083-21348

0

CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

# CORE ANALYSIS REPORT

FOR

HUSKY OIL CO.

"BONETTI" M16B
CAT CANYON FIELD
SANTA BARBARA COUNTY, CA.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

# CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

HUSKY OIL CO.
"BONETTI" M16B
CAT CANYON FIELD
SANTA BARBARA COUNTY, CA.

DATE : 11-FEB-80
FORMATION :
DRLG. FLUID: WB
LOCATION : SEC. 19-9N-32W

FILE NO : 08861
LABORATORY: BAKERSFIELD
ANALYSTS : DK BB
ELEVATION : 756'KB

## DEAN-STARK CORE ANALYSIS

| SMP NO | DEPTH | HORIZ PERM | HELI POR % | OIL % P.V. | WTR % P.V. | TOTAL FLUID | O/W RATIO | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | DEAN-STARK CORE ANALYSIS/SAMPLES MOUNTED IN SLEEVES/A TRI-AXIAL PRESSURE EQUAL TO THE DEPTH MINUS 100 psig., TO A MAXIMUM OF 700 psig. | | | | | | |
| | 3260.0-65.0 | CORE #1 | | | CUT 5' | REC 0' | | |
| | 3260.0-65.0 | | | | | | | LOST RECOVERY |
| | 3265.0-95.0 | CORE #2 | | | CUT 30' | REC 30' | | |
| | 3265.0-95.0 | | | | | | | SHALE-NO ANALYSIS |
| | 3295.0-25.0 | CORE #3 | | | CUT 30' | REC 12' | | |
| | 3295.0-07.0 | | | | | | | SHALE-NO ANALYSIS |
| | 3307.0-25.0 | | | | | | | LOST RECOVERY |
| | 3325.0-48.0 | CORE #4 | | | CUT 23' | REC 19' | | |
| 1 | 3325.0-26.0 | 1972. | 37.9 | 52.6 | 29.7 | 82.3 | 1.77 | SD;BRN,VF-FGR,SLTY,DK STN |
| 2 | 3326.0-27.0 | 1435. | 37.2 | 54.0 | 30.2 | 84.2 | 1.79 | SAME |
| 3 | 3327.0-28.0 | 784. | 36.7 | 46.9 | 30.2 | 77.1 | 1.55 | SAME |
| 4 | 3328.0-29.0 | 1568. | 37.4 | 64.2 | 28.0 | 92.2 | 2.29 | SAME |
| 5 | 3329.0-30.0 | 1122. | 36.1 | 48.3 | 45.4 | 93.7 | 1.07 | SAME |
| 6 | 3330.0-31.0 | 1440. | 37.7 | 47.0 | 26.6 | 73.6 | 1.76 | SAME |
| 7 | 3331.0-32.0 | 1275. | 38.5 | 49.1 | 28.2 | 77.2 | 1.74 | SAME |
| 8 | 3332.0-33.0 | 683. | 39.0 | 39.7 | 48.5 | 88.2 | 0.82 | SAME |
| 9 | 3333.0-34.0 | 921. | 36.4 | 44.0 | 29.9 | 73.9 | 1.47 | SAME |
| 10 | 3334.0-35.0 | 915. | 37.7 | 40.0 | 48.1 | 88.1 | 0.83 | SAME |

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

# CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

HUSKY OIL CO.
'BONETTI' M16B

DATE : 11-FEB-80
FORMATION :

