wkst & mx fnxln- sm 2nd ReX, sm prt chlky, Pred Pr- NVP w/NS. (1740' spl) VAbndt LS: wh-gy-tn, mot, dn- mx- fnxln, sm chlky, Rr prt md- Vorsxln- 2nd ReX, Pred Pr- NVP, NS. (1771' spl)		
		-1750			
			Pred LS: (~90%) wh-tn-gy, sm mot, prt chky, prt dn & mx- fnxln, Rr md-VcrsX's, Pr-NVP w/NS. sm argil-shly, sm gn-gy & bk SH. (1802' spl)		
		-1800	Pred LS: (>80%) wh-tn-gy, prt ch ky, prt dn-xm-fnx, Rr Pkst wPr-Fr Por, VRr G d Por, NS.sm 2nd ReX. ~20% SH:gn-gy & blk & rd-mrn. (1833'spl)		
			65 (K) 62 (K)		
			LS:(>90%) cm-tn-wh, Pred dn to chky, sm m× fn×, Pred		
		-1850	Pr-NVP w/NS.(1864'spl)		
			LS: (>90%) tn-gy-wh, dn & m×- fn×, prt chky, sm grnIr, Pr- NVP w/NS. sm argil.		
			{BONNER SPRINGS SH} Shrp Incrs SH & SILTS & arg+ shly LS (~50% SH- SILTS) SILTS: gy & gn-gy, sm micac, sm calc & Imy. SH: gn-gy-bk LS: gy-tn, dn & argil-shly. (1926' spl)		
	0 5 10 10 10 10 10 10 10 10 10 10 10 10 10	-1900	SH:(~90%)lt-dk.gn-gy&gy-bk,sm.pyrtc&sm.bk.carb.		
			(1940'spl)	BIT_TRIP @ 1926'	MUD CHECKS by FUD MUD: WT 9.1+, VIS 33 PV 24, YP 16
			SH: Pred gy-bk, sm gn & rd.	SHS= 3/4 deg	WL 11.4, pH 8.5 LCM 1/2#, CI 900
		-1950	10' Samples SH- SILTS: gy, sm pyrtc, sm micac.		
			SH: AA. SH: md-dk gy, sm micac.		
			SH:AA, Predidki gy. SH:AA & smi calc & lmy & smi pyrtc.		
		-2000	SH: dk gy, sm gn-gy, Rrpyrtc.		
	0 5 10 		SH: Pred dk gy, sm micac.		
			SH: (>95%) AA, sm pyrtc. SH: (>95%) dk gy- blk.		
			{KANSAS CITY} LS: VAbndt LS (>70%), gy-tn-wh, sm mot mx-fnx & Wkst-Pkst-fos, sm argil-shly, Trc Gd Por w/NS. SH: gy-blk & gn.	2036' (-724) Kansas City	
		-2050	LS:wh-tn-gy, prt chlky, mx-fnx, sm Pr-Fr vug Por. NS. SH:gn-gy-blk.		
			LS: wh-bf-tn, Pred chlky & mx-fnx, Cherty: wh-cm-bf, shrp, opq.		
			LS: AA, sm 2nd ReX, VC herty: AA. LS: cm-tn, mx- fnx, sm 2nd ReX, sm fos & ool Pkst, sm wh-chlky, Pred Pr- NVP, NS.		
	0 8 5 10	-2100	LS: wh-tn-gy, prt chlky, mx-fnx-sm 2nd ReX, sm ool & fos Pkst, Pred Pr-NVP, NS. sm dn Mdst & Wkst.		
			SH: Incrs gn-gy & blk, sm carb. LS: AA, sm argi∔ shly.		
			SH: (~ 10%) gn-gy & bk. LS: tn-wh, Pred dn-mx-sm fnxln-2nd ReX, SI fos, SI Cherty, sm chky, NS. {STARK} SH: (VAbndt in 2150' spl) bk carb-Vcarb & dk	2139' (-827) STARK SH	
		-2150	gy & sm gn-gy. LS: wh-chlky & th-gy, mx-fnx, sm 2nd ReX, SIC herty, Pred Pr-NVP. VRr Fr Por, VRr FLR, VPr Cut, NFO.		
	0 5 10 wt 9.3 vis 34 CCM 1#		{HUSHPUCKNEY} SH:bk/subcarb-Vcarb&gn-gy.		
	2 -c- 2 -w.9.3		LS:sm wh-ch kly & th-gy, dh-mx-VRrfn-md 2nd ReX, VPr-PrIX & IGr Por, NS.sm mot Pk st w/VPr-PrPor, NS. SH:gn-gy & SILTS:gn-gy, calc & sn dy, Vfn Gr'd & SD CLUST:ht gy, Vfn Gr'd, sinby, calo-sn dy LS.		
	Vis 34 LCM 1# -	-2200	LS: th-gy-wh, mot ool & fos Pkst, mx- fnx & dn.		
	0 3 C 10		LS: dk-It gy-tn-wh mot Wkst- Pkst. {BASE KANSAS CITY} SH- SILTS: Pred dk gy-blk, sm calc & Imy (>50% SH & SILTS) & LS: dk-It gy, Vargil dn Mdst.	2205' (-893) BASE/KANSAS CITY	
			SH-SILTS: gy-bok & gy-bn, sm. calc & Imy. SH:AA-calc & Imy. sm. LS: gy-bk & gy-bn, dn. argil Mdst.		
	СМ 1# с 		SH: AA- calc& Imy. sm LS: gy-bk & gy-bn, dn argil Mdst. SH: gy-blk, micac& pyrtc, sm calc& Imy.		
	0 2 5 10 	-2250	SH: AA.		
			SH:gn-gy&sm.bk.carb. {CHECKERBOARD}LS:tn-wh,dn.Mdst-Wkst,RrPkst, VPr-NVP,sm.chky.	2271' (-959) Checkerboard	
			SH:gn-gy-bok. (LS:AA) SH-SILTS:bt-dk.gn-gy,Rrsndy,Vfn-fn.Gr'd,VPr-PrPor, VRrSd.Clust,NS.		
		-2300	SH-SILTST: AA, Incrs htgn-gy, sndy, Vfn Gr'd, VRr Sd Clust: Itgy, gn-gy, Vfn-fn Gr'd, silty, well cmt"d-Vfribl w/VPr-Pr Por, Trc Fr Por; NS, NF, NC.		
			SH: gy-blk & gn-gy, sm calc & Imy. (<5% Sd Clust: AA, NS.)	2326' (-1014)	WT 9.1+, VIS 37 PV 37, YP 26 WL 10.6, pH 9.0 LCM 1/2#, CI 800
			NS.) {ALTAMONT}LS: cm-tn & gy, sm sndy, Vfn-fn Gr'd, sm prt oomldc to Voomldcw/Fr-Gd oomldc Porw/NS. sm chlky, sm dn Mdst.	ALTAMONT	
	0	-2350	SH: bk subcarb- Vcarb. (VAbndt in 2350' spl) LS: tn-gy-wh, sm dn Mdst- Wkst, sm mot Pkst, VPr- NVP w/NS. sm argil.		
