

Mary K #1
660' FNL, 775' FWL
S29, T10S, R25E
Chaves County, New Mexico

Prepared by: Mark Young
Date: 02/06/2002

Plan: Plug and Abandon well

13 3/8" 61# casing set @ 247' cemented w/200 sks "C" + 2% CaCl₂ – circulated cement
8 5/8" 24# casing set @ 787' cemented w/175 sks "C" and 200 sks Lite "C" – circulated cement

4 1/2" 9.5# casing set @ 3981' cemented w/300 sks 50-50 Poz "C"
PBSD – 3943'

1" from 1350' to surface w/"C" – circulated cement

2 3/8" N-80 4.7# set @ 3898'

SN @ 3810'

Perfs: 3551'-53', 3564'-65', 3577'-77.5', 3655'-59', 3665'-66', 3671'-74', 3787'-88',
3797'-99', 3860', 3885'-86'. 1 JHPF

Plug #1 set from 3,898' – 3,324' w/35 sks "C" + 2% CaCl₂ 1.32 cu.ft/sk, 6.3 gal/sk, 14.8 lbs/gal

Plug #2 set from 1,280' – 1,116' w/10 sks "C" + 2% CaCl₂

Plug #3 set from 767' – 607' w/10 sks "C" + 2% CaCl₂

Plug #4 set at surface w/10 sks "C" + 2% CaCl₂

1. Have small working pit dug and fenced
2. MIRUPU, ND wellhead, NU BOP, bring 2 jts 2 3/8" tubing
3. Circulate casing w/9# gelled H₂O. 3898' x .0108 bbls/lin. ft = 42 bbls, 3898' x .00387 bbls/lin ft = 15 bbls, total of 57 bbls to circulate. If we can't circulate casing, we will run a gauge ring and set a WLSCIBP @ 3,540'
4. Drop standing valve and test tubing to 2000 psi. Retrieve standing valve.
5. Plug #1 set @ 3898' – 3324'
 - a. Tie onto tubing and break circulation
 - b. Pump 6 bbls fresh H₂O ahead
 - c. Mix 35 sks "C" + 2% CaCl₂ = 8.2 bbls slurry
 - d. Displace w/2 bbls fresh H₂O and 10.8 bbls 9# gelled H₂O
 - e. Top of plug @ 3,293'
6. TOOH stand back 2 stds and lay down 18 jts tubing, WOC TIH w/2 3/8" tubing, tag cement @ 3,293'
7. TOOH w/tubing (only if BLM requires us to strap tubing). If not, TOOH w/60 jts 2 3/8" tubing and set @ 1280'.
8. Plug #2 set @ 1280' – 1116'

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- a. Tie onto tubing and break circulation
 - b. Pump 6 bbls fresh H₂O ahead
 - c. Mix 10 sks "C" + 2% CaCl₂ = 2.4 bbls
 - d. Displace w/2 bbls fresh H₂O and 2.3 bbls 9# gelled H₂O
 - e. Top of plug @ 1,116'
9. TOOH and lay down 10 jts 2 3/8" tubing and set @ 767'.
10. Plug #3 set @ 767' – 607'
- a. Tie onto tubing and break circulation
 - b. Pump 3 bbls fresh H₂O ahead
 - c. Mix 10 sks "C" + 2% CaCl₂ = 2.4 bbls
 - d. Displace w/1 bbl fresh H₂O and 1.3 bbls 9# gelled H₂O
 - e. Top of plug @ 607'
11. TOOH stand back 1 std and lay the rest down.
12. ND BOP
13. TIH w/std of tubing
14. Plug #4 set @ surface
- a. Tie onto tubing and break circulation
 - b. Pump 1 bbl fresh H₂O ahead
 - c. Pump 10 sks "C" + 2% CaCl₂ = 2.4 bbls to surface
15. Flush out the 2 jts of tubing.
16. Install dry hole marker.
- Total sacks of "C" + 2% CaCl₂ = 65 sks
- Total fresh H₂O = 160 bbls

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