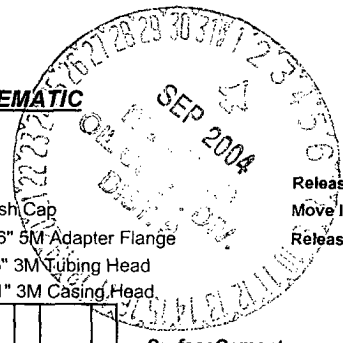


ConocoPhillips

**END OF WELL SCHEMATIC**



Well Name: San Juan 32-7 #216A  
 API #: 30-045-32338  
 Location: 700' FNL & 800' FWL  
Sec. 4 - T31N - R7W  
San Juan County, NM  
 Elevation: 6593' GL (above MSL)  
 Drl Rig RKB: 13' above Ground Level  
 Datum: Drl Rig RKB = 13' above GL

Spud: 11-Jul-2004  
 Release Drl Rig: 14-Jul-2004  
 Move In Cav Rig: 19-Jul-2004  
 Release Cav Rig: 25-Jul-2004

**Surface Casing** Date set: 11-Jul-04  
 Size 9 5/8 in  
 Set at 233 ft # Jnts: 5  
 Wt. 32.3 ppf Grade H-40  
 Hole Size 12 1/4 in Conn STC  
 Excess Cmt 125 %  
 T.O.C. SURFACE Csg Shoe 233 ft  
 TD of 12-1/4" hole 243 ft

Notified BLM @ 23:15 hrs on 09-Jul-04  
 Notified NMOCD @ 23:15 hrs on 09-Jul-04

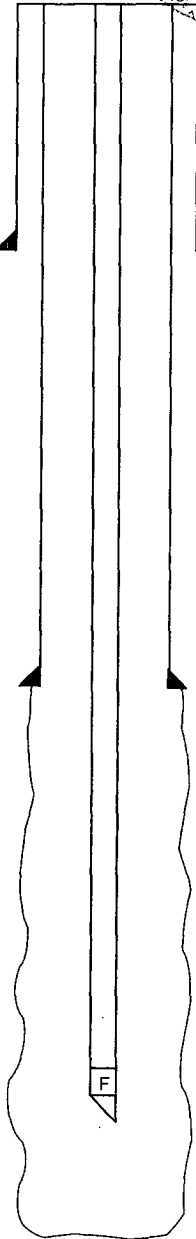
**Intermediate Casing** Date set: 13-Jul-04  
 Size 7 in 75 jts  
 Set at 3174 ft 0 pups  
 Wt. 20 ppf Grade J-55  
 Hole Size 8 3/4 in Conn STC  
 Excess Cmt 160 % Top of Float Collar 3128 ft  
 T.O.C. SURFACE Bottom of Casing Shoe 3174 ft  
 Pup @ \_\_\_\_\_ ft TD of 8-3/4" Hole 3176  
 Pup @ \_\_\_\_\_ ft

Notified BLM @ 17:00 hrs on 12-Jul-04  
 Notified NMOCD @ 17:00 hrs on 12-Jul-04

New  
 Used

New  
 Used

Trash Cap  
 7-1/16" 3M x 2-9/16" 5M Adapter Flange  
 11" 3M x 7 1/16" 3M Tubing Head  
 9-5/8" 8 RD x 11" 3M Casing Head



TD 3,360 ft

**Surface Cement**

Date cmt'd: 11-Jul-04  
 Lead : 150 sx Class A Cement  
+ 3% Calcium Chloride  
+ 0.25 lb/sx Flocele  
1.21 cuft/sx, 181 cuft slurry at 15.6 ppg  
 Displacement: 15.0 bbls fresh wtr  
 Bumped Plug at: 09:30 hrs w/ 630 psi  
 Final Circ Press: 60 psi @ 2 bpm  
 Returns during job: YES  
 CMT Returns to surface: 8 bbls  
 Floats Held: No floats used  
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)  
 W.O.C. for 9.00 hrs (plug bump to test csg)

**Intermediate Cement**

Date cmt'd: 13-Jul-04  
 Lead : 370 sx Class A Cement  
+ 3% Econolite  
+ 0.2% Antifoam  
+ 0.25 lb/sx Flocele  
2.91 cuft/sx, 1077 cuft slurry at 11.5 ppg  
 Tail : 100 sx 50/50 POZ : Class A cement  
+ 2% Bentonite  
+ 5 lb/sx Gilsonite  
+ 0.25 lb/sx Flocele  
+ 2% Calcium Chloride  
+ 0.2% Antifoam  
1.33 cuft/sx, 133 cuft slurry at 13.5 ppg  
 Displacement: 126 bbls  
 Bumped Plug at: 03:30 hrs w/ 1500 psi  
 Final Circ Press: 860 psi @ 2 bbls/min  
 Returns during job: YES  
 CMT Returns to surface: 10 bbls  
 Floats Held:  Yes  No

This well was not cavitated  
 We drilled out below the 7" casing with a 6.25" bit  
 Underreamed the 6.25" hole to 9.5" from 3178' to 3360'  
 Ran 2-7/8" tubing  
 No liner.

Schematic prepared by:  
 Steven O. Moore, Drilling Engineer  
 7-Aug-2004

**COMMENTS:**

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 189'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 223', 145', 101' & 59'. Total: 4
7" Intermediate	DISPLACED W/126 BBLs. FRESH WATER. CENTRALIZERS @ 3162', 3084', 2998', 2913', 2828', 2741', 209', 81' & 38'. TURBOLIZERS @ 2486', 2443', 2400', & 2357' Total: 9
Tubing	Ran Expendable Check and 2-7/8" OD x 2.25" ID F-Nipple on bottom of tubing string Ran 3 jts 2-7/8" 6.4 # J-55 FL4S Crossover from 2-7/8" FL4S to 2-7/8" EUE 8rd Ran 97 jts 2-7/8" 6.5 # J-55 EUE 8rd EOT / bottom of Expendable Check at 3263'. F-Nipple at 3262'. Total: 4