

Well Name: San Juan 29-5 #5F
 API #: 30-039-27860
 Location: 660' FSL & 300' FEL
Sec. 33 - T29N - R5W
Rio Arriba County, NM
 Elevation: 6601' GL (above MSL)
 Dri Rig RKB: 13' above Ground Level
 Datum: Dri Rig RKB = 13' above GL

Spud: 29-Jan-05
 Spud Time: 1:30
 Date TD Reached: 7-Mar-05
 Release Dri Rig: 9-Mar-05
 Release Time: 0:00

Surface Casing Date set: 29-Jan-05
 Size 9 5/8 in
 Set at 229 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 229 ft
 TD of 12-1/4" hole 240 ft

Notified BLM @ 08:00 hrs on 26-Jan-05
 Notified NMOCD @ 08:00 hrs on 26-Jan-05

Intermediate Casing Date set: 2-Feb-05
 Size 7 in 90 jts
 Set at 3838 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 150 % Top of Float Collar 3794 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3838 ft
 Pup @ ft TD of 8-3/4" Hole 3848 ft

Notified BLM @ 10:21 hrs on 01-Feb-05
 Notified NMOCD @ 10:21 hrs on 01-Feb-05

Production Casing: Date set: 8-Mar-05
 Size 4 1/2 in 189 jts
 Set at 0 ft 2 pups
 Wt. 11.6 ppf Grade N-80
 Hole Size 6 1/4 in Conn LTC
 Excess Cmt 50 %
 T.O.C. (est) 3638
 Marker Jt @ 5189 ft
 Marker Jt @ 7711 ft
 Marker Jt @ ft

Notified BLM @ hrs on 3/7/05
 NMOCD @ hrs on 3/7/05

Top of Float Collar 8054 ft
 Bottom of Casing Shoe 8055 ft

TD of 6-1/4" Hole: 8055 ft

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

☒ New
☐ Used

☒ New
☐ Used

Surface Cement

Date cmt'd: 29-Jan-05
 Lead : 150 sx Class G Cement
 + 3% 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: 09:11 hrs w/ 439 psi
 Final Circ Press: 146 psi @ 0.6 bpm
 Returns during job: YES
 CMT Returns to surface: 5 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: 2-Feb-05
 Lead : 410 sx Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 3% D079 Extender
 + 0.20% D046 Antifoam
 + 0.05 gal/sx D047 Antifoam
 + 10.00 lb/sx Phenoseal
2.72 cuft/sx, 1115.2 cuft slurry at 11.7 ppg
 Tail : 230 sx 50/50 POZ : Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 2% D020 Bentonite
 + 1.50 lb/sx D024 Gilsonite Extender
 + 2% S001 Calcium Chloride
 + 0.10% D046 Antifoam
 + 6 lb/sx Phenoseal
1.31 cuft/sx, 301.3 cuft slurry at 13.5 ppg
 Displacement: 153.7 bbls
 Bumped Plug at: 13:30 hrs w/ 1600 psi
 Final Circ Press: 1200 psi @ 2.0 bpm
 Returns during job: YES
 CMT Returns to surface: 75 bbls
 Floats Held: X Yes No
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)
 W.O.C. for 9.50 hrs (plug bump to test csg)

Kick-off Plug Cement

Date cmt'd: 22-Feb-05
 Lead : 75 sx Class G Cement
 + 0.15% D167 Uniflac
 + 0.15% D065 Dispersant
 + 0.15% D800 Retarder
 + 0.1% D046 Antifoam
1.13 cuft/sx, 84.75 cuft slurry at 16.0 ppg

Production Cement

Date cmt'd: 8-Mar-05
 Lead : 155 sx LiteCrete
 + 0.50% D112
 + 0.25% D065 Dispersant
 + 0.15% D800 Retarder
 + 0.03 gal/sx D047 Antifoam
 + 1 lb/bbl CemNet
2.53 cuft/sx, 392.2 cuft slurry at 9.5 ppg
 Tail : 200 sx 50/50 POZ : Class G Cement
 + 0.25 lb/sx D029 Cellophane Flakes
 + 3% D020 Bentonite
 + 1.00 lb/sx D024 Gilsonite Extender
 + 0.25% D167 Fluid Loss
 + 0.15% D065 Dispersant
 + 0.10% D800 Retarder
 + 0.10% D046 Antifoam
 + 3.5 lb/sx Phenoseal
1.45 cuft/sx, 290.0 cuft slurry at 13.0 ppg
 Displacement: 125 bbls
 Bumped Plug: 20:52 hrs w/ 2000 psi
 Final Circ Press: 1200 psi @ 2.0 bpm
 Returns during job: None Planned
 CMT Returns to surface: None Planned
 Floats Held: X Yes No

Schematic prepared by:
 Michael P. Neuschafer, Drilling Engineer
 11-March-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 @ 188'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 219', 145', 102', 59'. Total: 4
7" Intermediate	DISPLACED W/ 153.7 BBLs. DRILL WATER. CENTRALIZERS @ 3828', 3751', 3664', 3579', 3492', 3407', 211', 82', 39'. TURBOLIZERS @ 2762', 2719', 2676'. Total: 9 Total: 3
4-1/2" Prod.	Dusting while drilling original 6 1/4" hole. Hole got wet and pipe got stuck while POOH. Fished for 17+ days. Able to get part of drill string out of hole and pushed the rest to bottom. Set kick-off plug at 8720' and drilled sidetrack to TD on mud. Set 4 1/2" @ 8055. Pumped LiteCrete cement slurry and had mud returns to surface when plug was bumped.
4-1/2" Prod.	CENTRALIZERS @ 8051', 7923', 7795', 7691', 7563', 7439', 7311', 7184', 7061', 6933', 6805', 6677', 6506', 6336', 6166', 5997', 5827', 5657', 5486', 5317', 5127'. Total: 21