

Andrews, David



**From:** GJRig01@oxy.com  
**Sent:** Sunday, April 01, 2012 5:50 PM  
**To:** Andrews, David  
**Subject:** OXY / H&P 330 / 697-04D PAD / CC-697-04-84A / CEMENT SUMMARY

API #: 050452071500  
SURFACE SETTING DEPTH: 2771'

11:30 HOURS - 15:20 HOURS (03/31/2012)  
PERFORMED CEMENT AS FOLLOWS:

TESTED LINES TO 3000 PSI. GOOD TEST  
CEMENTED 9.625" 36LLB/FT J-55 LTC CASING AS FOLLOWS:  
PUMPED 10 BBLS FRESH WATER; 20 BBLS OF GEL SPACER; 10 BBLS OF FRESH WATER.  
CEMENTED 9.625" SURFACE CASING WITH:  
1190 SACKS OF LEAD - 455.7 BBLS OF 12.3 PPG - 2.15 CU. FT/SK VERSACEM LEAD AT 6 BPM  
170 SACKS OF TAIL - 62.7 BBLS OF 12.8 PPG - 2.07 CU. FT/SK VERSACEM TAIL AT 6 BPM.  
50% EXCESS ON LEAD AND TAIL.  
GOT RETURNS AT 50 BBLS INTO PUMPING LEAD CEMENT. LOST RETURNS AT 140 BBLS INTO LEAD CEMENT.  
DID NOT OBSERVE ANY FURTHER RETURNS WHILE PUMPING CEMENT.  
DROPPED PLUG AND DISPLACED WITH 208.1 BBLS FRESH WATER AT 6 BPM. OBSERVED 530 PSI LIFT  
PRESSURE AT 6 BPM.  
SLOWED RATE TO 2 BPM AT 198 BBLS INTO DISPLACEMENT AND OBSERVED 350 PSI LIFT PRESSURE.  
BUMPED PLUG AT 208.1 BBLS WITH 860 PSI. PLUG DOWN AT 14:18 HOURS (03/31/2012). HELD FOR FIVE  
MINUTES.  
BLED PRESSURE TO ZERO AND CHECKED FLOATS. FLOATS HELD.  
GOT RETURNS AT 188 BBLS INTO DISPLACEMENT -- LOST RETURNS AT 198 BBLS INTO DISPLACEMENT  
(WHEN RATE WAS DROPPED TO 2 BPM).  
TESTED CASING TO 1500 PSI HELD FOR 30 MINUTES. TEST PASSED.  
FLUSHED PARASITE LINE WITH 10 BBLS SUGAR WATER

16:20 HOURS - 16:50 HOURS (03/31/2012)  
PERFORMED TOP OUT #1 WITH 157 SACKS - 55 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. NO CEMENT  
RETURNS TO SURFACE

19:00 HOURS - 19:40 HOURS (03/31/2012)  
PERFORMED TOP OUT #2 WITH 157 SACKS - 55 BBLS OF 12.5 PPG TOP OUT BLEND CEMENT. SAW RETURNS  
TO SURFACE AT 50 BBLS GONE. HESITATED ADDITIONAL 5 BBLS INTO ANNULUS. ESTIMATED 0.25 BBLS OF  
CEMENT RETURNED TO SURFACE. CEMENT FELL BACK 15' AFTER 2 HOUR WAIT.

Thanks & Regards

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