			SH: gn-gy & blk carb. LS: tn-gy-wh, Pred dn Mdst-Wkstw/VPr-NVP, NS & sm argi⊩shly & SH: gn-gy & bk.		
			LS: tn-wh, dn Mdst- Wkst. SH: bk carb- Vcarb. (Shrp Incrs in 2390' spl)		
	Vis 38	-2400	LS: tn-gy & gn-gy, Pred dn Mdst, sm argil, Rrwh-chky. & SH: gn-gy-bk.	2402' (-1090) CHEROKEE	
			{CHEROKEE} SH: blk carb-Vcarb & gn-gy. LS: tn-gy-wh, Pred dn & argil Mdst. SH-SILTS: tt-dk gn-gy & blk carb-Vcarb.	CHEROKEE	
			SILTS: tt-dk gn-gy, sm micac, sm sndy. SH: gn-gy. SH: dk gy-md gy & sm bkk carb.		
		14	SILTS: Hodk, gy, sm. calo-lm y&sndy, Vfn-fn. Gr'd, Vm icac, VPr-NVP, NS.		
	0 2 5 1 0	-2450	SILTS: dk-lt gy, micac, sm pyrto. SH: dk-lt gy, sm micac. SH: dk gy-bk, sm carb.		
			SH: AA, Incrs blk carb. {ARD MORE} LS: tr-bn & wh, dn- mx, Pred Mdst, sm prt chllor VPr- NVP NS	2476' (-1164) ARDMORE	
			chlky, VPr-NVP, NS. SH:blk subcarb-Vcarb, Trcblk vit Coal.		DST #1 VIOLA 2483'-2580' 30-45-45-60 1st Op: 1/4" blo, blt to 1.5"/30 min 2nd Op: No blo,
	0 \$ 5wt 9.4 1 VIS 51	-2500	SH-SILTS: tt-dk gn-gy, Rrmnn-rd, VRrsndy Silts.		2nd Op: No blo, blt to 1"/45 min REC: 62' Ospt'd M TOOL SPL: 100% Ospt'd M IHP: 1225
			SH: Incrs VC, gn-gy & mrn-rd & ambr-ye∔gn, sm pyrtc, sm blk carb, sm Imy & calc.		IF P: 7.6-19.8 ISIP: 358 FF P: 20.7-34.7 FSIP: 358 FHP: 1214
			SH: AA, Incrsgn-gy. SH: AA, Incrsdkgy-bk.		BHT: 98.7 F (Charts indicate formation damage) DST #2 VIOLA
		-2550	SH: AA, & It-dk gn-gy, sm pyrto, sm mrn-rd. SH: gy-blk, sm subcarb gy-bn.		2482'-2584' 30-45-45-60 1st Op: 1/2" blo, BOB in 16.25 min 2nd Op: Wk
	⁰ SIR S (1248) CFS (1253) SIS (1253) SIS (1258) CFS (1258)		SH: gn-gy, gy-bn, Rr bik carb, sm pyrtc. SH: VC, gn-gy & gy-bn & mrn-rd, Rr bik carb. SH: Pred It-dk gy-bn & bik, Rr bik carb, sm phos- FLR, sm	WT 9.4+, VIS 55 PV 34, YP 24 WL 9.4, pH 9.0 LCM 1#, CI 900	surf blo, BOB in 20 min REC: 349' TF: 105' M 124' SIWCM w/ few O spks (400' M) 000' M)
			Odor & VC SH. {VIOLA} (2580' (-1268) 20 min spl}~5% <10% CHERTY DOLO: mx-VfnxIn, msucrow/Pred Pr-Frvisbl Por: mIX Por w/spt'd-satbrt FLR & Fr SFO-It gsy F.Oil w/Fr Odor; & CHERT: Pred shrp, frsh-SI wthr'd, sm w/mFrd's & Edgs	2579' (-1267) VIOLA (Fr SFO) 2584' (-1272)	(10% W, 90% M) 120' SIWCM w/ few Ospks (16% W, 84% M) IHP: 1217 IF P: 11.2-105
		-2600	w/brt FLR & SFO-GB. <5% Dolo & Chert in dry spl: DOLO: cm-bf, mx-fnxln. (2580' 40 min spl} > 10% <20% Incrs VIOLA, ~70% DOLO: cm-bf w/sm Tn STN, mx- Vfnxln, ms ucro & sm dn, Pr-Fr IX Por, spťd-subs at STN & FLR, VR rs at STN & brt FLR, Fr SFO-lt & gsy, sm silic- dn Dolo, VC HER TY: (~30%) cm-bf, prt wth/d-	RTD {Fr-Gd SFO) VESS OIL CORP	ISIP: 358 FFP: 108-174 FSIP: 361 FHP: 1213 BHT: 97.5 F
	0 5 10 <u>+</u>		semiTripolo, sm shrp- prt frsh & prt wthr'd, sm IGr Por & mFracw/FLR- SFO- Cut- Frly Strng Odor. (2580' 60 min spl} Deors VIOLA: Dolo & Chert, AA. (2584' Drlg spl} <10% VIOLA: DOLO (~60%) cm-bf, mx- Vfnxln, Pred silic & Cherty w/Pr- Fr mIX Por, mFrac Por w/spt'd- subsat FLR, STN & Fr SFO, SI Odor. (2584' 20 min spl} ~80% dn	KOOG LER A 302 500' F EL 330' F SL Sec 20-26S-05E BUTLER CO., KS API#15-015-23970	(Charts indicate formation damage)
''					
			silic Dolo, mxIn & dolomo Chert w/VPr- Prvisbl Por: mIX Por, IGr Por, semiTripolo & dolomo Chert. & mFrds w/FLR, It STN, SI SFO. ~20% sucro DOLO: bf-rich Tn STN, VfnxIn- fnxIn, sucro w/Fr- Gd IX & vug Porw/subsat- sat brt FLR & rich Tn STN & Fr- Gd SFO- Gsy, Fr- Gd Cut, Frly strng Odor (~70% Viola: Dolomo Chert & Cherty Dolo in 20 min spl). (2584' 40 min spl} <10% Viola, ~50%		
		-2650	Por, IGr Por, semiTripolc & dolomo Chert. & mFrds w/FLR, It STN, SI SFO. ~20% sucro DOLO: bf-rich Tn STN, VfnxIn- fnxIn, sucro w/Fr- Gd IX & vug Porw/subsat- sat brt FLR & rich Tn STN & Fr- Gd SFO- Gsy, Fr- Gd Cut, Frly strng Odor (~70% Viola: Dolomo Chert & Cherty		

