



Well Name: San Juan 29-6 # 17B
 API #: 30-039-27503
 Location: 2500' FNL & 1710' FEL
Sec. 1 - T29N - R6W
Rio Arriba County, NM
 Elevation: 6528' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

11" 3M x 7 1/16" 5M Tubing Head
 11" 3M x 11" 3M Casing Spool
 9-5/8" 8 RD x 11" 3M Casing Head

Spud: 15-Oct-04
 Spud Time: 10:00 AM
 Date TD Reached: 27-Oct-04
 Release Drl Rig: 28-Oct-04
 Release Time: 3:00 AM

☒ New
☐ Used

Surface Casing Date set: 15-Oct-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 235 ft

Notified BLM @ 10:00 hrs on 14-Oct-04
 Notified NMOCD @ 10:00 hrs on 14-Oct-04

Intermediate Casing Date set: 24-Oct-04

Size 7 in 93 jts
 Set at 3820 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 150 % Top of Float Collar 3779 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3820 ft
 Pup @ ft TD of 8-3/4" Hole 3820 ft
 Pup @ ft

Notified BLM @ hrs on
 Notified NMOCD @ hrs on

Top of good quality cement on 4-1/2" production casing was found at 3060' by Cement Bond Log run 30-Oct-2004 (760' into the lap between the 4-1/2" production casing and the 7" intermediate casing). The cement bond quality drops off above 3060'. The top of ratty cement is approximately 2845' (975' above 7" shoe).

Production Casing: Date set: 27-Oct-04

Size 4 1/2 in jts
 Set at 5885 ft pups
 Wt. 11.6 ppf Grade N-80
 Hole Size 6 1/4 in Conn LTC
 Excess Cmt 50 % Top of Float Collar 5883 ft
 T.O.C. 3060 ft Btm of Csg Shoe 5885 ft
 Marker Jt @ 4894 ft WLM TD of 8-3/4" Hole 5888 ft

Notified BLM @ hrs on
 Notified NMOCD @ hrs on

Fluid inside 4-1/2" casing is 2% KCL Water

Top of Float Collar 5883 ft
 Bottom of Casing Shoe 5885 ft

TD of 8-3/4" hHole: 5888 ft

Surface Cement

Date cmt'd: 15-Oct-04
 Lead : 150 sx Class B Cement
 + 3% Calcium Chloride
 + 0.25 lb/sx Flocele
1.18 cuft/sx, 177.0 cuft slurry at 15.6 ppg
 Displacement: 15.0 bbls fresh wtr
 Bumped Plug at: 350 psi @ 18:00 hrs
 Final Circ Press: 110 psi @ 2 bpm
 Returns during job: Yes
 CMT Returns to surface: 10 bbls
 Floats Held: No Floats Run
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)
 W.O.C. for 14.00 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 24-Oct-04
 Lead : 490 sx Class B Cement
 + 3% Econolite
 + 10.00 lb/sx Phenoseal
2.88cuft/sx, 1411.2 cuft slurry at 11.5 ppg
 Tail : 230 sx 50/50 Std:POZ Cement
 + 2% Bentonite
 + 6 lb/sx Phenoseal
1.33 cuft/sx, 305.9 cuft slurry at 13.5 ppg
 Displacement: 153 bbls
 Bumped Plug at: 18:00 hrs w/ 1050 psi
 Final Circ Press: 1000 psi
 Returns during job: Yes
 CMT Returns to surface: 40 bbls
 Floats Held: X Yes No

Production Cement

Date cmt'd: 27-Oct-04
 Cement : 240 sx 50/50 Std:POZ Cement
 + 3% Bentonite Gel
 + 3.5 lb/sx Phenoseal
 + 0.20% CFR-3
 + 0.80% Halad@-9
 + 0.1% HR-5
1.45 cuft/sx, 348.0 cuft slurry at 13.1 ppg
 Displacement: 91.2
 Bumped Plug: Yes
 Final Circ Press: 300 psi
 Returns during job: No
 CMT Returns to surface: No
 Floats Held: X Yes No

Schematic prepared by:
 Steven O. Moore, Drilling Engineer
 24-November-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 @ 193'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 225', 190', 146', 103'. Total: 4
7" Intermediate	DISPLACED W/ 153 BBLs. DRILL WATER. CENTRALIZERS @ (estimated depths) 3810', 3735', 3651', 3564', 3478', 3392', 214', 127', 87'. TURBOLIZERS @ (estimated depths) 2781', 2738', 2695', 2651', 2608', 2565', 2522'. Total: 9 Total: 7
4-1/2" Prod.	No centralizers were run. The cement was pumped in an air hole - therefore there were no returns during cementing. Per our plans we did not circulate cement to surface. We lapped cement inside the 7" casing.