







porosity & oil			carb. lith.				arg.
n	l	h	m	w	p	g	m
p	p	p	s	s	s	s	a

Lithologic Description and Comments

## LITHOLOGY CLASSIFICATION

After the written description of each stratum, the lithology is classified by an abbreviated classification in parenthesis.

### Carbonate Lithologies

- (MS-) Carbonate Mudstone
- (PS-) Carbonate Packstone
- (WS-) Carbonate Wackestone
- (GS-) Carbonate Grainstone
- (DOL-) Dolostone
- (LM-SH-) Limey Shale (Highly argillaceous microstylolitized carbonate *in text*)

### Modifiers to Carbonate Lithologies

- (-F) Fossiliferous
- (-P) Peloidal
- (-LM) Laminated
- (-O) Oolitic
- (-ONC) Oncolitic
- (-FR) Fractured
- (-MS1) Microstylolites (less argillaceous) (microstylolitized carbonate *in text*)
- (-MS2) Microstylolites (more argillaceous) (argillaceous microstylolitized carbonate *in text*)
- (-B) Autoclastic Brecciation
- (-RSH) Infilling by Gray-Colored Shale
- (-OSH) Infilling by Red-Colored Shale

} Clayey infill  
*in text*

### Shales

(SH-) Shale

### Modifiers to Shales

- (-Z) Silty
- (-GG) Gray-Green
- (-F) Fossiliferous
- (-DG) Dark Gray
- (-RB) Red-Brown
- (-BL) Black
- (-MC) Contains Microcrystalline-Calcite Nodules

### Other Lithologies

- (SS1-) Very-fine grained Sandstone
- (ZS-) Siltstone

Cities Service A-1 Knudson

NOSENW 16-7-32w

- 4253 fusul., crinoid, biocl., ~~peloid~~ wackest, H. Ben with  
gr. trit, w/irrig. gr. shale lam. and stylolitic shale laminae  
scat. oil stained vugs, coated grains common.  
poorly sorted  
cone fracture - vertical ~~fr.~~, rough w/ no H. growth, mudstain
- 54 wackest. AA, w/o coated grains, scat. bivalves, arthropods
- 54.5 burrowed w/ w/irrig. gr. shale lam., burrows, <sup>selectively</sup> dolomitized
- 57 cleaner CO<sub>2</sub>, H. tan, color mottled, dense mud, biocl. (aa), occ  
phylloid aeg. blade, H. orange - pervasive patches of silica patn.
- 59 scat. phylloid algae with shatter  $\phi$ , now spar filled, brachiopods <sup>glades</sup> (aeg. are  
aeg., art. lga brachs (cm sized) - lophophore well preserved in silic  
specimen.
- 60 wackest, H. Ben, scat. crinoids, brachs, Ef, biocl., burrowed  
few shale stylolitic basits
- 65 near base of ls., dk. - gr. brn.
- 66 burrow mottled ~~gr~~ <sup>green</sup> (cm sized) siltst - wackest, brach, crinoid, Ef  
small brach, molusc.
- 66.5 siltst - ln. sand, scale w/irrig. br. on?, scat. orbicular  
brachs, color mottled gr and green.
- 69.5-70 mottled crin. brach. wackest. ls. and gr. - shale