

Customer Russell Oil, Inc.	Lease No.	Date 11-7-13	
Lease Dirts	Well # 27-1		
Field Order # 4395	Station Pratt, Kansas	Casing 5 1/2 15.5Lb	Depth 4711ft
Type Job C.N.W. - Two Stage Long string	Formation	County Logan	State Kansas
		Legal Description 27-155-35W	

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 5 1/2 15.5Lb	Tubing Size 4 1/2	Shots/Ft 165 sacks	From .75	To 15.3	AA2 with .88 Fluid Loss, 258 Defoamer, 108 salt, 5Lb Silsonite, 25Lb Cell flake	RATE 1.36 CU.FT./SH.	PRESS 15 Min.
Depth 4711 Feet	Depth	From	To	To	Max Avg	Min 10 Min.	ISIP 5 Min.
Volume 11.2 Bbl	Volume	From	To	To	HHP Used		Annulus Pressure
Max Press	Max Press	From	To	To	Gas Volume 52 Bbl. Drilling mud		Total Load

Customer Representative Todd	Station Manager Kevin Gordley	Treater Clarence R. Messick
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Service Units	37,216	77,686	19,905	19,960	21,010
Driver Names	Messick	Young	Kevin		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30					Truck on location and hold safety meeting.
3:50					H2 Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down • Baffle screwed into collar and a total of 112 Joints new 15.5Lb./Ft 5 1/2" casing. A Turbolizer was installed on collars # 2, 4, 7, 10, 13, 16, 19 and # 55. A Basket was installed above collar # 53. A DV Tool was installed in collar # 54 or 2442 Feet down.
6:15					Casing in well. Circulate and rotate for 1 hour.
7:15	400			6	Start Super Flush II.
	400		24	5	Start Fresh water spacer.
	400		29	5	Start mixing 165 sacks AA2 Blend cement
	0-		69		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open well.
7:34	150			6.5	Start Fresh water Displacement
			60	5	Start Drilling mud Displacement
			85		Start to lift cement
7:55	400		112		Plug down.
	2000				Pressure up.
					Release pressure Float Shoe held.
8:02					Release Opening Device for DV Tool.
8:14	700				Open DV Tool.
					Heat up well for rig to circulate

Customer Russell Oil, Inc.	Lease No.	Date 11-7-13
Lease Dirks	Well # 27-1	
Field Order # 4395	Station Pratt, Kansas	Casing 5 1/2
	Depth 2442	County Logan
Type Job C.N.W. - Two Stage Long string	Formation	State Kansas
		Legal Description 27-155-35W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5 1/2	Shots/Ft 350	350	ACON Blend cement	RATE 25	PRESS T. Cell Plate	ISIP 5 Min.	
Depth 2442	Depth	From	To	380 Perchloride	Max			
Volume 58 Bbl.	Volume	From	To	11.6 Lbl / Gal, 16.75 Gal	Min	2.77 cu. ft. / st.	10 Min.	
Max Press	Max Press	From	To		Avg		15 Min.	
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 2442	Packer Depth	From	To	Flush 58 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Todd	Station Manager Kevin Gordley	Treater Clarence R. Messich
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Service Units 37,216	77,686	19,905	70,959	19,860
Driver Names Messich	Young			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Stop circulating.
8:25	200			6	Install Plug Container with Closing Plug in it
	-0-		173		Start mixing 350 sacks A con Blend cement
					Stop mixing. Shut in well. Wash pump and lines.
	150				Release Closing Plug. Open well.
9:09	500		58		Start Fresh water Displacement
	1200				Plug down. Circulated 60 Bbl. cement to pit.
					Pressure up and close DH Tool.
					Plug Rat and Mouse holes.
					Wash up pump truck.
10:15					Job complete.
					Thank You.
					Clarence, Steve, Tim, Henry