

HUMPHREY QUEEN UNIT #31 WIW
LANGLIE MATTIX QUEEN FIELD
LEA COUNTY, NEW MEXICO

Stimulation and Completion Program

1. GIH and clean out to PBTD $\pm 3625'$.
2. Spot ± 100 gal. 3450 - 3595'. Run PDC log and correlate to Gearhart Dual Laterlog dated 12/9/82. Perforate the Penrose with 1 jspf as follows:
 - 3550 - 3554'
 - 3560 - 3562'
 - 3568 - 3572'
 - 3582 - 3592' (24 holes)
3. Pump spot acid away. Acidize with 2000 gals. 15% N.E. acid* and ± 30 RCNBS. Swab back and test.
4. If conditions warrant, frac down tubing with 12500 gals. Terra frac 'T' 1400** and 20,000 lb. 20/40 sand and 10,000 lb. 10/20 sand at ± 15 BPM.
 - a. Pump 3000 gal. Terra Frac 'T' 1400 pad.
 - b. Pump 1000 gal. Terra Frac 'T' 1400 with 1 ppg 20/40 sand.
 - c. Pump 1500 gal. Terra Frac 'T' 1400 with 2 ppg 20/40 sand.
 - d. Pump 2000 gal. Terra Frac 'T' 1400 with 3 ppg 20/40 sand.
 - e. Pump 2500 gal. Terra Frac 'T' 1400 with 4 ppg 20/40 sand
 - f. Pump 2500 gal. Terra Frac 'T' 1400 with 4 ppg 10/20 sand
 - g. Flush to perfs and shut in.
5. Test as directed. Set RBP $\pm 3545'$. Spot ± 100 gals. 15% N.E. acid 3475' - 3540'. Perf Penrose with 1 jspf as follows:
 - 3478 - 3482'
 - 3484 - 3514'
 - 3520 - 3526'
 - 3530 - 3536'
 - 3538 - 3540' (53 holes)
6. Pump spot acid away. Acidize with 3900 gals. 15% N.E. HCL* and ± 60 RCNBS. Swab back and test.
7. If conditions warrant, frac down tubing with 25,000 gals. Terra frac 'T' 1400** and 40,000 lbs. 20/40 sand and 20,000 lbs. 10/20 sand at ± 15 BPM.
 - a. Pump 6000 gals. Terra frac 'T' 1400 pad.
 - b. Pump 2000 gals. Terra frac 'T' 1400 with 1 ppg 20/40 sand.
 - c. Pump 3000 gals. Terra frac 'T' 1400 with 2 ppg 20/40 sand.
 - d. Pump 4000 gals. Terra frac 'T' 1400 with 3 ppg 20/40 sand.
 - e. Pump 5000 gals. Terra frac 'T' 1400 with 4 ppg 20/40 sand.
 - f. Pump 5000 gals. Terra frac 'T' 1400 with 4 ppg 10/20 sand.
 - g. Flush to perfs and shut in.
8. Test as directed. Set RBP $\pm 3474'$. Spot ± 100 gals. 15% N.E. acid 3418' - 3470'. Perf Queen with 1 jspf as follows:
 - 3418'-3422'
 - 3424'-3436'
 - 3438-3448'
 - 3452-3466'
9. Pump spot acid away. Acidize with 3300 gals. 15% N.E. HCL* and ± 50 RCNBS. Test.
10. If conditions warrant, frac as in step 7. Test as directed. Pull RBP at 3474' and 3545'.

RECEIVED
JUN 10 1983
O.C.D.
HOBBS OFFICE