

6L023010

GRAPHIC LOGS										Gb. elev. 4946.9' K.B. elev. 4960.4 DESCRIPTIONS	
feet DEPTH	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG Unit interval VEINLETS	30' sample interval		
	Calcite	hem.									
400											
410										400-500 Felsite, Tf, aphanitic, vesicular, brn, bleached rim on vesicles, text exactly like samples	
440										T.S. 614-11 & A-97 Minor zee., few argil alt.	
470										Vesicular blk glass, minor zee.	
500										500-1460 Porphyritic Dacite, Td, vitric, vesicular	
530										T.S. Cumulophyric xls of plag, K-feldspar & pyroxene in glass.	
560										590-710 Dacite flow, glassy flow brecc. & porphy- ~4 clay alt. gray-brn. glass	
590											
620											
650											
680											
710										710-740 Mixed glass 1/3, aphanite 1/3 & clay 1/3	
740										740-850 Dacite, dusky red-grayish red.	
770										T.S. aphanitic, few 4mm bio & feldsp-ph.	
800										minor gray glass, pepper Fe-oxide	
830										Tr. qtz minor clay alt. chips.	
860										830-860 glass & clay flow brecc. like 470-590	
890										860-1160 Dacite Flow, gray glass w/ dk-gr. red sperulites? 890- w/ clay & zee.	
920										920-1040 unwashed sperulites + glass	
950										bio. as 740 - ilmenite	
980										grades to cumulophyric aphanitic, gray-brn.	
1010											
1040											
1070											
1100											
1130											
1160										change at 1160 may be only color aph. → glass	
1190										1160-1250 Porph. Dacite Flow, dk gray-blk, glassy, few 1mm feldsp. xls, mafic alt. → clay & hem	
1220											
1250											
1280										1250-1310 Porph. Dacite, pale red, few 1-2mm plag-hem stain & clay coated fract.	
1310											
1340										1310-1370 Clay alt flow brecc. with few glass frag. rem.	
1370										1340-Mixed glass & alt. (poss. tuff). amber feldspar xls, 2mm.	
1400											
1430										1370-1460 Dacite? Flow, black glass, amber phenocryst.	
1460										pass. qtz filled vesicle.	
1520										Clay & sericite alt zone 1460-1490	
1550										Calcite amygdules, also chlorite & zeolite	
1580										1460-2060 Basalt Lava Flow, brn, qtz amygdules v. few phenocryst., low gamma.	
1610											
1640										amygdules continuing, zeolites poss. alt. to clay?	
1700										wh. kaolinite? along fractures, few red chi	
1760										Tr. calc.	
1790										1760-90 fine cuttings, poss. flow brecc. or fault zone.	
1850										Tr. calc. dk. gray-blk glassy when fresh.	
1910										Tr. calc. calc. amygdules.	
1970										Same rock finer cuttings, zee. amyg. Poss. flow brecc.	

DRILL HOLE Ginn 1-13 Chevron Res, Beowawe
 LOCATION Beowawe, Lander Co, Nevada.

LOGGED BY Sibbett
 Dec. 29, 1981

feet DEPTH	GRAPHIC LOGS							GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG Unit Intervals VEINLETS	DESCRIPTIONS 30' sample interval
	ALTERATION									
	Calcite 100	hem. 100	Silicif. 100	Pyrite 100	Chlor. 100	2nd Clays 100				
1970										
2030	Tr								1460'-2060	Basalt flows continued, glassy to aphanitic or alt. to sericite and clay.
2060									2030-60	Mixed 1/2 basalt, - 1/2 tuffaceous siltst.
2090									2060-2090	Poss. Tuffac. siltst. or fault, layered clast, unalt. blk chips are v. fine grained.
2150									2090-2240	Andesite? aphanitic, blk glassy to olive grn alt. chips., high gamma log.
2210	Tr									
2240									1. qtz	qtz veinlets or amygdules?
2270									2240-2330	Tuff, non-welded, poss. waterlain minor layering, blk specks, no phos.
2300									2330-2420	Lithic sandst., fine grained, 1/4 mm pale grn., mod.-poor sort.
30										
60										
90										
2420										
50									2420-2450	Porcelaneous or tuffac. siltst.
80									2450-3050	Andesite?, med. gray-brn, fine grained
2510	Tr								1 qtz	Veinlets and/or qtz amygdules
40									1 qtz	
70									1 qtz	2570-2600 coarse chips, poss. fract. zone
2600	Tr								1. qtz	py, celadonite and qtz in vesicles, breccia
30	Tr								Tr	
60	Tr								Tr qtz	dk gray - fresh
90									2. qtz	olive-brn. partially alt.
2720									1 qtz	
50									Tr. qtz	amygdaloidal - w/ zeo, qtz
80										qtz & calcite amygdules with celadonite cov.
2810										few tuff-siltst. chips.
40										
70										
2900										
30										
60										
40										qtz amygdules continued.
3020										Tr py. in tuff chip, poss. caving.
50										
80									3050-80	Red ash, and andesite chips.
3110									3080-3230	Andesite?, v. fine grain, dk-med. gray
40									1-calc. py.	celadonite, breccia, zeo. and chal. amygd.
70										
3200										
30										
60										
90										
3320										
50										
80										
3410										
40										
70										
3500										
30										
60										
										3580- abundant qtz-zeo-celad. amygd.

DRILL HOLE Ginn 1-13, Beowawe Nev.
 LOCATION SE4 SE4, Sec 13, T. 31N., R. 97E.

LOGGED BY Sibbett
 Dec 30, 1981

GRAPHIC LOGS

Feet DEPTH	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 30' sample interval	
	Calc.	hem	PYRITE			Chlor					2nd Clay
			1st	2nd	3rd						
3560											
90									3290-4250	Basalt lava flow (Continued) dk. grn. gray amygdales of qtz with chlor. or zeol. epidote probably present but too fine. strong propylitic or ductric alteration	
3620											
50											
80											
3710											
40											
70											
3800											
30										3830- finer grained than above.	
60											
90											
3920									Tr, py-ca		
50									1. qtz-py		
80									2. qtz-py		
4010									1. qtz-py		
40									Tr qtz-py		
70									Tr - qtz-py		
4100									Tr - qtz		
30									Tr, calc,	qtz amygdales.	
60											
90											
4220										1/3 sample is white calc. siltst.	
4250										1/2 sample is tuffaceous siltst.	
80									" "	4250-4400 Hornblende Andesite, dk gray, 1-2 mm hornblades, mostly alt., 2x3 mm plagiopheno. alt. to sericite + calcite, variable text.	
4310									" "		
40									" "		
70									" "		
4400									" "		
30									□ □	4400-4550 Dacite dike? White to v. pale grn mica alt. to sericite + minor chlor.	
60									□ □	Few rounded clasts, qtz & feldsp. pheno.	
90									□ □	1/2-3/4 sample mix. from up hole.	
4520									□ □ □	T.S. Mix. litho., few clay stone chips. alt. hornbl.	
50										4550-4610 Quartz vein, white-clear, 3-qtz-py silkenides, qtz-py breccia	
80										4610-4730 Chert and argil. siltst., li. gray.	
4610											
40											
70											
4700									T.S.	Chert & slate chips, few chip igneous rock, some pyroclastic rx, weld. ash.	
30										4730-4910 Slate, grayish blk. to dk. gray. with variable amounts of grn. stone & chert.	
60											
90											
4820										Minor grn. stone? in the slate	
50										1. qtz, py	
80										Chert, grn. stone & slate	
4910										Tr. qtz-py	
40										4910-5060 Chert, dk-med. gy. Few slate chips.	
70										T.S. Chert, breccia, few vol. chips with ophitic texture.	
5000											
30											
60											
90										5060-5090 Quartz vein or meta siltst. White-slate, blk. to grayish blk. fine mica xls.	
5120										5090- T.S. Few chert chips.	
50											

DRILL HOLE: Ginn 1-13 Beowawe
 LOCATION: _____

LOGGED BY Sibbett
 Dec 31, 1981

in Feet DEPTH	GRAPHIC LOGS										TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 30' sample intervals	
	ALTERATION						Silicasides	Fault breccia	GRAPHIC GEOLOGY					
	Calc.			Pyrite	Chlor.	C. py.								
5150														
80													5090-5240	Slate, blk to gyish blk. & few chert chips showing weak cleavage & mica sh. en.
5210														
40														
70														
5300														
30														
60														
90														
5420														
50														
80														
5510														
40														
70														
5600														
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6110														
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70														
6200														
30														
60														
90														
6320														
6350														
80														
6410														
40														
70														
6500														
30														
60														
90														
6620														
50														
80														
6710														
6740														

DRILL HOLE Ginn 1-13 Beawawa
 LOCATION _____

LOGGED BY Sibbett

feet DEPTH	GRAPHIC LOGS										TR. TRACE 1. WEAK 2. MOD. 3. STRONG	DESCRIPTIONS 30' Sample interval	
	ALTERATION					Siderites	Fault breccia or gouge	GRAPHIC GEOLOGY	VEINLETS				
	Calc	Py	Chlor.	1. WEAK 2. MOD. 3. STRONG	1. WEAK 2. MOD. 3. STRONG								
6740													
70												6740-7040	Diabase or Greenstone (cont) olive-gy. fine xl. text. poss. few qtz cryst.
6800													
30													
60													
90													
6920													
50													
80													
7010													
40													
70													
7100													
30													
7100-7130													
7100													
30													
7100-7130													
7100													
30													
7130-7220													
7130													
30													
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7220-50													
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7250-7280													
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8150-8225													
8150													
30													
8150-8225													
8150													
30													
8225-8300													
8225													
30													
8225-8300													
8225													
30													
8300													
30													
8300													
30													

DRILL HOLE Ginn 1-13 Berwawa, Nev.
 LOCATION _____

LOGGED BY Sibbett

LITHOLOGIC WELL LOG

PROSPECT Beowawe
 COUNTY _____ STATE Nevada
 DATE _____ SECTION 13
 TOWNSHIP 31N
 RANGE 47E
 WELL No. B-29-79

CHEVRON RESOURCES COMPANY

Reported to represent the upper part of Ginn 1-13

TIME	DEPTH	LITHOLOGY	COMMENTS
	0-10	#1 95% grey fine grained basalt-3% cream fine grained lithic calcareous tuff?-2% subrded pebbles.	Mud Temp. = 70°F
	10-20	#2 98% subround to subang pebbles (mostly grey basalt)-2% ang. frags of basalt off larger fraction?-a trace of cream fine grained, lithic, calcareous tuff?	MT = 70°F
	20-30	#3 Subrounded to subang. pebbles with a trace of ang. frags, alluvium.	MT = 70°F
	30-40	#4 Alluvium-subrounded to subang pebbles & a trace of sand-~ 5% ang. frags off larger fraction.	MT = 65°F
	40-50	#5 Alluvium-95% subrded to subang pebbles, a trace of sand & granules.- 5% ang. frags.	MT = 68°F
	50-60	#6 Same as #5.	MT = 68°F
	60-70	#7 Alluvium-98% subrounded to subang pebbles-1-2% ang. frags, a trace of sand & granules-a trace of silica (tan) cemented sandst.	MT = 68°F
	70-80	#8 Alluvium-subrded to subang pebbles w/trace of ang. frags sand & granules-trace of silica cemented sandst. as #7.	MT = 68°F
	80-90	#9 Alluvium 95% as above-5% buff silicified? lithic tuff? a trace of qtz sandst. (very hard & clean).	
	90-100	#10 Med. grey diktytaxitic olivine basalt-a trace of alluvium.	MT = 68°F

Litho. for Ginn 1-13

17-1/2" drilled to 110' then opened to 26" to 106' bridging problems encountered while try to set 20" conductor pipe to bottom (106'). So conductor pipe was set @ 47'.

Mud logging unit was rigged and samples were collected beginning @ 110' per "Mud Logging Instructions."

Depth	Description*
110/20	<p><u>Andesite</u>: pred. reddish brown micro x'ln aroundmass with 3-4% phenos., relic weathered out phenos with iron ox staining adjacent appears to be a clinopyroxene (probably augite) other phenos. were in abundance clear to shiney bin lath shape mineral probably a Ca rich plag.</p> <p>5% bg cuttings have white, powdery coating (kaolinite). Cuttings commonly display red and yellow iron ox staining.</p> <p>Whitish to light grey material with black specks is cement from casing job.</p> <p>Trc amount of 3 different looking cryto x'ln qtz clear - white chalcedony, a milky creamy white opal? And a banded agate appearing variety.</p>
120/30	<p>Generally, A/A but <3% is a light grey <u>andesite</u> that is V. hard and appears to have been silicified with a sugary texture. Contains dark reddish brown to dark amber phenos. lath shaped. Trc pyroclucite in white clay minerals.</p> <p>Cement in sample.</p>
130/40	<p>Cuttings much finer, last lith described (120/30) absent. Trc of v. light gel powdery clay minerals. Generally A/A.</p>
140/50	<p>Majority of cuttings are fine grain - 0, with approximately 20% larger grain. Generally as above minor amount <5% of is a mottled reddish brown and grey.</p> <p>Grey doesn't appear to be volcanic? Some light grey mottling also occ. striated plag lath visible fresh looking white powdery clay increase to + 3-4%; cement present in sample.</p>

* Descriptions provided by R. F. Smith mud loggers.