ATTACHMENT TO ACO-1

Koogler A-302 500'FEL, 330'FSL Sec. 20-26S-05E Butler County, KS

IHP: 1217

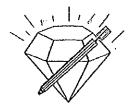
.

	#302 Samples	#302 Log Tops
	KB 1312	KB 1312
LANSING	1726 -414	1623 -311
K C	2036 -724	2034 -722
STARK	2139 -827	2137 -825
B/KC	2205 -893	2205 -893
CHEC/BD	2271 -959	2269 -957
ALTAMONT	2326 -1014	2319 -1007
CHEROKEE	2402 -1090	2399 -1087
ARDMORE	2476 -1164	2475 -1163
VIOLA	2579 -1267	2579 -1267
SIMPSON	2595 -1283	
SIMP SAND	2595 -1283	
PTD	2604 -1292	2584 -1272

DST #1 2483-2580 Times: 30-45-45-60 1 st open: ¼" blow, built to 1 ½" in 30 r 2 nd open: No blow, built to 1" in 45 min Rec: 62' mud w/few oil spots. Charts Tool: Tool: 100% Mud with a few oil spots.	indicate slight formation damage					
IFP: 7.6 – 19.8	FFP: 20.7 – 34.7					
ISIP: 358	FSIP: 358					
IHP: 1225	FHP: 1214 TEMP. 98.7 degrees F					
DST#2 2482-2584 Zone: Viola (2579-2584) Times: 30-45-45-60 1 st open: ½" blow built to BOB in 16 ¼" min. 2 nd open: Weak surface blow built to BOB in 20 min. Rec: 349' TF: 105' mud + 124' SIWCM w/few oil specks (10% W, 90% M) + DC						
	% W, 84% M). Charts indicate formation damage.					
IFP: 11.2 – 105	FFP: 108 - 174					
ISIP: 358	FSIP: 361					

