

END OF WELL SCHEMATICWell Name: Blanco #204AAPI #: 30-045-32408Location: 775' FNL & 1000' FWLSec. 26 - T31N - R8WSan Juan County, NMElevation: 6312' GL (above MSL)Drl Rig RKB: 13' above Ground LevelDatum: Drl Rig RKB = 13' above GLSpud: 14-Aug-04Release Drl Rig: 18-Aug-04Move In Cav Rig: 28-Aug-04Release Cav Rig: 8-Sep-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 CasingDate set: 15-Aug-04Size 9 5/8 inSet at 229 ft# Jnts: 5Wt. 32.3 ppfGrade H-40Hole Size 12 1/4 inConn STCExcess Cmt 125 %T.O.C. SURFACECsg Shoe 229 ftTD of 12-1/4" hole 240 ftNotified BLM @ 12:20 hrs on 13-Aug-04Notified NMOCD @ 12:22 hrs on 13-Aug-04☒ New
☐ Used**Intermediate Casing**Date set: 17-Aug-04Size 7 in

69 jts

Set at 2963 ft

0 pups

Wt. 20 ppfGrade J-55Hole Size 8 3/4 inConn STCExcess Cmt 160 %Top of Float Collar 2917 ftT.O.C. SURFACEBottom of Casing Shoe 2963 ftPup @ ftTD of 8-3/4" Hole 2970 ftPup @ ftNotified BLM @ hrs on Notified NMOCD @ hrs on ☒ New
☐ Used**Production Liner**Date set: 4-Sep-04Size 5 1/2 inNominal Wt. 15.5 ppfGrade J-55# Jnts: 8Hole Size 6.25 / 9.5 inches

Underreamed 6-1/4" hole to 9.5" from 2969' to 3295'

Top of Liner 2932 ftPBDT 3294 ftBottom of Liner 3295 ft☒ New
☐ Used**Surface Cement**Date cmt'd: 15-Aug-04Lead : 150 sx Class G Cement+ 2% BWOC S001 CaCl2+ 0.25 lb/sx D029 Cellophane Flakes1.16 cuft/sx, 174 cuft slurry at 15.8 ppgDisplacement: 14.8 bbls fresh wtrBumped Plug at: 06:44 hrs w/ 366 psiFinal Circ Press: 86 psi @ 0.4 bpmReturns during job: YESCMT Returns to surface: 14Floats Held: No floats usedW.O.C. for 6.00 hrs (plug bump to start NU BOP)**Intermediate Cement**Date cmt'd: 17-Aug-04Lead : 385 sx Class G Cement+ 3% D079 Extender+ 0.25 lb/sx D029 Cellophane Flakes+ 0.2% D046 Antifoam+ 0.05 gal/sx D047 Antifoam2.61 cuft/sx, 1004.9 cuft slurry at 11.7 ppgTail : 100 sx 50/50 POZ : Class G cement+ 2% D020 Bentonite+ 2% S001 Calcium Chloride+ 5 lb/sx D024 Gilsontite+ 0.25 lb/sx D029 Cellophane Flakes+ 0.1% D046 Antifoam1.27 cuft/sx, 127 cuft slurry at 13.5 ppgDisplacement: 124.9 bblsBumped Plug at: 22:54 hrs w/ 1276 psiFinal Circ Press: 732 psi @ 2.2 bpmReturns during job: YESCMT Returns to surface: 30 bblsFloats Held: X Yes No**UNCEMENTED LINER**Schematic prepared by:
Steven O. Moore, Drilling Engineer
14-Sept-2004TD 3,295 ft

This well was NOT cavitated.

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 @ 189'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 219', 146', 103', & 59'. Total: 4
7" Intermediate	DISPLACED W/ 20 BBLs. FRESH WATER AND 104.9 BBLs SLIGHTLY POLYMERIZED 8.4PPG DRILLING MUD. CENTRALIZERS @ 2951', 2874', 2787', 2701', 2614', 2528', 210', 82', & 39'. TURBOLIZERS @ 2181', 2139', 2095', & 2052'. Total: 9 Total: 4
5.5" Liner	Ran bladed shoe with float valve on bottom of liner. Ran and set the 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: 3014'-3018', 3054'-3058', 3121'-3134', 3136'-3144', 3180'-3192', 3195'-3203', 3205'-3210': Total 216 holes
Tubing	30.74' x 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 XO collar, 2-3/8" OD (1.78" ID) F-Nipple, 1 ea 10.20' x 2-3/8" EUE 8rd pup jt, and 102 jts 2-3/8" 4.7# J-55 EUE 8rd tbq. Bottom of Mud Anchor at 3274'. Top of F-Nipple at 3243' MD RKB.
Pump & Rods	12" long strainer attached below 2" x 1-1/2" x 12" RWAC-Z insert pump, 1 ea 4' x 3/4" pony rod on top of pump, 129 each 3/4" rods, spaced out w/o any pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3243' MD RKB