Depth	Description
150/60	A/A yellow staining more prev. Some pieces approximately 15% are light grey speckled rock either silicified or mafics nearly all leached out (no Iron ox. staining) of groundmass or poss a more acidic rx inclusions. Increase chalcedony 3-5%.
160/70	A/A trc crypto x'ln qtz-trc last described grey speckled lith-trc green staining on some plag grains, some clay minerals have light green cast.
170/80	Andesite A/A 15-20% yellowish brown. Some rectangular phenos probably plag appear to have integrown x'ln qtz (concoidal frags. vis) <u>poss trc</u> included glass. Black in groundmass.
180/90	Cutting much finer. Overall color changes to pred a light reddish brown with a purple cast, red Iron ox staining increase to 20-25%. Phenos less common. Cutting are light purple with red specks.
190/200	A/A decrease red Iron ox staining 15-20% clay min and crypto. qtz A/A pred light purple andesite.

Summary: 110 - 200'

Andesite - pred reddish brown, some light reddish brown with purple cast with depth, porphyritic. Micro x'ln groundmass with plag. and pyroxene phenos, invarious stages of alteration abund. relic phenos of pyroxene, common red and yellow Iron ox. staining. Trc - approximately 5% crypto x'ln qtz, trc silicified lith frags trc - 4% clay minerals.

200/10	Andesite 30% generally A/A. <u>Breccia</u> 70% varies rounded to angular volcanic with frags set in an in an buff-pinkish - whitish clay matrix.
210/20	Andesite reddish brown - brown with mottling of light yellow and green - ang. and red. Some with light purple cast. Porphyritic - <3% phenos. pred. plag micro x'ln groundmass. About 10% have a honey yellow, vitreous mineral on them, possibly adamite(?) trc white clay min. Iron ox staining yellow and red.
220/30	Andesite A/A light grey material in sample is cement sloughed from cement job on conductor pipe.
230/40	As above-abundance of cement in sample-color red-brown with purple cast overall - trc with clay minerals, trc crypto x'ln qtz.
240/50	Andesite A/A. Still abundant cement increase crypto x'ln qtz from trc - 1%.

Depth	Description
250/60	A/A 5-7% dark reddish brown andesite with twinned plag phenos has sugary texture to groundmass. Trc cement. Trc white clay minerals.
260/70	Generally as above some possible red encrustations of realgar? Could be Iron ox staining-xls. of vitreous light green minerals-yellow Iron ox staining.
270/80	A/A.
280/90	A/A
290/300	Color has less purple cast changes more to brown - reddish brown. Trc white clay.
Summary: 200 - 300'	
Andesite; maroon - red-brown (brick) light green, canary yellow and occassional white mottling, cryptoxln - aphanitic-larger cuttings, devitrified - smaller cuttings, hyaline, white, kaolin clay in relic felds cast and in prox of partly alt felds; amber, x'ls/conchod - sbcon. fracture, translucent adamine dull black metallic mineral disseminated thru matrix.	
310/20	A/A except smaller cuttings and matrix more hyaline (glassy)
320/30	A/A.
330/40	A/A vis twinned plag phenos. Trc crypto qtz with included segregated Iron oxides.
340/50	A/A - some pieces have rounded surfaces.
350/60	A/A mottled varied - common, clear plag phenos "fresh" looking overall rock reddish brown with purple cast, cuttings much finer.
360/70	A/A.
370/80	A/A.
380/90	A/A but with dark red brown mottling and banding.
390/400	Trc poss incrustations of Realgar.
400/10	A/A cutting are much larger. Some pieces have light yellow and light green soft coating.
410/20	Cutting are finer. A/A. Trc white crumbly clay - Kaolinite.
420/30	A/A.

Table 4. Directional survey data.

*For Ginn 1-13, Bear-Name cross section is N57W
or 33° 11 of W.*

DEPTH (ft)	DRIFT (degree-minute/direction)
120	1°45'/S75W
241	1°30'/S57W
284	2°/S77W
354	1°15'/S84W
468	1°15'/S16W
700	1°15'/S30W
1088	1°15'/S15W
1226	1°/S33W
1339	0°
1447	1°/S49W
1565	1°45'/N72E
1668	0°45'/N72E
1984	0°45'/S35W
2257	2°30'/S59W
2301	1°45'/S71W
2376	1°/N43W
2418	1°/N8W
2478	1°/N12W
2539	1°/N2W
2613	1°30'/N41E
2701	1°30'/N34E
2794	1°15'/N40E
3427	1°15'/N82E
3940	2°/S67E
5370	2°/N30E
5916	4°/N32E

Feet DEPTH	GRAPHIC LOGS								Fault breccia & gouge	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 30' Sample Interval (non-uniform)
	ALTERATION												
	Calc. 100	Perm 100	Pyrite 100	100	100	100	100	100					
30									No. 5	30-190		Alluvium, poor sort. sand to cong. sub. rd. clast of siltst, slate, vol. of basalt & andesite, clay matrix	
60													
90													
120													
150												Base of Qal uncertain	
180												Below 160' clast mostly dacite, felsite.	
210										190-320		Felsite, nonporphyritic, brn, v. large chips, 1-3 cm angular chips. These large chips probably from a fault or breccia zone.	
40													
70													
300										320-500		Dacite? nonporphyritic - Tr.	
30												blk, vitric, vesicular, zeolite coatings to fillings in vesicles, aphanitic	
60												few brn. chips, flow breccia, clay chips.	
90												clay is li. yellow, non-swelling.	
420												clay prob. alt. at glass, non-hydrotherm	
50													
80													
520										500-1440		Porphyritic Dacite (Td)	
50										520-550		Conglomerate? suspect sample, poss. contamin.	
80										550-1110		Dacite lava flow? aphanitic, brown, vitric, few blk. chips, few plag, pheno	
610												few blk Fe-oxide xls.	
90													
70													
700													
30													
60												Reddish brn,	
90									Tr. calc	760-		pheno crystals are larger, 3m, and more abundant than above, -10-15% xls.	
820													
50													
80												860-920 abund. ves. blk. glass w/ alt.	
910									Tr. calc.	rinds			
40												Sparse vesicles - lava flow base.	
70												dk. grn - blk glass.	
1000													
30												Poss. zeolites & clay rinds on glass.	
60													
70													
1120										1110-1280		Flow breccia or scoriaceous obsidian flow, black vesicular glass with palagonite like clay alt., non-hydroth.	
50													
80													
1210													
40												Some chalcedony & opal present.	
70													
1300										1280-1440		Porph. Dacite lava flow, vitric, grayish blk. reddish brn. devitrified chips, 2-3 mm feldsp. pheno. as above.	
30													
60												1380-1440 palagonite rich zone.	
90													
1420										1440-2000		Basalt, aphanitic, brownish gy to dk. gy.	
50									Tr. qtz			few small feldsp. pheno, amygdules.	
80												amygdules of qtz and zeo.	
1510												Low Gamma -> poss. basaltic.	
40													
70									Tr. qtz				
1600									Tr. calc.				

note:
adjustment
to match
samples

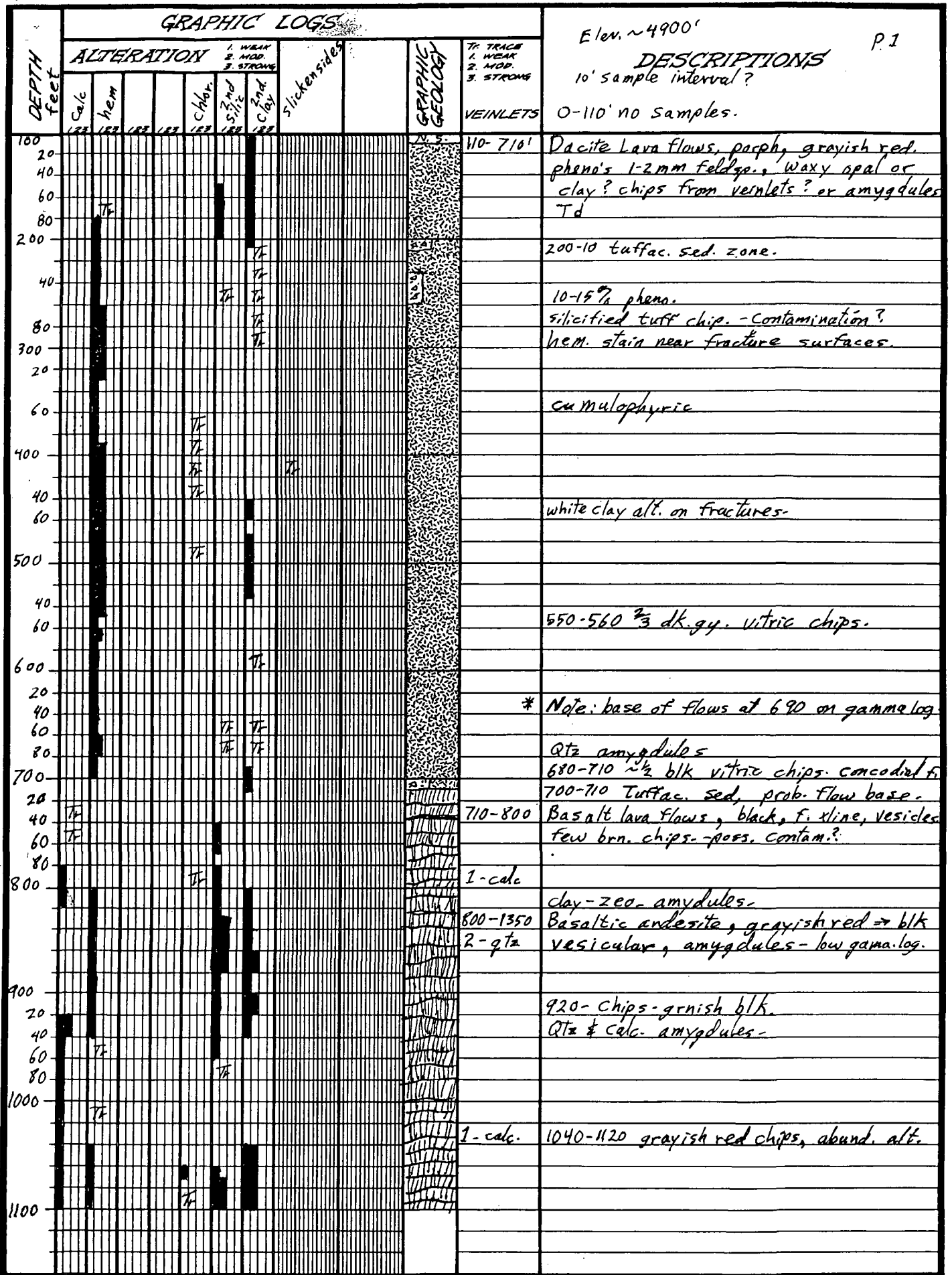
DRILL HOLE Rossi 21-19, Chevron Res.
LOCATION Beowawe, NW 1/4 NW 1/4 Sec 19, T31N, R48E

LOGGED BY Sibbett
Jan 5, 1982

GRAPHIC LOGS										DESCRIPTIONS	
DEPTH feet	ALTERATION						Slickensides	Fault breccia	GRAPHIC GEOLOGY		TR. TRACE 1. WEAK 2. MOD. 3. STRONG
	Calc	Py	Qtz	Chor	2nd Clay	1. WEAK 2. MOD. 3. STRONG					
4800									N. S.	4760-5060 no samples	
30											
5060									???	5060-5110 Chert, med. gy, w/ abund. qtz vein.	
90									???		
5120									N. S.		
5280									???	5280-360 Chert, dk. gy, argil.	
5310									???	5330-5360 alt. dike? li. gy - clay & py.	
40									???		
70									???		
5400									?	5360-5520 Quartzite, li. gy, v.f. gr. to meta-siltst.	
70										Meta siltstone, M. gy.	
60											
90											
5520										1. calc. 5520-TD. slate-siliceous to chert. dk. gy.	
50										1. qtz-py argil. zone.	
80										1. qtz-py	
5610										2. qtz	
40										1. qtz	
70										2. qtz	
5700										T.D. 5686'	

DRILL HOLE Rossi 21-19 Berwawe
 LOCATION _____

LOGGED BY Sibbett



DRILL HOLE Beowawe 85-18 Chevron Res.
 LOCATION NE 1/4 Sec 18, T31N., R 48E., Nev.

