W-23

AMOÇO PRODUCTION COMPANY

SURFACE LOG

CF 800101

NAME: W-23: NORTH FLANK OF FOGGY SYNCLINE EAST OF UTUKOK RIVER.

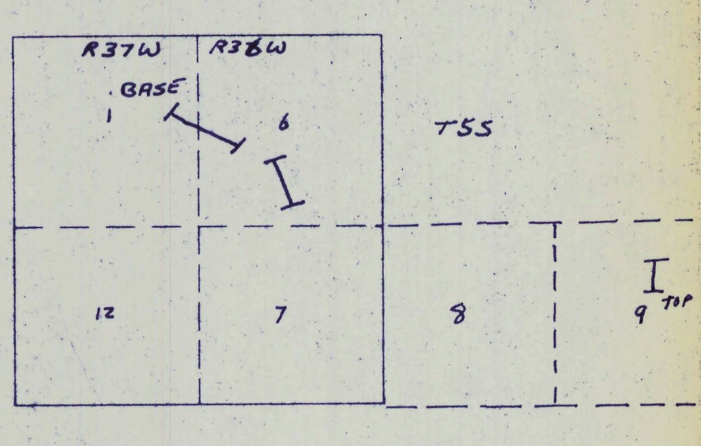
AREA OR QUAD: UTUKOK RIVER A-3 QUAD. STATE: WESTERN NORTH SLOPE, ALASKA

LOCATION: SEC. 1 / 6, 9 TWN. T5S / 5S RNG. R37W / 36W

MEASURED BY: K. W. SHERWOOD, R.L. STEWART ; C.R. Williamson DATE: 7/77

INTERVAL: KUKPOWRUK FORMATION

REMARKS: MEASURED IN GULLEY AS SHOWN IN SKETCH MAP. SAMPLES DESIGNATED "PL77-FOG-". CORRESPONDS TO U.S.G.S. SECTION #25, CHAPMAN + SABLE PROF. PAPER 303, PL. 13.



Plotted by Beth King

PERIOD	EPOCH/STAGE	FORMATION/MEMBER	CUMULATIVE FOOTAGE	SAMPLES WITH LAB DATA OR PALEO DATA	LITHOLOGY	MASTER BEDDING	PALEOCURRENT DATA	INTERVAL THICKNESS	DESCRIPTIONS

*: SOURCE ROCK ANALYSIS AVAILABLE

CRETACEOUS / ALBIAN / KUKPOWRUK FM.

- 11.5+ — Sandstone, mg, lt gry, mod-sorted, mod-calcareous. lg-scale trough and tabular cross-strat. sets 2-4' thick. Top covered. Base erosional.
- 11.3 — Sandstone, fg at base, becoming vfg, silty at top. med gry, mod calcareous. Lower most 1 foot trough cross-stratified and zoned with shale pebbles and lg (2' length) wood fragments. Erosional base. Upper part climbing ripples, becoming thinner bedded at top. Eroded top.
- ESTIMATED 1100 ft. COVERED
- 17' — Sandstone, fg, lt gry, very calcareous, thin bedded, low-angle trough cross-strat. 0.8-1.8 thick. broad (20-40") troughs.
- 3.9 — Covered
- 3.0 — Sandstone, vf-fg, med gry, very calcareous, well cemented, top & base covered, med bedded, bedding 0.8'-1.4' thick; low-angle trough cross strat. Upper beds rippled on top. Tracks & trails on upper surface. Unit thickens considerably eastward.
- 70.' — Covered, probably shale w/interbedded sandstone.

Ripple Transport Direction

- 6.0 — Sandstone, fg, dk orangish-gry, mod-sorted, slightly calcareous. well-cemented. Horiz-lam. in lower 5'. upper 0.8' sm-scale tabular cross-strat. Set 0.8'.
- ESTIMATED 570' COVERED.

RLS-171; PL77 FOG-171 — ϕ = 7.8 Kmd = 0.023

- 11.2' — Sandstone, fg at base, f-mg near top, lt-gry, non-calcareous, moderately sorted. Lg-scale, low-angle trough cross-beds. Sets 0.8-1.5 thick. Top-base covered. Cross strata meas on slightly disoriented block w/attitude N23W 75W. Minor rippled zone 0.2-0.5'. Sm-scale trough cross-strata, vfg, org-rich sandstone. vertical burrows in ripples. lightly bioturbated.

Transport direction of x-beds: 1) - S67W, 2) - S52W

- 10.0 — Covered
- 1.0 — Sandstone
- 18' — Covered, probably shale
- 21.0 — Sandstone, fg, med-gry, very calcareous, top of base covered, thin-bedded, lg-scale trough cross-lam. in sets 1-3' thick.
- 185' — Lower 81' covered. Upper 64' talus, mostly sand w/shale washing over.
- 6.0' — Low ridge sandstone, vfg, med-gry, calc, thin-bedded ripples, tracks & trails; top & base covered.
- 45' — Covered.
- 8.0' — Sandstone, fg, lt-gry, mod-sorted, well-cemented, mod. calcareous, rip-ups clasts pebble sized, poorly exposed.
- 42.0 — Covered, probably interbedded sandstone and shale.
- 18.0 — Sandstone, vfg, silty, dk-gry, v-calcareous, well-cemented, roots & other carb. material. tracks & trails on float, poorly exposed-mostly covered.
- 67.0 — Covered - probably shale.

Ripples: S14E, S19E, S4E. Cross-beds: N88E, S16W. Ripple Transport directions (cross-beds; ripples (climbing)).

RLS-170; PL77 FOG 170 — ϕ = 2.4 Kmd = 0.039

RLS-169; PL77 FOG-169 — ϕ = 12.4 Kmd = 0.37

- 2.7 — Sandstone, vfg, slightly calc., very-thin bedded.
- 6.1 — Sandstone, fg, lt-med-gry, mod. calc, thick bedded, sharp erosional base w/groove casts aligned N10W; shale pebble cast lag; transitional at top. lg-scale low-angle trough cross-bedding sets 1-2½' thick. abd. plant mat'l.
- 8.9 — Sandstone, fmg, mod well sorted, lt-gry, v. calc. sharp top. med-bedded, lg-scale, low-angle trough cross-laminae, rippleton foresets 1½-3½' thick.
- 7.0 — Covered, evidence of shale.

RLS-168; PL77 FOG-168 — ϕ = 1.2 Kmd = 0.00068

- 3.3 — Sandstone, fg, med-gry, trace of carb. material disposed througout. Slightly calcareous. med bedded. (6-8") horizontal bedded. Base & Top covered. ripples on upper surfaces.
- 3.7 — Covered, probably shale.
- 4.8 — Sandstone, vfg, med-dk gry. abundant carb. material, slightly calcareous. coaly partings.

Attitude N84E 12SE

*PL77 FOG-172 - Collected from Torok Approximately 1000'-2000' below base of Kukpowruk Fm. at Map locality SE/4 Sec. 31, T.4.S, R.37W.