

ConocoPhillips

Well Name: San Juan 30-5 #217A
 API #: 30-039-27809
 Location: 1750' FNL & 1622' FWL
Sec. 21 - T30N - R5W
Rio Arriba County, NM
 Elevation: 6389' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

END OF WELL SCHEMATIC

Spud: 29-Jul-2004

Release Drl Rig: 2-Aug-2004

Move In Cav Rig: 8-Aug-2004

Release Cav Rig: 14-Aug-2004

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

Surface Casing

Date set: 29-Jul-04
 Size 9 5/8 in
 Set at 235 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 235 ft
 TD of 12-1/4" hole 245 ft

Notified BLM @ Not Req'd hrs on Not Req'd
 Notified NMOCD @ 13:30 hrs on 28-Jul-04

Intermediate Casing

Date set: 1-Aug-04
 Size 7 in 71 jts
 Set at 2986 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 160 % Top of Float Collar 2942 ft
 T.O.C. SURFACE Bottom of Casing Shoe 2986 ft
 Pup @ ft TD of 8-3/4" Hole 2990 ft
 Pup @ ft

Notified BLM @ Not Req'd hrs on Not Req'd
 Notified NMOCD @ 11:15 hrs on 31-Jul-04

☒ New
☐ Used

☐ New
☒ Used

Surface Cement

Date cmt'd: 29-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: 00:00 hrs w/ 415 psi
 Final Circ Press: 85 psi @ 2 bpm
 Returns during job: YES
 CMT Returns to surface: 15 bbls
 Floats Held: No floats used
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)
 W.O.C. for 10.00 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 1-Aug-04

Lead : 340 sx Class A Cement
 + 3% Econolite
 + 10.00 lb/sx Gilsonite
 + 0.25 lb/sx Flocele
2.91 cuft/sx, 992 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
1.33 cuft/sx, 133 cuft slurry at 13.5 ppg
 Displacement: 119 bbls
 Bumped Plug at: 16:45 hrs w/ 1400 psi
 Final Circ Press: 700 psi @ 2 bbls/min
 Returns during job: YES
 CMT Returns to surface: 28 bbls
 Floats Held: X Yes No
 Floats Held: X 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 2990' to 3290'
 Ran 2-7/8" tubing
 No liner.

TD 3,290 ft

Schematic prepared by:
 Steven O. Moore, Drilling Engineer
 30-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 @ 190'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 225', 147', 103' & 59'. Total: 4
7" Intermediate	DISPLACED W/ 119 BBLs. FRESH WATER. CENTRALIZERS @ 2974', 2898', 2822', 2737', 2656', 2571', 193', 66' & 29'. TURBOLIZERS @ 2514', 2473', & 2432'. Total: 9 Total: 3
Tubing	Ran 2-7/8" mule shoe and 2-7/8" OD x 2.25" ID F-Nipple on bottom of tubing string Ran 4 jts 2-7/8" 6.4 # J-55 FL4S Crossover collar from 2-7/8" FL4S to 2-7/8" EUE 8rd Ran 91 jts 2-7/8" 6.5 # J-55 EUE 8rd + 1 ea 2-7/8" EUE 8rd pup jt 6.00' long EOT / mule shoe at 3110'. F-Nipple at 3110'.