

Cement Job Summary

Job Number:	Lib1612102115 Job Purpose	01 Surface		1		
Customer:	Linn Energy				Date:	12/10/2016
Well Name:	Tyrrell		Number:	3-17	API/UWI:	*************************************
County:	Finney	City:			State:	Kansas
Cust. Rep:		Phone:		Rig Phone:		
Legal Desc:				Rig Name:	Ques	t Drilling#211
Distance	50 miles (one wa	ıy)	Supervisor:	Hector Esqueda		

Employees:	Emp. ID:	Employees:	Emp. ID:	
Hector Esqueda		Carlos Ibarra		
Cristian Camacho		Alejandro Ayala	#N/A	
Equipment:				
993-541		774-1066		
870-744		1039-2		

		Well Info	ormation			
		Open Ho	le Section			
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)		
OPEN HOLE	12 1/4	100%	1540	1,800	TAIL CEMENT	
OPEN HOLE	12 1/4	100%	0	1,540	LEAD CEMENT	
OPEN HOLE	12 1/4			0		
OPEN HOLE	12 1/4					
		Tubu	ılars		· · · · · · · · · · · · · · · · · · ·	
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft
TOTAL CASING	8 5/8	24	8.097	J-55	0	1,800
SHOE	8 5/8	24	8.097	J-55	1,758	1,800

	Materials - Pu	ımping Schedule	8		20 -
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	FRESH WATER	10	8.30	n/a	n/a
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 1	ALLIED MULTI-DENSITY CEMENT - CLASS A	460	11.81	2.77	16.50
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	1297.2	lbm
CLC-CPF	CELLOPHANE FLAKES	0.5	lb/sk	230.0	lbm
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	CLASS A COMMON	200	15.62	1.19	5.20
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	1.88	% BWOC	376.0	lbm
CLC-CPF	CELLOPHANE FLAKES	0.25	lb/sk	50.0	11171111
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Disp. 1	0	111.9556981	8.33	n/a	n/a

Distance	50	miles (one wa	y)		Supervisor	Hect	or Esqueda
Cust. Rep:			Phone:		Rig Phone:		0
County:	Finney		City:			State:	Kansas
Well Name:	Tyrrell			Number:	3-17	API/UWI:	
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ALLIED

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COMMENTS	FLUID PUMPED DATA		PRESSURE - (PSI)		TIME
COMMENTS	RATE (BPM)	VOLUME	ANNULUS	CASING	AM/PM
					12/9/2016
arrived to location					22:00
rig up iron					22:15
casing got stuck in the well. So they took					12/10/2016
casing out and went back in with drill pipe					
and circulated and triped back out. Waiting					
for crew to finish casing					
rig up head and manifold and the rest of					19:00
the iron					
prime up the pump					19:30
pressure test line to 3000Psi				3000	19:52
start the 10bbls spacer	5	10		80	19:55
start the lead cement @ 11.81#	5	226		50	19:56
increased the rate to 6.5Bpm	6.5			180	20:05
start the tail cement @ 15.62#	5	42		120	20:36
shut down (drop the plug) and start washin					20:46
the tub					
start the 110bbl displacment with fresh H2	4.5	110		20	20:51
20bbls gone	5	20		20	20:56
30bbls gone	6	30		100	10:58
40bbls gone	5.8	40		130	20:59
50bbls gone	5.7	50		180	21:01
60bbls gone	5.2	60		240	21:03
70bbls gone	4.6	70		300	21:05
80bbls gone	5.5	80		410	21:08
90bbls gone	4.6	90		480	21:10
100bbls gone	4.1	100		549	21:12
landed plug @ 1100Psi with 110BBLS		110		1100	21:15
waited aa few minuted to make sure					
plug landed right					
released pressure to make sure that the					
floats are holding and they are					
got 1/2 bbl back to the tank					
100bbls of cement circulated to surface					
rig down released from location					
at 22:00					