

# CEMENT JOB REPORT



<b>CUSTOMER</b> SHELL WESTERN E & P INC		<b>DATE</b> 12-FEB-13	<b>F.R. #</b> 1001964831		<b>SERV. SUPV.</b> James Kirkpatrick									
<b>LEASE &amp; WELL NAME</b> RANDOLPH TRUST 2107 #31-1 - API 151592272200			<b>LOCATION</b> 31-21S-7W		<b>COUNTY-PARISH-BLOCK</b> Rice Kansas									
<b>DISTRICT</b> McAlester		<b>DRILLING CONTRACTOR RIG #</b> Patterson 264			<b>TYPE OF JOB</b> Intermediate									
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>MECHANICAL BARRIERS</b>		<b>MD</b> <b>TVD</b> <b>HANGER TYPES</b> <b>MD</b> <b>TVD</b>								
		No Shoe, Cust Sup												
<b>MATERIALS FURNISHED BY BJ</b>		<b>LAB REPORT NO.</b>		<b>PHYSICAL SLURRY PROPERTIES</b>										
				<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT</b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>				
50/50C,0.01%staticfree,5%sodiumchloride,0.25ppscel		125102867		85	14.2	1.32	5.66	04:30	20	11.48				
Displacement					8.34				151					
SealBond Spacer 25 (w/ 45lb bag)		<b>PUMPED BY RIG</b>			8.45				40.00					
C15:85:8,0.01%staticfree,5%sodiumchloride,0.25ppsc		125102866		268	12.4	2.45	13.52	06:18	117	86.36				
Available Mix Water _____ 250 _____ Bbl.		Available Displ. Fluid _____ 250 _____ Bbl.		<b>TOTAL</b>				328.00		97.85				
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>		
8.75		3895	6.366	7	23	CSG	3891	3891	L-80	3891	3854			
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>				
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
8.9	9.625	36		500	500				4600	4600	7	8RD	WATER BASED MU	9.4
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>			
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>		<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>			
151	BBLS	Displacement		8.34	900					7975	1625	RIG		

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NO PROBLEMS**

PRESSURE/RATE DETAIL						EXPLANATION					
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>					
	PIPE	ANNULUS				TEST LINES 3000 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
11:10	4000				H2O	TEST PUMP AND LINES, START LEAD CEMENT @ 12.4#					
11:40	200		5.5	117	LEAD CEM	PUMP LEAD CEMENT, START TAIL CEMENT @ 14.2#					
11:45	210		5.5	20	TAIL CEME	PUMP TAIL CEMENT, DROP PLUG, START DISPLACEMENT					
12:00	225		5	40	DISPLACE	PUMP 40 BBL DISPLACEMENT, CAUGHT CEMENT, CONTINUE DISPLACEMENT					
12:15	850		2.5	141	DISPLACE	PUMP 141 BBL INTO DISPLACEMENT, CEMENT RETURNS TO SURFACE, CONTINUE DISPLACEMENT					
12:20	1000		2.5	151	DISPLACE	PUMP 151 BBL DISPLACEMENT, BUMP PLUG, TEST FLOAT HOLDING					
						TOOK BUMP PRESSURE UP TO @ 1600 PSI, (600 # OVER BUMP PRESSURE)					
						AROUND 10 BBL CEMENT RETURNS TO SURFACE					
						EST TOP OF TAIL CEMENT IN GUAGE HOLE @ 3150'					
						LEAD CEMENT : 268 SACKS 15:85 CLASS C + 0.01% STATIC FREE + 10% SODIUM CHLORIDE + 0.25PPS CELLOFLAKE + 4PPS KOLSEAL + 0.6%SMS + 8% BENTONITE					
						TAIL CEMENT : 85 SACKS 50:50 CLASS C + 0.01% STATIC FREE + 5% SODIUM CHLORIDE + 0.25PPS CELLOFLAKE + 4PPS KOLSEAL + 0.3% FL-52 + 0.15% SMS + 2% BENTONITE					
						THANK YOU FOR USING BAKER HUGHES, JIM AND CREW					

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PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES                    3000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1000	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	10	288	0	Y <input checked="" type="checkbox"/> N	