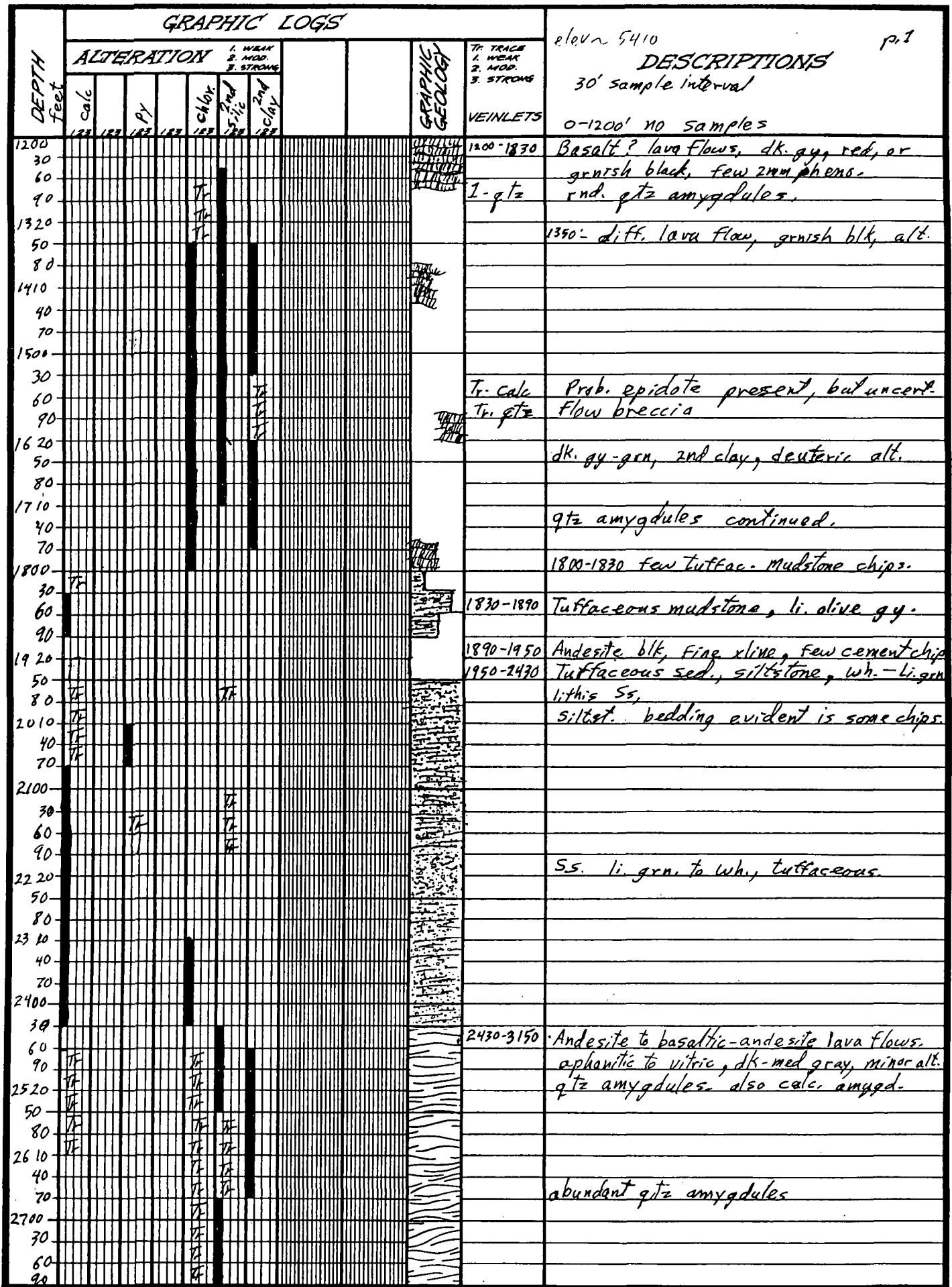
LOGGED BY Sibbett
 Jan. 1982

GRAPHIC LOGS

DEPTH feet	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 10' sample intervals
	1. WEAK 2. MOD. 3. STRONG									
	Calc.	Py								
4200									4200-4300	Slate, chert & Quartzite mixed, interb. slate-blk, chert dk gy to blk, Qtz.
20										
40										
60										
80										
4500									n. s.	
									4320-4380	Slate, blk-, silic. with few chert chips
4400									4380-4390	Chert, li. gy. few slate chips.
									4390-50	Quartzite, dk gy, mix with chert & slate.
40									4350-4520	Chert, dk gy, some slate mix.
4500									Tr. Qtz	
									4520-50	Slate, blk.
4600									4550-4570	Quartzite, med. gy, fi. gr.
									4570-4700	Chert, med. gy. to dk. gy.
										blk. chert, few slate & Qtz.
4700									4700-4840	Quartzite, gyish blk to blk, fi. gr. Mixed with slate & chert.
4800										
40									4840-4890	Chert, med. gy., few slate chips
4900									4890-5000	Slate, blk, and ~ 1/4 chert chips silic.
5000									5000-5080	Chert, med-dk. gy. ~ 1/3 slate chips
5100									5080-5170	Mixed litho. of slate, Qtz & chert dk gy. to blk.
5200									5170-5240	Diabase; dk gy, fine gr. phaneritic V. low gamma log response.

DRILL HOLE Beawawe 85-18
LOCATION _____

LOGGED BY Sibbett



DRILL HOLE Collins 76-17, Beowawe, Getty Oil.
 LOCATION Sec. 17, T. 31N, R. 48E.
 From NE corner S. 3,489', W. 849'

LOGGED BY Sibbett
 Jan, 1982

GRAPHIC LOGS

DEPTH	ALTERATION							Fault breccia & gouge	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 30' sample intervals
	Calc.	Mm	PY	Chn.	I. WEAK 2. MOD. 3. STRONG							
					3% SiO ₂	5% Clay						
2820											2430-3150	Andesite lava Flows (cont.) abundant qtz amygdules.
50												
80												
2910												
40												
70												
3000												
30												
60												
90												
3120												
50												
80												
3210												
40												
70												
3300												
30												
60												
90												
3420												
50												
80												
3510												
40												
70												
3600												
30												
60												
90												
3720												
50												
80												
3810												
40												
70												
3900												
30												
60												
90												
4020												
50												
80												
4110												
40												
70												
4200												
30												
60												
90												
4320												
50												

DRILL HOLE Collins 76-17, Beowawe, Getty
 LOCATION

LOGGED BY Sibbett

GRAPHIC LOGS

DEPTH feet	ALTERATION						Fault breccia & Gouge	GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 30' sample interval
	Calc.		Py	Chlor	2nd silt	2nd clay					
	100	100									
44 10			Tr						4380-4620	Quartzite, med. to li. gy. f. gr. mostly li. gy. clean, well sort. few slate chips & few tuft. sed. caving.	
45 00											
46 20			Tr						4620-4860	slate and meta siltstone, blk to dk gy.	
47 10										qtz interbed.	
48 00											
49 20									Tr. qtz-py 4860-4920	Quartzite, med. gy., med-f. gr.	
50 00									4920-5190	Slate, qtz & chert or meta siltst mix.	
51 00			TE							I-qtz 5090-5130 meta-siltst zone.	
52 20			TE						5130-5190	Slate, black. py-qtz veinlets	
53 10			TE						I-qtz py 5190-5340	Quartzite, dk. gy., fine gr., low grade. slate zone 5220-53'	
54 00											
55 20			TE						5340-5550	Mixed litho slate, qtz, meta siltst.	
56 10										Minor carbonate rock, marble? 5460 - mostly meta siltstone, med. gy.	
57 00			TE						5550-5610	Diabase dike or greenstone?	
58 20			TE						5610-5760	Silic. slate and meta siltstone.	
59 10			TE						I qtz I qtz	graphite sheen.	
60 00											
61 00			TE						5760-5820	Diabase dike, dk gy-grn.	
62 00									5820-6000	Argillaceous Marble, dk gy-fine gr.	
63 00											
64 00			TE								

DRILL HOLE Collins 76-17, Beowawe
LOCATION

LOGGED BY Sibbett

GRAPHIC LOGS										VEINLETS	DESCRIPTIONS 30' sample intervals
DEPTH feet	ALTERATION					Fault breccia & gouge	GRAPHIC GEOLOGY	7: TRACE			
	Calc	py	Chlor	2nd Silic	2nd Clay			1. WEAK	2. MOD.		
6000										5820-6030	Argillaceous Marble, dk. gy. (cont.)
30											
60										6030-6090	Diabase? dk. gy. figr. phaneritic
90											
6120										6090-6150	Chert w/ minor slate
50											
80										2. qtz	dk gy - blk.
6210										6150-6330	Slate, blk, graphite sheen.
40											
70										1. qtz-py	some diabase chips, calcar. slate.
6300											
30											
60										6330-6570	Diabase, phaneritic, 1/4 mm xls. alt.
90											deuterically - med. gy.
6420											
50											
80											
6510											
40											
70											
6600										6570-6890	Slate, calcareous, mica-graphite sheen
30											metallic gray.
60											or argillaceous Marl,
90											with slate & marble bed.
6720											
50											cutting becoming smaller, 1-2 mm
80											
6810											
40											
70											
6900										6820-6900	Mixed litho, Diabase ~ 1/2, Marble 1/4,
30											Slate 1/4; gamma suggest diabase 6875-6890
60											cutting very small, ave. ~ 1mm.
90											6900-7090 2/3 Diorite? 1/3 marl & slate -
7020											Gamma indicates a uniform unit from 6900-7020:
50											1. qtz-py py. disseminated in dacite, GR. → sed. 7D25-30
80											
7110										7090-7200	Silic slate with Diorite mixed,
40											dikes picked from GR. Log.
70											
7200											
30										7200-7560	Meta silicstone? calcareous & argillaceous
60											med to dk gy, uniform fine texture.
90											
7320											
50											
80											
7410											
40											
70											
7500											
30										7. qtz	Probable Fault at 7520, spike on GR. & bulk density logs.

DRILL HOLE Collins 26-17, Berwawe
LOCATION

LOGGED BY Sibbett

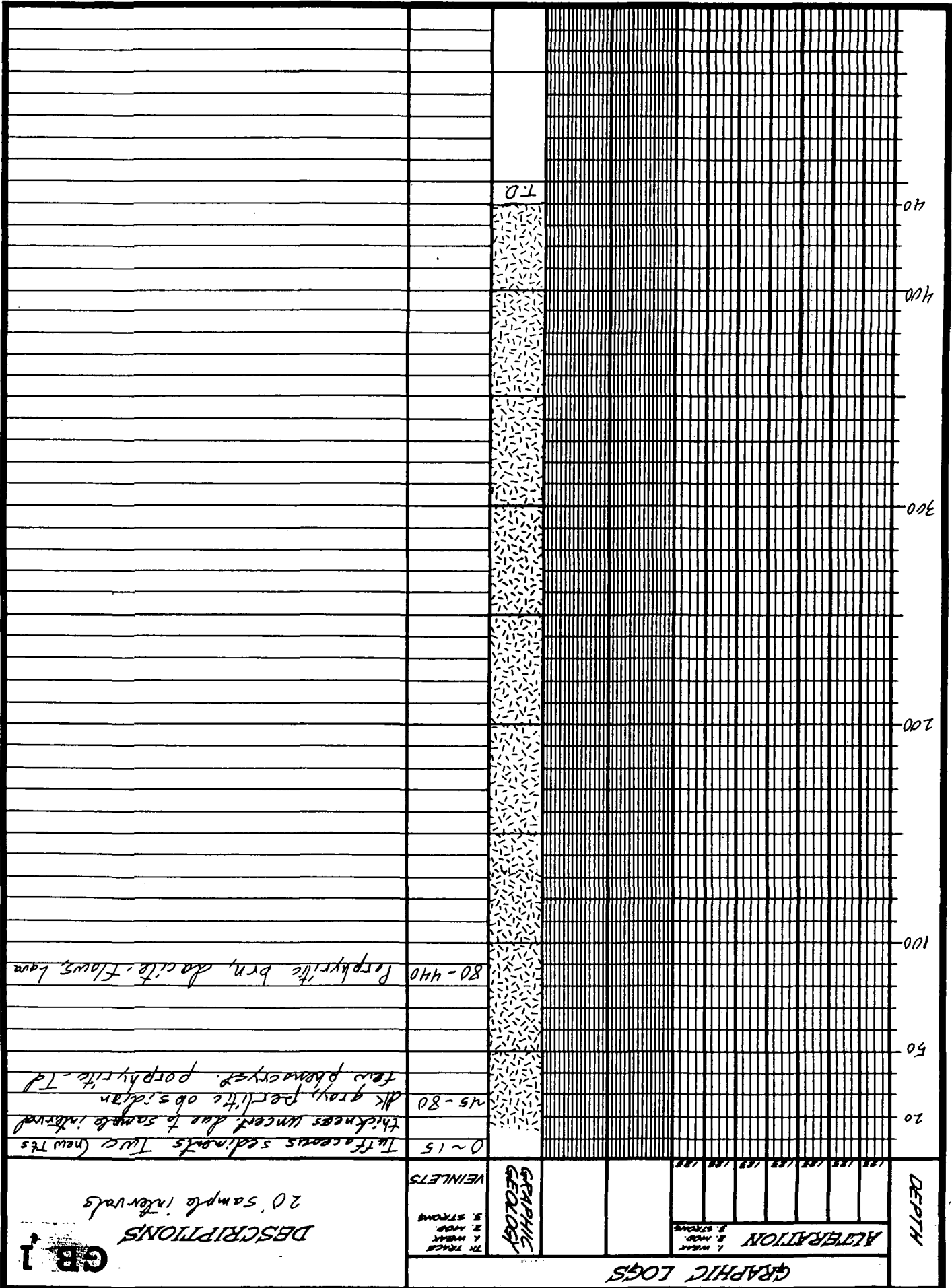
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Sec 20, T 31N, R 48E

LOCATION

GBF 1

DRILL HOLE



0-15 Tufaceous sediments. Thin (new) FeS

15-80 dk gray, perlitic obsidian
thickness uncertain due to sample interval
few phenocrysts. porphyritic. Td

