

STARR F. SCHLOBOHM OIL OPERATIONS

HARTMAN-WINTER-WALTER LEASE (H-W-W) - MEOR FIELD TRIAL CASE HISTORY #101

Oil Field Name: Trapp, Discovered in 1929
Location: NW/4, NW/4, SW/4, SEC 10, T15S, R13W - Russell Co., KS

The H-W-W is a 1 well lease that averaged 75 BOD and 6 BWPD at completion in 1984. When treated in 1989 it averaged about 15 BOD and 10 BWPD. It was selected as a candidate for MEOR treatment because of its estimated reserves, failing production, limestone formation, and moderate down hole temperature.

H-W-W Completion History:

Drilled in	03/02/1984
Completion Depth	3,360 ft.
Perforations	3,060-3,072
Casing Depth	3,350 ft.
Avg. oil production at completion	75 bbl/day
Oil production 1990 (Before WP-5 Treatment)	16 bbl/day
Oil/Water ratio at completion	1 : 0.1
Oil/Water ratio 1990 (Before Treatment)	1 : 0.75
Type of Formation	Limestone
Down Hole Temperature	80 - 85° F
Thickness of Oil Bearing Formation	12 Ft.
Permeability (k)	?
Porosity	28%
API Gravity	39°
Type Oil	Paraffinic
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Water Saturation:	?
Initial Treatment Date:	11/26/1989

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: 111.9 bbls/wk
Oil/water ratio: 1 : 0.75

POST-TREATMENT

124.0 bbls/wk
1 : 0.75

COMMENTS: The H-W-W lease began to show an response following its second MEOR treatment. For the 72 full production weeks prior to its response the H-W-W averaged 111.0 bbls/wk. The post-response period is 28 full production weeks that average 124.0 bbls/wk or an 11% increase. This equals 339 additional barrels of oil produced as of 12/31/1990.