

Clastic

| Rock Type | Type/Grn Sz | Clay Content | Bedding | Pore Type | Cem/Pore Fill | Water Depth | Fauna | Color |
|-----------|-------------|--------------|---------|-----------|---------------|-------------|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Operator Amow
 Well Prater A-2
 Location 22-315-33W
 County Seward
 API 151752025
 Elevation KB 2884
 Spud Date Feb 1975

Cored Interval 2928-3168
 Core Described 2928-3168
 KGS Corebarn Loc. _____
 Core Depth Correction _____
 Date 7/19/06
 Description by M&Ov6.0
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Carb.

| Rock Type | Dunham | Clay Content | Grain Size | Pore Type | 2nd Pore | Water Depth | Fauna | Color |
|-----------|--------|--------------|------------|-----------|----------|-------------|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

E/2 22-31-33 130420.7
 253081

| Plugs | Thin Sect. | Rock Type | Dunham | Clay Content | Grain Size | Pore Type | 2nd Pore | Water Depth | Fauna | Color | Features | Core Depth | Comments | Depo Envir | Strat Interval |
|-------|------------|-----------|--------|--------------|------------|-----------|----------|-------------|-------|-------|----------|------------|---|---------------------|----------------|
| | | | | | | | | 2920 | | | | | Distinctive Features: ① Vfg SS in marine intervals adjacent to continental portion of cycle Base of ALLM Top of Bateok BILM ② More open marine facies (Fus.) ③ | | |
| | | | | | | | | 25 | | | | | J. FUNSTON MK Cored | | |
| | | | | | | | | | | | | | Top of flow | | |
| | | 5 | 2 | 0 | | 2 | 1 | 6 | 6 | 3 | mm | | Mixed steel west & west-pest Variety of brachs, echinoid spines, & sctrd v. large fusuloids. Fossils are mostly abraded & broken | CDS | FUNSTON |
| | | | | | | | | 2930 | | | | | Sctrd v. large fusuloids w/ good | | |
| | | | | | | | | | | | | | v. sharp contact?? 5 cm of shly silt | | |
| | | 5 | 2 | 0 | | 2 | 1 | 6 | 6 | 6 | | | Large brachs & sctrd crinoids mixed steel whit. silt. small brachs, small crinoids, echinoids, barn-frag. | SDS | |
| | | 5 | 4 | 2 | | | | 7 | 6 | 7 | | | Long siltstone about large brachs sctrd crinoids, sparse brachs | SDS | |
| | | 3 | 2 | 4 | | 4 | | 8 | 5 | 8 | | | 1 Fus. crin. west | CDS | |
| | | 5 | 4 | 2 | | | | 7 | 5 | | | | Small brachs, whole & abraded | CDSL | |
| | | 5 | 4 | 2 | | | | 7 | 5 | | | | fy mud rct pest, small echinoids, brachs, ost & steel grms. | CDSL | |
| | | 3 | 2 | 4 | | 4 | | 7 | 5 | 8 | | | Long silt large brachs & sctrd crinoids | SDS | |
| | | 2 | 2 | 4 | | 4 | | 7 | 5 | 8 | | | | | |
| | | 5 | 4 | 2 | | | | 6 | 5 | 7 | | | Fus. steel west | SDSU | |
| | | 5 | 4 | 2 | | | | 6 | 5 | 7 | | | Extreme Fusuloid Flow! Fus. pest w/ fy matrix of broken small brachs & ost | SDSU | |
| | | 7 | 5 | 4 | | | | 7 | 7 | | | | v. large crinoids Large whole brachs | SDSU | |
| | | 10 | 2 | 3 | | 2 | | 6 | 5 | 7 | | | Upper vfg. silt, qtz, calc. cement rippled & bed | SDS | |
| | | 5 | 5 | 3 | | 1 | | 6 | 4 | 3 | | | (Approaches a boundary) | | |
| | | | | | | | | | | | | | About encl. algae (silt due to coarse on brachs, etc.) further west decreasing Alga, - poroliths (Term) Arby | CDSU | |
| | | | | | | | | | | | | | Clay grm - peloid - bioclast pest - just About. Blackened granitic 0.5 cm clay steel grms bioclast part is forams - algal ab grain size nice ↑ | Trans silt sh | |
| | | | | | | | | | | | | | peloid - pest - ost pest - just crs-siltstone sctrd ripples - bed & mud drapes | TF LA 60N | |
| | | | | | | | | | | | | | Laminated vfg ss & vcrs silt mud clast | TF | |
| | | | | | | | | | | | | | F-m silt, f. pyrite, sctrd mud clast F-m silt, mottled, possible roots (or burrows) filled w/ grn clay | Mmrsn | Blsc |
| | | | | | | | | | | | | | grn mottling & halos | | |
| | | | | | | | | 2960 | | | | | | | |