FILE NO : 08861
LABORATORY: BAKERSFIELD

## DEAN-STARK CORE ANALYSIS

| SMP NO | DEPTH | HORIZ PERM | HELI POR % | OIL % P.V. | WTR % P.V. | TOTAL FLUID | O/W RATIO | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| 11 | 3335.0-36.0 | 1558. | 38.6 | 46.0 | 26.9 | 72.9 | 1.71 | SAME |
| 12 | 3336.0-37.0 | 770. | 35.6 | 48.2 | 36.3 | 84.5 | 1.32 | SAME |
| 13 | 3337.0-38.0 | 1513. | 36.3 | 46.8 | 25.5 | 72.3 | 1.83 | SAME |
| 14 | 3338.0-39.0 | 1465. | 35.3 | 45.9 | 28.1 | 74.0 | 1.63 | SAME |
| 15 | 3339.0-40.0 | 1395. | 36.2 | 42.6 | 31.4 | 74.1 | 1.35 | SAME |
| 16 | 3340.0-41.0 | 2210. | 35.9 | 45.6 | 28.3 | 73.9 | 1.61 | SAME |
| 17 | 3341.0-42.0 | 1599. | 37.2 | 52.7 | 19.0 | 71.7 | 2.77 | SAME |
| 18 | 3342.0-43.0 | 1810. | 38.9 | 46.3 | 25.7 | 72.0 | 1.80 | SAME |
| 19 | 3343.0-44.0 | 1562. | 37.5 | 52.9 | 22.8 | 75.7 | 2.32 | SAME |
| | 3344.0-48.0 | | | | | | | LOST RECOVERY |
| | 3348.0-60.0 | | | | | | | DRILLED |
| | 3360.0-90.0 | CORE #5 | | CUT 30' | | REC 0' | | |
| | 3360.0-90.0 | | | | | | | LOST RECOVERY |
| | 3390.0-94.0 | CORE #6 | | CUT 4' | | REC 3.5' | | |
| 20 | 3390.0-91.0 | 1393. | 33.7 | 38.3 | 38.8 | 77.1 | 0.99 | SAME |
| 21 | 3391.0-92.0 | 1424. | 36.5 | 49.3 | 23.5 | 72.8 | 2.10 | SAME |
| 22 | 3392.0-93.0 | 3430. | 39.0 | 58.5 | 15.7 | 74.2 | 3.74 | SAME |
| 23 | 3393.0-94.0 | 1809. | 40.0 | 79.7 | 17.2 | 96.8 | 4.64 | SAME |
| | 3394.0-24.0 | CORE #7 | | CUT 30' | | REC 26' | | |
| 24 | 3394.0-95.0 | 1952. | 39.2 | 58.2 | 29.2 | 87.4 | 1.99 | SAME |
| 25 | 3395.0-96.0 | 1412. | 37.2 | 61.4 | 20.1 | 81.5 | 3.05 | SAME |
| 26 | 3396.0-97.0 | 1594. | 37.9 | 55.7 | 27.0 | 82.6 | 2.06 | SAME |
| 27 | 3397.0-98.0 | 1565. | 37.3 | 64.0 | 14.5 | 78.5 | 4.42 | SAME |
| 28 | 3398.0-99.0 | 3208. | 37.7 | 61.7 | 17.7 | 79.4 | 3.49 | SD;BRN,VF-FGR,SSLTY,DK STN |

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

# CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

HUSKY OIL CO.
"BONETTI" M16B

DATE : 11-FEB-80
FORMATION :