80-440 Porphyritic brn, dacite-flows, lava

20' sample intervals

DESCRIPTIONS

GB 1

ALTERATION
1. WEAK
2. MOD.
3. STRONG

GRAPHIC GEOLOGY

VEINLETS
TR. TRACE
1. WEAK
2. MOD.
3. STRONG

GRAPHIC LOGS

GRAPHIC LOGS

GB 5

Elev. 5180

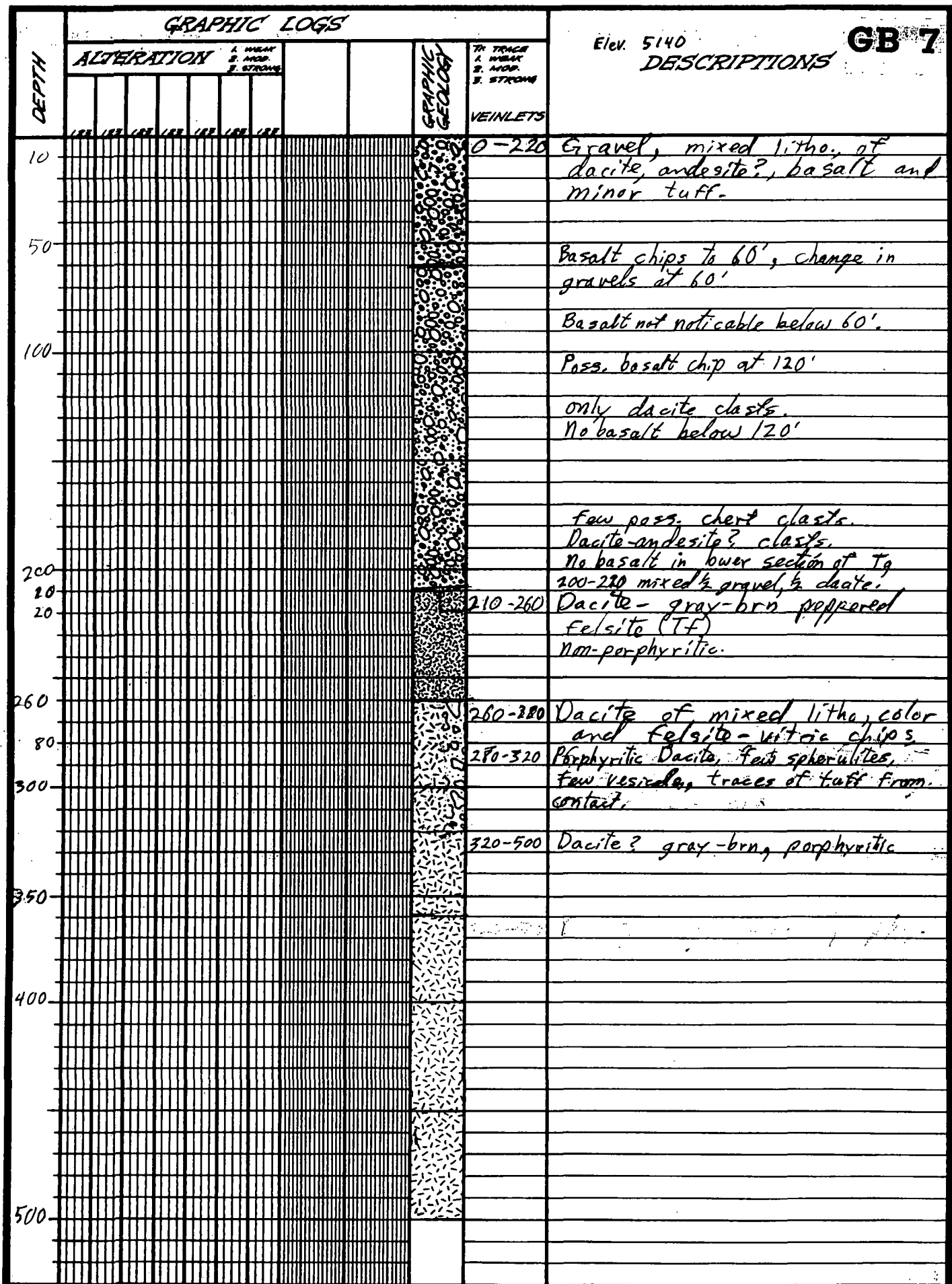
DESCRIPTIONS

20' sample interval

DEPTH	ALTERATION						GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG			
0-50								0-60'	Tuff & Tuffaceous sed. white. 2nd. qtz
50-60								60'-220	blk. vitric, vesicular, non-porphyrific felsite? q. Tf.
60-220									
220-240								220-240	Lithic sandstone? brn & blk vitric
240-260								240-260	Palagonite type clay, yel. alb. From blk vitric, non-porphyrific
260-280								260-	Dark gray, vitric, perlitic, Tf? 1/3 palagonitic alt., nonporph.
280-500								280-500	Red felsite, phenocrytic, w/ gray vitric components 1/3, feld phenoc, Id.?
500-660								2-qtz	abundant 2nd qtz veins
660-400									
400-500									

DRILL HOLE GBP-5 Beauwae
 LOCATION White canyon, Sec 16, T31N, R90E

LOGGED BY Sibbett
 May 6, 82



DRILL HOLE GBP-7
 LOCATION SW 1/4 Sec 22 Beowawe -
E edge of graben

LOGGED BY _____

GRAPHIC LOGS

B 9

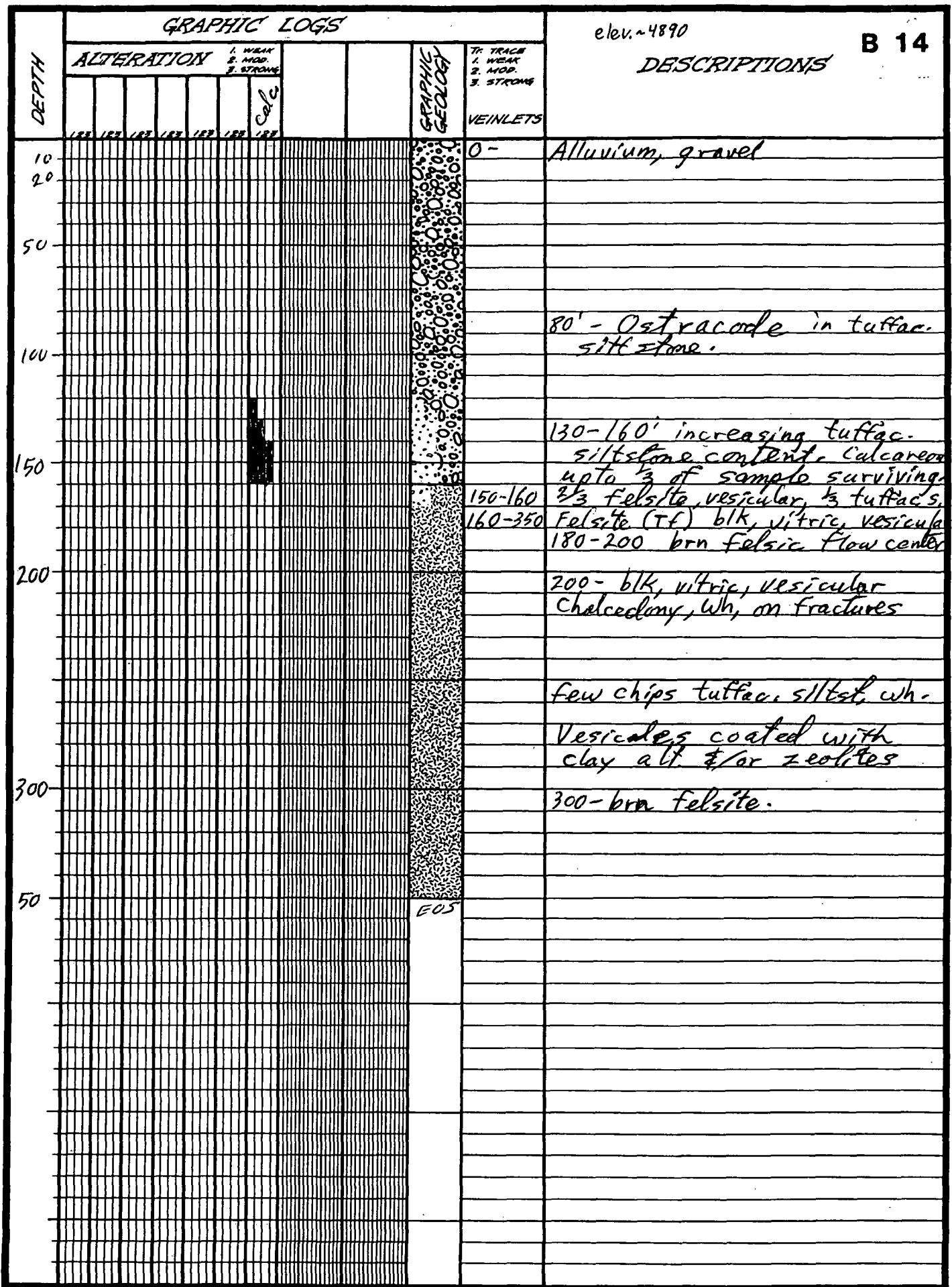
DEPTH Feet	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 20' sample interval
	183	187	191	195	199	203				
10										0-100 Alluvium, gravel mixed litho, vol, chalcedony, tuff, qtz.
20										
100										100-120 Lithic Sandstone, white, Silica cemented
20										120-180 Ss. & pebbles, silica (opal?)
50										140-160 gravel rich zone, 150- banded opal attached to pebble.
										160-180 tuffac. Ss-silt zone, peb.
										180-240 Gravel, peb. well sort & rnd.
200										
20										220-240 angular peb. in tuffac. siltstone, white
40										240-260 silicified tuffac. siltst, w/ petrif. grass. tan, few peb. - prob. contain
										260-280 tuffac. siltst, minor silicification
										280-300 Gravel, peb, rnd.
300										300-320 Tuffac. siltst, few peb.
										320-380 Gravel, peb. rnd, coated with tuffac-silt. matrix or interbedded.
										340- ~ 2/3 tuffac, Ss & siltst.
										380-440 Tuff. ? non-welded or tuffac. silt. li. tan. No xls.,
400										
										440-480 Tuffac. Ss. 2/3, & vol. peb. 1/3 alt.
										460-480 Tuffac. Ss - siltst., few peb.
										480-500 gravel, mixed vol. clast.
500										E.O.S.

DRILL HOLE Beavawae B-9 79
 LOCATION S2e9, T31N, R4E N of White Canyon, in valley, LOGGED BY Sibbett

GRAPHIC LOGS										Elev. 4820'	B 11
DEPTH	ALTERATION						GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS		
	1. WEAK	2. MOD.	3. STRONG								
10								0-430	Alluvium, gravel with clay most peb. well rnd. & coated with yel. clay.		
50									120-140 siltstone zone with few peb.		
100									most peb. & chips of are Felsite.		
200									basalt chips with Felsite		
300											
400											
30								430-440	1/2 vesicular felsite chips, 1/2 peb.		
40								440-500	Felsite TF, blk, vitric, vesicular few peb, ferrac. siltst. & clay alt.		
500									480- brn felsite		

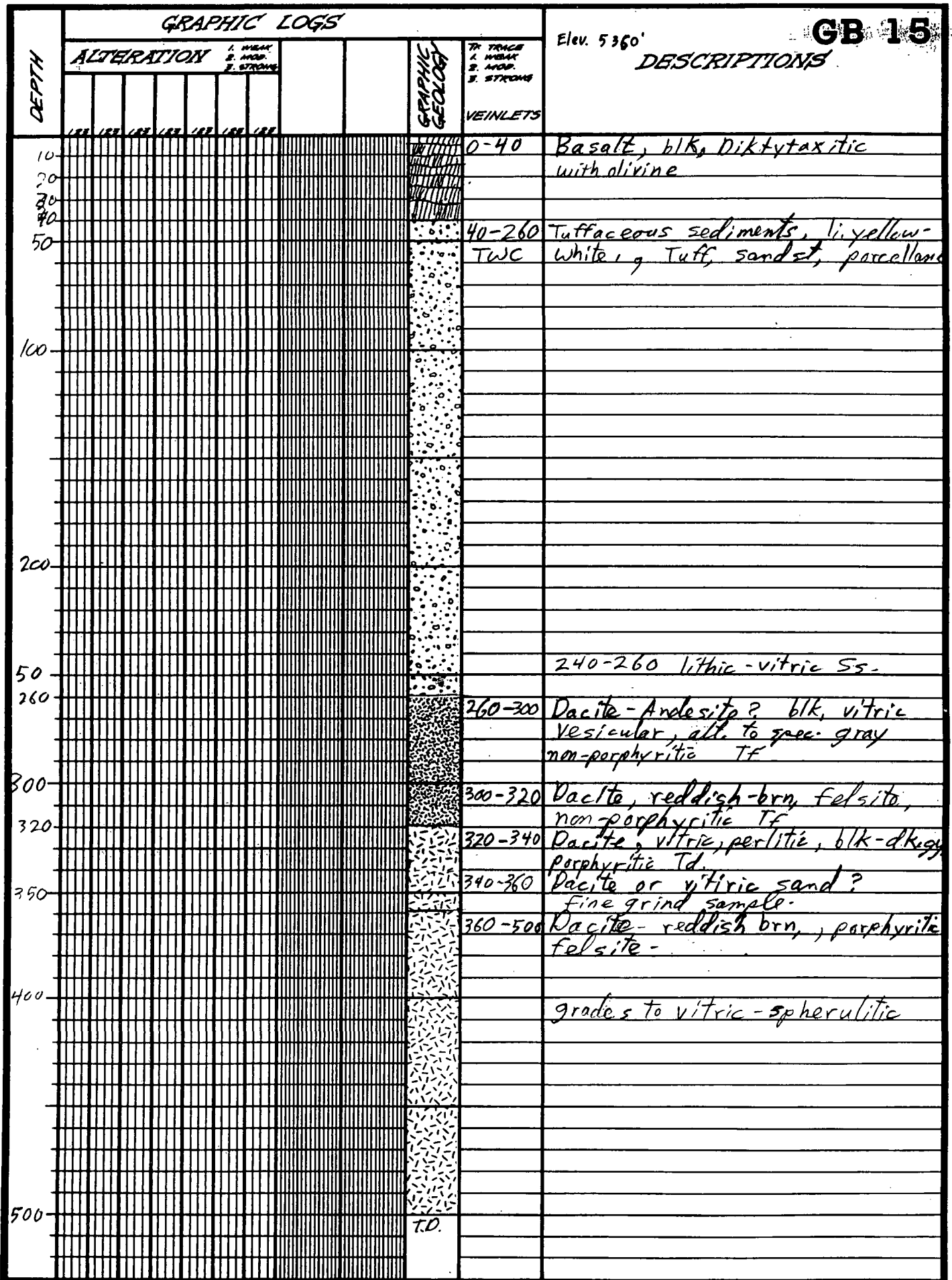
DRILL HOLE Beowawe B-11 79
 LOCATION Sec 7 T. 31N, R 48E NW of Hot Sp.