vfg ss to crs silt

vfg ss to crs

TS
 2959-2
 silt possible lens

could be crs silt! Rethink - TS look? like dol.?? stain or accident

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| Carb. | | | | | | | | | | |
|-------|------------|-----------|--------|--------------|------------|-----------|----------|-------------|-------|-------|
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

| Core Depth | Comments | Depo Envir | Strat Interval |
|------------|--|----------------|----------------|
| 2960 | Excess water / surface water F silt Et. AMBs? Hatched dot calcite nodules (cm) CD + 6' = Lot DEPTH | | B1 sh |
| 65 | CORE DEPTHS APPEAR TO BE ADJUSTED 8 Feet AT CHANGE OF CORE BARREL CD + 8' = Lot DEPTH Interval NOT SKIPPED (only adjusted) | | |
| 2970 | φ2 2972-2991.5 | | |
| 72.5 | Infiltrated w/ calcite cement Scattered grain holes - AMB in hole @ 72.5 | | |
| 73.5 | Any nodules 4-8 cm Surf. w. grey ↳ wrapped in red clay | | |
| 75 | CRS silt matrix w/ tiny silt clasts skel-pel pkt, peloid, pellets, brachs, encc. forams, ost | TF? | |
| | ? Any fill center Red. clay (iron) | CP? | |
| | VF ss to crs silt, rooted | marsh | |
| 2980 | Microgrm chl grm grmt ↳ firm bluish clt - "Osagid" ? p. mg. firm - skel - pellet plect fast. grain size - dark. Some chl grms ↑ obolom. fr. in pt. | TF? Lagoon? | B1 LM |
| | encc. foram skel wast - ind. f | | C |
| | paikoliki (?) Any | | R |
| | Fg, pel. shell, peloid plect | | O |
| | PA or Biv. molds filled w/ cement | | U |
| | encc. ALGAE / FORAM | | S |
| | Sli. dol. | | E |
| 85 | Skel wast plect, small brachs, ost peloid, silted brach dol. in pt. LARGE Brachs → Fgs are abraded? or dislodged (pressure sol.)? EUS - FLOOD Fgs. wast, silt FORAM (encc. & other) PKST MORE, Transfer cty EUS - FLOOD encc. fine - skel - peloid plect | CDS | |
| 2990 | Mixed skel plect - Blend grains | | |
| | Mixed skel wast - plect | | |
| | ! Z! - Core Barrel Change missing? Questionable bar φ3-2993-3009 Looks same 9994 - 3007 | | |
| 95 | "Osagid" chl grain (blend grain) skel ↳ v. thick encc. forams mg - blend grain plect | Silt (marsh) | |
| | ↳ chl blend grain ↳ Lamin. silt w/ small clast | TF | B2 |
| | clasts in silt | CP | sh |
| | Silt | TF | |
| 3000 | Pell. encc. foram plect - grmt VF grt ss, laminated except when burrowed, lighter lim. have more CO ₂ mud | | |

Flood?

Very interesting
V. abt.
encc. forams
lower in grains
Still some encc. forams.

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| | | | | | | | | |
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| Features | Core Depth | Comments | Depo Envir | Strat Interval |
|----------|------------|----------|------------|----------------|
|----------|------------|----------|------------|----------------|

