

STARR F. SCHLOBOHM OIL OPERATIONS

HALL-B GORHAM LEASE - MEOR FIELD TRIAL CASE HISTORY #104

Oil Field Name: Gorham Field - Discovered in 1926
Location: SEC 35, T14S, R15W, Russell, Co., KS

The Hall-B Gorman lease is a 1-well lease producing from the Lansing, K.C. formation. It averaged about 140 BOD at completion and production had declined to about 2.75 BOD just prior to MEOR treatments. The Hall-B was selected as a candidate for MEOR treatment because of its failing production, limestone formation, and moderate down-hole temperature.

Hall-B Completion History:

Drilled in	09/26/1944
Completion Depth	3,050 ft.
Perforations	?
Casing Depth	? ft.
Avg. oil production at completion	9.5 bbl/day
Oil production 1990 (Before WP-5 Treatment)	2.75 bbl/day
Oil/Water ratio at completion	1 : 0
Oil/Water ratio 1990 (Before Treatment)	1 : 2
Type of Formation	Limestone
Down Hole Temperature	80 - 85° F
Formation.	Lansing, K.S.
Thickness of Oil Bearing Formation	48 ft.
Permeability (k)	?
Porosity	?
API Gravity	34°
Type Oil	Paraffinic
Water Saturation:	?
Initial Treatment Date:	????

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: 11* bbls/wk
Oil/water ratio: 1 : ?

POST-TREATMENT

9.5 bbls/wk
1 : ?

COMMENTS: The Hall 'B' lease was treated twice, once in November, 1989 and again 38 weeks later with low volume slugs of WP-5. Oil production was monitored weekly and showed little or no change through January, 1991 when the producer stopped collecting data. It is likely that this lease would have responded with increased production has the treatment regimen been more aggressive and regular.