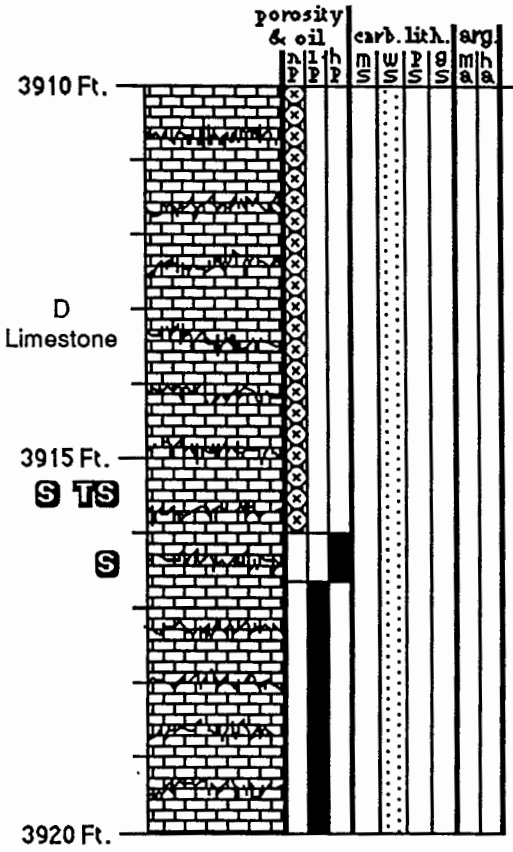
EMPIRE DRILLING CO. #1 LANKAS

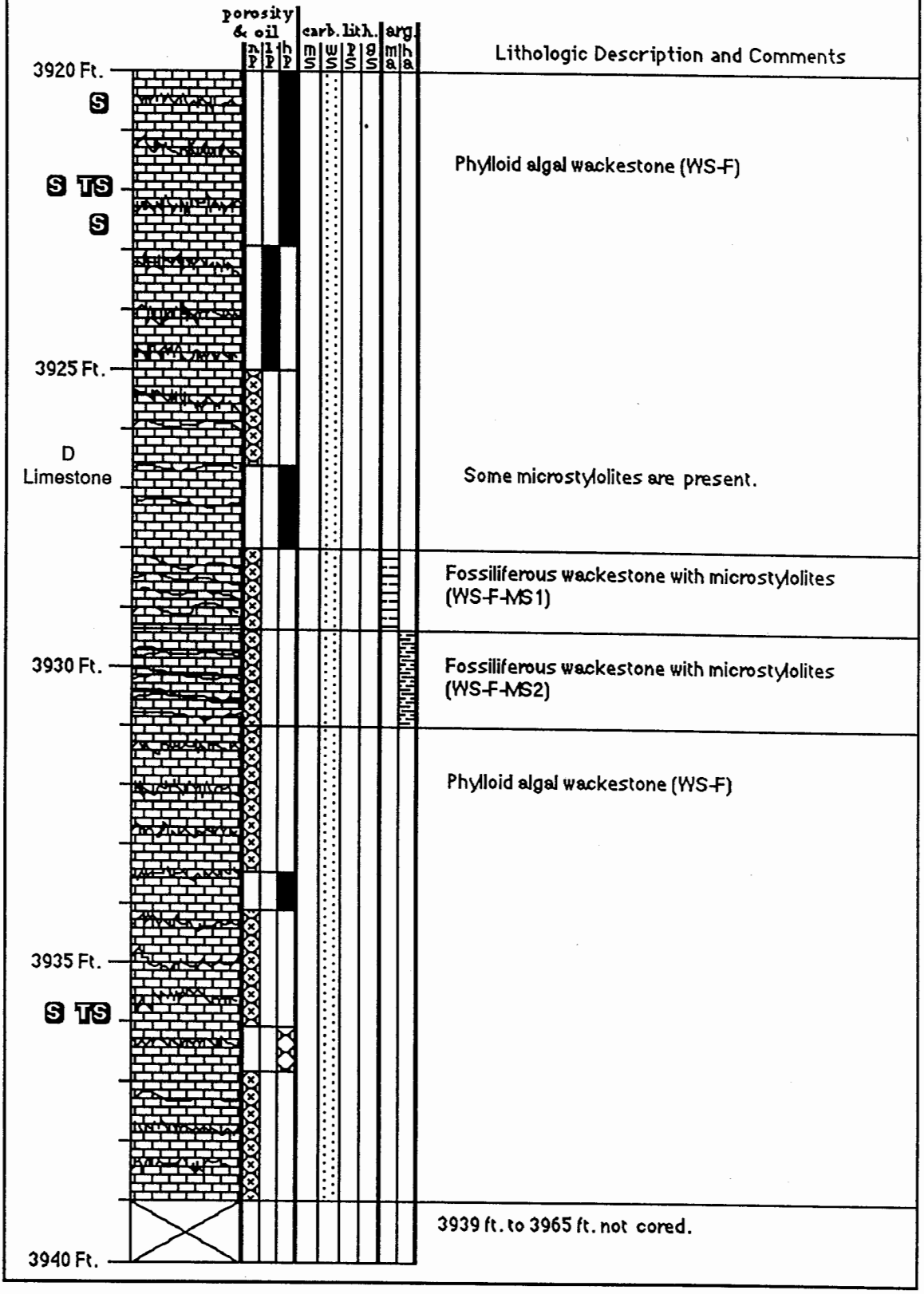


SE SE NW, Sec. 13-T3S-R34W
Rawlins Co., Kansas
4 miles southwest of Atwood North Field
Drilled January, 1981