| | | | | | | | | | | |
|------------------------|-----|-----|--|------|--|--|---------|--|--|--|
| 550 | 321 | 313 | | 3040 | | | LA Form | | | |
| 550 | 321 | 313 | | | | | | | | |
| 560 | 531 | 45 | | | | | | | | |
| 560 | 531 | 45 | | | | | | | | |
| 530 | 401 | 56 | | | | | | | | |
| 540 | 401 | 56 | | | | | | | | |
| 780 | 01 | 65 | | | | | | | | |
| 780 | 01 | 65 | | | | | | | | |
| 880 | 21 | | | 45 | | | | | | |
| 880 | 31 | | | | | | | | | |
| 880 | 31 | 63 | | | | | | | | |
| 881 | 21 | | | | | | | | | |
| 881 | 21 | 656 | | | | | | | | |
| 721 | 201 | 756 | | | | | | | | |
| 541 | 301 | 426 | | | | | | | | |
| 881 | 131 | 426 | | | | | | | | |
| 751 | 531 | 436 | | | | | | | | |
| 441 | 312 | 326 | | | | | | | | |
| MISSING? | | | | | | | | | | |
| T 223 | 3 | 376 | | | | | | | | |
| 223 | 3 | 116 | | | | | | | | |
| 114 | 3 | 116 | | | | | | | | |
| 760 | 531 | 333 | | 55 | | | | | | |
| 760 | 431 | | | | | | | | | |
| 760 | 431 | | | | | | | | | |
| 760 | 431 | | | | | | | | | |
| 760 | 531 | 33 | | | | | | | | |
| 880 | 431 | 33 | | | | | | | | |
| | 431 | 43 | | | | | | | | |
| | 4 | 43 | | | | | | | | |
| | 5 | 41 | | | | | | | | |
| | 531 | 4 | | | | | | | | |
| | 5 | 5 | | | | | | | | |
| 880 | 531 | 53 | | | | | | | | |
| 880 | 313 | 53 | | | | | | | | |
| 880 | 313 | | | | | | | | | |
| | | | | | | | | | | |
| 880 | 313 | 53 | | | | | | | | |
| 880 | 531 | 53 | | | | | | | | |
| 880 | 531 | 533 | | | | | | | | |
| 720 | 13 | 654 | | | | | | | | |
| 720 | 13 | 65 | | | | | | | | |
| 720 | 13 | 65 | | | | | | | | |
| 720 | 13 | 65 | | | | | | | | |
| 880 | 531 | 65 | | | | | | | | |
| 880 | 531 | 654 | | | | | | | | |
| 880 | 531 | 657 | | | | | | | | |
| 570 | 737 | 757 | | | | | | | | |
| 570 | 537 | 754 | | | | | | | | |
| 570 | 737 | 754 | | | | | | | | |
| LOST CORE 3070.5-76 | | | | | | | | | | |
| 570 | 737 | 754 | | | | | | | | |
| | 23 | 756 | | | | | | | | |
| | 13 | 756 | | | | | | | | |
| | 13 | 756 | | | | | | | | |
| | 37 | | | | | | | | | |
| | | | | | | | | | | |
| 570 | 737 | 753 | | | | | | | | |

