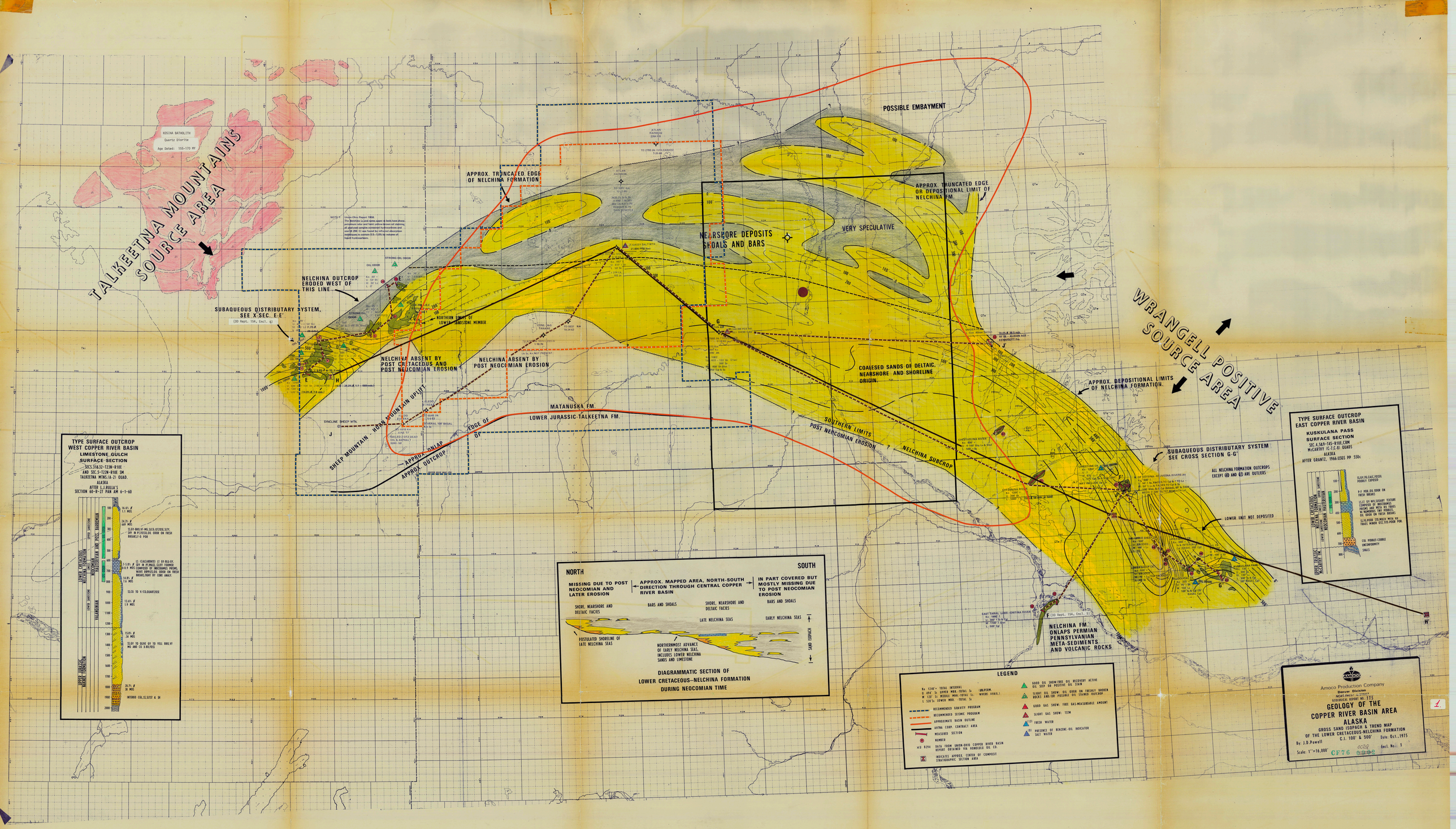

TALKEETNA MOUNTAINS SOURCE AREA
KOSINA BATHOLITH
Quartz Diorite
Age Dated: 155-170 MY
POSSIBLE EMBAYMENT
APPROX. TRUNCATED EDGE OF NELCHINA FORMATION
APPROX. TRUNCATED EDGE OR DEPOSITIONAL LIMIT OF NELCHINA FM.