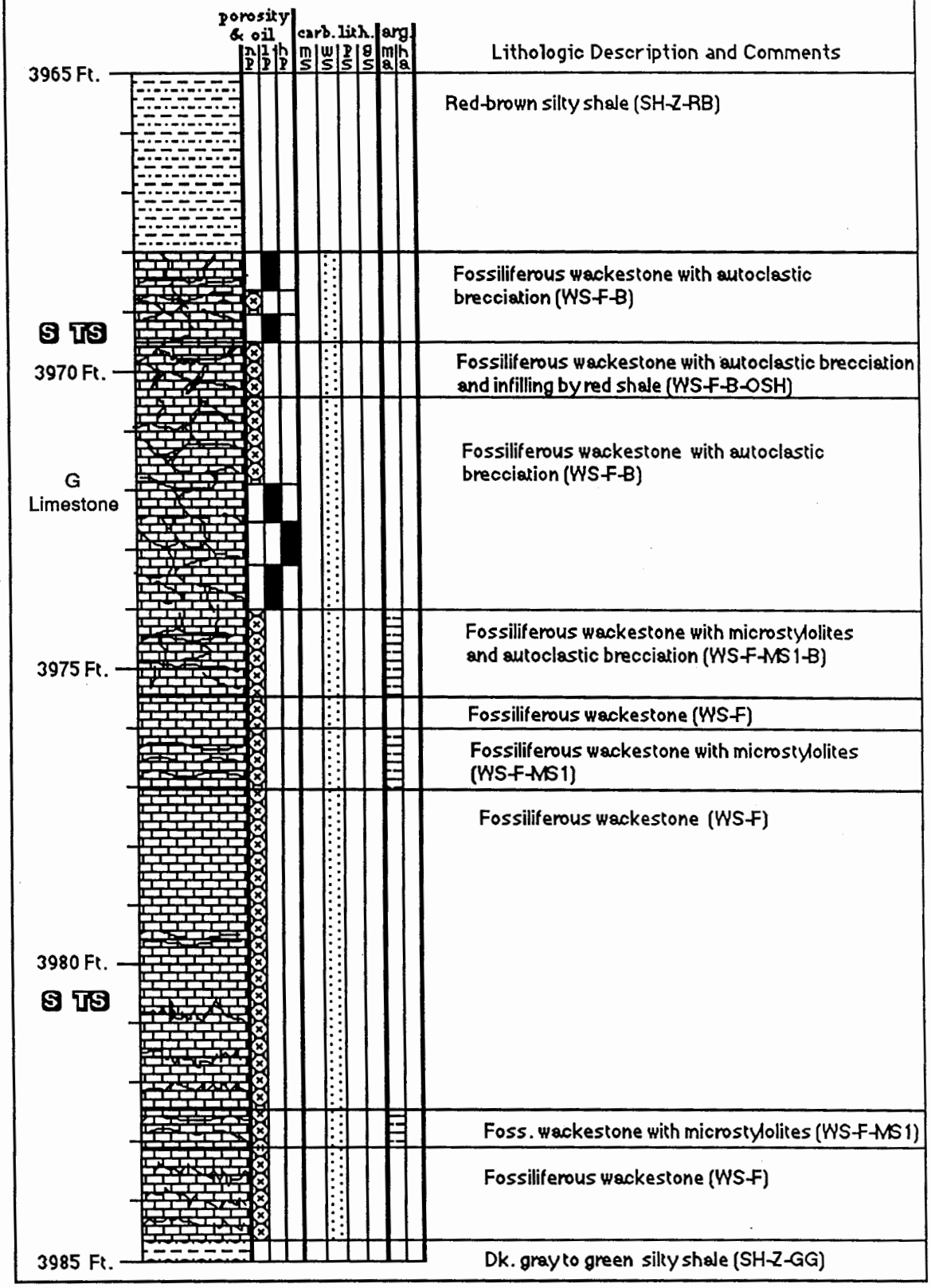


# EMPIRE DRILLING CO. #1 LANKAS

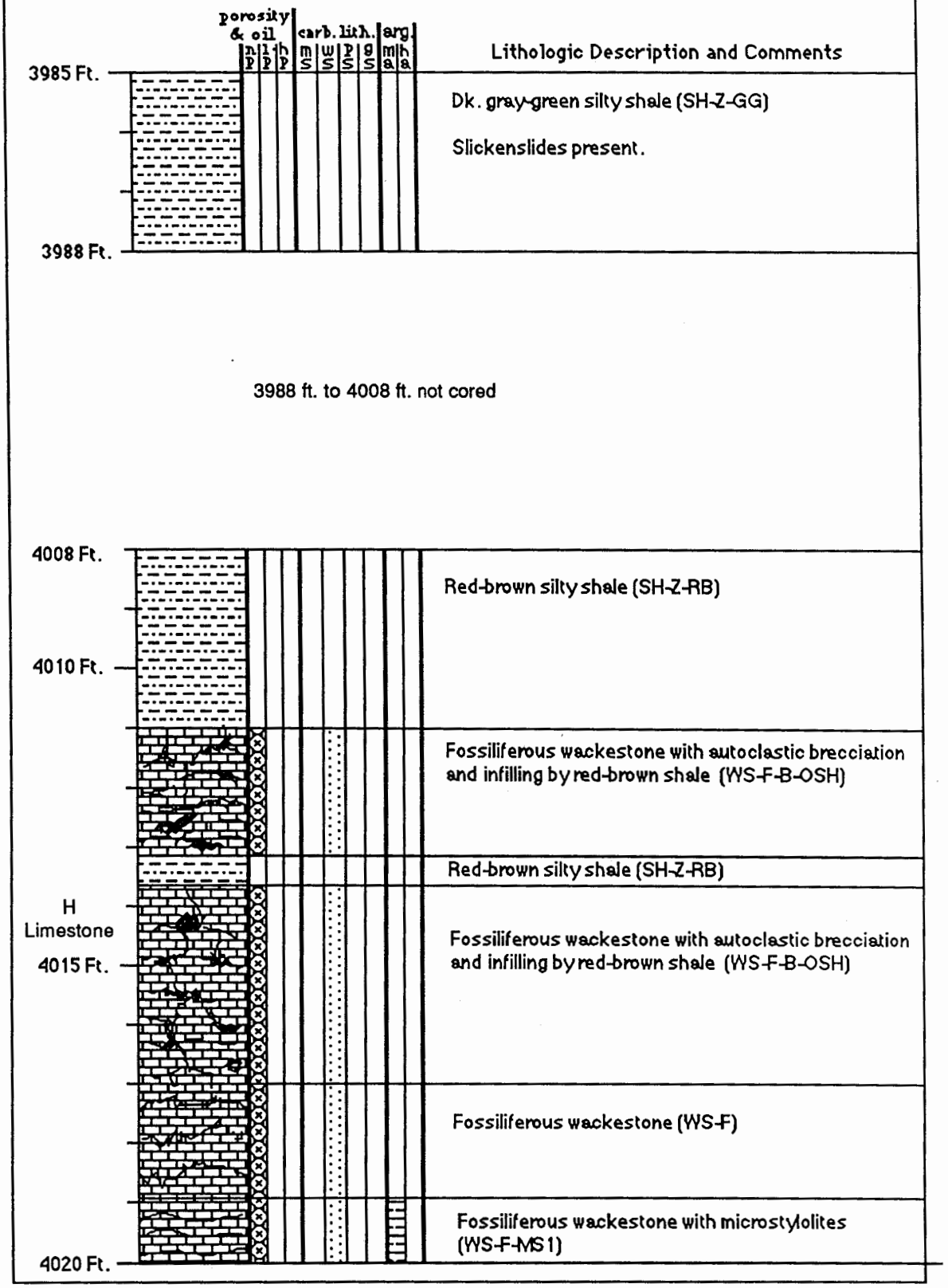




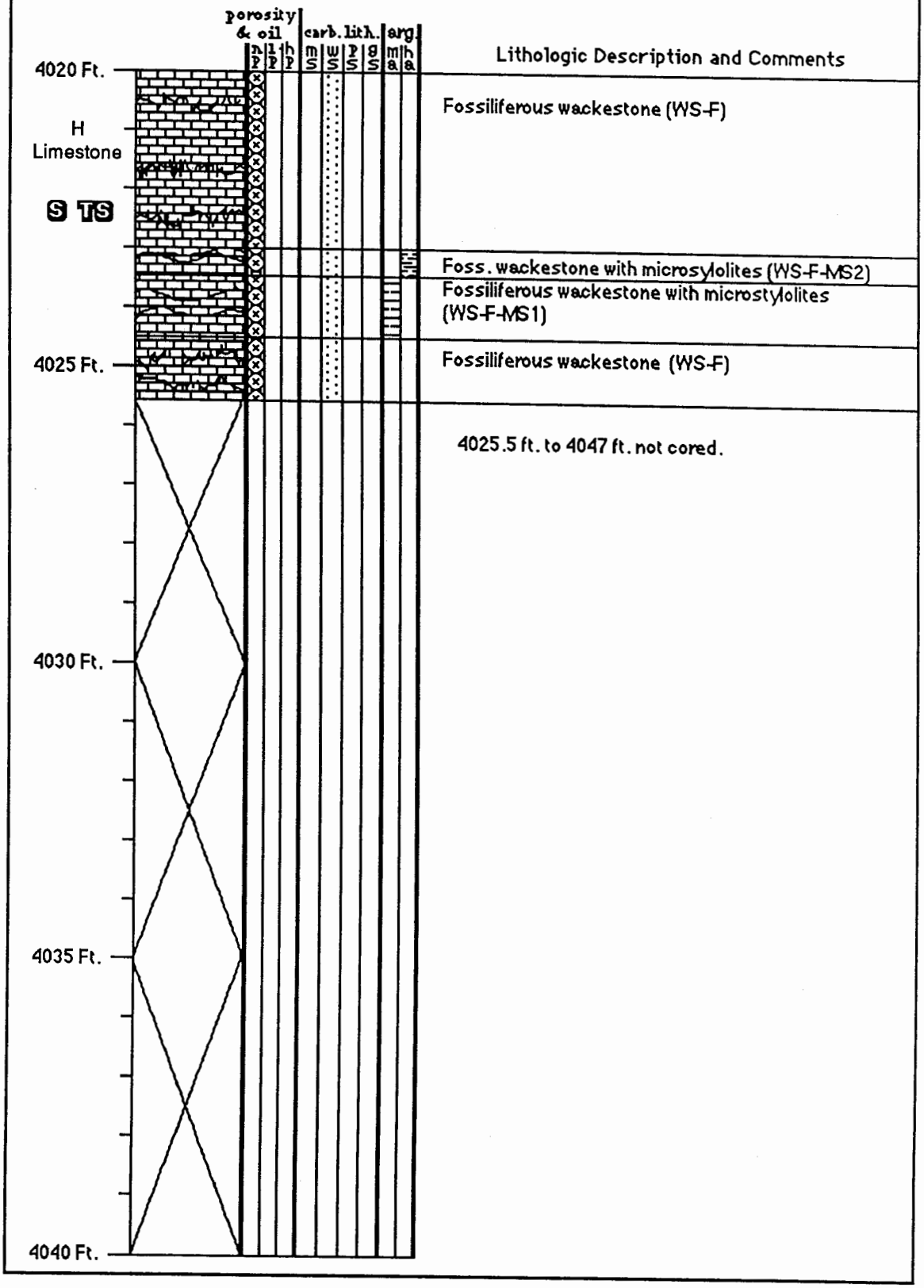
# EMPIRE DRILLING CO. #1 LANKAS



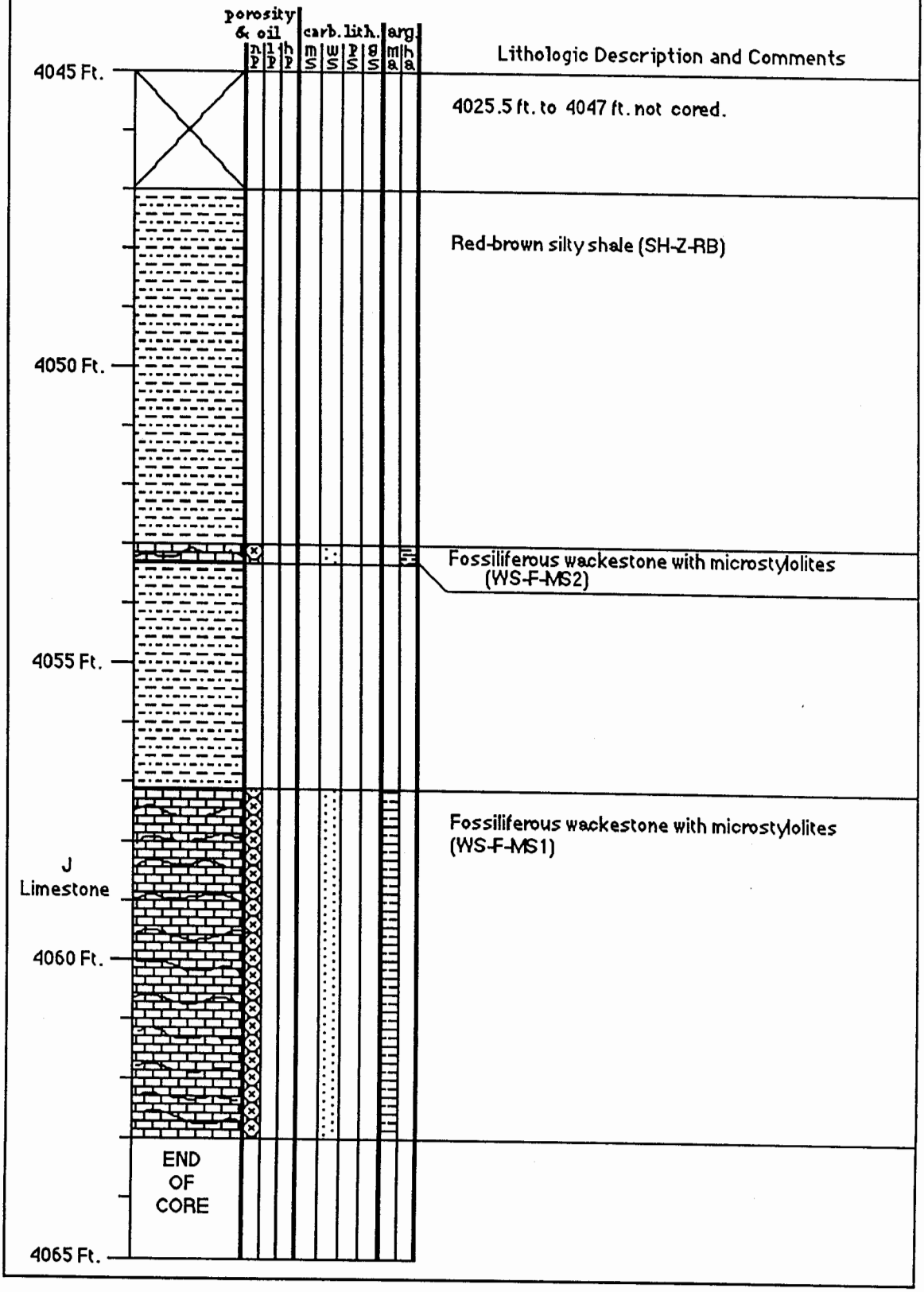
# EMPIRE DRILLING CO. #1 LANKAS

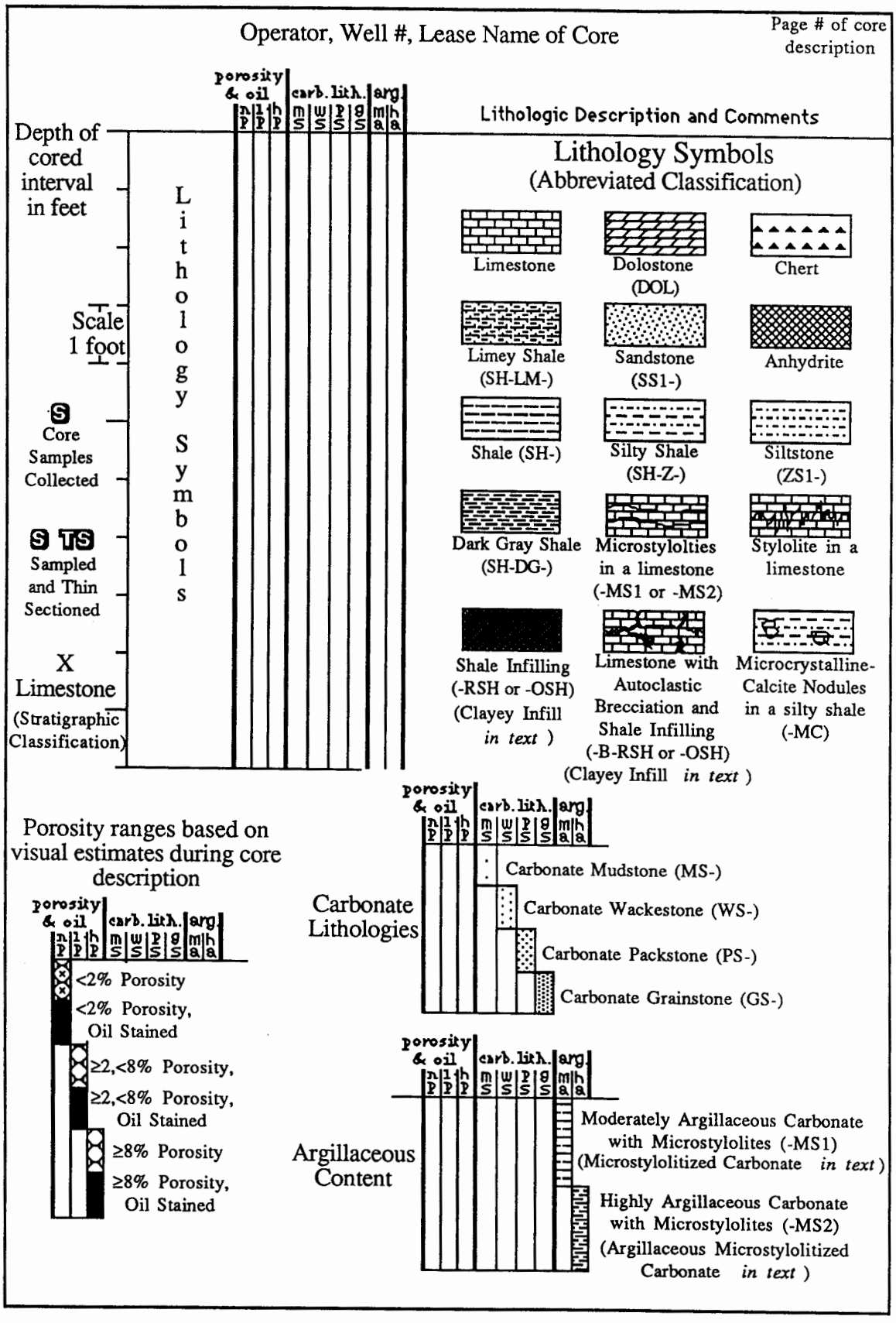


