

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 16-APR-13	F.R. # 1001980661	SERV. SUPV. Jonathan M Schulz
LEASE & WELL NAME REFFNER 2308 #4-2HS - API 15155216310000	LOCATION 4-23S-8W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		TYPE OF JOB Liner

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	Provided by Customer						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
SealBond Spacer			8.45				40	
H50:50+3%Salt+.5% FL-62+.6%SMS+ .5%FL-52		340	14.3	1.24	5.54	05:30	75.31	44.81
Displacement			8.34				95.5	
Available Mix Water <u>400</u> Bbl.		Available Displ. Fluid <u>310</u> Bbl.		TOTAL			<u>210.81</u>	<u>44.81</u>

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		8071	4	4.5	11.6	LNR	8064	3699	P-110			

LAST CASING						PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
6.3	7	26	CSG	4082	4082					2	1502			

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	Rig Tank
95.5	BBLS	Displacement	8.34	850					8550	5000	Rig Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location 0400

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 6105 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
04:00						Arrive on location					
08:00				40	SPACER	rig pumps seal bond spacer					
08:14	6300				WATER	test pumps & lines					
08:22	130		5		SLURRY	open well start slurry 14.3ppg					
08:36	1098		4	76	SLURRY	end slurry/ shutdown					
09:39					WATER	wash pumps & Lines					
08:47	379		5		WATER	drop TRP/start displacement					
08:53	1200		3	27	WATER	bbls pumped when shear first plug					
09:09	760		3	88	WATER	slow rate to bump					
09:13	1518		3	95.5	WATER	bump plug shutdown/ conduct casing test					
09:23	0			-.75		end test/ check floats/ holding bbls back					
10:20	4500					conduct backside test					
10:37	4391					end backside test					
						Calculated top of cement 3875'					
						Thanks for using BHI Pressure Pumping					
						Jonathan Schulz & Crew					

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	1550	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	211.5	0	Y <input checked="" type="checkbox"/> N	