FHP: 1213

TEMP: 97.5 degrees F



DIAMOND TESTING, LLC P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

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kooglera302dst1

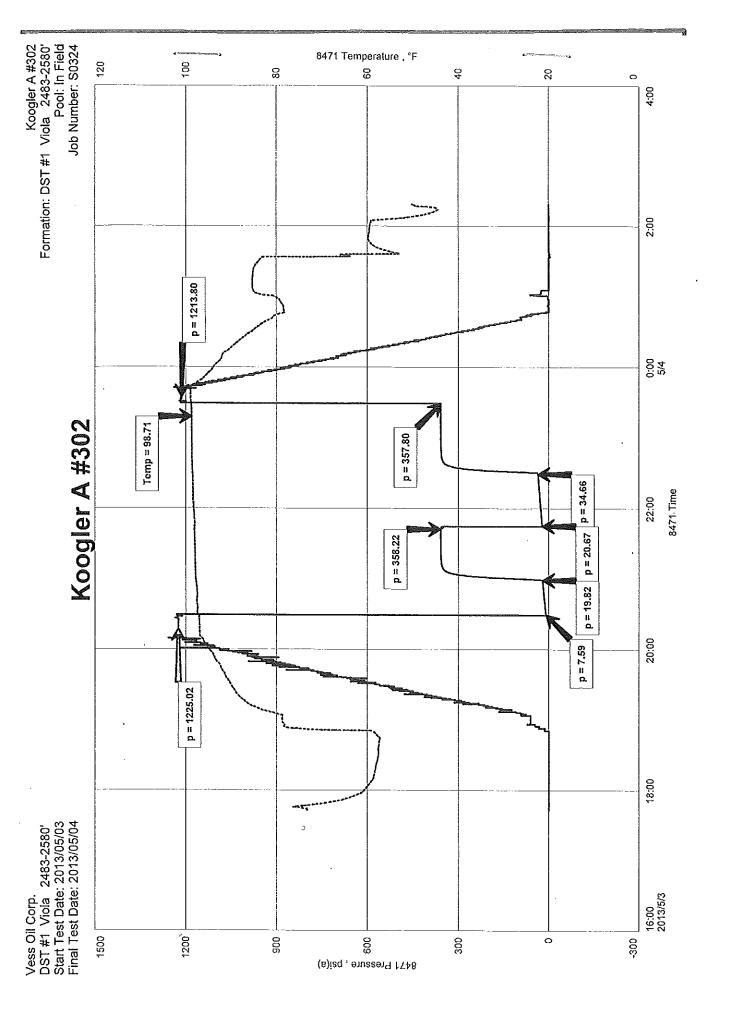
Company Vess Oil Corporation	Lease & Well No. Koogler "A" No. 302				
Elevation <u>1312 KB</u> Formation_ <u>Viola</u>	_ Effective Pay				
Date <u>5-3-13</u> Sec. <u>20</u> Twp. <u>26S</u> Range					
Peger L Mertin	iamond Representative	1			
Formation Test No1 Interval Tested from	2,483 _{ft. to} 2,580 _{ft.}	Total Depth2,580 ft			
Packer Depth2,478 ft. Size6 3/4 in.		ft. Sizein.			
Packer Depth2,483 ft. Size6 3/4 in.		ft. Sizein.			
Depth of Selective Zone Setft.					
Top Recorder Depth (Inside) 2,464 ft.	Recorder Number	8471 Cap. 10,000 psi.			
Bottom Recorder Depth (Outside) 2,577 ft.	Recorder Number	0000			
Below Straddle Recorder Depthft.	Recorder Number	Cappsi.			
Drilling Contractor C & G Drilling Company - Rig 1	Drill Collar Length	119 ft I.D. 2 1/4 in			
Mud Type Chemical Viscosity 55	Weight Pipe Length	ft I.Din.			
Weight 9.4 Water Loss 9.4 cc.	Drill Pipe Length	2,331 ft I.D3 1/2 in.			
Chlorides900_P.P.M.	Test Tool Length	33 ft Tool Size 3 1/2-IF in.			
Jars: Make <u>Sterling</u> Serial Number <u>3</u>	Anchor Length 39' perf. w/5	8' drill pipe Size 4 1/2-FH in.			
Did Well Flow? No Reversed Out No	Surface Choke Size1	n. Bottom Choke Size ^{5/8} in.			
	Main Hole Size 7 7/8 j	n. Tool Joint Size 4-FH in.			
Blow: 1st Open: Weak, 1/4 in. blow increasing to 1 1/2 ins. in 30 mins. No blow 2nd Open: No blow increasing to 1 in. in 45 mins. No blow back during					
Recovered 62 ft. of slightly oil specked mud = .305040 bbls. (Grind of	out: 100%-mud w/a few oil specks)				
Recoveredft. of					
Recoveredft. of					
Recoveredft. of	· · · · · · · · · · · · · · · · · · ·				
Recoveredft. of	· · · · · · · · · · · · · · · · · · ·				
Recoveredft. of					
Remarks Tool Sample Grind Out: 100%-mud with a few oil spe	cks				
9:20 D M	44.00 P.M				
Time Set Packer(s) 8:30 P.M. Time Started off Botton		num Temperature99°			
Initial Hydrostatic Pressure(A)	1225 P.S.I.				
Initial Flow PeriodMinutes(B)	8 P.S.I. to (C)	20 P.S.I.			
Initial Closed In PeriodMinutes 45 (D)	358 P.S.I.	<u> </u>			
Final Flow PeriodMinutes 45 (E)	21 P.S.I to (F)	³⁵ P.S.I.			
Final Closed In PeriodMinutes 60 (G)	358 P.S.I.				
Final Hydrostatic Pressure(H)	<u>1214</u> P.S.I.				