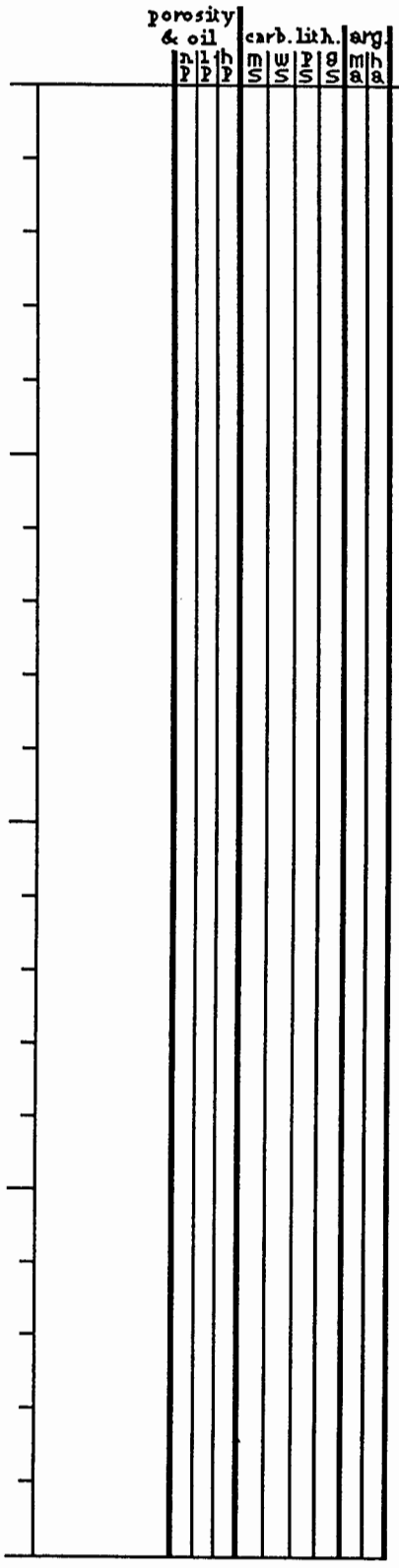
# EMPIRE DRILLING CO. #1 LANKAS



# EMPIRE DRILLING CO. #1 LANKAS




Operator, Well #, Lease Name of Core
Page # of core description
porosity & oil
carb. lith.
arg.
Lithologic Description and Comments
Depth of cored interval in feet
