



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET



00065682

CUSTOMER <i>Chandler & Associates</i>		DATE <i>9-11-91</i>	F.R.# <i>179151</i>	SER. SUP. <i>Rod Edwards</i>	TYPE JOB <i>PA A</i>								
LEASE & WELL NAME-OCSSG <i>SWR Fed 13-30-1N-2</i>		LOCATION <i>530-TIN-R102W</i>		COUNTY-PARISH-BLOCK <i>Rio Blanco</i>									
DISTRICT <i>(Jernol)</i>		DRILLING CONTRACTOR RIG # <i>Chandler Rig #7</i>		OPERATOR <i>Same</i>									
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 ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
6		<i>N/A</i>		<i>N/A</i>		<i>330</i>	<i>15.8</i>	<i>1.14</i>	<i>4.97</i>	<i>2:00</i>	<i>7.7</i>	<i>4.5</i>	
7		<i>N/A</i>		<i>N/A</i>		<i>Surface</i>	<i>15.8</i>	<i>1.14</i>	<i>4.97</i>	<i>2:00</i>	<i>6.9</i>	<i>4.0</i>	
Available Mix Water <i>450</i> Bbl.		Available Displ. Fluid <i>450</i> 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
<i>7 7/8</i>	<i>-</i>	<i>3939</i>	<i>4"</i>	<i>14.0</i>	<i>-</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
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.	
<i>8 5/8</i>	<i>24</i>	<i>-</i>	<i>380'</i>	<i>N/A</i>		<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>4"</i>	<i>N/A</i>	<i>H₂O</i>	<i>8.4</i>	
CAL. DISPL. VOL.-Bbl.		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER		
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE
<i>0.0084</i>	<i>0.0637</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>H₂O</i>	<i>8.3</i>	<i>Rio</i>
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING.													
PRESSURE/RATE DETAIL							EXPLANATION						
TIME	PRESSURE-PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input checked="" type="checkbox"/>							
HR: MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE		TEST LINES						
						PSI							
						CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>							
<i>3:19</i>	<i>0</i>		<i>3.0</i>	<i>17.0</i>	<i>H₂O</i>	<i>Start H₂O Ahead</i>							
<i>3:30</i>	<i>0</i>		<i>3.0</i>	<i>24.7</i>	<i>Cmt</i>	<i>Start Slurry D.H.</i>							
<i>3:32</i>	<i>0</i>		<i>3.0</i>	<i>27.4</i>	<i>H₂O</i>	<i>Start Displ.</i>							
<i>4:39</i>	<i>0</i>		<i>3.0</i>	<i>2.0</i>	<i>H₂O</i>	<i>Start H₂O Ahead</i>							
<i>4:44</i>	<i>0</i>		<i>3.0</i>	<i>8.0</i>	<i>Cmt</i>	<i>Start Slurry D.H.</i>							
<i>4:47</i>	<i>0</i>		<i>3.0</i>			<i>Shut Down</i>							
<div>RECEIVED</div> <div>SEP 11 1991</div> <div>COLO. OIL & GAS CONS. COMM.</div> <div>Thanks!</div> <div>Rod</div> <div>Crew</div>													
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT							
<i>Y N</i>		<i>Y N</i>											
SER. SUP. <i>Rod Edwards</i>						CUSTOMER REP. <i>Leon Schultz</i>							



THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

CUSTOMER <u>Chandler & Associates</u>		DATE <u>9-10-91</u>	F.R.# <u>179151</u>	SER. SUP. <u>Rod Edwards</u>	TYPE JOB <u>F.H.</u>								
LEASE & WELL NAME-OCSSG <u>SWR Fed 13-20-1N-2</u>		LOCATION <u>SSO-TIN-R102W</u>		COUNTY-PARISH-BLOCK <u>K.O. Blanco</u>									
DISTRICT <u>Verona</u>		DRILLING CONTRACTOR RIG # <u>Chandler RIG #7</u>		OPERATOR <u>Same</u>									
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 ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
1		50 sks - "G" Ncat				3615	15.8	1.14	4.97	2:30	10.1	5.9	
2		38 sks - "G" + 2% CaCl ₂		Tagged		2490	15.8	1.14	4.97	2:00	7.7	4.5	
3		45 sks - "G" Ncat		Tagged		2100	15.8	1.14	4.97	2:30	9.1	5.3	
4		19 sks - "G" + 2% CaCl ₂				2011	15.8	1.14	4.97	2:00	3.8	2.2	
5		60 sks - "G" + 2% CaCl ₂		Tagged		393	15.8	1.14	4.97	2:00	12.2	7.1	
Available Mix Water <u>450</u> Bbl.		Available Displ. Fluid <u>Some</u> Bbl.				TOTAL		42.9		25.0			
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
7 7/8	N/A	3939	4" F.H.	14.0	N/A	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.	
8 5/8	24.0	N/A	355	N/A		N/A	N/A	N/A	4" F.H. D.P.		H ₂ O	8.4	
CAL. DISPL. VOL.-Bbl.		CAL. PSI		CAL. MAX PSI		OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE
0.0084	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	H ₂ O	8.3	Rig
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL							EXPLANATION						
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input type="checkbox"/> CO. REP <input type="checkbox"/>							
	PIPE	ANNULUS				TEST LINES PSI							
						CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>							
9:09	0		3.0	10	H ₂ O	Plug #1	Start H ₂ O Ahead 10 BBL						
9:22	0		3.0	20	Cmt		Start Slurry D.H. 10 BBL						
9:24	0		3.0	59	H ₂ O		Start H ₂ O Displ. 39 BBL						
9:33	0		3.0				Shut Down 14 BBL						
10:10	0		3.0	14	H ₂ O	Plug #2	Start H ₂ O Ahead 14 BBL						
10:20	0		3.0	21.7	Cmt		Start Slurry D.H. 7.7 BBL						
10:23	0		3.0	48.7	H ₂ O		Start H ₂ O Displacement 27.0 BBL						
10:29	0		3.0				Shut Down						
3:15	0		3.0	10	H ₂ O	Plug #3	Start H ₂ O Ahead 10 BBL						
3:22	0		3.0	19	Cmt		Start Slurry D.H. 9 BBL						
3:25	0		3.0	41	H ₂ O		Start H ₂ O Displ. 22 BBL						
3:30	0		3.0				Shut Down						
9:07	0		3.0	15.0	H ₂ O	Plug #4	Start H ₂ O Ahead 15 BBL						
9:23	0		3.0	18.8	Cmt		Start Slurry D.H. 3.8 BBL						
9:25	0		3.0	40.8	H ₂ O		Start H ₂ O Displ. 22 BBL						
9:30	0		3.0				Shut Down						
10:51	0		3.0	12	H ₂ O	Plug #5	Start H ₂ O Ahead 12 BBL						
11:00	0		3.0	24.2	Cmt		Start Slurry Down Hole 12.2 BBL						
11:03	0		3.0	27.5	H ₂ O		Start H ₂ O Displ. 3.3 BBL						
11:04	0		3.0				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. <u>Rod Edwards</u>						
Y N		Y N					CUSTOMER REP. <u>Leon Schultz</u>						