LOGGED BY Sibbett



DRILL HOLE Beowawe B-14 79
 LOCATION Sec 13, T31N, R47E, NW of Ginn

LOGGED BY Sibbett



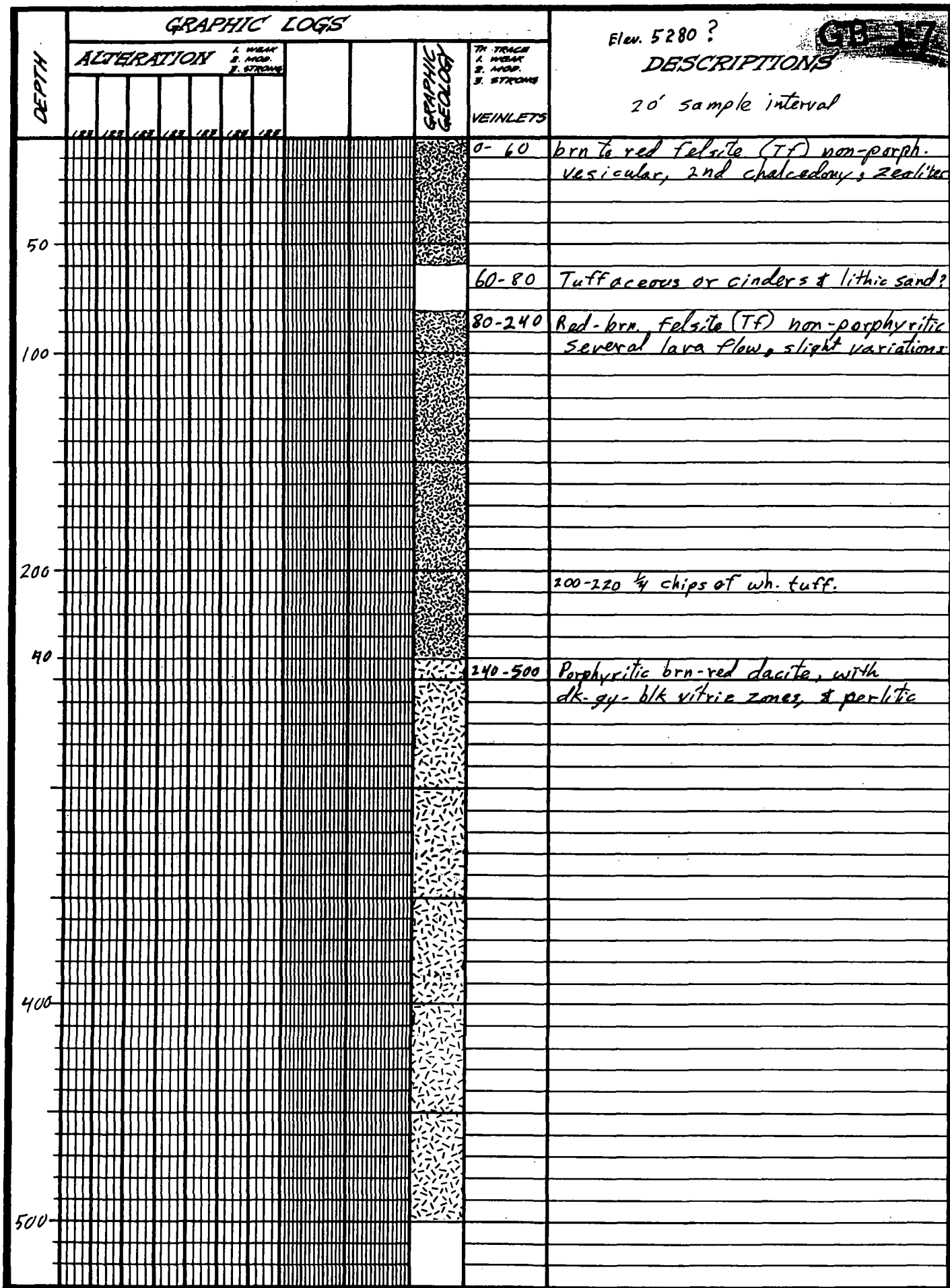
DRILL HOLE GBP-15 Onrim-Graben.
 LOCATION Sec 20 Bearhawk -

LOGGED BY _____

GRAPHIC LOGS							Elev. 5900	GB16		
DEPTH	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS 20' sample interval
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG				
10									0-60	Alluvium or gravel, Tg, rnd. pep., non-calcareous Mixed dacite-andesite litho, yel. tuffac. coatings - matrix? No basalt clast.
20									60-80	Tuffaceous sed, gyish orange or tan. w/ ~1/3 dac. pebbles.
30									80-180	Tuffaceous sed, or tuff, Tan Clay alt., few anh. feldsp. xls Vesiculate like pores, ? irregular
40										Few dacite & chert? peb.
50									140-180	1/3 gravel - dacite peb.
60										Few chert peb.
70									180-220	Mixed litho, Basalt blk-vitric, v.f. gr. & tuffac. Sed. w/ chert peb. Tuff & chert are caving or sample overlies contact of basalt flow., devitr. basalt in ts.
80									220-320	Tuffaceous sed, & non-weld tuff. pass. 220-240 reworked, sandric
90										Li - yellow or cream.
100									T.S.	280-300' clean-wh. non-weld glass? shards. (devitrified or felsite, rhyolite)
110									300-320	perlitic peb. zone, vitric.
120									320-340	Dacite, dk gy, vitric, perlitic, -porphyritic, T.d.
130									340-380	Dacite, brn, felsite-vitric? -porphyritic
140									*	Single Flow with vitric shell ← 320-400', 80' thick Flow.
150									380-400	Dacite, dk gy, vitric, perlitic.
160									400-500	Dacite, gy-brn, felsite spars porphyritic.
170										
180										
190										
200										
210										
220										
230										
240										
250										
260										
270										
280										
290										
300										
310										
320										
330										
340										
350										
360										
370										
380										
390										
400										
410										
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460										
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480										
490										
500										

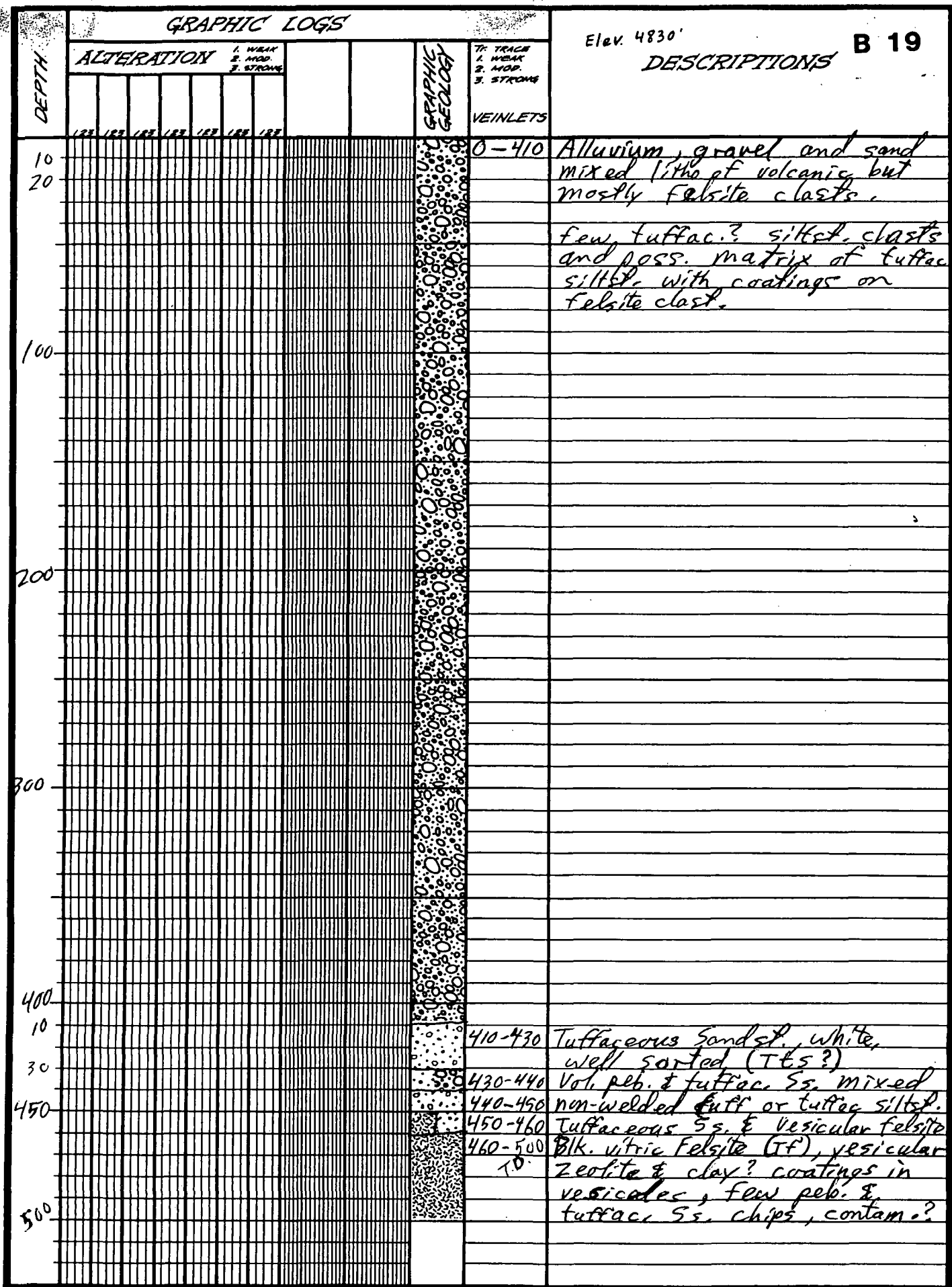
DRILL HOLE⁽⁵⁾ Beowawe, GBP-16
 LOCATION Sec 20, SW rim, in graben

LOGGED BY Sibbett



DRILL HOLE: GBP #17 Beowawe
 LOCATION: lower White Canyon? Seal 6, T31N, R48E

LOGGED BY Sibbett



DRILL HOLE Beowawe B-19 79
 LOCATION See 18, T31N, R48E

LOGGED BY Sibbett

GRAPHIC LOGS

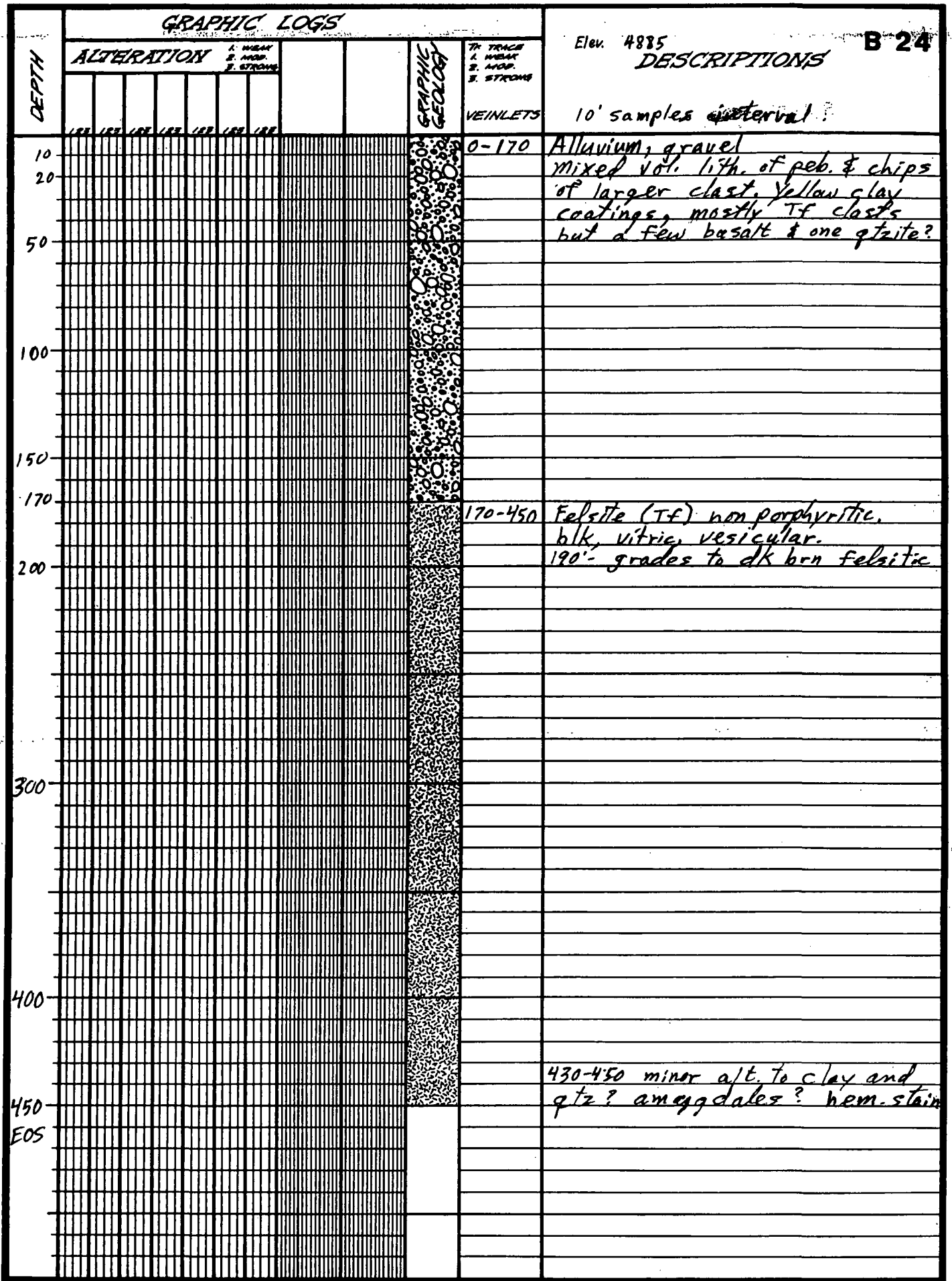
Elev. ~ 4860

B 22

DEPTH	ALTERATION							GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
10									0-410	Alluvium, gravel.
50										
100										
200										
300										
400										
410									410-470	90% blk felsite, poss. bedrock, few rounded & coated clasts, poss. contaminants, Much of the vitric rx. is not equant, poss. perlitic fracturing
470									470-500	Felsite (T.F), blk, vitric
500										

