

## STARR F. SCHLOBOHM OIL OPERATIONS

### TUCKER LEASE - MEOR FIELD TRIAL CASE HISTORY #102

Oil Field Name: Brownville Northwest  
Location: T10S, R22W, Sec. 1  
KS Dept. of Revenue Lease Code: 108619

The Tucker lease is a 1 well lease that averaged about 15.5 BOD at completion in 1969. When first treated with Wel-Prep 5 in 1989 its average production had declined to about 1.8 BOD. The Tucker was selected as a candidate for MEOR treatment because of its failing production, limestone formation, and moderate down-hole temperature.

#### Tucker Completion History:

Drilled in .....	1969
Completion Depth .....	3930
Perforations .....	?
Casing Depth .....	?
Avg. oil production at completion .....	108 bbl/wk
Oil production 1990 (Before WP-5 Treatment) .....	12.6 bbl/wk
Oil/Water ratio at completion .....	1 : ?
Oil/Water ratio 1990 (Before Treatment) .....	1 : ?
Formation .....	Lansing, K.C.
Down Hole Temperature .....	80 - 85° F
Thickness of Oil Bearing Formation .....	3ft
Permeability (k) .....	?
Porosity .....	?
API Gravity .....	35°
Type Oil .....	Paraffinic
Water Saturation: .....	?
Initial Treatment Date: .....	01/12/1989

#### INITIAL TREATMENT METHOD:

The well bore fluids were pumped down, and 20 gallons of #2 diesel were injected through the annulus. A low volume slug of Wel-Prep 5 (15 gallons) was then injected, and followed with three barrels of lease water as a back flush. The well was shut in for 5 days and then turned back into production. Oil production was monitored daily.

#### PRE-TREATMENT

Oil: 12.6 bbls/wk  
Oil/water ratio: 1 : ?

#### POST-TREATMENT

14.3 bbls/wk  
1 : ?

COMMENTS: The Tucker lease began to show an response following initial treatment on 01/12/89. For the 21 full production weeks prior to its response the Tucker averaged 12.6 bbls/wk. The post-response period is 45 full production weeks that average 14.3 bbls/wk or a 13% increase. This equals 77 additional barrels of oil produced as of 12/31/1990.