H

EAST

H'

I EAST TALKEETNA MOUNTAINS
COMPOSITE STRATIGRAPHIC SECTION
WEST COPPER RIVER BASIN-NELCHINA UPLIFT AREA
T20N-24N, R10E-11E, SM
TALKEETNA MTNS & ANCHORAGE QUADS, ALASKA
TIME SCALE AFTER VAN HINTE, 1976
ALL OF STAGES NOT REPRESENTED BY DEPOSITION

44 MILES

MOBIL OIL CO.
SALMON BERRY LAKE UNIT No. 1
NW SEC. 24,T6N-R6W. CRM
GULKANA QUAD, ALASKA
EL 2264' KB
TD 799 Jtk
8-18-64

19½ MILES

PAN AMERICAN
MOOSE CREEK UNIT No. 1
NW NE SEC. 29, T4N-R3W, CRM
GULKANA QUAD., ALASKA
EL 1930 KB
TD 7869' Jtk
7-18-63

63 MILES

II SOUTHWEST WRANGELL MOUNTAINS
COMPOSITE STRATIGRAPHIC SECTION
EAST FLANK COPPER RIVER BASIN
T3N-4S, R4E-10E, CRM
GULKANA & McCARTHY QUAD., ALASKA

48 MILES

II' UPPER CHITINA VALLEY
COMPOSITE STRATIGRAPHIC SECTION
McCARTHY AREA-SOUTHERN WRANGELL MTNS.
T2S-8S, R12E-18E, CRM
McCARTHY QUAD., ALASKA

CENOZOIC
QUATERNARY
TERTIARY
MESOZOIC
CRETACEOUS
UPPER CRETACEOUS
JURASSIC
JUR. & TRIA.
TRIASSIC
PALEOZOIC
PENNSYLVANIAN
PERM.
PALEOZOIC
PENNSYLVANIAN

GLACIO-ALLUVIAL DEPOSITS
CONTINENTAL DEPOSITS-FRUEHEIM FORMATION EQUIVALENTS OR YOUNGER
INFERRED FACIES TO NORTH OF DELTAIC-MARGINAL MARINE TO CONTINENTAL DEPOSITS
CONTINENTAL VOLCANICS AND VOLCANICLASTICS
CONTINENTAL DEPOSITS
THIS FACIES IS INFERRED TO OCCUR NORTHWARD TOWARD SOURCE
CONTINENTAL DEPOSITS
DELTAIC MARGINAL MARINE
DELTAIC-MARGINAL MARINE DEPOSITS
CONTINENTAL SEDIMENTS
DEEPER MARINE
DELTAIC MARGINAL MARINE
DELTAIC IN PART CONTINENTAL NEARSHORE
NEARSHORE SHALLOW MARINE SANDSTONES
KENNICOTT FORMATION
NELCHINA FORMATION
COALESCED SANDS OF DELTAIC, NEARSHORE AND SHORELINE ORIGINS
NEAR SHORE SANDSTONES
F MARINE TO CONTINENTAL
COALSEAMS IS PROBABLY MEANT TO INCLUDE COAL SEAMS LATERALLY AND VERTICAL TO IT OVER 30 % OVER PORSITY
LOWER MEMBER OF McCARTHY FORMATION
NIZINA LIMESTONE
CHITISTONE LIMESTONE
NIKOLAI GREENSTONE
HAZEN CREEK FORMATION
STATION CREEK FORMATION
PERMIAN MARINE SEDIMENTARY ROCK INTERBEDDED WITH VOLCANICS AND VOLCANICLASTICS MILLIMORPHOSED
MILLIMORPHOSED PENNSYLVANIAN VOLCANICS AND VOLCANICLASTIC

LEGEND

SHOW
- 4000 OIL, FREE OIL RECOVERY
- SLIGHT OIL
- 4000 GAS MEASURABLE GAS RECOVERY
- SLIGHT GAS
- FRESH WATER
- SALT WATER

SOURCE ROCK DATA
- OIL
- OIL AND GAS

GAS
WET GAS (CONDENSATE)

GENERATING CAPABILITY RATING
0 = NON-SOURCE, 1 = POOR
2 = GOOD, DITHOCARBON TYPE
G = OIL, C = GAS, W = WET GAS OR CONDENSATE

ELEMENTAL ANALYSIS CARBONIZATION
HIGH CARBON, HIGH HYDROGEN DUE TO WEATHERING
LOW CARBON, HIGH OXYGEN DUE TO WEATHERING
CARBONIZATION INCREMENTS DUE TO PURIFICATION OF SAMPLE DURING ANALYSIS

TYPICAL DETERMINATION - CARBONIZATION SCALE

IGNEOUS SAMPLE WHICH HAS BEEN DATED BY POTASSIUM-ARGON. DATE IN MILLION YEARS (MY).

LEGEND

SEDIMENTARY
- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- SHALE, CLAYSTONE OR MUDSTONE
- COAL, SEAM OR CARBONACEOUS, DASHED
- LIMESTONE
- DOLOMITE
- CHERT BEDS

VOLCANICLASTICS
- ASH SIZE OF MATERIAL
- VOLCANICCLASTIC SANDSTONE, SILTSTONE, ETC
- TUFF
- WELDED TUFF
- BRECCIA OR AGGLOMERATE
- QUATERNARY - TERTIARY VOLCANIC FLOWS
- ANDESITIC VOLCANIC FLOWS
- PENNSYLVANIAN OR PERMO-PENN. VOLCANIC FLOWS
- TRIASSIC VOLCANIC FLOWS

IGNEOUS
- INTRUSIVES
- EXTRUSIVES LAVA FLOWS

3

AMOCO

Amoco Production Company
Denver Division

REGIONAL REPORT No. 113

GEOLOGY OF THE COPPER RIVER BASIN AREA ALASKA

STRATIGRAPHIC CORRELATION SECTION H—H'

EAST FLANK TALKEETNA MTNS. ACROSS COPPER RIVER BASIN TO SOUTHWEST WRANGELL MTNS. TO UPPER CHITINA VALLEY-McCARTHY AREA

By: J.D.POWELL Date: SEPT.1976

Scale: VERT 1"=1000' HORIZ NONE CF76 Encl No. 3