

Well Name: San Juan 32-8 #213A
 API #: 30-045-32899
 Location: 2426' FNL & 1169' FWL
Sec. 22 - T32N - R8W
San Juan County, NM
 Elevation: 6820' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Patterson Rig: #747
 Spud: 18-May-05
 Spud Time: 21:00
 Release Drl Rig: 22-May-05
 Time Release Rig: 6:00
 Move In Cav Rig: _____
 Release Cav Rig: _____

9-5/8" 8 RD x 11" 3M Casing Head

☒ New
☐ Used

Surface Casing Date set: 19-May-05

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 @ 7:30 hrs on 17-May-05
 Notified NMOCD @ 7:30 hrs on 17-May-05

Intermediate Casing Date set: 21-May-05

☒ New
☐ Used

Size 7 in 79 jts
 Set at 3379 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 160 % Top of Float Collar 3333 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3379 ft
 Pup @ _____ ft TD of 8-3/4" Hole 3382 ft
 Pup @ _____ ft
 Notified BLM @ 16:00 hrs on 20-May-05
 Notified NMOCD @ 16:00 hrs on 20-May-05

Production Liner Date set: _____

☐ New
☐ Used

Size _____ in
 Nominal Wt. _____ ppf
 Grade _____ Connections: _____
 # Jnts: _____
 Hole Size _____ inches
 Top of Liner _____ ft
 PBTd _____ ft
 Bottom of Liner _____ ft set in 4 ft of fill on bottom

Surface Cement

Date cmt'd: 19-May-05
 Lead : 150 sx Class G Cement
+ 2% BWOC S001 Calcium Chloride
+ 0.25 lb/sx D029 Cellophane Flakes
1.16 cuft/sx, 174.0 cuft slurry at 15.8 ppg
 Displacement: 15.0 bbls fresh wtr
 Bumped Plug at: 5:30 hrs w/ 520 psi
 Final Circ Press: 70 psi @ 0.5 bpm
 Returns during job: YES
 CMT Returns to surface: 9 bbls
 Floats Held: No floats used
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)
 W.O.C. for 10.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 21-May-05
 Lead : 445 sx Class G Cement
+ 3% D079 Extender
+ 0.25 lb/sx D029 Cellophane Flakes
+ 0.2% D046 Antifoam
2.61cuft/sx, 1161.45 cuft slurry at 11.7 ppg
 Tail : 100 sx 50/50 POZ : Class G cement
+ 2% D020 Bentonite
+ 2% S001 Calcium Chloride
+ 5 lb/sx D024 Gilsonite
+ 0.25 lb/sx D029 Cellophane Flakes
+ 0.1% D046 Antifoam
1.27 cuft/sx, 127 cuft slurry at 13.5 ppg
 Displacement: 135 bbls
 Bumped Plug at: 20:30 hrs w/ 1490 psi
 Final Circ Press: 780 psi at 2 bpm
 Returns during job: YES
 CMT Returns to surface: 37 bbls
 Floats Held: X Yes ___ No

Schematic prepared by:
 Michael P. Neuschafer, Drilling Engineer
 2-June-2005

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 @ 191'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 224', 147', 103' & 60'. Total: 4
7" Intermediate	DISPLACED W/ 135.0 BBLs. 8.4 PPG SLIGHTLY POLYMERIZED DRILL WATER CENTRALIZERS @ 3369', 3290', 3208', 3117', 3032', 2947', 2603', 207', 79' & 36'. Total: 10 TURBOLIZERS @ 2861', 2818', 2775', 2732', 2689' & 2646'. Total: 6