CF75 0040 0109

Amoco Production Company

(6a)

## Surface Log

Name UPPER LITTLE NELCHINA RIVER

AREA OR QUAD TALKEETNA MTNS (A-2 STATE ALASKA

LOCATION SENW, SWNE, NWNE Sec. 10, SWSE, NESW, NWSW Sec 3, NESE Sec. 4 TWN 23N RNG 10E, SM

MEASURED BY D. Powell, G. Streeton, & D. Sorey DATE 8/35-74

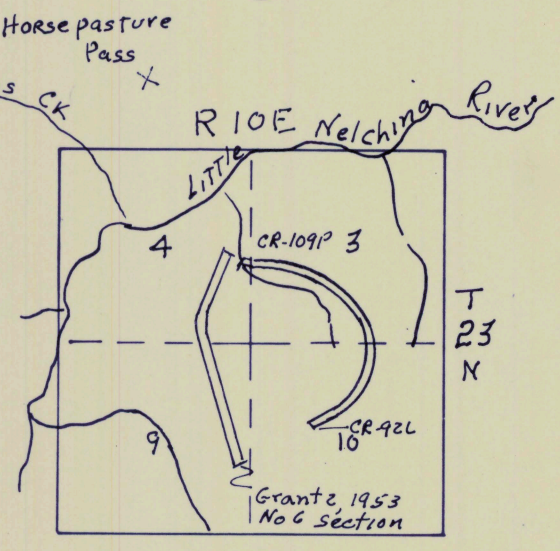
INTERVAL L. Cret-Nelchina Fm & U. Jur-Naknek Fm.

REMARKS Measured (estimated) and sampled down section from Cliff-forming Ls, down north sloping ridge & along North flowing trib. of the Little Nelchina River. See Grantz, 1953, Section No. 6. @ 1/2 to 1 mile to the west.

LOCATION _____ N _____ W

△ Indicates sample cut for source rock analysis.

PLOTTED BY JDP DATE 9/3-75




| PERIODS | EPOCHS | GROUP or FM. | MEMBER | AGES (Stages) | FOSSILS | CORES | SHOWS | DEPTH | LITHOLOGY | POROSITY PFGE | SAMPLES | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CRETACEOUS | LOW. CRET. | NELCHINA FM. | LIMESTONE | | | | OIL ODOR | 100 | | | CR-92L 1.3% φ <.05 mds | Ls, gy, ltgy to blu-gy, wxs bro-yell in pt, fg, composed of finely pulverized inoceramus shells, sdy, mass. Cliff former, thin beds indic. by Fe-stn lamina (1"-2" apart) s/ wave ripples, oil odor on fresh breaks. An east dip slope dev. at top of Ls. Isolated shale knobs locally present. Sh overlying Ls is 45-50' thick, wxs bro-gy, soft, calc, slty & contains abund. belemnites. This sh unit overlies the Ls throughout the area. |
| | | | | | | | | 200 | | | | Normal Fault - up to the North est 500'± displacement Approx. position. Covered w/ rubble from overlying Nelchina Ls. |
| | | | | | | | | | | | CR-93P | Sltst to sh, gy to bro-gy, hd w/ thin ss, yell, f-cg, cly |
| | | | | | | | | | | | | Sh, dk gy, blky |
| | | | | | | | | 300 | | | CR-94P | Sh, dk gy to bk, few thin limy concs, no fossils |
| | | | | | | | | | | | CR-95P | |
| | | | | | | | | 400 | | | | |
| | | | | | | | | | | | CR-96P | |
| | | | | | | | | 500 | | | | Sh, dk gy, slty to sltst, shly, few limy concretion zones, blu-gy. wxs bro, with burrows (concretions are mostly float). |
| | | | | | | | | | | | CR-97P | |
| | | | | | | | | 600 | | | | Sh, dk gy - bk. |
| | | | | | | | | | | | CR-98P △ | |
| | | | | | | | | 700 | | | | Sh, aa, w/ thin calc concs, s/ pelecypods & belemnites. Thin bed (4'-5') arkosic ss w/ a few pebbles at 750' and at 900'. |
| | | | | | | | | | | | CR-99P | |
| | | | | | | | | 800 | | | | |
| | | | | | | | | | | | CR-100P | |
| | | | | | | | | 900 | | | | |
| | | | | | | | | | | | CR-101P | |
| JURASSIC | UPPER JURASSIC | NAKNEK FORMATION | | | | | | 1000 | | | | Sh, dk gy - bk w/ thin 4"-8" conc units every 8-10' |
| | | | | | | | | | | | CR-102P | |
| | | | | | | | | 1100 | | | | Sh, aa, s/ thin calc concs. Pelecypod impress. on concs, trs of belemnites. A 4' ss at 1150' gy-bro, f-mg, arkosic, calc, thin-bdd to mass. Top 10" x-bdd showing flow direct^n to the SW. |
| | | | | | | | | | | | CR-103P CR-104L 5.6% φ .18 Mds | |
| | | | | | | | | 1200 | | | | Sh, dk gy to bk, calc, silty w/ thin Ls (lentils) and concretionary beds 1300-1400'. Gastropod at 1325' |
| | | | | | | | | | | | CR-105P | |
| | | | | | | | | 1300 | | | | |
| | | | | | | | | | | | CR-106P | |
| | | | | | | | | 1400 | | | | |
| | | | | | | | | | | | CR-107P | |
| | | | | | | | | 1500 | | | | Normal fault at 1550' w/ little apparent displacement. |
| | | | | | | | | | | | CR-108P | |
| | | | | | | | | 1600 | | | | Sh, dk gy to bk, s/ sdy |
| | | | | | | | | | | | CR-109P △ | |
| | | | | | | | | 1700 | | | | |
| | | | | | | | | 1800 | | | | |
| | | | | | | | | 1900 | | | | |