

Colorado School of Mines Research Institute

April 9, 1980

P.O. BOX 112 • GOLDEN, COLORADO 80401

PHONE (303) 279-2581

CSMRI

| | Water gal/ton | Oil gal/ton | Specific Gravity | Gas + Loss |
|----------------------------------|------------------|----------------|---------------------|---------------|
| 271-272 Hole 78-10 244-281 | 7.83 | 0.000 | ---- | 0.139 |
| 272-273 " " " | 2.86 | 0.000 | ---- | 0.059 |
| 273-274 " " " | 4.03 | 0.000 | ---- | 0.326 |
| 274-275 " " " | 4.26 | 0.000 | ---- | 0.986 |
| 275-276 " " " | 5.09 | 0.000 | ---- | 1.16 |
| 276-277 " " " | 2.37 | 1.09 | 0.910 | 0.276 |
| 277-278 " " " | 3.53 | 0.466 | 0.910 | 1.00 |
| 279-280 " " " | 4.18 | 0.536 | 0.910 | 2.60 |
| 280-281 " " " | 4.79 | 0.369 | 0.910 | 3.06 |
| 90-91 Hole 3 Box 2 90-100 | 2.29 | 0.755 | 0.910 | 0.382 |
| 91.7-92.7 Hole 5 Box 6 91.7-97.7 | .000 | 2.79 | 0.910 | 0.129 |
| 92.7-93.7 " " " | .238 | 3.32 | 0.910 | 0.030 |
| 93.7-94.7 " " " | .237 | 1.33 | 0.910 | .000 |
| 94.7-95.7 " " " | .700 | .231 | 0.910 | .010 |
| 95.7-96.6 " " " | .234 | 2.44 | 0.910 | .049 |
| 96.7-97.7 " " " | .689 | 1.09 | 0.910 | .738 |

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Colorado School of Mines Research Institute

March 12, 1980

P.O. BOX 112 • GOLDEN, COLORADO 80401
PHONE (303) 279-2581

CSMRI

Attn.: Bill Cashion

| | Water gallons/ton | Oil gallons/ton | Specific Gravity | Gas + Loss |
|------------------------------|----------------------|--------------------|---------------------|---------------|
| 100-101 Hole 3 box 3 100-110 | 2.80 | .667 | .910 | .613 |
| 101-102 " " " " " | 3.24 | 2.08 | .910 | .463 |
| 102-103 " " " " " | 5.46 | 3.94 | .910 | .980 |
| 103-104 " " " " " | 3.03 | 19.6 | .917 | 1.00 |
| 104-105 " " " " " | 5.24 | 12.6 | .898 | .070 |
| 105-106 " " " " " | 3.43 | 27.6 | .907 | 1.70 |
| 106-107 " " " " " | 4.75 | 42.0 | .897 | 2.54 |
| 107-108 " " " " " | 6.95 | 63.7 | .903 | 3.93 |
| 108-109 " " " " " | 3.76 | 30.4 | .907 | 1.92 |
| 109-110 " " " " " | 3.53 | 10.5 | .917 | 1.41 |
| 110-111 Hole 3 box 4 110-120 | 2.36 | 14.8 | .914 | 1.53 |
| 111-112 " " " " " | 2.15 | 9.49 | .892 | 1.44 |
| 112-113 " " " " " | 3.26 | 13.6 | .901 | 1.01 |
| 113-114 " " " " " | 3.94 | 6.93 | .917 | .929 |
| 114-115 " " " " " | 2.12 | 6.51 | .910 | 1.25 |
| 115-116 " " " " " | .702 | 8.10 | .919 | .898 |
| 116-117 " " " " " | 1.06 | .000 | .910 | .442 |
| 117-118 " " " " " | 1.65 | .078 | .910 | .000 |
| 118-119 " " " " " | 1.42 | .156 | .910 | .138 |
| 119-120 " " " " " | .476 | .314 | .910 | .477 |
| 39-40 Hole 4 box 1 39-49 | 4.90 | .487 | .910 | .302 |
| 40-41 " " " " " | 3.22 | 2.45 | .910 | 0 |
| 41-42 " " " " " | 2.77 | 1.72 | .910 | 0 |
| 42-43 " " " " " | 7.62 | .393 | .910 | 0 |
| 43-44 " " " " " | 2.06 | 2.12 | .910 | 0 |
| 44-45 " " " " " | 2.87 | 4.18 | .910 | .110 |
| 45-46 " " " " " | 2.57 | 2.36 | .910 | .078 |
| 46-47 " " " " " | 3.06 | 5.51 | .910 | 0 |
| 47-48 " " " " " | 4.69 | 20.7 | .914 | 1.22 |
| 48-49 " " " " " | 4.76 | 19.5 | .913 | 1.20 |