FILE NO : 08861
LABORATORY: BAKERSFILLD

## DEAN-STARK CORE ANALYSIS

| SMP NO | DEPTH | HORIZ PERM | HELI POR % | OIL % P.V. | WTR % P.V. | TOTAL FLUID | O/W RATIO | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| 29 | 3399.0-00.0 | 3202. | 38.8 | 64.8 | 13.6 | 78.5 | 4.75 | SAME |
| 30 | 3400.0-01.0 | 2428. | 39.1 | 63.0 | 11.8 | 74.8 | 5.33 | SAME |
| 31 | 3401.0-02.0 | 2184. | 40.6 | 55.7 | 16.9 | 72.6 | 3.31 | SAME |
| 32 | 3402.0-03.0 | 2168. | 39.9 | 63.6 | 12.5 | 76.1 | 5.07 | SAME |
| 33 | 3403.0-04.0 | 1922. | 38.7 | 62.3 | 15.9 | 78.2 | 3.92 | SAME |
| 34 | 3404.0-05.0 | 2271. | 37.2 | 66.0 | 15.0 | 80.9 | 4.41 | SAME |
| 35 | 3405.0-06.0 | 2099. | 37.1 | 62.8 | 14.6 | 77.4 | 4.29 | SAME |
| 36 | 3406.0-07.0 | 2222. | 36.9 | 65.4 | 16.8 | 82.2 | 3.89 | SAME |
| 37 | 3407.0-08.0 | 1834. | 37.1 | 66.3 | 26.8 | 93.2 | 2.47 | SAME |
| 38 | 3408.0-09.0 | 3321. | 37.2 | 57.3 | 14.9 | 72.2 | 3.86 | SAME |
| 39 | 3409.0-10.0 | 2540. | 39.1 | 59.7 | 16.8 | 76.5 | 3.56 | SAME |
| 40 | 3410.0-11.0 | 2542. | 37.9 | 62.9 | 15.4 | 78.3 | 4.07 | SAME |
| 41 | 3411.0-12.0 | 2603. | 39.0 | 61.4 | 13.0 | 74.5 | 4.71 | SAME |
| 42 | 3412.0-13.0 | 3035. | 39.7 | 60.7 | 11.0 | 71.7 | 5.53 | SAME |
| 43 | 3413.0-14.0 | 2463. | 37.4 | 64.1 | 12.7 | 76.8 | 5.04 | SAME |
| 44 | 3414.0-15.0 | 2469. | 38.2 | 64.2 | 14.9 | 79.1 | 4.31 | SAME |
| 45 | 3415.0-16.0 | 2735. | 36.8 | 65.1 | 18.2 | 83.3 | 3.58 | SAME |
| 46 | 3416.0-17.0 | 3243. | 39.6 | 62.7 | 16.1 | 78.8 | 3.89 | SAME |
| 47 | 3417.0-18.0 | 2693. | 38.5 | 67.9 | 16.1 | 83.9 | 4.23 | SAME |
| 48 | 3418.0-19.0 | 2596. | 36.8 | 59.8 | 18.2 | 78.0 | 3.28 | SAME |
| 49 | 3419.0-20.0 | 2269. | 39.1 | 56.3 | 15.6 | 71.9 | 3.62 | SAME |
| | 3420.0-24.0 | | | | | | | LOST RECOVERY |
| | 3424.0-44.0 | CORE #8 | | CUT 20' | | REC 20' | | |
| 50 | 3424.0-25.0 | 3407. | 38.4 | 57.7 | 19.1 | 76.8 | 3.02 | SAME |
| 51 | 3425.0-26.0 | 2753. | 39.5 | 63.8 | 12.5 | 76.3 | 5.10 | SAME |
| 52 | 3426.0-27.0 | 2398. | 38.5 | 61.3 | 12.5 | 73.8 | 4.89 | SAME |
| 53 | 3427.0-28.0 | 1952. | 39.0 | 63.1 | 14.2 | 77.3 | 4.45 | SAME |
| 54 | 3428.0-29.0 | 2377. | 37.0 | 64.0 | 10.6 | 74.5 | 6.05 | SAME |

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

# CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

HUSKY OIL CO.
"BONETTI" M16B

DATE : 11-FEB-80
FORMATION :