NO FUSILING

D&L

| Clastic | | | Carb. | | | Water Depth | | | Fauna | | | Color | | |
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| Plugs | Thin Sect. | Rock Type | Dunham | Clay Content | Grain Size | Pore Type | 2nd Pore | Water Depth | Fauna | Color | Features | Core Depth | Comments | Depo Envir | Strat Interval |
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| | | 570 | | | 737 | | | 753 | | | | 3080 | | | |
| | | 770 | | | 237 | | | 752 | | | | 85 | Laminated mud layers Vfy pill pkst | PRE | |
| | | 720 | | | 237 | | | 752 | | | | | Int-bed CO2 mud w/ Phy Argyl stems? | MOUND | |
| | | 740 | | | 312 | | | 623 | | | | | (PA West) | | |
| | | 720 | | | 212 | | | 652 | | | | | | | |
| | | 720 | | | 212 | | | 652 | | | | | | | |
| | | 880 | | | 541 | | | 673 | | | | | Dol. wks - M-Cg steel plast-grust? | | |
| | | 880 | | | 541 | | | 673 | | | | | Dol. may have been | LAGOON | |
| | | 880 | | | 473 | | | 426 | | | | | Fg pill-steel plast Sctrd ppt. nodules Sctrd small brachs | | |
| | | 880 | | | 313 | | | 417 | | | | | whispy minis. sctrd small clasts | TF | |
| | | 222 | | | 314 | | | 307 | | | | | Burrowed surface? clasts - lag deposit | | |
| | | 223 | | | 314 | | | 107 | | | | | Sctrd oval carb frags? Rostls? | MARSH | |
| | | 124 | | | 914 | | | 006 | | | | | Phosphat grains? (616 3mm Friz) possible siderite nodules 2-4mm V-abdt. CO2 clasts (below) Poss. burrow | | ← Time equiv! |
| | | 114 | | | 914 | | | 006 | | | | | | | |
| | | 114 | | | 914 | | | 006 | | | | | | | |
| | | 114 | | | 914 | | | 006 | | | | | | | |
| | | 521 | | | 101 | | | 324 | | | | | Burrowed top - ost - gult mdst - west green clay veg w/ v. sctrd brachs stromatolites | TF | WEATHERED |
| | | 521 | | | 101 | | | 324 | | | | | Mottled (beirand & soft lumps) mud cliv. brachs (poss. bryz.) | TF | Sol. channels filled w/ green clay |
| | | 511 | | | 101 | | | 324 | | | | | heavily bedded CO2 silty mudst | | |
| | | 511 | | | 101 | | | 444 | | | | | Calc. nodules | | |
| | | 521 | | | 101 | | | 334 | | | | | Burrowed (workout) | TF | |
| | | 521 | | | 101 | | | 434 | | | | | Large Sol. voids Filled w/ red silt brachs encr. w/ brachs | TF | Part? |
| | | 521 | | | 101 | | | 434 | | | | | Calc. nodules | | |
| | | 114 | | | 914 | | | 001 | | | | | Calc. nodules | | |
| | | 113 | | | 914 | | | 711 | | | | | CLAY | | |
| | | 133 | | | 914 | | | 711 | | | | | LACUSTRINE CO2 MUD | C | |
| | | 404 | | | 2 | | | 005 | | | | | Burrows? Surf. w/ clay? | P | |
| | | 114 | | | | | | | | | | | V. fine roots | | |
| | | 114 | | | | | | | | | | | | | |
| | | 114 | | | | | | | | | | | | | |
| | | 123 | | | | | | | | | | | V. large roots filled w/ red clay & silt Ost. clods (large pods w/ V. thick (CM) cutans | | |
| | | 123 | | | | | | | | | | | | | |
| | | 123 | | | 914 | | | 001 | | | | | CO2 pebbles | | |
| | | 568 | | | 611 | | | 443 | | | | | Burrowed w/ calcite cement? | | |
| | | 568 | | | 611 | | | 443 | | | | | Burrows filled w/ green silt/clay | | |
| | | 568 | | | 611 | | | 443 | | | | | Any had. surrounded by green clay | | |
| | | 411 | | | 211 | | | 436 | | | | | Styl w/ red clay lots of odd voids (early Argyl then Soli & clay fill) | Lagoon | |
| | | 548 | | | 511 | | | 456 | | | | | Red clay filled w/ red clay (Not Argyl) | Shoal | |
| | | 548 | | | 511 | | | 456 | | | | | Phy Alg. west | | |
| | | 528 | | | 101 | | | 654 | | | | | Broken algal black nodules | | |
| | | 528 | | | 101 | | | 656 | | | | | Filled w/ Argyl | | |
| | | 520 | | | 101 | | | 655 | | | | | | | |
| | | 520 | | | 101 | | | 655 | | | | | | | |
| | | 511 | | | 101 | | | 655 | | | | | | | |
| | | 511 | | | 101 | | | 655 | | | | | Red clay Sli silty mixed silt mdst - west sparse ost, small brachs | | |
| | | 520 | | | 101 | | | 655 | | | | | PA West (AA) Occasional ost. | | |
| | | 540 | | | 501 | | | 655 | | | | | Mud silt plast | stom | |
| | | 417 | | | 201 | | | 786 | | | | | Mixed silt 1/2 lara wavy bulb 2 cm vgs to 3/25 filled w/ red clay | | |
| | | 411 | | | 201 | | | 787 | | | | | Root-like No ost | | |
| | | 411 | | | 201 | | | 787 | | | | | | | |

Burrows like clay
Rostls

Upper surf contact
not in core

Silty ost mdst

Red clay
filled w/ red clay

Grain size is silt

← Time equiv!

WEATHERED
Sol. channels
filled w/ green clay

CLAY

grm - blockst
grust
fibroz. echinoids
some ost w/ thin. alg

Shoal

CDS U

stom

S
D
S
U