DIAMOND TESTING ROGER D. FRIEDLY - TESTER CELL 620-793-2043

Company Name Contact Well Name Unique Well ID Surface Location Field		Vess Oil Corp. Casey Coats Koogler A #302 Viola 2483-2580 E Butler County El Dorado		
Test Inform	nation		Job Number Test Unit	S0324 3
			Representative Well Operator Report Date	-
Test Type		Drill Stem Test		Jacob McCallie
Formation Test Purpose Well Fluid Type H2S	DST #1	Viola 2483-2580' Initial Test 01 Oil	Qualified By	Roger Martin
Start Test Date		2013/05/03	Start Test Time	17:43:00
Final Test Date		2013/05/04	Final Test Time	02:19:00
Remarks				
RECOVERED: 62'	SLOSM	100% M (few oil	specks)	

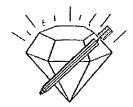
TOOL SAMPLE: 100% M (few oil specks)



COMPANY Vess Oil Corporation

LEASE AND WELL NO Koogler "A" No. 302 SEC. 20 TWP. 26S RGE ភ ភូម

5E TEST NO. 1 DATE 5-3-1.



DIAMOND TESTING, LLC P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

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kooglera302dst2

Company Vess Oil Corporation	Lease & Well No. Koogler "A"	No. 302
	Effective Pay	
Date 5-4-13 Sec. 20 Twp. 26S Range		
Bogori Mortin	Piamond Representative	
Formation Test No2 Interval Tested from	2,482 ft to 2,584 ft	Total Depth2,584_ft
Packer Depth2,477 ft. Size6 $\frac{3/4}{10}$ in.	· · · · · · · · · · · · · · · · · · ·	ft. Sizein.
Packer Depth2,482 ft. Size6 $3/4$ in.		ft. Sizein.
Depth of Selective Zone Setft.		(I. UI26(II.
Top Recorder Depth (Inside) 2,463 ft.	Recorder Number	8471 Cap. 10,000 psi.
Bottom Recorder Depth (Outside) 2,581 ft.	Recorder Number	0054 5 700
Below Straddle Recorder Depthft.	Recorder Number	
Drilling Contractor C & G Drilling Company - Rig 1	Drill Collar Length	119 ft I.D. 2 1/4 in.
Mud TypeChemicalViscosity55		ft I.Din.
Weight 9.4 Water Loss 9.4 cc.		2,330 ft I.D. 3 1/2 in.
Chlorides 900 P.P.M.	Test Tool Length	33 ft Tool Size 3 1/2-IF in.
Jars: Make <u>Sterling</u> Serial Number <u>3</u>		drill pipe Size 4 1/2-FH in.
Did Well Flow? <u>No</u> Reversed Out <u>No</u>		Bottom Choke Size 5/8 in.
	Main Hole Size7 7/8 in	
Blow: 1st Open: Weak, 1/2 in. blow increasing. Off bottom of bucket in 16 1/	4 mins. No blow back during shut-in.	
2nd Open: Weak surface blow increasing. Off bottom of bucket in 20 r		
Recovered 105 ft. of mud = 1.138200 bbls. (Grind out: 100%-mud) Recovered 124 ft. of ^{slightly} water cut mud w/a few oil specks = 1.344	1160 bble (Grind out: 10% water: 00% m	
100		
	5013. (Onito Out. 1076-Water, 0476-1100) On	
	······································	
Recoveredft. of		
Recoveredft. of Remarks Tool Sample Grind Out: 25%-water; 75%-mud with a	few oil specks	
Remarks root of the orange of a contract of the orange of		
Time Set Packer(s) 10:22 A.M. Time Started off Botton	n1:22 P.M Maxim	um Temperature 98°
Initial Hydrostatic Pressure(A)	1217 P.S.I.	• • • • • • • • • • • • • • • • • • • •
Initial Flow PeriodMinutes 30 (B)	11_P.S.I. to (C)	¹⁰⁵ P.S.I.
Initial Closed In PeriodMinutes45(D)	³⁵⁸ P.S.I.	
Final Flow PeriodMinutes 45 (E)	108 P.S.I to (F)	174 P.S.I.
Final Closed In PeriodMinutes 60 (G)	361 P.S.I.	
Final Hydrostatic Pressure(H)	1213 P.S.I.	

