

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Rock Springs Site 6 Well No. 6-7 drilled in
SE1/4NE1/4NW1/4 Sec 15, T 18 N, R 106 W, Sweetwater County, Wyoming

| Sample number | | Run No. | Yield of product | | | | Specific gravity of oil at 60°/60° F | Properties of spent shale Tendency to coke | Remarks | |
|---------------|---------|---------|------------------|-------|-------------|------------|--------------------------------------|---|---------|------|
| | | | Weight percent | | Gal per ton | | | | | |
| Laramie | Their | | Oil | Water | Spent shale | Gas + loss | Oil ¹ / _{Water} | | | |
| OSCR69-560 | 100-101 | 45801 | 0.4 | 0.3 | 98.6 | 0.7 | 1.0a | 0.8 | None | |
| | 101-102 | 45802 | .1 | 1.4 | 97.7 | .8 | .2a | 3.4 | None | |
| | 102-103 | 45803 | .1 | 1.5 | 97.8 | .6 | .2a | 3.6 | None | |
| | 103-104 | 45804 | .1 | 1.4 | 97.5 | 1.0 | .1a | 3.4 | None | |
| | 104-105 | 45805 | .2 | .8 | 98.9 | .1 | .4a | 1.9 | None | |
| | 105-106 | 45806 | .9 | .3 | 98.3 | .5 | 2.4a | .7 | None | |
| | 106-107 | 45807 | 3.4 | 1.2 | 94.1 | 1.3 | 8.8 | 2.9 | 0.919 | None |
| | 107-108 | 45808 | 8.0 | .9 | 88.6 | 2.5 | 20.8 | 2.3 | .921 | None |
| | 108-109 | 45809 | 7.8 | 1.7 | 88.0 | 2.5 | 20.3 | 4.1 | .919 | None |
| | 109-110 | 45810 | 12.8 | 2.0 | 82.7 | 2.5 | 32.9 | 4.8 | .931 | None |
| | 110-111 | 45811 | 11.5 | 2.4 | 83.9 | 2.2 | 29.7 | 5.8 | .928 | None |
| | 111-112 | 45812 | 12.0 | 1.4 | 82.0 | 4.6 | 30.7 | 3.4 | .937 | None |
| | 112-113 | 45813 | 11.4 | 2.0 | 84.5 | 2.1 | 29.8 | 4.8 | .918 | None |
| | 113-114 | 45814 | 9.2 | 2.4 | 85.9 | 2.5 | 24.1 | 5.8 | .918 | None |
| | 114-115 | 45815 | 7.1 | 1.8 | 89.1 | 2.0 | 18.6 | 4.3 | .917 | None |
| | 115-116 | 45816 | 7.0 | 1.5 | 89.9 | 1.6 | 18.3 | 3.6 | .914 | None |
| | 116-117 | 45817 | 5.0 | 1.0 | 91.8 | 2.2 | 13.1 | 2.4 | .912 | None |
| | 117-118 | 45818 | 6.3 | 1.3 | 89.3 | 3.1 | 16.5 | 3.1 | .919 | None |
| | 118-119 | 45819 | 6.0 | 2.3 | 88.6 | 3.1 | 15.5 | 5.6 | .922 | None |
| | 119-120 | 45820 | 4.6 | 2.4 | 90.2 | 2.8 | 12.2 | 5.8 | .910 | None |
| | 120-121 | 45821 | 6.3 | 2.4 | 87.3 | 4.0 | 16.3 | 5.8 | .923 | None |
| | 121-122 | 45822 | 7.8 | 2.4 | 86.7 | 3.1 | 20.2 | 5.8 | .929 | None |
| | 122-123 | 45823 | 6.9 | 2.4 | 88.0 | 2.7 | 17.8 | 5.8 | .934 | None |
| | 123-124 | 45824 | 8.3 | 2.2 | 86.6 | 2.9 | 21.1 | 5.4 | .936 | None |
| | 124-125 | 45825 | 5.6 | 2.1 | 91.2 | 1.1 | 14.3 | 4.9 | .947 | None |
| | 125-126 | 45826 | 6.0 | 2.6 | 89.7 | 1.7 | 15.3 | 6.2 | .944 | None |
| | 126-127 | 45827 | 7.6 | 3.0 | 86.8 | 2.6 | 19.6 | 7.1 | .933 | None |
| | 127-128 | 45828 | 9.9 | 2.1 | 85.5 | 2.5 | 25.5 | 5.2 | .928 | None |
| | 128-129 | 45829 | 9.5 | 2.3 | 84.9 | 3.3 | 24.5 | 5.5 | .928 | None |
| | 129-130 | 45830 | 8.6 | 2.5 | 85.4 | 3.5 | 22.0 | 6.0 | .934 | None |

See footnote at end of table.

Core samples received November 1969; Assays made on air-dried samples

OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from U.S. Bureau of Mines Rock Springs Site 6 Well No. 6-7 (con.)

| Sample number | | Run No. | Yield of product | | | | Specific gravity of oil at 60°/60° F | | Properties of spent shale | | Remarks |
|---------------|-----------|---------|------------------|-------|-------------|------------|--------------------------------------|-----|---------------------------|------|---------|
| | | | Weight percent | | Spent shale | Gas + loss | Gal per ton | | Tendency to coke | | |
| Laramie | Their | | Oil | Water | | | | | | Oil | Water |
| OSCR69-560 | 130-131 | 45831 | 6.3 | 2.2 | 86.8 | 4.7 | 15.9 | 5.3 | 0.948 | None | |
| | 131-132 | 45832 | 8.6 | .9 | 88.3 | 2.2 | 21.8 | 2.2 | .953 | None | |
| | 132-133 | 45833 | 6.9 | 2.9 | 87.0 | 3.2 | 17.6 | 7.0 | .937 | None | |
| | 133-134 | 45834 | 12.7 | 2.2 | 81.0 | 4.1 | 33.2 | 5.3 | .917 | None | |
| | 134-135 | 45835 | 11.5 | 1.9 | 83.2 | 3.4 | 30.2 | 4.6 | .916 | None | |
| | 135-135.5 | 45836 | 11.2 | 1.0 | 84.7 | 3.1 | 29.2 | 2.4 | .922 | None | |

1/ "a"--indicates specific gravity estimated as 0.92.

Core samples received November 1969; Assays made on air-dried samples