

19. Hydrotest in hole (to 10,000 psi) with 2.347" ID PBR seal assembly on  $\pm 12,415'$  of 3 1/2" 12.95# N-80 workstring. Space out and land seal assembly in PBR with 20,000# compression. Load backside with 9 ppg packer fluid and test to 3,000 psi. ND BOP. NU wellhead. Swab well down to  $\pm 8,000'$  from surface. RD workover unit.
20. RU lubricator. RIH with 1 11/16" Enerjet and gamma locator. Perforate Sinatra with 116 holes at 4 SPF with 0.26" holes and 90° phasing. Correlate perforations to GR CNL/LDT log dated 5/16/84. Perforate interval as follows:

<u>Interval</u>	<u>No. Holes</u>
14,457' - 14,474'	68
14,488' - 14,500'	<u>48</u>
Total	116

Monitor well for pressure buildup. RD wireline.

21. MIRU Halliburton to acidize and fracture stimulate Sinatra perms down 3 1/2" tubing. NU wellhead isolation tool. Test all surface connections to 11,000 psi. Acidize perforations with 1,000 gals MOD-101 and fracture stimulate with 52,000 gals of 60% Alcofoam and 36,300# 20/40 Super Prop as follows:

<u>Stage</u>	<u>Volume (gals)</u>	<u>Fluid Type</u>	<u>Prop. Concen. ( lb/gal )</u>	<u>Description</u>
1	1,000	MOD-101	0	Acid Spearhead
2	3,000	60% Alcofoam	0	Spacer-Pre Pad
3	34,000	60% Alcofoam	0	Pad
4	14,000	60% Alcofoam	0.5 to 3 (ramp)	20/40 Super Prop
5	4,000	60% Alcofoam	3	20/40 Super Prop
6	4,100	60% Alcofoam	0	Flush

Anticipated Rate      16 BPM  
 Anticipated Pressure    9,200 psi  
 Maximum Pressure    11,000 psi

- \* Hold and monitor 3,000 psi on backside during job.
- \* Open choke valve on wellhead and monitor during job to verify that wellhead isolation tool is working.
- \* After frac, record ISIP, 5, 10, and 15 minute shut-in pressure.

22. ND wellhead isolation tool. Flow well back to pit to cleanup sand and fluid. Return well to production and report test volumes daily to the Midland Office.
23. RU slickline unit. NU lubricator and RIH with plug for Otis R nipple (2.125") on slickline and set in tail pipe at  $\pm 12,500'$  (below RLA). Bleed tubing pressure to zero to test plug. RD slickline unit.