







Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING**

**Job Log**

Customer:	Merit Energy	Cement Pump No.:	38117, 19919 19Hrs.	Operator TRK No.:	96816	
Address:	sublette.invoices@meritenergy.com	Ticket #:	1718 17219 L	Bulk TRK No.:	14355, 37724 Oscar	14355, 37724
City, State, Zip:	AFE# 62901	Job Type:	Z42 - Cement Production Casing			
Service District:	1718 - Liberal, Ks.	Well Type:	OIL			
Well Name and No.:	Emma Ward #1	Well Location:	35,27,34	County:	Haskell	State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
50/ 50 Poz	120	6% Gypsum, 10% Salt, .5% C-17, 5# Gilsonite, 1/4# Defoamer, 1/4# Celloflake	14355, 37724 Oscar	Front	Back
50/50 Poz	170	6% Gypsum, 10% Salt, .5% C-17, 5# Gilsonite, 1/4# Defoamer, 1/4# Celloflake	14355, 37724	Front	Back
50/50 Poz	50	Rat & Mouse		Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Tail Stage 1:</b>	13.6	1.57	7.18	188.4	TT Man Hours:	61.5
<b>Tail Stage 2:</b>	13.6	1.57	7.18	266.9	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
19:00							ON LOCATION & SAFETY MEETING
23:00							RIG UP & WAIT
2:15 AM							RIG TO CIRCULATE
3:52 AM							PRESSURE TEST TO 2000PSI
3:54 AM	3.2	11.9				180	PUMP 500GAL MUD FLUSH
4:05		13.9 slurry					PLUG RAT & MOUSE W/ 50SX
4:17	5	33.5 slurry				210	PUMP TAIL 120SX @ 13.6# / STAGE 1
4:26 AM							SHUTDOWN / DROP PLUG / WP
4:35		10					DISPLACE W/ 17.5BBL H2O
		20					DISPLACE W/ 109.5BBL MUD
	8.1	30				260	
	8	40				260	
	8	50				310	
	8	60				290	
	8	70				310	
	8	80				310	
	8.2	90				300	
	8	100				310	
	8	110				450	
5:03	8	117				540	SLOW RATE TO 2.0BPM @ 210PSI
	2	120				240	
5:09	2	127				340	LAND PLUG / PRESSURE UP TO 1500PSI
5:18							RELEASE BACK / DROP OPENING TOOL

Size Hole	7 7/8"	Depth	5535'		TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 17#	Depth	5515'	New / Used	DV Tool	4720'	Depth
Landing Press. 1	245.3psi	Depth			Retainer		Depth
Shoe Jt.	40.23'	Type			Perfs		CIBP

Customer Signature:	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	2/8/2019



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Service District:	1718 - Liberal Ks	Well Type:	OIL		
Well Name and No.:	Emma Ward #1	Well Location:	35,27,34	County:	Haskell State: Ks

Time (am/pm)	BPM	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
5:35							PUMP OPENING TOOL W/ 800PSI
5:45							RIG CIRCULATES / TILL WATER ARRIVES
	4.3	47.5 slurry				140	PUMP 170SX TAIL @ 13.6# / STAGE 2
11:42							SHUTDOWN / DROP CLOSING PLUG
11:44		10					DISPLACE
		20					
	6.5	30				130	
	6.8	40				130	
	6.8	50				130	
	6.9	60				120	
	6.8	70				120	
	6.8	80				120	
	6.8	90				400	
	6.8	99				590	SLOW RATE TO 2.0BPM @ 400PSI
	1.9	100				630	
12:15	1.9	109.5				590	LAND PLUG / PRESSURE UP TO 1570PSI
							RELEASE BACK — CLOSING PLUG DID NOT HOLD
							PRESSURE UP TO 1670PSI — RELEASE BACK
							CLOSING PLUG HELD
							JOB COMPLETE

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Merit  
Emma Ward #1

