



## MEMORANDUM

To: JEANIE MCMILLIAN ( REGULATORY AFFAIRS )  
From: ENOS FANGUE ( PRODUCTION ENGINEERING )  
Re: HOOD STATE #1  
CROSSROADS FIELD  
RECOMPLETE FROM LOWER DEVONIAN TO UPPER DEVONIAN  
AFE 210044  
Date: SEPTEMBER 23, 2002

### REQUEST

Production Engineering requests approval to perform a recompletion from the Lower Devonian perforations to the Upper Devonian. All operations will be performed with a workover rig, electric line, wireline and pump equipment.

### PARAMETERS

ANTICIPATED PROJECT START DATE: SEPTEMBER 30, 2002 OR SOONER  
CURRENT SURFACE PRESSURE: TEMPORARILY ABANDONED

### STATUS

The current Devonian completion (11986' - 12024') has watered out. The Hood State #1 has cumulative production of approximately 23 MBO since initial completion in February 1998.

### PROCEDURE

1. Test anchors. Evaluate tree assembly.
2. MIRU workover rig. ND tree. NU BOPE. Pressure test BOPE to 3500 psig.
3. MIRU electric line. RIH with Gauge Ring/Junk Basket. RIH and set Cement Retainer at 11970' RKB.
4. RIH with 2-7/8" production tubing and stinger and squeeze Lower Devonian perforations with 50 sacks of 16.5 ppg Class "H" cement. Squeeze 500 psig over initial injection pressure. POOH.
5. MIRU electric line. Perforate Upper Devonian as follows: ~~11982' - 11988' and~~ 11912' - 11932'.
6. RIH with 2-7/8" production tubing and packer and set packer at 11850' RKB.
7. Swab test Upper Devonian. Acidize perforations with 2500 gallons of 15% NEFE "Anti-Sludge" HCl.
8. Swab test Upper Devonian.
9. POOH with 2-7/8" production tubing and packer.
10. RIH with 2-7/8" production tubing and set up for progressive cavity pump installation.
11. ND BOPE.
12. RD and release workover rig. Turn well over to production operations.

XC: PRODUCTION ENGINEERING FILE  
WELL RECORD FILE (CFR)