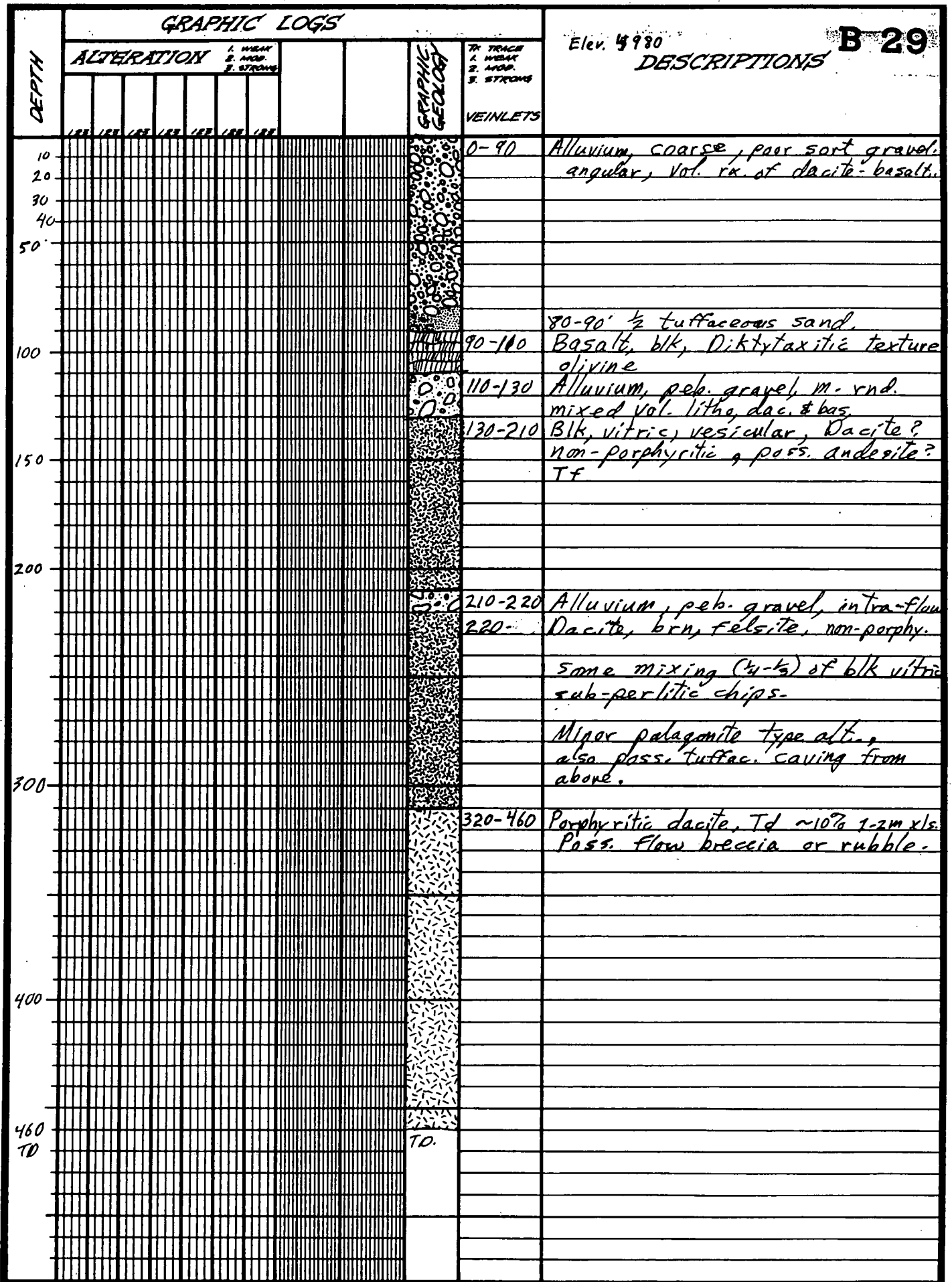
DRILL HOLE: B-22-79 Beowawe
 LOCATION: Sec 18, T 31 N, R 48 E

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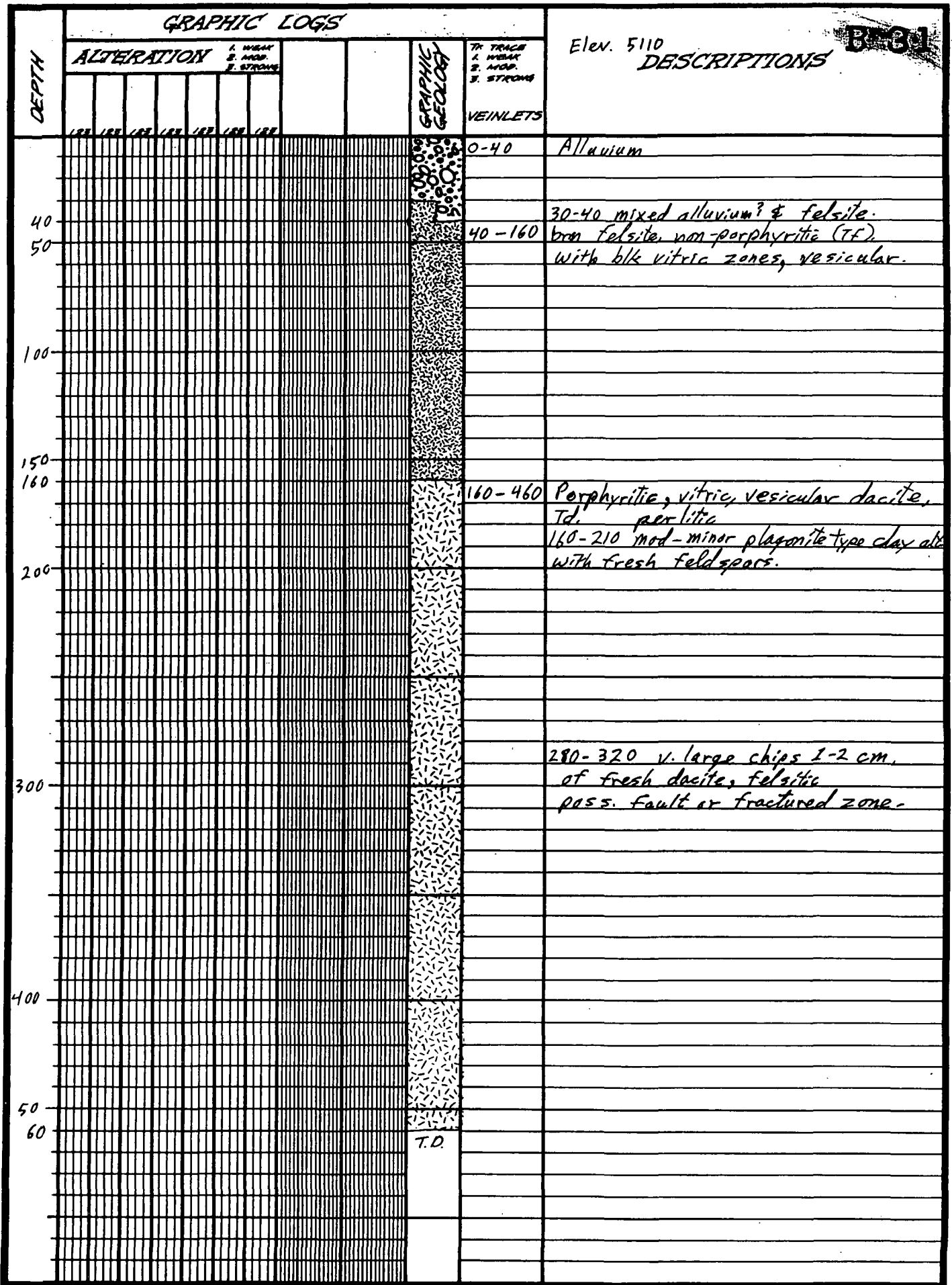
DRILL HOLE B-24-79 Beowawe
 LOCATION Sec. 18, T31 N R49E

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DRILL HOLE B-29 Chevron
 LOCATION Beewaue, graben, off rim to W.

LOGGED BY Sibbett



DRILL HOLE Beowawe B-31-79
 LOCATION Sec 18, T13N, R48E

LOGGED BY sibbett

GRAPHIC LOGS										33		
DEPTH	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS			DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG									
20							[Stippled pattern]				0-200	Dacite lava flows. v.f. cuttings Few phenocryst
40												
60												
80												Qtz crystal, clear, euh.
100												
120												
140												
160												
180												
200												1-calc. poss. opal. 3-calc. Calcite vein chips 2/3 of sample 190-20

DRILL HOLE Beawawe, B-33-79
 LOCATION See 12.

LOGGED BY Sibbett
 Feb, 1982

GRAPHIC LOGS

B 35

Elev. 5370 1637m

DESCRIPTIONS

DEPTH	ALTERATION						GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. SILICA	5. CLAY	6. S. CLAY			
0-250								elev. ~ 5370'	brn felsite, non-porphyrific, Tf. blk-vitric, vesicular flow base/top
250-265							1 qtz		Tuffaceous sed. or non-welded tuff pale pink.
265-500									Racite flow, porphyritic, dk. red felsite? and blk vitric zones, qtz & feldspar pheno, hem, stain.
370-450									Vitric breccia? altered to kaolinite & silica, euh. unalt. feldsp.
opel?									opel?, botryoidal chalcidomy.

DRILL HOLE Beowawe B-35-79

LOCATION Sec 16. (NE rim.)

LOGGED BY Sibbett

GRAPHIC LOGS

Elev. 5100 or 5110

B 37

DEPTH	ALTERATION							GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG	7. TRACE			
10										Elev. ~5110'
20										Felsite, Tf, brn, non-porphyritic few vesicles
50										
70										
80								N.S.		
100										70-110 Felsite, blk, vitric, vesicular
140										
160										NO samp
200										140-240 Dacite, porphyritic gray, minor clay alt. 160-180 - altered dac.? 180 - brn, porph. dacite 2-3 mm feldspar crystals with Fe-oxides around phenos. 210 - mixed felsitic & vitric
50										N.S.
										N.S.
300										Mixed sample w/ spherulites, Vitric, 2nd. glz
										N.S.
										Mixed sample, vitric, & spherulites felsitic chips,

DRILL HOLE Beowawe B-37 29

LOCATION Sec 18, T 31 N, R 48 E on faulted block.

