

ConocoPhillips

END OF WELL SCHEMATIC

Well Name: FC State Com 3A
 API #: 30-045-32265
 Location: 795' FSL & 1800' FEL
Sect 36 - T31N - R9W
San Juan County, NM
 Elevation: 6358' GL (above MSL)
 Drl Rig RKB: 13' above Ground Level
 Datum: Drl Rig RKB = 13' above GL

Spud: 18-May-04

Release Drl Rig: 21-May-04

Move In Cav Rig: 12-Jun-04

Release Cav Rig: 22-Jun-04

Note - this well is equipped with rods & pump
 7-1/16" 3M x 2-1/2" EUE 8rd Bonnet
 11" 3M x 7-1/16" 3M Tubing Head
 9-5/8" 8 RD x 1-1/2" 3M Casing Head

Surface Casing Date set: 18-May-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 150 %
 T.O.C. SURFACE

Csg Shoe 235 ft

TD of 12-1/4" hole 245 ft

Notified BLM @ Not req'd hrs on
 Notified NMOCD @ 18:10 hrs on 16-May-04

Intermediate Casing Date set: 21-May-04
 Size 7 in 68 jts
 Set at 2912 ft 0 pups
 Wt. 20 ppf Grade J-55
 Hole Size 8 3/4 in Conn STC
 Excess Cmt 160 % Top of Float Collar 2867 ft
 T.O.C. SURFACE Float Shoe 2912 ft
 Pup @ ft TD of 8-3/4" Hole 2918 ft
 Pup @ ft

Notified BLM @ Not req'd hrs on
 Notified NMOCD @ hrs on 19-May-04

Production Liner Date set: 20-Jun-04
 Size 5 1/2 in
 Nominal Wt. 15.5 ppf
 Grade J-55 Connections: LTC
 # Jnts: 8
 Hole Size 6.25 / 9.5 inches
 Underreamed 6-1/4" hole to 9.5" from 1500' to 2916'
 Top of Liner 2892 ft
 PBDT 3240 ft
 Bottom of Liner 3241 ft

☒ New
☐ Used

☒ New
☐ Used

☒ New
☐ Used

Surface Cement

Date cmt'd: 19-May-04

Lead : 150 sx Class G Cement
 + 2% S001 Calcium Chloride
 + 0.25 lb/sx D029 Cellophane Flakes
1.16 cuft/sx, 174 cuft slurry at 15.8 ppg

Displacement: 15.0 bbls fresh wtr

Bumped Plug at: 01:30 hrs w/ 350 psi

Final Circ Press: 125 psi @ 0.5 bpm

Returns during job: YES

CMT Returns to surface: 15 bbls (72.6 sx)

Floats Held: No floats used

W.O.C. for 4.50 hrs (plug bump to start NU BOP)

W.O.C. for 6.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 21-May-04

Lead : 380 sx Class G Cement
 + 3% D079 Extender
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.2% D046 Antifoam
2.61 cuft/sx, 991.8 cuft slurry at 11.7 ppg

Tail : 100 sx 50/50 POZ : Class G cement

+ 2% D020 Bentonite
 + 2% BWOC S001 Calcium Chloride
 + 1.5 lb/sx D024 Gilsonite
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.2% D046 Antifoam
1.27 cuft/sx, 127 cuft slurry at 13.5 ppg

Displacement: See Comments

Bumped Plug at: 12:10 hrs w/ 1150 psi

Final Circ Press: 575 psi at 2 bpm

Returns during job: YES

CMT Returns to surface: 30 bbls (132.6 sx)

Floats Held: X Yes No

UNCEMENTED LINER

Schematic prepared by:
 Melea Mechler, Development Engineer
 28-June-2004

This well was NOT cavitated.

TD 3,245 ft

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. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 225', 147', 103' & 59'. Total: 4
7" Intermediate	DISPLACED W/20 BBLs. FRESH WATER & 96 BBLs. 8.4 PPG SLIGHTLY POLYMERIZED DRILL WATER CENTRALIZERS @ 2903', 2824', 2736', 2650', 2566', 2483', 212', 82', 38' TURBOLIZERS @ 2059', 2015', 1972', 1929', 1886' Total: 9 Total: 5
5.5" Liner	Ran bladed shoe with float valve on bottom of liner. Ran and set the liner w/ TIW H-Latch liner assembly.
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3160'-3172', 3144'-3158', 3132'-3138', 3127'-3129', 3122'-3125', 3105'-3114', 3069'-3074', 3064'-3066', 3057'-3060', 3050'-3056', 3042'-3046', 3036'-3040', 3019', 3024', 3006'-3012', 3001'-3004', 2990'-2996', 2975'-2984'. Total 396 holes
Tubing	2-7/8" Orange Peeled Mud Anchor 30.30' long 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 10.10' pup jt, 1 ea 7.92' pup jt, and 100 jts 2-3/8" 4.7# J-55 EUE 8rd tubing Bottom of Mud Anchor at 3226'. Top of F-Nipple at 3195' 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, 127 each 3/4" rods, spaced out with 2' & 8' x 3/4" OD pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3195' MD RKB