STRATIGRAPHIC COLUMN OF THE DOTHAN FORMATION IN THE SOUTHEAST ONE QUARTER OF THE DUTCHMAN BUTTE QUADRANGLE OREGON

- Averages 15% shale but highly variable ranging from 5% to 20% shale, sandstone beds range from 30-50 cm. shale, sandstone beds range from 30-50 cm. AVERAGE 70 cm.

- Basalt, greenish gray, grayish green, gray to red-brown, weathered, apatitic, locally vesicular, pillow or boudin trend structures present in places. interbeds of shale with a few thin sandstone beds.

- Averages 95% sandstone in 1-2 m beds. shale where present as interbeds of generally less than 3 cm. in places. the sandstone is very massive in individual beds reaching 50 cm.

- Shale, 75-100%, thinly laminated, strongly contorted and sheared. sandstone beds from 1-10 cm. shale as interbeds. sandstone in beds averaging 10 cm. boudinage common.

- Sandstone, 95%, massive beds of 10-15 cm. shale as thin, interbeds of 1 cm. AVERAGE 15 cm.

-沙al, 95%, moderately to strongly contorted, sandstone in 5-10 cm. shale sequences generally shattered. sandstone sequences from 0-10 cm. sandstone in uniform 45-50 cm. beds separated by shale partings of generally less than 1 cm.

- Sandstone, 50%, in beds from 0.5-1 m. AVERAGE 11 cm. towards top of zone. sandstone in beds averaging 10 cm. boudinage common.

- Chert, light green fresh, red-brown weathering, massive, changes to dark gray. Fresh, buff weathering chert interbedded with shale at bottom of zone. averages 40-60% chert in 1-2 m beds. sandstone in beds slightly thinner. sandstone, 65-70%, in beds of 50-100 cm. shale as thin interbeds of generally less than 1 cm. AVERAGE 10 cm.

- Sequences of predominately sandstone alternating with sequences of predominately shale. sandstone sequences vary from 60-85% sandstone. shale sequences averaging 85% shale. sandstone averages 10 cm. shale as thin interbeds of generally less than 2 cm. AVERAGE 10 cm. sandstone sequences averaging 60% sandstone in beds of 50-60 cm. shale as thin, strongly deformed interbeds.

- Sandstone, 85% in beds averaging 45 cm in thickness. shale beds from 10-12 cm. sandstone sequences between thicker sandstone units of interbeds. sandstone and shale 30-60 cm. in thickness, an average of 3 or 4. 1-2 cm sandstone beds per interbed sequence. from 1-2 cm sequences of 100% shale frequently reaching 10 cm. sandstone sequences reaching 25 cm. boudinage common.

- Sandstone, 85% in beds to 1 m. but averaging 12 cm. shale is relatively thin interbeds. sandstone, 75-90%, in beds to 1 m. but more typically 3-5 cm. shale as thin, interbeds occasionally reaching thickness of 1 m. sandstone, 70%, as above. sandstone, 90% thinly laminated, sandstone in scattered 5-10 cm. beds. sandstone, 50% varies from 40-60% beds highly variable from less than 1 cm. to 1 m. shale as thin, interbeds and as occasional shale rich zones to 3 m. one zone near the base of the section averages 95% sandstone in massive to 4 m. beds. shale as 30 cm. interbeds.

LEGEND

- Bedded sandstone.
- Shale.
- Basalt flows.
- Chert.
- Sandstone (20%). Shale (80%)
- Sandstone (13%). Shale (87%)