Colorado School of Mines Research Institute

March 13, 1980

P.O. BOX 112 • GOLDEN, COLORADO 80401

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| | Water gallons/ton | Oil gallons/ton | Specific Gravity | Gas + Loss |
|------------------------------|----------------------|--------------------|---------------------|---------------|
| 120-121 Hole 3 box 5 120-130 | .525 | .000 | .910 | .179 |
| 121-122 " " " " " | .881 | .000 | .910 | .000 |
| 122-123 " " " " " | .973 | .000 | .910 | .000 |
| 123-124 " " " " " | 1.81 | .000 | .910 | .238 |
| 124-125 " " " " " | 1.18 | .130 | .910 | .345 |
| 125-126 " " " " " | .975 | .683 | .910 | .040 |
| 126-127 " " " " " | 1.43 | .288 | .910 | .189 |
| 127-128 " " " " " | .000 | 2.23 | .910 | .000 |
| 128-129 " " " " " | .712 | .313 | .910 | .000 |
| 129-130 " " " " " | .231 | 1.14 | .910 | .145 |
| 140-141 Hole 3 box 7 140-150 | 3.74 | .514 | .910 | .293 |
| 141-142 " " " " " | 2.15 | .656 | .910 | .349 |
| 142-143 " " " " " | 2.88 | .079 | .910 | .000 |
| 143-144 " " " " " | 2.34 | .000 | .910 | .000 |
| 144-145 " " " " " | 2.15 | .237 | .910 | .010 |
| 145-146 " " " " " | 2.51 | .000 | .910 | .149 |
| 146-147 " " " " " | 3.32 | .000 | .910 | .000 |
| 147-148 " " " " " | 1.18 | .673 | .910 | .432 |
| 148-149 " " " " " | .479 | .632 | .910 | .260 |
| 149-150 " " " " " | .238 | .890 | .910 | .557 |