Lithology Symbols
Scale 1 foot
Core Samples Collected
Sampled and Thin Sectioned
X
Limestone
(Stratigraphic Classification)
Lithology Symbols
(Abbreviated Classification)
Limestone
Dolostone (DOL)
Chert
Limey Shale (SH-LM-)
Sandstone (SS1-)
Anhydrite
Shale (SH-)
Silty Shale (SH-Z-)
Siltstone (ZS1-)
Dark Gray Shale (SH-DG-)
Microstylolties in a limestone (-MS1 or -MS2)
Stylolite in a limestone
Shale Infilling (-RSH or -OSH) (Clayey Infill in text )
Limestone with Autoclastic Brecciation and Shale Infilling (-B-RSH or -OSH) (Clayey Infill in text )
Microcrystalline-Calcite Nodules in a silty shale (-MC)
Porosity ranges based on visual estimates during core description
<2% Porosity
<2% Porosity, Oil Stained
≥2,<8% Porosity,
≥2,<8% Porosity, Oil Stained
≥8% Porosity
≥8% Porosity, Oil Stained
Carbonate Lithologies
Carbonate Mudstone (MS-)
Carbonate Wackestone (WS-)
Carbonate Packstone (PS-)
Carbonate Grainstone (GS-)
Argillaceous Content
Moderately Argillaceous Carbonate with Microstylolites (-MS1) (Microstylolitized Carbonate in text )
Highly Argillaceous Carbonate with Microstylolites (-MS2) (Argillaceous Microstylolitized Carbonate in text )




