

END OF WELL SCHEMATIC

Well Name: San Juan 32-7 #250A
 API #: 30-045-32977
 Location: 1450' FNL & 1565' FWL
Sec. 16 - T32N - R7W
San Juan County, NM
 Elevation: 6659' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Patterson Rig: #747
 Spud: 5-May-05
 Spud Time: 19:30
 Release Drl Rig: 9-May-05
 Time Release Rig: 6:00
 Move In Cav Rig: _____
 Release Cav Rig: _____

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

Surface CasingDate set: 6-May-05
☒ New
☐ Used

Size 9 5/8 in
 Set at 230 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 230 ft
 TD of 12-1/4" hole 240 ft

Notified BLM @ NA hrs on NA
 Notified NMOCD @ 19:30 hrs on 04-May-05

Intermediate CasingDate set: 8-May-05
☒ New
☐ Used

Size 7 in 74 jts
 Set at 3161 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 160 % Top of Float Collar 3116 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3161 ft
 Pup @ _____ ft TD of 8-3/4" Hole 3166 ft
 Pup @ _____ ft
 Notified BLM @ NA hrs on NA
 Notified NMOCD @ 07:00 hrs on 01-May-05

Production Liner

Date set: _____

☐ New
☐ Used

Size _____ in
 Nominal Wt. _____ ppf
 Grade _____ Connections: _____
 # Jnts: _____
 Hole Size _____ inches
 Underreamed 6-1/4" hole to 9.5" from 2996' to 3322'
 Top of Liner _____ ft
 PSTD _____ ft
 Bottom of Liner _____ ft set in 4 ft of fill on bottom

Surface CementDate cmt'd: 6-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: 14.6 bbls fresh wtr
 Bumped Plug at: 23:20 hrs w/ 300 psi
 Final Circ Press: 150 psi @ 1.0 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 8.00 hrs (plug bump to test csg)

Intermediate CementDate cmt'd: 8-May-05

Lead : 410 sx Class G Cement
 + 3% D079 Extender
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.2% D046 Antifoam
 + 0.05 gal/sx D047 Antifoam
2.61cuft/sx, 1070.1 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: 115.3 bbls
 Bumped Plug at: 23:20 hrs w/ 1500 psi
 Final Circ Press: 1200 psi at 2 bpm
 Returns during job: YES
 CMT Returns to surface: 45 bbls
 Floats Held: X Yes ___ No

Schematic prepared by:
 Michael P. Neuschafer, Drilling Engineer
 12-May-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 @ 186'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 221', 145', 100' & 56'. Total: 4
7" Intermediate	DISPLACED W/ 115.3 BBLs. 8.4 PPG SLIGHTLY POLYMERIZED DRILL WATER CENTRALIZERS @ 3151', 3072', 2986', 2900', 2813', 2726', 215', 85' & 42'. TURBOLIZERS @ 2341', 2299' & 2257' Total: 9 Total: 3