

END OF WELL SCHEMATIC

Well Name: San Juan 32-8 #233A
 API #: 30-045-32404
 Location: 790' FSL & 1610' FEL
 Sec. 30 - T32N - R8W
 San Juan County, NM
 Elevation: 6586' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Spud: 28-Jul-04
 Release Drl Rig: 1-Aug-04
 Move-In Cav Rig: 5-Aug-04
 Release Cav Rig: 30-Aug-04

Note - this well is equipped with rods & pump
 7-1/16" 3M x 2-3/8" EUE 8rd Bonnet
 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 @ 12:34 hrs on 25-Jul-04
 Notified NMOCD @ 12:37 hrs on 25-Jul-04

Intermediate Casing Date set: 31-Jul-04
 Size 7 in 73 jts
 Set at 3116 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 160 % Top of Float Collar 3071 ft
 T.O.C. SURFACE Bottom of Casing Shoe 3116 ft
 Pup @ ft TD of 8-3/4" Hole 3125 ft
 Pup @ ft
 Notified BLM @ 15:44 hrs on 30-Jul-04
 Notified NMOCD @ 15:47 hrs on 30-Jul-04

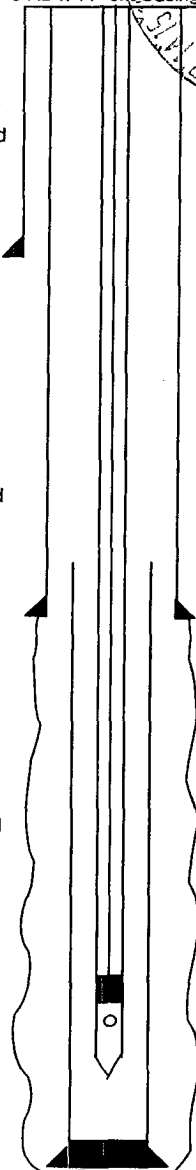
Production Liner Date set: 28-Aug-04
 Size 5 1/2 in
 Nominal Wt. 15.5 ppf
 Grade J-55 Connections: LTC
 # Jnts: 11
 Hole Size 6.25 / 9.5 inches
 Underreamed 6-1/4" hole to 9.5" from 3125' to 3565'
 Top of Liner 3080 ft
 PBTD 3563 ft
 Bottom of Liner 3565 ft

This well was cavitated.

☒ New
☐ Used

☒ New
☐ Used

☒ New
☐ Used



TD 3,565 ft

Surface Cement Date cmt'd: 29-Jul-04
 Lead: 160 sx Class G Cement
 + 2% BWOC S001 CaCl2
 + 0.25 lb/sx D029 Cellophane Flakes
 1.16 cuft/sx, 174 cuft slurry at 15.8 ppg
 Displacement: 14.8 bbls fresh wtr
 Bumped Plug at: did not bump plug
 Final Circ Press: 150 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 (before starting NU BOP)
 W.O.C. for 12.00 hrs (before testing casing)

Intermediate Cement Date cmt'd: 31-Jul-04
 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
 2.61 cuft/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 Gilonite
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.1% D046 Antifoam
 1.27 cuft/sx, 127 cuft slurry at 13.5 ppg
 Displacement: 124.4 bbls
 Bumped Plug at: 19:45 hrs w/ 1325 psi
 Final Circ Press: 850 psi @ 2.0 bpm
 Returns during job: YES
 CMT Returns to surface: 20 bbls
 Floats Held: ☒ Yes ☐ No

UNCEMENTED LINER

Schematic prepared by:
 Steven O. Moore, Drilling Engineer
 7-Sept-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', 146', 103', & 59'. Total: 4
7" Intermediate	DISPLACED W/ 20 BBLs. FRESH WATER AND 104.4 BBLs SLIGHTLY POLYMERIZED 8.4PPG DRILLING MUD. CENTRALIZERS @ 3106', 3028', 2942', 2859', 2773', 2687', 204', 80', & 37'. Total: 9
	TURBOLIZERS @ 2212', 2169', & 2126'. Total: 3
5.5" Liner	Ran 6-1/4" bit & 3-1/2" OD bit sub w/ float on btm of liner. Ran liner w/ TIW H-Latch Drop Off Tool (no liner hanger).
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3151'-3156', 3183'-3189', 3258'-3269', 3288'-3292', 3318'-3322', 3334'-3346', 3371'-3378', 3380'-3392', 3402'-3410', 3412'-3419', 3470'-3477'. TOTAL SHOTS = 332.
Tubing	2-7/8" EUE 8rd box Orange Peeled Mud Anchor with eight each 0.25" x 8" slots just below the upset, 2-7/8" x 2-3/8" EUE 8rd crossover collar, 2-3/8" OD expendable check, 2-3/8" OD (1.78" ID) F-Nipple, 110 jts 2-3/8" 4.7# J-55 EUE 8rd tubing and 1 ea 10', 1 ea 6' & 1 ea 4' x 2-3/8" EUE 8rd subs under top jt of tubing. Bottom of Mud Anchor at 3539'. F-Nipple at 3508' MD RKB.
Pump & Rods	12" long strainer attached below 1-1/2" RWAC-Z insert pump with 1 ea 4' long x 3/4" OD pony rod on top of pump 139 ea 3/4" OD rods, spaced out with 1 ea 8', 1 ea 6' & 1 ea 2' x 3/4" OD pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3508' MD RKB