

Operator Name: Conoco
 Well Name: Oxy State F-1 #
 Job Description: 5-1/2" Single Stage
 Date: August 6, 2000



Proposal No: 180254424A

FLUID SPECIFICATIONS

Pre-flush

1,500.0 gals Mud Clean I @ 8.4 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1354	/ 2.41	= 563 sacks (50:50) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 10% bwoc Bentonite + 136.9% Fresh Water
Tail Slurry	629	/ 1.49	= 422 sacks (15:61:11) Poz (Fly Ash):Class C Cement:CSE + 5% bwow Sodium Chloride + 1% bwoc FL-62 + 0.005 gps FP-6L + 70% Fresh Water

Displacement

185.1 bbls Water @ 8.4 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	11.85	13.60
Slurry Yield (cf/sack)	2.41	1.49
Amount of Mix Water (gps)	13.79	7.31
Amount of Mix Fluid (gps)	13.79	7.31
Estimated Pumping Time - 70 BC (HH:MM)	2:58	2:31
Free Water (mls) @ 80 ° F @ 90 ° angle	1.0	0.0
Fluid Loss (cc/30min) at 1000 psi and 80 ° F	792.0	62.0
COMPRESSIVE STRENGTH		
12 hrs @ 128 ° F (psi)	175	1013
24 hrs @ 128 ° F (psi)	350	1877

RHEOLOGIES

FLUID	TEMP	600	300	200	100	6	3
Lead Slurry	@ 80 ° F	104	101	96	81	39	31
Tail Slurry	@ 80 ° F	210	150	110	60	7	4