# LITHOLOGY CLASSIFICATION

After the written description of each stratum, the lithology is classified by an abbreviated classification in parenthesis.

## Carbonate Lithologies

(MS-) Carbonate Mudstone

(PS-) Carbonate Packstone

(WS-) Carbonate Wackestone

(GS-) Carbonate Grainstone

(DOL-) Dolostone

(LM-SH-) Limey Shale (Highly argillaceous microstylolitized carbonate *in text* )

## Modifiers to Carbonate Lithologies

(-F) Fossiliferous

(-P) Peloidal

(-LM) Laminated

(-O) Oolitic

(-ONC) Oncolitic

(-FR) Fractured

(-MS1) Microstylolites (less argillaceous) (microstylolitized carbonate *in text* )

(-MS2) Microstylolites (more argillaceous) (argillaceous microstylolitized carbonate *in text* )

(-B) Autoclastic Brecciation

(-RSH) Infilling by Gray-Colored Shale } Clayey infill *in text*

(-OSH) Infilling by Red-Colored Shale

## Shales

(SH-) Shale

### Modifiers to Shales

(-Z) Silty

(-F) Fossiliferous

(-RB) Red-Brown

(-GG) Gray-Green

(-DG) Dark Gray

(-BL) Black

(-MC) Contains Microcrystalline-Calcite Nodules

## Other Lithologies

(SS1-) Very-fine grained Sandstone

(ZS-) Siltstone

EMPIRE DRILLING #1 Lankas
Rawlins County, Nebr.

## CORE DESCRIPTION

Core #1 3810-3839 Full recovery

| | |
|---|---|
| 3810-18 | LS. DSE. F. X. SL. SHY. |
| 3818-19 | LS. PT. FOSIL. P. VUG. & FR. BL. O. |
| 3819-23 | LS. DSE. |
| 3823-25 | LS. F. X. PT. FOSIL. SCAT. VUG. POROSITY 1 FR. BU. O. |
| 3825-29 | LS. DSE. |
| 3829-30 | SH. DR. GRY. 7" OF SH. |
| 3830-33 | LS. DSE. |
| 3833-34 | LS. F. VUG. & 1FR. BU. O. (1" VUG) |
| 3834-39 | LS. DSE. |

EMPIRE DRILLING #1 Lankas
Rawlins County, Nebr.

## CORE DESCRIPTION

Core #2 3965-3985 Full recovery

| | |
|---|---|
| 3965-69 | SH. RED |
| 3969-72 | LS. PT. FOSIL. THIN SH. LAM. P. VUG. POROSITY BU. O. |
| 3972-85 | LS. SH. LAM. |

EMPIRE DRILLING #1 Lankas
Rawlins County, Nebr.

## CORE DESCRIPTION

Core #3 4005-4025 Full recovery

| | |
|---|---|
| 4005-11 | SH. RED |
| 4011-18 | LS. GRY. SH. LAM. |
| 4018-24 | LS. F. X. DSE. |
| 4024-25 | LS. SHY. |

EMPIRE DRILLING #1 Lankas
Rawlins County, Nebr.

## CORE DESCRIPTION

Core #4 4047-4063 Full recovery

| | |
|---|---|
| 4047-56 | SH. RED |
| 4056-63 | LS. DSE. SH. LAM. |