



**Andrews, David**

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**From:** GJRig01@oxy.com  
**Sent:** Saturday, December 17, 2011 7:57 PM  
**To:** Andrews, David  
**Cc:** Simon\_Benevides@oxy.com  
**Subject:** OXY / H&P 330 / 697-04D PAD / CC 697-04-76B / SURFACE CEMENT SUMMARY

API #: 050452072900  
SURFACE CASING SETTING DEPTH: 2690'

RIGGED DOWN CASING RUNNING TOOL AND LAID DOWN SAME.  
RELEASED RIG TO CC 697-04-84B AT 19:30 HOURS

19:30 HOURS (12-16-2011) - 22:30 HOURS (12-16-2011) PERFORMED CEMENT JOB OFF LINE AS FOLLOWS:

TESTED LINES TO 2500 PSI. GOOD TEST  
CEMENTED 9.625" 36LLB/FT J-55 LTC CASING AS FOLLOWS:  
PUMPED 20 BBLS FRESH WATER; 20 BBLS OF GEL SPACER; 20 BBLS OF FRESH WATER.  
CEMENTED 9.625" SURFACE CASING WITH:  
1070 SACKS OF LEAD - 444 BBLS OF 12.3 PPG - 2.33 CU. FT/SK VERSACEM LEAD AT 6.5 BPM 170 SACKS OF  
TAIL - 62.7 BBLS OF 12.8 PPG - 2.07 CU. FT/SK VERSACEM TAIL AT 6.5 BPM.  
50% EXCESS ON LEAD AND TAIL.  
HAD NO RETURNS THROUGHOUT ENTIRE CEMENT JOB DROPPED PLUG AND DISPLACED WITH 202.1 BBLS  
FRESH WATER AT 6.5 BPM OBSERVED 325 PSI LIFT PRESSURE AT 6.5 BPM SLOWED RATE TO 2 BPM AT 192  
BBLS INTO DISPLACEMENT AND OBSERVED 110 PSI LIFT PRESSURE.  
BUMPED PLUG WITH 690 PSI. PLUG DOWN AT 21:56 HOURS (12/16/2011). HELD FOR FIVE MINUTES.  
BLED PRESSURE TO ZERO AND CHECKED FLOATS. FLOATS HELD.  
HAD NO RETURNS WHILE PUMPING ENTIRE DISPLACEMENT TESTED CASING TO 1500 PSI HELD FOR 30  
MINUTES. TEST PASSED.  
FLUSHED PARASITE LINE WITH 10 BBLS SUGAR WATER - HAD RETURNS AFTER 6 BBLS.

00:00 HOURS - 00:30 HOURS (12/17/2011)  
PERFORMED TOP OUT #1 WITH 141 SACKS - 49.5 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. NO RETURNS  
TO SURFACE

02:30 HOURS - 03:00 HOURS (12/17/2011)  
PERFORMED TOP OUT #2 WITH 159 SACKS - 56 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. NO RETURNS TO  
SURFACE

05:00 HOURS - 05:20 HOURS (12/17/2011)  
PERFORMED TOP OUT #3 WITH 161 SACKS - 56.5 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. NO RETURNS  
TO SURFACE

13:30 HOURS - 14:00 HOURS (12/17/2011)  
PERFORMED TOP OUT #4 WITH 142 SACKS - 50 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. NO RETURNS TO  
SURFACE.

16:00 HOURS - 16:30 HOURS (12/17/2011)  
PERFORMED TOP OUT #5 WITH 124 SACKS - 43.5 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. ESTIMATED 3  
BBLS CEMENT RETURNED TO SURFACE.

Thanks & Regards

Jeff Gill / Victor Benavides  
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