FILE NO : 08861
LABORATORY: BAKERSFIELD

## DEAN-STARK CORE ANALYSIS

| SMP NO | DEPTH | HORIZ PERM | HELI POR % | OIL % P.V. | WTR % P.V. | TOTAL FLUID | O/W RATIO | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| 55 | 3429.0-30.0 | 2920. | 38.4 | 59.0 | 14.8 | 73.8 | 3.99 | SAME |
| 56 | 3430.0-31.0 | 2834. | 38.2 | 58.8 | 14.5 | 73.3 | 4.04 | SAME |
| 57 | 3431.0-32.0 | 3252. | 38.2 | 56.7 | 17.2 | 73.9 | 3.29 | SAME |
| 58 | 3432.0-33.0 | 2231. | 37.9 | 57.6 | 17.8 | 75.4 | 3.24 | SAME |
| 59 | 3433.0-34.0 | 3027. | 36.7 | 62.9 | 18.3 | 81.3 | 3.44 | SAME |
| 60 | 3434.0-35.0 | 1749. | 38.6 | 59.8 | 15.2 | 74.9 | 3.94 | SAME |
| 61 | 3435.0-36.0 | 1970. | 37.3 | 62.5 | 13.2 | 75.7 | 4.75 | SAME |
| 62 | 3436.0-37.0 | 2046. | 37.4 | 60.3 | 13.8 | 74.1 | 4.37 | SAME |
| 63 | 3437.0-38.0 | 2537. | 37.2 | 62.7 | 14.4 | 77.1 | 4.35 | SAME |
| 64 | 3438.0-39.0 | 2098. | 36.7 | 60.2 | 13.2 | 73.4 | 4.55 | SAME |
| 65 | 3439.0-40.0 | 1756. | 36.8 | 56.0 | 14.9 | 71.0 | 3.75 | SAME |
| 66 | 3440.0-41.0 | 2503. | 38.1 | 66.7 | 12.1 | 78.8 | 5.50 | SAME |
| 67 | 3441.0-42.0 | 2214. | 36.4 | 57.6 | 19.4 | 77.0 | 2.98 | SAME |
| 68 | 3442.0-43.0 | 2321. | 37.8 | 62.8 | 13.9 | 76.7 | 4.51 | SAME |
| 69 | 3443.0-44.0 | 2206. | 38.7 | 61.6 | 14.6 | 76.3 | 4.21 | SAME |
| | 3444.0-68.0 | CORE #9 | | CUT 24' | | REC 7' | | |
| 70 | 3444.0-45.0 | 2539. | 35.1 | 53.0 | 21.6 | 74.5 | 2.46 | SAME |
| 71 | 3445.0-46.0 | 2539. | 35.8 | 60.2 | 16.2 | 76.4 | 3.71 | SAME |
| 72 | 3446.0-47.0 | 2810. | 36.8 | 71.4 | 12.0 | 83.5 | 5.95 | SAME |
| 73 | 3447.0-48.0 | 2385. | 37.5 | 68.4 | 14.3 | 82.8 | 4.78 | SAME |
| 74 | 3448.0-49.0 | 2549. | 34.7 | 67.0 | 15.2 | 82.1 | 4.42 | SAME |
| 75 | 3449.0-50.0 | 1980. | 35.0 | 53.2 | 29.7 | 82.8 | 1.79 | SAME |
| 76 | 3450.0-51.0 | 1428. | 35.3 | 73.1 | 22.1 | 95.2 | 3.31 | SAME |
| | 3451.0-68.0 | | | | | | | LOST RECOVERY |
| | 3468.0-79.0 | CORE #10 | | CUT 11' | | REC 11' | | |
| 77 | 3468.0-69.0 | 748. | 36.8 | 43.3 | 40.2 | 83.5 | 1.08 | SD;BRN,VF-FGR,SLTY,DK STN |

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

5

# CORE LABORATORIES, INC.
*Petroleum Reservoir Engineering*
DALLAS, TEXAS

HUSKY OIL CO.
"BONETTI" M16B

DATE : 11-FEB-80
FORMATION :

FILE NO : 08861
LABORATORY: BAKERSFIELD

## DEAN-STARK CORE ANALYSIS

| SMP NO | DEPTH | HORIZ PERM | HELI POR % | OIL % P.V. | WTR % P.V. | TOTAL FLUID | O/W RATIO | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| 78 | 3469.0-70.0 | 701. | 33.6 | 38.9 | 38.7 | 77.5 | 1.01 | SAME |
| 79 | 3470.0-71.0 | 424. | 31.2 | 37.0 | 35.8 | 72.9 | 1.03 | SAME |
| 80 | 3471.0-72.0 | 672. | 31.4 | 48.2 | 26.6 | 74.8 | 1.82 | SAME |
| 81 | 3472.0-73.0 | 379. | 34.0 | 48.6 | 32.2 | 80.8 | 1.51 | SAME |
| 82 | 3473.0-74.0 | 586. | 28.9 | 52.5 | 22.5 | 75.0 | 2.34 | SAME |
| 83 | 3474.0-75.0 | 682. | 28.8 | 54.2 | 21.9 | 76.1 | 2.48 | SAME |
| 84 | 3475.0-76.0 | 568. | 33.0 | 52.1 | 23.0 | 75.1 | 2.27 | SAME |
| 85 | 3476.0-77.0 | 1015. | 33.4 | 49.6 | 24.1 | 73.7 | 2.05 | SAME |
| 86 | 3477.0-78.0 | 840. | 33.1 | 47.2 | 24.2 | 71.4 | 1.95 | SAME |
| 87 | 3478.0-79.0 | 840. | 32.7 | 53.3 | 20.0 | 73.3 | 2.67 | SAME |

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.