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DIAMOND TESTING ROGER D. FRIEDLY - TESTER CELL 620-793-2043

Company Name	Vess Oil Corp.
Contact	Casey Coats
Well Name	Koogler A #302
Unique Well ID	DST #2 Viola 2482-2584'
Surface Location	SEC 20-26S-5E Butler County
Field	El Dorado
	J

1.014			E1 D01000		
Test Informatior	ı			Job Number Test Unit	S0325
<u>i oot intornation</u>	<u>.</u>			Representative	Jacob McCallie
				Well Operator	Vess Oil Corp.
				Report Date	2013/05/04
					2010/00/04
Test Type		Dril	l Stem Test	Prepared By	Jacob McCallie
Formation	DST #2	Viola	2482-2584'	Qualified By	Roger Martin
Test Purpose			Initial Test	-	•
Well Fluid Type			01 Oil		
H2S					
Start Test Date			2013/05/04	Start Test Time	08:05:00
Final Test Date			2013/05/04	Final Test Time	16:24:00

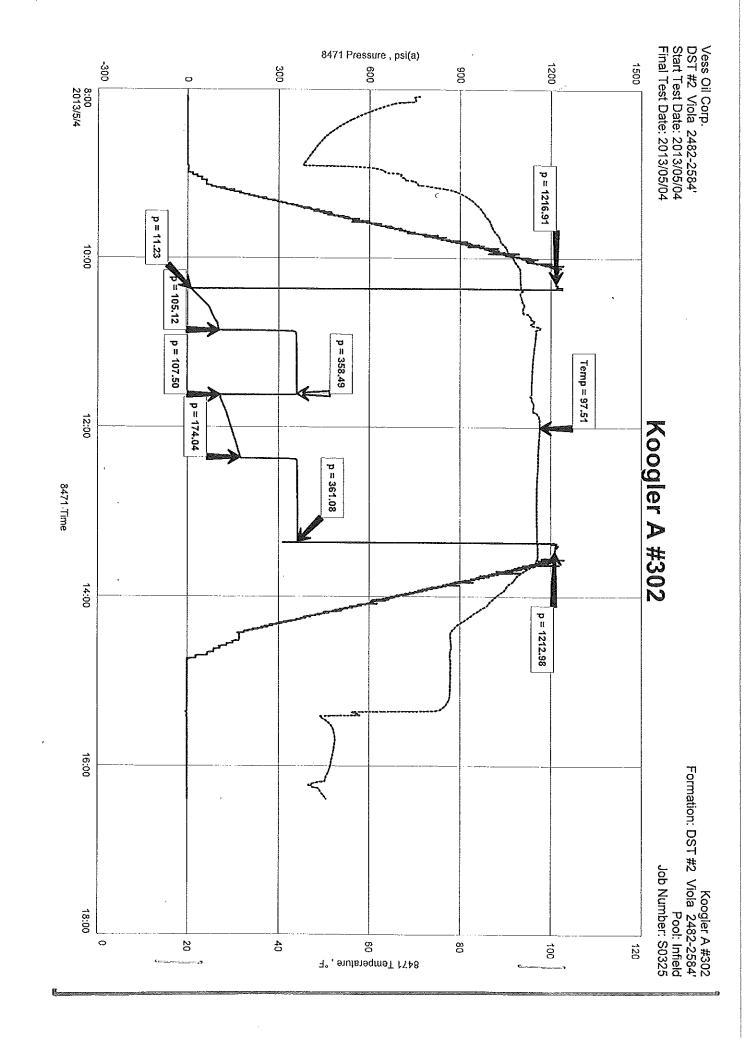
Start Test Date	2013/05/04 Start Test Time	08:05:0
Final Test Date	2013/05/04 Final Test Time	16:24:0

Remarks

RECO	OVERED:		
	105'	M	100% M
DC	124' 120'	SLWCM SLWCM	10% W 90% M (few oil specks) 16% W 84% M (few oil specks)
	349'	TOTAL FLUID	

PH: 7 RW: .9 @ 45 degrees F Chlorides: 10,000 ppm

TOOL SAMPLE: 25% W 75% M (few oil specks)



TEST NO. 2 DATE 5-4-1: 5E RGE. 26S TWP. 20 SEC 302 LEASE AND WELL NO Koogler "A" No.

COMPANY Vess Oil Corporation

	CONSOLID Oil Well Servic MAY 19 & 2013			REMIT ed Oil We Dept. 9 P.O. Box on, TX 7	ell Servic 970 4346	·	620	MAIN OF P.O. Bo Chanute, KS 6 620/431-9210 • 1-800/467- Fax 620/431-	
INVOICE							Inv	oice #	258472
Invoice Da	ate: 04/30/	2013 Т	erms: 0/0	/30,n/	30			Pag	je 1
1700 WICH1	OIL CORPORA WATER FRONT ITA KS 6720 682-1537	PKWAY B	LD 500		KOOGL 38600 20-26 04-30 KS	-5E	302		
Part Numbe 11045 1102 1107 4106		CALCIUM (FLO-SEAL	" CEMENT CHLORIDE	(50#)		187.0 480.0 140.0)0 1		Total 2795.65 355.20 329.00 320.00
467 CEME 467 EQUI	cription ENT PUMP (SU IPMENT MILEA . BULK DELIV	GE (ONE)	WAY)			Hour 1.(7.(1.()0)0	Price 825.00 4.00 350.00	Total 825.00 28.00 350.00
	• •								
			•						
							`		
Parts: Labor: Sublt:	3799.85 Fr .00 Mi		•	00 Tax 00 Tot 00 Cha	al:	248 5251	3.90 AR 1.75 .00		5251.75
Signed							Date		
BARTLESVILLE, OK 918/338-0808	EL DORADO, KS 316/322-7022	EUREKA, KS 620/583-7664	PONCA CITY, OK 580/762-2303	OAKLEY, 785/672-8	KS OTT/ 322 785/2	AWA, KS 242-4044	THAYER, KS 620/839-5269	GILLETTE, WY 307/686-4914	CUSHING, OK 918/225-2650