LOGGED BY Sibbett

GRAPHIC LOGS

B 38

DEPTH	ALTERATION							GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG	7. TRACE			
10								0-500	10' sample interval Alluvium, gravel, pebbles. of felsite	
50										
100										
140									silica coated pebble.	
150										
200									Argillic alt. of felsite peb.?	
50									botryoidal Chalcedony, poss. detrital	
300									peb. continued	
400									Few pebbles of tuffaceous? sed. or argillic altered felsite?	
									Chalcedony	
500										

DRILL HOLE Beowawe B-38 79
 LOCATION Sec 18, SW 1/4 in gaben

LOGGED BY Sibbett

GRAPHIC LOGS

Elev. 4920

B 46

DEPTH	ALTERATION							GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	1. WEAK	2. MOD.	3. STRONG	1. WEAK				
10										10' sample interval	
20										0-20 Alluvium, gravel, Chalcedony nodules	
50										20-90 Felsite, Tf, brn, non-porphyrific	
100										70-90 1/2 blk vitric felsite, vesicular,	
150										90-100 1/2 felsite, 1/2 tuff or tuffac. sp.	
160										100- Dacite, porphyritic, Id, vitric perlitic, few chips silic. tuff. Dacite vesicular	
200											

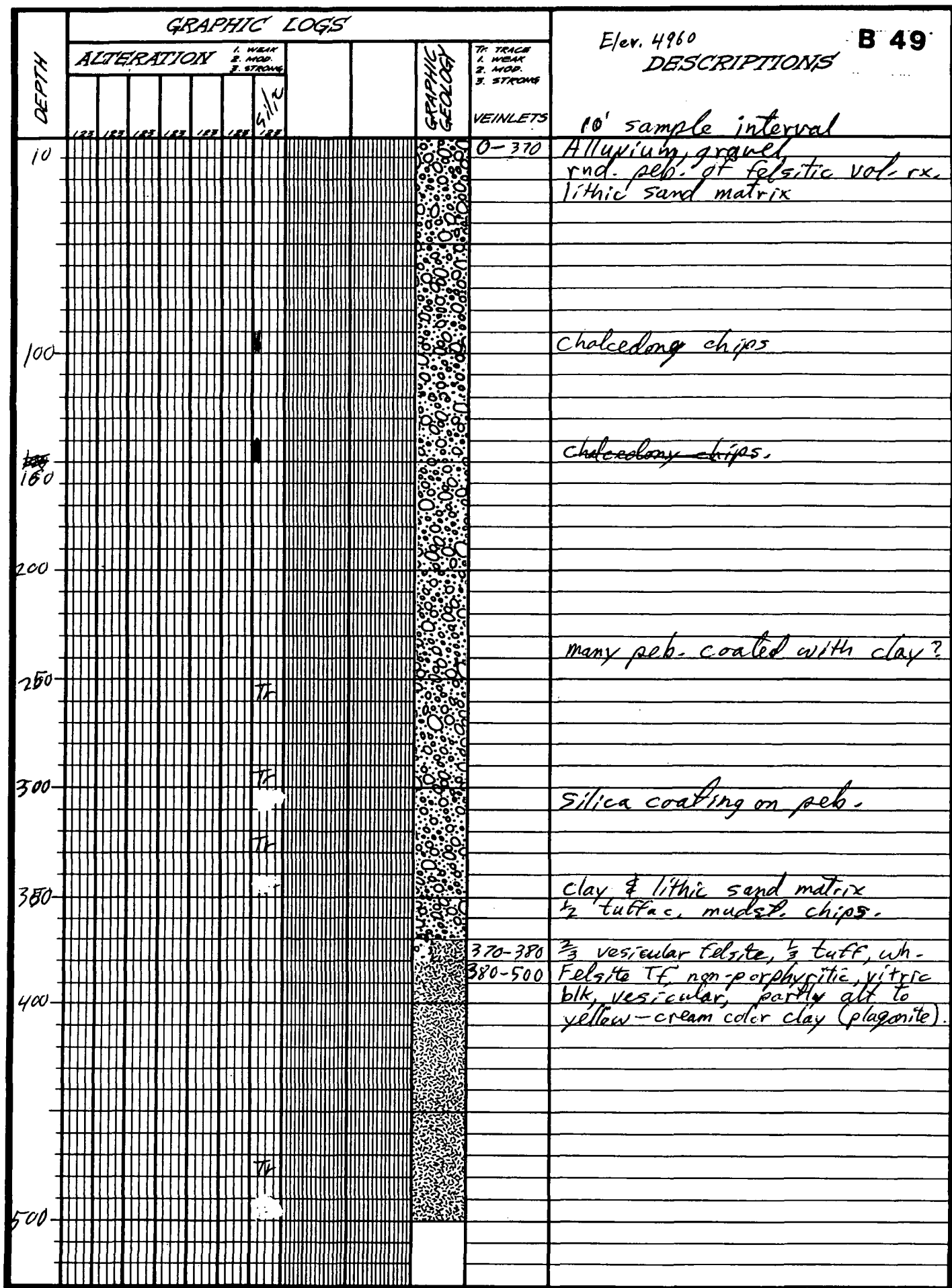
DRILL HOLE Beowawe B-46 79
 LOCATION NW 1/4 NE 1/4 Sec 19, in the graben

LOGGED BY Sibbett
 1982

GRAPHIC LOGS							Elev. 5400	B 48	
DEPTH	ALTERATION						GRAPHIC GEOLOGY	VEINLETS	DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG			
								10' sample intervals	
0-40								Basalt Flow, Di-kytaxitic text. dk. gray. 0-10' tuffac. sed. & basalt mixed	
40-210								Tuffaceous sed. (TWC) pale yellow felsic calcareous, with large calc. chips Fresh glass shards. 40-120 poss. air fall	
150								150- water lain.	
210-360								Dacite, vitric, porphyritic, dk gy. with ~1/4 tuffac. sed. mix., caving? Td.	
300								300- Felsite dacite, brnsh red mixed 1/2 with vitric as above.	
340									
60							N.O. Sample	No. sample below 360' but hole poss. goes to 500'?	
400									

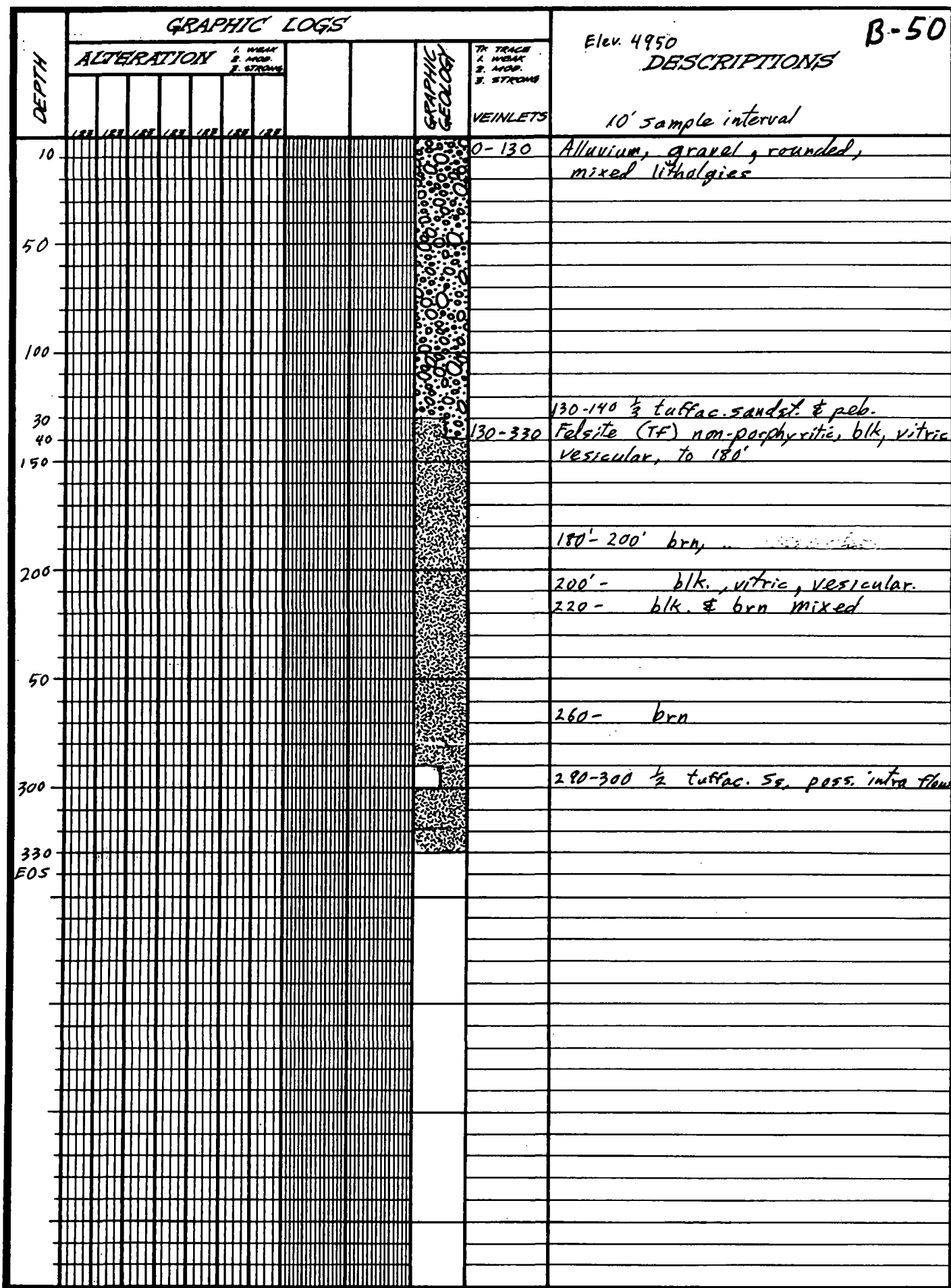
DRILL HOLE Beawawe B-48
 LOCATION Sec 21 Graken, on rim.

LOGGED BY Sibbett



DRILL HOLE Beowawe B-49 79
 LOCATION Sec 24, SW grahen

LOGGED BY Sibbett



DRILL HOLE: B-50-79 Beowawe
 LOCATION: Sec 18, T31N R48E below the rim

LOGGED BY: Sibbett

GRAPHIC LOGS

Elev. 4920

B 51

DESCRIPTIONS

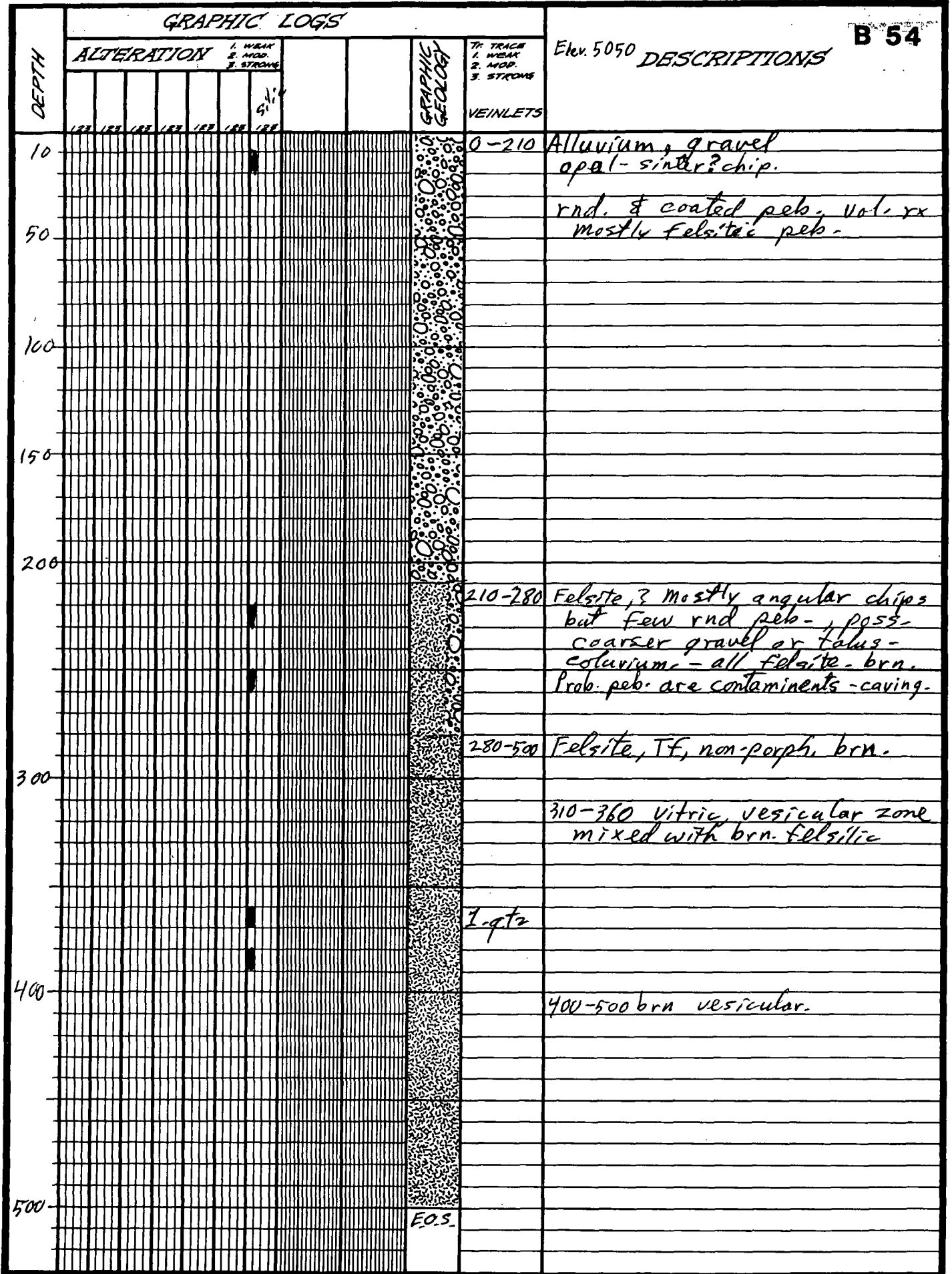
DEPTH	ALTERATION							GRAPHIC GEOLOGY	VEINLETS	TR. TRACE 1. WEAK 2. MOD. 3. STRONG
	1. WEAK	2. MOD.	3. STRONG	1. WEAK	2. MOD.	3. STRONG	1. WEAK			
0-20								0-15	Alluvium, gravel contact uncertain. first sample at 20' is 90% felsite	
20-120								15-120	Felsite (TF) non-porphyrific, dk. gy, vesic. grading to brn, dense.	
120-140								120-	Porphyritic, vitric, perlitic & vesicular Td. Few Td chips in 120' sample.	
140-200										

DRILL HOLE B-51-79 Beawawe
 LOCATION Sec 19, T31N, R48E, below rim

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GRAPHIC LOGS

B 54



DRILL HOLE Beowawe B-54 79
 LOCATION SW 1/4 Sec 24. Graham to S.W.

