



Cement Job Summary

Job Number:		Job Purpose		02 Production/Long String	
Customer:	Linn Energy			Date:	12/16/2016
Well Name:	Tyrell		Number:	3-17	
County:	Finney	City:	State: Kansas		
Cust. Rep:	Phone:		Rig Phone:		
Legal Desc:			Rig Name:	Quest Drilling#211	
Distance	50 miles (one way)		Supervisor	Aldo Espinosa	

Employees:	Emp. ID:	Employees:	Emp. ID:
ALDO ESPINOZA			
CRISTIAN CAMACHO			
GERARDO BURCIAGA			
Equipment:			
984-			
1071-545			
1080-842			

Well Information						
Open Hole Section						
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	7 7/8	10%	3700	4,900	TAIL CEMENT	
OPEN HOLE	7 7/8	30%	1800	3,700	LEAD CEMENT	
OPEN HOLE	7 7/8			1,800		
OPEN HOLE	7 7/8					
Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
PREVIOUS CASING	8 5/8	24	8.097	J-55	0	1,800
TOTAL CASING	5 1/2	15.5	4.892	J-55	0	4,874
SHOE	5 1/2	15.5	4.892	J-55	4,827	4,874

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	HIVIS SWEEP	12	8.50	n/a	n/a	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	230	11.74	2.80	16.62	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	115.0	lbm	
CLC-KOL	KOL-SEAL	3	lb/sk	690.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Tail 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	120	13.60	1.92	9.56	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.47	% BWOC	56.4	lbm	
CLC-KOL	KOL-SEAL	5	lb/sk	600.0	lbm	
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	30.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	2% KCL Water	111.9	8.33	n/a	n/a	

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Cust. Rep:		Phone:		Rig Phone:		0
Distance			50 miles (one way)		Supervisor	Aldo Espinosa
TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS	
AM/PM	CASING	ANNULUS	VOLUME	RATE (BPM)		
12/15/2016					DATE	
945pm					on location	
1030pm					rig up	
100pm					safety meeting	
1120pm	2000			1	pressure test lines 2000 psi	
1135pm	160		12	3	12 bbl havis sweep	
1155pm	60		115	4	230sk/115 bbl lead cement	
12-16 1240am	40		41	4	120sk/41 bbl tail cement	
120am				5	wash pumping lines to pit	
125am				4	release plug, start displacing	
132am	20		20	6	20 bbl gone	
142am	40		20	6	40 bbl gone	
152am	20		10	3	50 bbl in to displacement	
				0	pumps lost prime , ice building up	
					on suction manifold	
					talk to company men and swap to rig pump	
				25 str/min	complete displacement w/524 strokes	
					didn't try to bump plug since we don't	
				.14371 bbl/str	know how accurate rig pump is	
230am	1500				stop and check floats	
233am	0				floats holding	
300am					rig down	