TICKET	38	<u>600</u>

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LOCATION 180

Store FOREMAN Jacob

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

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FIELD TICKET & TREATMENT REPORT CEMENT

020 401 0210									
DATE	CUSTOMER #	WELL N	AME & NUME	ER	SECTION	TOWNSHIP	RANGE	COUNTY	
4-30-13	8511	Koogle	~A +	F302	20	26	5E	Betler	
CUSTOMER	-1			Salty		和新闻的基本的建立		a same the pass	
Vess.	01			marting	TRUCK #	DRIVER	TRUCK #	DRIVER	
MAILING ADDR				Xa	467 - 5	Jon		11	
1700 vate	stront Po	ackney Blo	lisa	SE	502	Stere			
CITY			IP CODE	Ray	702_	Jacob			
Wichto			6726						
JOB TYPE <u>Su</u>	dace B	HOLE SIZE 124	4		1266	CASING SIZE & V	veight_ <u>&%</u> _		
CASING DEPTH	1256	DRILL PIPE		TUBING	•••••		OTHER	······································	
SLURRY WEIG	нт <u>1410 </u>	SLURRY VOL		WATER gal/s	k	CEMENT LEFT in	CASING		
DISPLACEMEN		DISPLACEMENT F	×si <u>,3∞</u>	MIX PSI 100	<u>, </u>	RATE 26pm		······································	
REMARKS:	afty m	earting, Mi	Xed_	150 5	ks da	ss Ar :	<u>3/.cc, 7</u>	4 10 ps/	
displace	ed with	n Jist	<u>joi c</u>	tid no	+ cira	culater a	rement	Ban	
1" on backade tourse comment at 15 to mixed 37 sks									
class A 34/10 Poly curcillating remark to Surface									
	· · · · · · · · · · · · · · · · · · ·	·····							

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		TOTAL
54015		PUMP CHARGE		82500
5496	7	MILEAGE	4,00	28,00
5402	1	min bulk delivery		350,00
1104 S	187	class A	14,95	2795.65
1102	480	Calcium chloride	. 74	355,20
1102		Poly - Flake	2,35	329,00
4106	<u> </u>	85/8 Basket	320,00	320.00
4106				
·	· · · · · · · · · · · · · · · · · · ·			
	· · · · · · · · · · · · · · · · · · ·			
-				
			Subtotal	5002,89
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			SALES TAX	248.90
Duvé- 0797			ESTIMATED	Local AE
Ravin 3737	<i>•</i>	858418	TOTAL	15001.10
AUTHORIZTION_	(otton		DATE	<u>, </u>

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

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ter ter sta							
	CONSOLII		<i>REMIT TO</i> Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346		F Chanut 620/431-9210 • 1-80	AIN OFFICE P.O. Box 884 e, KS 66720 00/467-8676 20/431-0012	
INVOIC	CE					Invoice #	258604
Invoid	ce Date: 05/08		s: 0/0/30,n/			raaaaaaaaaa Pa	ge 1
] V	VESS OIL CORPOR L700 WATER FRON VICHITA KS 672 (316)682-1537	IT PKWAY BLD	500		SR A #302	2	
Part M 1126A 1110A 1144G 4104 4130 4454	Number	Description THICK SET C KOL SEAL (5 MUD FLUSH (CEMENT BASK CENTRALIZER 5 1/2" LATC	EMENT 0# BAG) SALE) ET 5 1/2"		Qty 125.00 650.00 500.00 1.00 6.00 1.00	Unit Price 19.2000 .4600 1.0500	Total 2400.00 299.00 525.00 276.00 288.00 254.00
4253			ER SHOE61/23	6	1.00	1584.0000	1584.00
603 603 681	Description CEMENT PUMP EQUIPMENT MILH MIN. BULK DELJ)		Hours 1.00 .00 1.00	Unit Price 1030.00 4.00 350.00	Total 1030.00 .00 350.00
					•		
	,				•		
Parts Labor Sublt	: .00 M	Freight: Aisc: Supplies:	.00 Taz .00 Tot .00 Cha	:al:	7374.	50 AR 50 O 00	7374.50
Signe	a					Date	

 Signed______
 Date______

 BARTLESVILLE, OK
 EL DORADO, KS
 EUREKA, KS
 PONCA CITY, OK
 OAKLEY, KS
 OTTAWA, KS
 THAYER, KS
 GILLETTE, WY
 CUSHING, OK

 918/338-0808
 316/322-7022
 620/583-7664
 580/762-2303
 785/672-8822
 785/242-4044
 620/839-5269
 307/686-4914
 918/225-2650

