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THE ENVIRONMENTAL EFFECTS OF TIMBER HARVESTING OPERATIONS IN ALBERTA

MAPS AND MAP OVERLAYS

Alberta
LANDS AND FORESTS

These maps were originally printed on
transparent overlays.

1/E Alta = 2 Schultz (C.D.) & Company

JUN - 6 1973 c.1
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3/E THE ENVIRONMENTAL EFFECTS
OF TIMBER HARVESTING OPERATIONS
IN THE
EDSON AND GRANDE PRAIRIE FORESTS
OF ALBERTA

VOLUME 2
MAPS AND MAP OVERLAYS
SEPTEMBER, 1973

FOR
GOVERNMENT OF ALBERTA
EDMONTON, ALBERTA
BY
C. D. SCHULTZ & COMPANY LIMITED

AL/L35/A18/1973/ES-2M

TABLE OF CONTENTS

VISUAL QUALITY MAP
FISH AND WILDLIFE
FOREST COVER
WATERSHED CLASSIFICATION
PERCENT SLOPE
SOIL STABILITY
ROADS
BOUNDARIES
BASE MAP
ENERGY DEVELOPMENT MAP

INTRODUCTION

THESE MAP OVERLAYS ARE INTENDED TO PROVIDE A GENERALIZED PICTURE OF FACTORS WHICH SHOULD INFLUENCE LAND MANAGEMENT ON THE PROJECT AREA.

THE BASE MAP, PREPARED FROM NATIONAL TOPOGRAPHIC SERIES MAPS, IS AT A SCALE OF 1:500,000 (1 INCH TO 7.89 MILES). THE TRANSPARENT OVERLAYS WERE REDUCED TO THIS COMMON SCALE, AND PERMIT STUDY OF ENVIRONMENTAL FEATURES INDIVIDUALLY, IN RELATION TO FEATURES MAPPED ON OTHER OVERLAYS. THE CHOSEN MAPPING SCALE WAS APPROPRIATE FOR TREATMENT OF THE ENTIRE PROJECT AREA, BUT WOULD NOT PROVIDE SUFFICIENT DETAIL FOR MANAGEMENT ON ANY PORTION. ONE ADDITIONAL MAP, THE ENERGY DEVELOPMENT MAP, WAS ADDED IN OPAQUE FORM TO AVOID CONFUSION.

ON THE OVERLAYS, A SYSTEM OF SHADING IS USED TO INDICATE THE SENSITIVITY OF A GIVEN ELEMENT OF THE ENVIRONMENT, OR THE DEGREE OF CARE REQUIRED DURING HARVESTING OR OTHER OPERATIONS TO GIVE IT ADEQUATE PROTECTION. DARK SHADING INDICATES HIGH SENSITIVITY, OFTEN ACCOMPANIED BY A NEED FOR SPECIAL CARE. THIS IS TRUE OF INDIVIDUAL OVERLAYS, AND OF OVERLAYS VIEWED IN COMBINATION.

FINDINGS AND RECOMMENDATIONS IN VOLUME 1 ARE BASED ON THE RELATIONSHIPS ILLUSTRATED BY THESE OVERLAYS.

VISUAL QUALITY

- * Site Features
eg. 1. Kakwa Falls
- Urban Centres
- Travel Corridors

ALBERTA TIMBER HARVESTING STUDY

C.D. SCHULTZ & COMPANY LIMITED

SCALE 1:500,000

FISH AND WILDLIFE

- C Caribou
- E Elk
- G Mountain Goat
- GB Grizzly Bear
- MD Mule Deer
- WT White-Tail Deer
- M Moose
- S Mountain Sheep

- Ungulate Transit Site
- Fishery Observation & Sample Site

ALBERTA TIMBER HARVESTING STUDY

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FOREST TYPE MAP

- C Coniferous
- M Mixed Wood
- D Deciduous
- B Burn
- A Agriculture
- S Swamp, Muskeg, Marsh
- T Alpine Tundra

Approximate location of lands cut over since 1956

ALBERTA TIMBER HARVESTING STUDY

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ALBERTA TIMBER HARVESTING STUDY

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ALBERTA TIMBER HARVESTING STUDY

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SOIL STABILITY

- Very Stable
- Moderately Stable
- Unstable
- Very Unstable
- Deposits Not Considered

- Deposit Boundary (Different Stability Classes)
- Deposit Boundary (Same Stability Class)
- Sand Dunes
- Small Skumps
- Old Lake Beaches

DEPOSIT LEGEND

- Recent
- 13 Organic, Wet, Non Forest
  - 12 Skump
  - 11 Alluvial Fan
  - 10 Alluvium
- Pleistocene and Recent
- 9 Aeolian
  - 8 Glaciolacustrine
  - 7 Glacioluvial
  - 6 Continental Till - Low CO₂
  - 6a Thin Continental Till
  - 5 Cordilleran and Mixed Till - High CO₂
  - 4 Continental Till, Quartzite-rich, Thin
  - 3 Old Cordilleran Till
- Mesozoic to Cenozoic
- 2 Thin Colluvium on Bedrock
  - 1 Bedrock, Non Forest

ALBERTA TIMBER HARVESTING STUDY

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ROADS

- Provincial Highway
- Alberta Forest Service
- Forest Industry
- Other Industry
- Railroad

ALBERTA TIMBER HARVESTING STUDY

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BOUNDARIES

- Study Area
- Lease Area
- Alberta Forest Service Management Units
- Alienated Land

ALBERTA TIMBER HARVESTING STUDY

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FIFTEENTH BASE LINE
SHEEP CREEK
WILLMORE

- HIGHWAY—PAVED—GRAVELLED
- ALL WEATHER ROAD—GRAVELLED
- DRY WEATHER ROAD—DIRT
- TRUCK TRAIL
- SEISMOGRAPH LINE OR TRAIL
- Project Boundary
- LOOKOUT TOWER
- LOOKOUT POINT
- FOREST HEADQUARTERS
- RANGER STATION
- FORESTRY CABIN
- TOOL CACHE STOCKED
- CAMPGROUND WITH SHELTER
- AIRCRAFT LANDING—USABLE
- AIRCRAFT LANDING—UNUSABLE
- FLOAT LANDING
- BRIDGE
- TELEPHONE OR TELEGRAPH LINE—FORESTRY
- PIPE LINE
- TRANSMISSION LINE

- OIL AND GAS FIELDS
SHOWN IN GREEN AREA ONLY
- DEER MTN.
OIL FIELD
- GREEN AREA BOUNDARY
- Approximate location of
new transmission line
- Coal leases
- Freehold land in coal lease area

Scale in miles:
0 10 20

C.D. SCHULTZ & COMPANY LIMITED
VANCOUVER CANADA
SCHULCO

September 1973

ENERGY DEVELOPMENT

119°

118°

117°

53°