

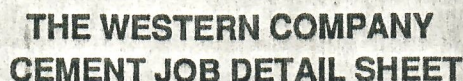


THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

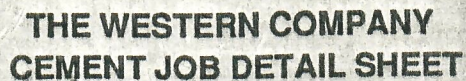


00358040

CUSTOMER				DATE	F.R. #	SER. SUP.	TYPE JOB						
LEASE & WELL NAME OCSG				LOCATION		COUNTY-PARISH-BLOCK							
DISTRICT		DRILLING CONTRACTOR RIG #				OPERATOR							
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE			SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
	TOP BTM							SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR-MIN	Bbl SLURRY	Bbl MIX WATER
35 SXS Class B + 35% CF-3 1.5% CF-14 Fluid 16" 147.587													
+ 1.2% WR-17 Betamax													
RECEIVED													
JAN 31 1991													
COLO. OIL & GAS CONS. COMM.													
Available Mix Water 400 Bbl.				Available Displ. Fluid 400 Bbl.				TOTAL					
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
			2 3/8	47		8110							
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT	
4 1/2	116	N/A	N/A	1870		8111	8189	8243	2 3/8	8th			
CAL. DISPL. VOL.-Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG	CSG	CSG	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT	SOURCE
3.5			3.5		1/2 800		6500	2500			1100	8.3	
EXPLANATION: TROUBLE SETTING TOOL. RUNNING CSG. ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL													
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION							
	PIPE	ANNULUS				SAFETY MEETING: WPS CREW <input type="checkbox"/> CO. REP <input type="checkbox"/>							
						TEST LINES PSI							
						CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>							
1:50 PM						On log / rig up							
2:15	500		2.5		1100	Reverse circ / roll hole							
2:45				63		Shut down							
3:00	500	500				Pressure test							
3:20						Blend off							
3:40		500				String remains / Pressure up annulus							
4:00	2400		1.5		1100	Start injection rate down tubing							
4:20				12.5		Shut down / back side pressured up to 1100							
4:40	2300		1.5		1100	Start down tubing							
5:00				45		Shut down / wait							
5:20						String out of casing							
5:40	1500				1100	Start Pumping							
6:00	2000			5	cut	Start cut							
6:20	1500			9	1100	Start displacement							
6:40				25.5		Shut down / lay down 25.5 min							
7:00					1100	Reverse circulate							
7:20						Shut down							
BUMPED PLUG PSI TO BUMP PLUG TEST FLOAT EQUIP. TOTAL Bbl. PUMPED Bbl. CMT RETURNS/ REVERSED PSI LEFT ON CSG SPOT TOP CEMENT SER. SUP. CUSTOMER REP.													



CUSTOMER	DATE	F.R.#	SER. SUP.	TYPE JOB						
LEASE & WELL NAME-OCSG	LOCATION	COUNTY-PARISH-BLOCK								
DISTRICT	DRILLING CONTRACTOR RIG #	OPERATOR								
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS	LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
TOP BTM					SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR/MIN	Bbl SLURRY	Bbl MIX WATER
40 bbls 30# gel + 3H ³ frac-side-20					8.33	n/a	n/a	n/a	n/a	n/a
10.5x50/50 gel + 16% gel					14.2	1.99	575	n/a	n/a	n/a
40 bbls 30# gel + 3H ³ frac-side-20					8.33	n/a	n/a	n/a	n/a	n/a
10.5x50/50 gel + 16% gel					14.2	1.99	575	n/a	n/a	n/a
Available Mix Water 400 Bbl.	Available Displ. Fluid 400 Bbl.							TOTAL	400	
HOLE	TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS			
SIZE % EXCESS DEPTH	SIZE WGT TYPE DEPTH	SIZE WGT TYPE DEPTH	SHOE	FLOAT	STAGE					
n/a n/a n/a	2 3/8 4.7 n/a 70.2 4.4 11.6 Prod n/a n/a	n/a n/a n/a	n/a	n/a	n/a					
LAST CASING	PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
SIZE WGT TYPE DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT		
n/a n/a n/a n/a	n/a	n/a	n/a	n/a	2 3/8	Prod	n/a	n/a		
CAL. DISPL. VOL.-Bbl.	CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG. CSG. CSG. TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	
n/a n/a n/a n/a	n/a	n/a	n/a	2000	2000	n/a	n/a	H ₂ O	8.33	n/a
EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG. ETC. PRIOR TO CEMENTING:										
PRESSURE/RATE DETAIL						EXPLANATION				
TIME HR: MIN.	PRESSURE-PSI PIPE ANNULUS		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>				
						TEST LINES <input checked="" type="checkbox"/> PSI				
						CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>				
06:00	n/a	n/a	n/a	n/a	n/a	on location				
07:38	n/a	n/a	n/a	n/a	n/a	hoob upwestern				
07:44	950	0	2.5	40	30#gdll	40 bbl gell pill				
07:58	800	0	2.5	19.4	H ₂ O	displacement				
08:04	n/a	n/a	n/a	n/a	n/a	shut down				
08:23	0	550	2.3	1.5	H ₂ O	reverse cut				
08:44	1000	0	3	2.3	cmt	1st plug				
09:48	900	0	3	18	H ₂ O	displacement				
10:09	0	600	2.5	3.5	H ₂ O	reverse cut				
10:14	600	0	2.5	40	30#gdll	40 bbl gell pill				
10:38	450	0	2.5	7.7	H ₂ O	displacement				
10:49	n/a	n/a	n/a	n/a	n/a	shut down				
11:09	0	350	2.5	17	H ₂ O	reverse cut				
11:11	1000	0	2	2.3	cmt	2nd plug				
11:15	350	0	2.8	3	H ₂ O	displacement				
11:16	n/a	n/a	n/a	n/a	n/a	shut down				
11:33	0	350	2.5	10	H ₂ O	reverse cut				
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. CUSTOMER REP.			

[illegible]