	CNTER	<u>ខ</u> ា	TICKET NUMB	FR 33	8603
CONSOLIDATE!		5W	LOCATION_4		
Oli Wall Services, LL			FOREMAN J		form
	FIELD TICKET & TRE	ATMENT REP		e'	
PO Box 884, Chanute, KS 66720	CEME		15-015-2	3972-00	Cer,
620-431-9210 or 800-467-8676	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
Drift		20	21.	SE	Butter
<u>S-4-13 18211 180</u> CUSTOMER	<u>Dele A #302</u>				
Vess Di	meetfin	TRUCK#		TRUCK #	DRIVER
MAILING ADDRESS		623 "	Jett,		
1700 waterfort park	ney B16.500 23	681	Mark		├ ───── │
CITY STATI		702	Jacob	!	
wichita ks	67204	3 2 - 01	CASING SIZE & V	1	15.5
JOB TYPE LONG Stong B. HOLE		этн <u>Э 2.584</u>	CASING SIZE & V	OTHER 12-FF	store Toilt
	_ PIPETUBING		CEMENT LEFT in	<u></u>	
		al/sk	RATE 6.38	одалю <u>те:</u> Ди	
	ACEMENT PSI MIX PSI	30 min of	Pop pade		, curculate
			bl ulder	Mix 125	SKS
30 min, pump soby-		Vag with	1.32 hb	1 land	ng Pkig
thick set 5% kol		$\frac{1}{1}$	a Jul Ex	<u> </u>	, , , , ,
at 1150 psi check	- +- locat -+ locat dd Not			· · · · · · · · · · · · · · · · · · ·	
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ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CODE		PUMP CHARGE	1-001	1030,00
5401		MILEAGE	4,00	NK
5406			350,00	350,00
5407	12.		19,20	2400,00'
1126A	125	thick set	.46	299.00
1100 A	650	kol-seal	1,25	525,00
11445	500	Dv 1100	276.00	276,00
4104		S1/2 Basket (meathertord)	48,00	288,00
4130	6	5/2 centraire		254,00
4454		5/2 Latch Jown plug	254,00	
4253		SIR Type A packer Shoe	1584,00	1584,00
1000				
			Subtotes	7008,00_
			SALES TAX	368.50
Ravin 3737		- 858004	ESTIMATED TOTAL	131450
	N Barry book) TITLE	DATE	
AUTHORIZTIO	N VULANTE			

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

TICKET NUMBER

FOREMAN Datas

38603

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CONSOLIDATED Oil Well Services, LLC

PO Box 884, Chanute, KS 66720

FIELD TICKET & TREATMENT REPORT

620-431-9210 or 800-467-8676			CEMENT 2		15-015-23922 2010		
DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY
5-4-13	82.11	KOgler A th	1302	2.2	71	SL	Butter
CUSTOMER		<u> </u>					
				TRUCK #	DRIVER	TRUCK#	DRIVER
MAILING ADDRI	ESS			Gala	Jet !!		
120 NO	Jack all	palar RUSS		<u>759</u>	Mar 12_		
ĊſŢŶ	-	STATE ZIP CODE	\mathbf{v}	2.52	TRACES		
MCGL		1.5 6726					Ì
JOB TYPE	n. drack	NOLE SIZE 27/2	HOLE DEPTH	1322584 casing size & weight 326 $E.S$			
CASING DEPTH			TUBING		OTHER <u>7.2 - 17 - 5 Jove 7.</u>		
SLURRY WEIGHT			WATER gal/sk		CEMENT LEFT IN CASING 12 4		
DISPLACEMENT			MIX PSI		RATE <u>G. 32 Man</u>		
REMARKS: South much come the half Burry num perfor Clar Concerts							
		Milline Koor	Sel Pu	Har Sh	St. G. Lat	14 125	$\leq 1 < 5$
Hier I	1.1.2.1	a Isaal Aradisa	Land Carl	5 10. 14 C		1 La ela	
$\alpha \in \Pi^{+} \oplus$	ich Cl	web 11, 1 41	. d. d. h	01.1			1 2 1
	t t		V^{r})	<u> </u>			

ACCOUNT **DESCRIPTION of SERVICES or PRODUCT** UNIT PRICE TOTAL QUANITY or UNITS CODE $< \overline{u(\gamma)}$ 10 200 200 PUMP CHARGE 4. . . . 1.1.1 $\leq h$ · `, MILEAGE 38 1623 IJ, 5._3 STONES 5.0 1. 2 1 Д. 19.20 2462.62 1126 A ≤ -4 K. 1 Ċ 1. 299.0 1120 / \$46 ۲.... 200 11_2 D_{ν} 1440 3 165 <u>525,....)</u> 1101 11 / J -----276.00 É.-. 276.00 .< 3/2 11 . . . 4130 258.00 1 6 $\leq \zeta$ 51/ LUSA 254 00 Longla 251,000 51/ 1504, pp 425.3 Tir. Å 1. Ar 1521.00 $\leq 1 \leq 1$ 7008,00 SALES TAX Ravin 3737 ESTIMATED TOTAL a an an an a TITLE DATE AUTHORIZTION

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form