NEARSHORE DEPOSITS SHOALS AND BARS
VERY SPECULATIVE
NELCHINA OUTCROP ERODED WEST OF THIS LINE
SUBAQUEOUS DISTRIBUTARY SYSTEM, SEE X-SEC. E-E'
NORTHERN LIMITS OF LOWER SANDSTONE MEMBER
NELCHINA ABSENT BY POST CRETACEOUS AND POST NEOCOMIAN EROSION
NELCHINA ABSENT BY POST NEOCOMIAN EROSION
COALESED SANDS OF DELTAIC, NEARSHORE AND SHORELINE ORIGIN.
APPROX. DEPOSITIONAL LIMITS OF NELCHINA FORMATION.
WRANGELL POSITIVE SOURCE AREA
MATANUSKA FM.
LOWER JURASSIC-TALKEETNA FM.
SHEEP MOUNTAIN - HORN MOUNTAIN UPLIFT
APPROX. ONLAP EDGE OF
APPROX. OUTCROP
SOUTHERN LIMITS POST NEOCOMIAN EROSION
NELCHINA SUBCROP
SUBAQUEOUS DISTRIBUTARY SYSTEM SEE CROSS SECTION G-G'
ALL NELCHINA FORMATION OUTCROPS EXCEPT (A) AND (B) ARE OUTLIERS
LOWER UNIT NOT DEPOSITED
NELCHINA FM. ONLAPS PERMIAN PENNSYLVANIAN META-SEDIMENTS AND VOLCANIC ROCKS
TYPE SURFACE OUTCROP WEST COPPER RIVER BASIN
LIMESTONE GULCH SURFACE SECTION
SECS.31&32-T23N-R10E AND SEC.5-T22N-R10E SM
TALKEETNA MTNS.(A-2) QUAD.
ALASKA
AFTER L.J.BULLA'S SECTION 60-R-27 PAN AM 6-1-60
TYPE SURFACE OUTCROP EAST COPPER RIVER BASIN
KUSKULANA PASS SURFACE SECTION
SEC.4,5&9-T45-R10E,CRM
McCARTHY (C-7,C-8) QUADS
ALASKA
AFTER GRANTZ, 1966:USGS PP 550c
NORTH
SOUTH
MISSING DUE TO POST NEOCOMIAN AND LATER EROSION
APPROX. MAPPED AREA, NORTH-SOUTH DIRECTION THROUGH CENTRAL COPPER RIVER BASIN
IN PART COVERED BUT MOSTLY MISSING DUE TO POST NEOCOMIAN EROSION
SHORE, NEARSHORE AND DELTAIC FACIES
BARS AND SHOALS
SHORE, NEARSHORE AND DELTAIC FACIES
BARS AND SHOALS
LATE NELCHINA SEAS
EARLY NELCHINA SEAS
POSTULATED SHORELINE OF LATE NELCHINA SEAS
NORTHERNMOST ADVANCE OF EARLY NELCHINA SEAS, INCLUDES LOWER NELCHINA SANDS AND LIMESTONE
SAND ISOPACH
DIAGRAMMATIC SECTION OF LOWER CRETACEOUS–NELCHINA FORMATION DURING NEOCOMIAN TIME
LEGEND
RECOMMENDED GRAVITY PROGRAM
RECOMMENDED SEISMIC PROGRAM
APPROXIMATE BASIN OUTLINE
ANTNA CORP. CONTRACT AREA
MEASURED SECTION
NUMBER
DATA FROM UNION-OHIO COPPER RIVER BASIN REPORT OBTAINED VIA HONOLULU OIL CO.
INDICATES APPROX. CENTER OF COMPOSITE STRATIGRAPHIC SECTION AREA
GOOD OIL SHOW: FREE OIL RECOVERY ACTIVE OIL SEEP OR POSITIVE OIL STAIN
SLIGHT OIL SHOW: OIL ODOR ON FRESHLY BROKEN ROCKS AND/OR POSSIBLE OIL STAINED OUTCROP
GOOD GAS SHOW: FREE GAS-MEASUREABLE AMOUNT
SLIGHT GAS SHOW: TSTM
FRESH WATER
PRESENCE OF BENZENE-OIL INDICATOR SALT WATER
Amoco Production Company
Denver Division
NORTHWEST DISTRICT
GEOLOGICAL REPORT NO. 175
GEOLOGY OF THE COPPER RIVER BASIN AREA ALASKA
GROSS SAND ISOPACH & TREND MAP OF THE LOWER CRETACEOUS-NELCHINA FORMATION
C.I. 100' & 500'
By: J.D.Powell
Date: Oct., 1975
Scale: 1"=16,000'
Encl. No. 1
CF76