

NEALS - BULLY 5-1-78
5-18S-43E

Well/16
OK
18S 43E 5
NBC #5-1-78
6/16
2-26-79

<u>Depth</u>	<u>Lithology</u>	R500825800
0 - 20	Basalt, partially weathered, altered vesicular, reddish. When fresh, dark grey to black with yellow spots, fine grained. Zeolites? Feldspar?	
20 - 40	Basalt a/a; more altered. Some volcanic sand and gravel.	
40 - 60	Basalt a/a; piryte, white milky silica grains. Volcanic sand and gravel.	
<u>60 - 240</u>	Basalt, dark grey, fine grained, calcareous alterations, calcite veins.	TS
240 - 300	Volcanic sand, dark with silica detritus, some light ash deposits.	
300 - 320	Volcanic sand a/a. Basalt, dark grey, fine grained, rust stains - iron oxides?	
<u>320 - 340</u>	Volcanic sand a/a. White calcareous very light sediments - volcanic ashes with secondary calcite.	TS
340 - 360	No sample	
360 - 380	Volcanic sand and gravel, some dark fine grained basalt.	
<u>380 - 400</u>	Greenish altered rock. Basalt or welded tuff.	TS
400 - 420	a/a	
420 - 440	Greenish altered rock a/a. Some black, fresh basalt and light grey calcareous ashes?	
440 - 460	a/a	
460 - 480	Green altered rock a/a. Light detrytus, silica grains.	
480 - 500	Volcanic sandstone with calcareous cement, light fine to medium sand with abundance of silica grains, some light siltstone.	
500 - 520	a/a and some dark, fine grained, fresh basalt (from above?).	
520 - 560	Sand, light, medium to fine grained.	
560 - 620	White, altered calcareous rock. Some dark fine grained basalt, some light fine grained sand.	

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<u>Depth</u>	<u>Lithology</u>
620 - 700	Volcanic sand and gravel - 50% grains dark basaltic 40% light, some ash-like sediments. 10% silica grains. Samples small in quantity, very dirty.
700 - 720	White calcareous sediments - 20%. Greenish siltstone, slightly calcareous, 80%.
720 - 800	Siltstone, grey, some very slightly calcareous.
800 - 860	Sand, grey, fine grained. Some siltstone fragments. Very small samples.
860 - 900	a/a, some trace of basalt chips - from above.
900 - 1000	Clay, greenish, slightly calcareous.
1000 - 1120	Siltstone slightly calcareous.
1120 - 1200	Siltstone a/a some hard, well cemented.
1200 - 1260	Sand and gravel, light. Some siltstone fragments.
1260 - 1280	Sand and gravel a/a 30%. Basalt, dark, fine grained, milky quartz alterations, 70%.
1280 - 1300	Basalt, dark, dense, fine grained. Calcareous alterations. Some sand and siltstone.
1300 - 1320	Basalt a/a, 50% sand and gravel 50%.
1320 - 1340	Sand and gravel a/a 70%, basalt a/a 30%.
1340 - 1500	Basalt, dark dense, fine grained, partially altered. Secondary silica and calcareous alterations present.
<u>1500 - 1520</u>	Tuffs - grey, rhyolite 60% basalt, dark grey glassy, fine grained, 40%. TS
<u>1520 - 1580</u>	Welded tuff or rhyolite a/a 50%. Glassy looking basalt or porphyritic vitrophyre with feldspar crystals 50%. Pyrite, silica veins, some calcareous alterations and reddish minerals. TS

Marie R. Skidh .

Re-log of NBC Int. Hole S-1-78.

4/7/81

Drilled in BC sands w/ it'd GM bsts.

Basically, Skiba's log is very good. Some additions are:

0-60. Bst w/ abundant red cinders. Some pyrite, sometimes filling vesicles in cinders.

60-200. Dark, med-gr bst. Few sm. flag laths, no sl. Some cinders at 180-200.

200-240. Poss silty lighter colored bst than above.

240-300. Lt grey, poorly consolidated ashy sand w/ abun. bst chips, poss from above (?).

300-320. Bst

320-340. Lt grey ashy sand w/ greenish, fu-gr, microvesicular alt'd bst.

340-380. No spl

380-440. Olive greenish alt'd bst (?). Poss loc fragmental. Microvesicular. Poss subaqueous bst (?).

440-460. ala w/ below

460-480. greenish alt'd siltstone

480-580. fu-gr to cr-gr ss. Some bst chips, poss from above. Cr-gr ss w/ hem stain. Minor pyrite from 500-540.

580-600. Med-gr bst

600-700. Est lt-colored ashy siltstone, hematite-stained

crs ss, above bst chips prob from above:

700-800. Est lt-colored ashy siltstone, sltly brownish siltst,
v. minor sltly greenish siltst, v. minor pyrite.

800-840. No spl

840-900. A/a, some bst chips (from above?), some whitish
clay. Minor pyrite

900-1000. Fc-gr siltst, clay.

1000-1160. A/a, lt-colored siltstone. Some sltly greenish

1160-1180. No spl.

1180-1260. A/a w/ some hematite-stained crs ss.

1260-1300. Med-gr bst

1300-1340. Siltstone a/a w/ some bst chips, prob from above

1340-1500. Med-gr bst

1500-1540. Siltst, ss a/a w/ bst chips from above. Some
glassy rhy frags.

1540-1560. Glassy rhy

1560-1580. No spl.

SUM - interbedded bst + ferruginous ss w/ rhy at bottom

Bst: 0-240, 300-320, 380?-450, 580-600, 1260-1300, 1500

Tuff ss: 240-300, 320-380?, 450-580, 600-1260, 1300-1340,
1500-1540.