



Andrews, David

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Sent: Monday, March 05, 2012 8:39 AM
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Subject: OXY/H&P353/CC-697-08-18/CC-697-08A PAD 9 5/8"

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9 5/8" SURFACE CASING SET AT 2,685'
API # 05-045-20971-00

OFFLINE CEMENTING: TESTED LINES TO 4000 PSI. GOOD TEST.

CEMENTED 9.625", 36#, J-55, LTC CASING SET @ 2685'. PUMPED 20 BBLS FRESH WATER; 20 BBLS GEL SPACER; & 20 BBLS FRESH WATER.

CEMENTED W/ 1060 SKS LEAD 405.9 BBL, 12.3 PPG, 2.15 YIELD VERSACEM @ 6 BPM. & 160 SKS TAIL 59 BBL, 12.8 PPG, 2.07 YIELD, VERSACEM. 50% EXCESS ON BOTH.

DISPLACE CEMENT W/ 202 BBLS FRESH WATER @ 6 BPM. SLOWED RATE TO 2 BPM FOR THE LAST 10 BBLS OF DISPLACEMENT AND OBSERVED A LIFT PRESSURE OF 302 PSI. BUMPED PLUG TO 874 PSI. HELD PRESSURE OR 5 MIN. RELEASE PRESSURE FLOATS HELD.

PRESSURE TESTED CSG TO 1500 PSI F/ 30 MIN.
TEST PASSED.

FLUSHED PARASITE LINE W/ 10 BBLS SUGAR WATER. (AT 5.5 BBLS OBSERVED 170 PSI @ 2 BPM PARASITE FLUSHED).

NO RETURNS DURING CEMENTING JOB.

ESTIMATED TOP OF CEMENT, ASSUMING 12.3# AVG CEMENT DENSITY, 8.5# DISP FLUID DENSITY, TOC IS 1,111 FT. UPPER FLOAT DEPTH IS 2,639 FT.

TOP OUT WITH
HALCEM MIXED @ 12.5 PPG, 1.97 CU FT/SX & 10.96 GAL WATER PER SACK.
TOP OUT WITH 154 SKS (54 BBLS) NO CMT. WAIT 2 HRS TOP OUT WITH 100 SKS(35 BBLS) NO CMT TO SURFACE.

WAITED ON TOP CEMENT

TOP OUT WITH 171 SKS (60 BBLS) NO CMT TO SURFACE. WAIT 3 HRS.
TOP OUT WITH 117 SKS (41BBLS), CMT RETURNS TO SURFACE.

TOTAL TOP OUT JOB WAS 190BBLS OF CEMENT.

AFTER AN HOUR CEMENT DROPPED 6".

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