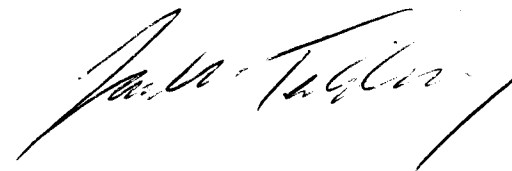


Table 3.--Fischer assay results for core hole WR-1 through WR-7--Continued

U-96
USGS W.R.-3 15S 21E 17

| Depth-St | Depth-Ed | Gas + Loss | O11 GPT | Wtr GPT | O11 Spec Grav |
|----------|----------|------------|---------|---------|---------------|
| 90 | 91 | 0.3 | 0.7 | 2.2 | 0.910 |
| 91 | 92 | 0.4 | 1.1 | 1.4 | 0.910 |
| 92 | 93 | 0.1 | 0.8 | 2.1 | 0.910 |
| 93 | 94 | 0.4 | 1.0 | 5.6 | 0.910 |
| 94 | 95 | 0.8 | 1.6 | 7.4 | 0.910 |
| 95 | 96 | 0.4 | 0.0 | 7.0 | 0.910 |
| 96 | 97 | 0.2 | 0.1 | 6.0 | 0.910 |
| 97 | 98 | 0.0 | 0.6 | 4.7 | 0.910 |
| 98 | 99 | 0.0 | 0.4 | 4.2 | 0.910 |
| 99 | 100 | 0.0 | 0.8 | 4.7 | 0.910 |
| 100 | 101 | 0.6 | 0.6 | 2.8 | 0.910 |
| 101 | 102 | 0.4 | 2.0 | 3.2 | 0.910 |
| 102 | 103 | 0.9 | 3.9 | 5.4 | 0.910 |
| 103 | 104 | 1.0 | 19.6 | 3.0 | 0.912 |
| 104 | 105 | 0.0 | 12.6 | 5.2 | 0.898 |
| 105 | 106 | 1.7 | 27.6 | 3.4 | 0.907 |
| 106 | 107 | 2.5 | 42.0 | 4.7 | 0.897 |
| 107 | 108 | 3.9 | 63.7 | 6.9 | 0.903 |
| 108 | 109 | 1.9 | 30.4 | 3.7 | 0.907 |
| 109 | 110 | 1.4 | 10.5 | 3.5 | 0.917 |
| 110 | 111 | 1.5 | 14.8 | 2.3 | 0.914 |
| 111 | 112 | 1.4 | 9.4 | 2.1 | 0.892 |
| 112 | 113 | 1.0 | 13.6 | 3.2 | 0.901 |
| 113 | 114 | 0.9 | 6.9 | 3.9 | 0.917 |
| 114 | 115 | 1.2 | 6.5 | 2.1 | 0.910 |
| 115 | 116 | 0.8 | 8.1 | 0.7 | 0.919 |
| 116 | 117 | 0.4 | 0.0 | 1.0 | 0.910 |
| 117 | 118 | 0.0 | 0.0 | 1.6 | 0.910 |
| 118 | 119 | 0.1 | 0.1 | 1.4 | 0.910 |
| 119 | 120 | 0.4 | 0.3 | 0.4 | 0.910 |
| 120 | 121 | 0.1 | 0.0 | 0.5 | 0.910 |
| 121 | 122 | 0.0 | 0.0 | 0.8 | 0.910 |
| 122 | 123 | 0.0 | 0.0 | 0.9 | 0.910 |
| 123 | 124 | 0.2 | 0.0 | 1.8 | 0.910 |
| 124 | 125 | 0.3 | 0.1 | 1.1 | 0.910 |
| 125 | 126 | 0.0 | 0.6 | 0.9 | 0.910 |
| 126 | 127 | 0.1 | 0.2 | 1.4 | 0.910 |
| 127 | 128 | 0.0 | 2.2 | 0.0 | 0.910 |
| 128 | 129 | 0.0 | 0.3 | 0.7 | 0.910 |
| 129 | 130 | 0.1 | 1.1 | 0.2 | 0.910 |
| 130 | 140 | 0.0 | 0.0e | 0.0 | 0.000 |
| 140 | 141 | 0.2 | 0.5 | 3.7 | 0.910 |
| 141 | 142 | 0.3 | 0.6 | 2.1 | 0.910 |
| 142 | 143 | 0.0 | 0.0 | 2.8 | 0.910 |
| 143 | 144 | 0.0 | 0.0 | 2.3 | 0.910 |
| 144 | 145 | 0.0 | 0.2 | 2.1 | 0.910 |
| 145 | 146 | 0.1 | 0.0 | 2.5 | 0.910 |
| 146 | 147 | 0.0 | 0.0 | 3.3 | 0.910 |
| 147 | 148 | 0.4 | 0.6 | 1.1 | 0.910 |
| 148 | 149 | 0.2 | 0.6 | 0.4 | 0.910 |
| 149 | 150 | 0.5 | 0.8 | 0.2 | 0.910 |

e - estimated