

- c. If ball-off occurs, hold press on formation for 15 mins.
Surge balls off and pump remainder of job.
 - d. Max surf press should be held below 4000 psi.
7. SWI for 30 min. Bleed off press and release pkr. TIH w/pkr to wipe any remaining balls off of perfs and TOH.
 8. Frac Gallup perfs f/6024'-6044' down 7" casing with approx. 40,000 gal gelled fluid and 60,000 lbs of sand. Flush to top perf w/2% KCl wtr. SDON to allow gels to break.

Notes: a. Actual volumes and additives will be specified by engineering.
b. Maximum surface pressure should be held below 4000 psi.

9. Open well and bleed off press. TIH w/Baker Model "G" RBP on 2-3/8" tbg & set @ 6000'±. Press tst RBP & 7" csg to 4000 psi. Spot 200 gal acid f/5970' to 5840' & POH.
10. Perforate the Gallup formation with 1 - 0.38" hole per foot using deep penetrating charges as follows:

5850 - 5900' ; 1 SP2F	(26 holes)
5916 - 5944' ; 1 SP2F	(15 holes)
5950 - 5960' ; 1 SPSF	(6 holes)
5961 - 5970' ; 1 SPF	(10 holes)
TOTAL	57 holes

Note: CBL indicates excellent bond throughout this interval.

11. TIH w/Baker Model "C" full bore pkr & 2-3/8" SSN on 2-3/8" production tbg to 5700'±. Set pkr and press annulus to 1000 psi.
12. Acidize Gallup perfs f/5850-5970' w/4500 gal 15% HCl @ 4-6 BPM using 90 1.3 SG ball sealers. Flush to bottom perf w/2% KCl wtr.

Notes: A. Actual acid volumes and additives will be specified by engineering.
B. Drop balls in groups of 10 for each 10 bbls of acid after pumping the 1st 16 bbls of acid.
C. If ball-off occurs, hold press on formation for 15 mins.
Surge balls off and pump remainder of job.
D. Max surf press should be held below 4000 psi.

13. SWI for 30 min. Bleed off press and release pkr. TIH w/pkr to wipe any remaining balls off of perfs & TOH.
14. Frac Gallup perfs f/5850'-5970' down 7" csg w/approx 100,000 gal gelled fluid & 150,000 lbs of sand. Flush to top perf w/2% KCl wtr. SDON to allow gels to break.

Notes: A. Actual volumes and additives will be specified by engineering.
B. Maximum surface pressure should be held below 4000 psi.

15. Open well & bleed off press. Clean out to RBP w/hydrostatic bailer. TIH w/retrieving head for RBP 6000'±. Pull RBP up hole & set @ ~~3000'~~ ± 5000 Press tst RBP to 2000 psi & TOH.