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GRAPHIC LOGS										DESCRIPTIONS
DEPTH	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS	
	1. WEAK	2. MOD.	3. STRONG	1. WEAK	2. MOD.	3. STRONG				
10								0-500	Alluvium, gravel peb. of botryoidal qtz. Rubbles of vol. rock, rnd.	
20										
50										
100										
200									Some tuffac. sand to ss with peb.s frag. of botryoidal qtz	
									(no silicification)	
500										

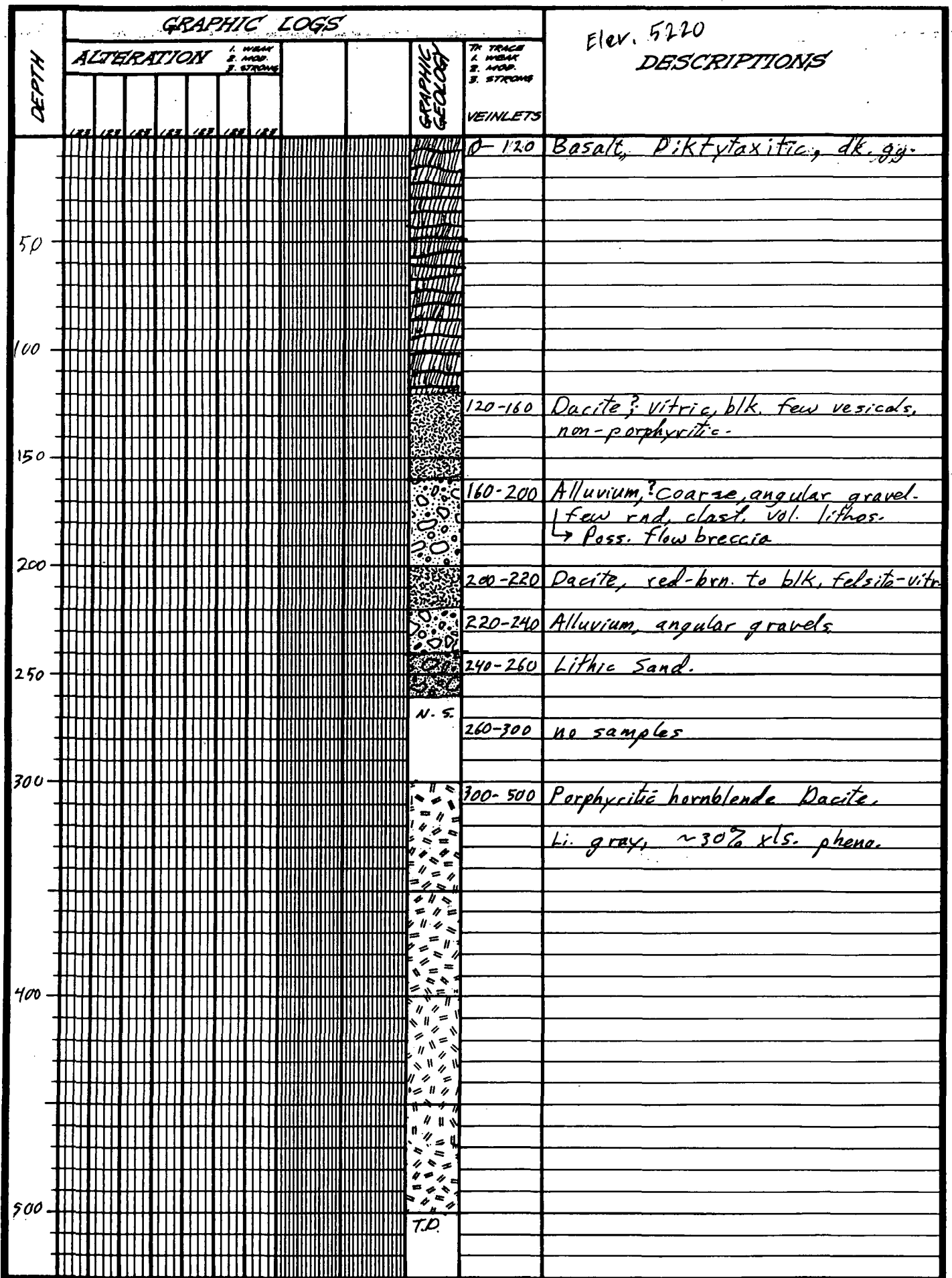
DRILL HOLE: Beowawe B-7-79
 LOCATION out in the valley, NE 1/4 Sec 7.

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GRAPHIC LOGS										5220 elev.
DEPTH	ALTERATION						GRAPHIC GEOLOGY	VEINLETS		DESCRIPTIONS
	1. WEAK	2. MOD.	3. STRONG	4. WEAK	5. MOD.	6. STRONG		7. TRACE	8. WEAK	
										20' sample interval
									0-10?	Basalt? thickness uncertain due to sample spacing
									10-40	Tuffaceous sed, white - Two?
50									40-60	Dacite, ? dk. gray, peppery, felsite - vitric, vesicular
									60-100	Alluvium, non-rad, gravel, mix, mod.
100									100-150	Dacite, felsite to vitric dk: gy, non-perphyritic, Tf?
150									150-220	Alluvium, gravel to sand.
200										below 200' tuffac. sed.
250									220-480 TD	Porphyritic hornblende Dacite? li. gy - pk to m. gy -
300										Hornb. alt. & horn. stain, 2 mm pheno, of plag. & hornb. ~30% pheno-
400										
480									TD.	

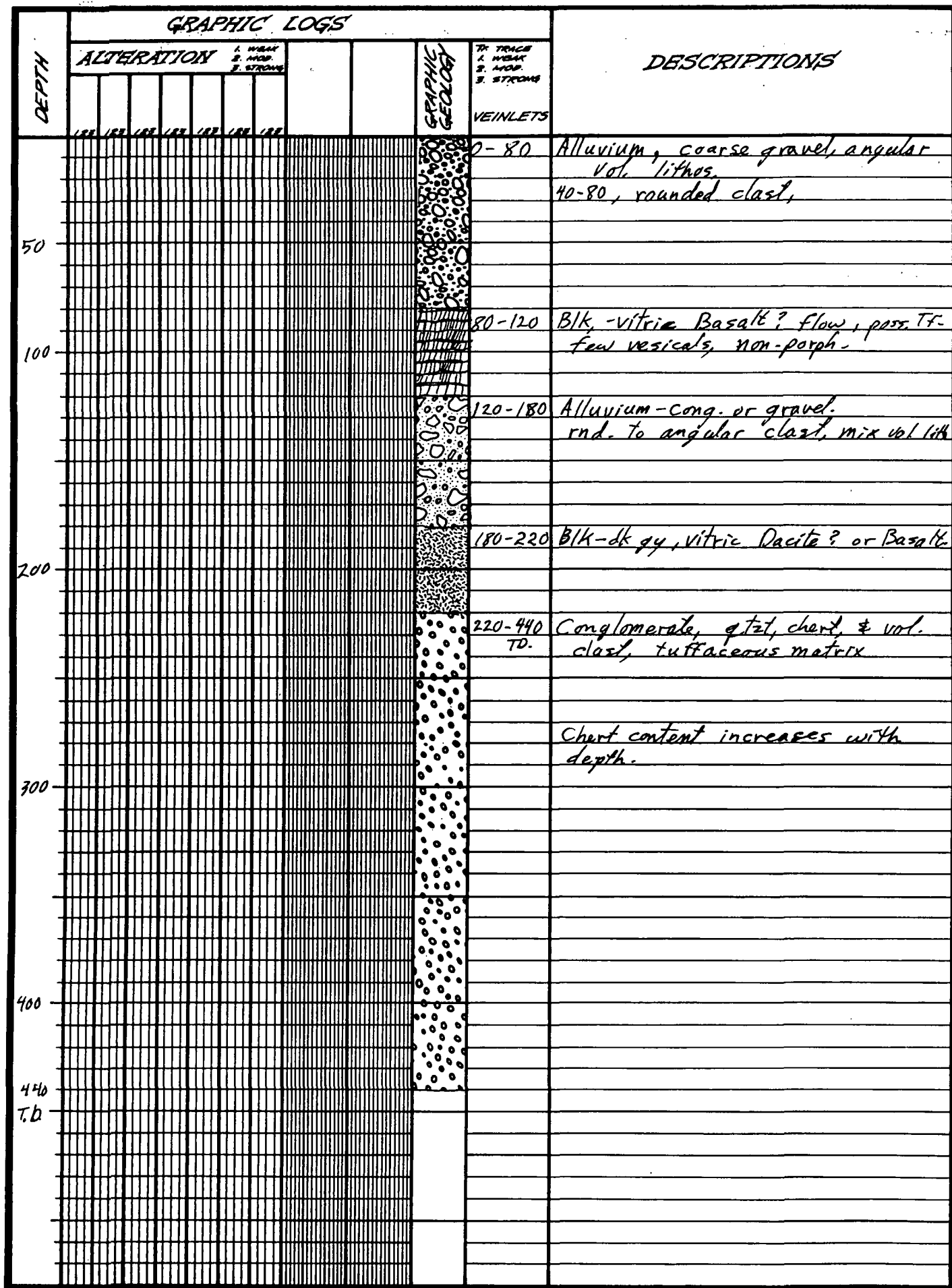
DRILL HOLE: GBP-9 Forest-graben trans.
 LOCATION: Beowawe

LOGGED BY: Sibbett



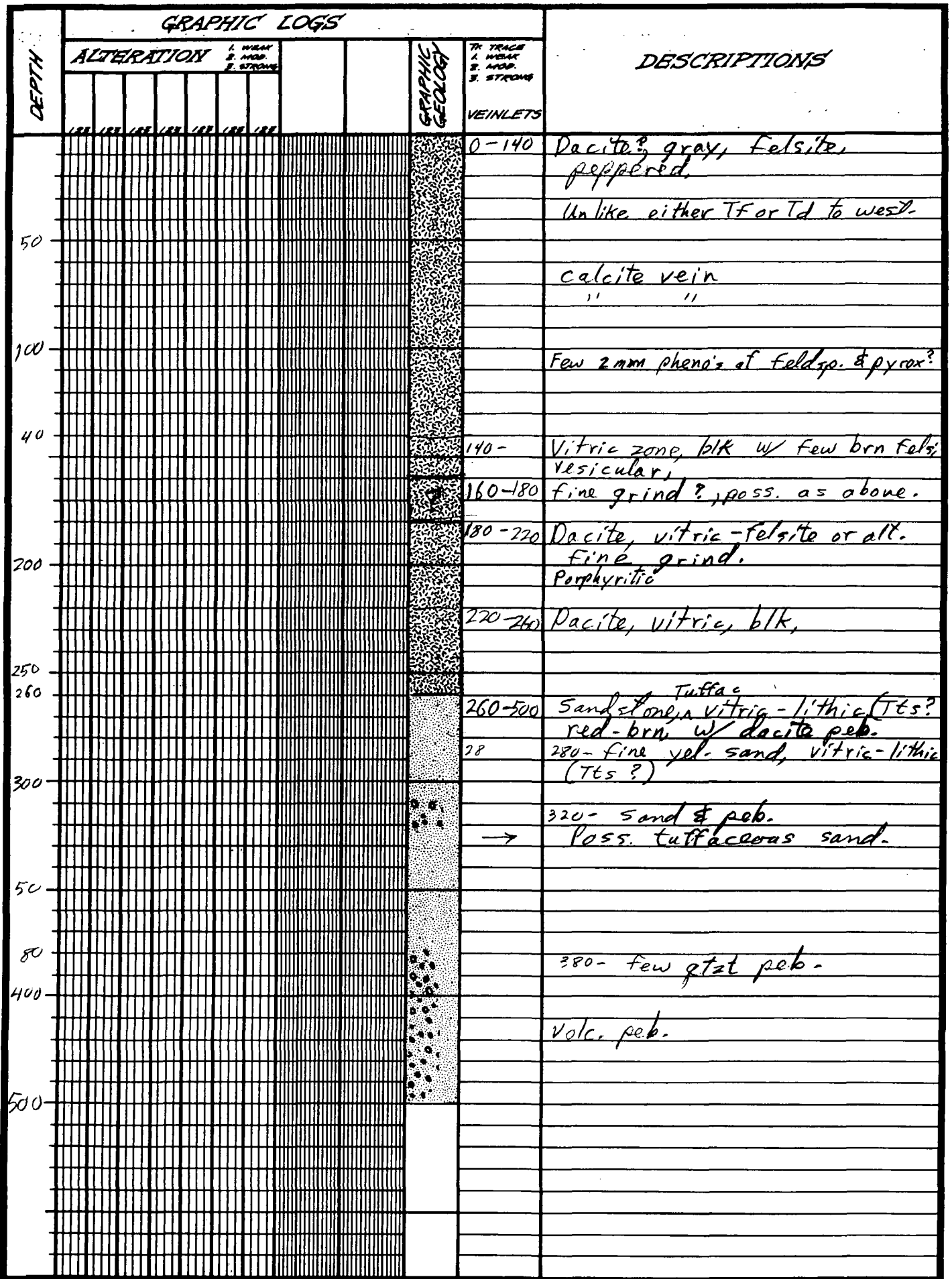
DRILL HOLE GBP-10
 LOCATION Beowawe - Horst edge.

LOGGED BY Sibbett



DRILL HOLE GBP-12
 LOCATION Beowawe Horst, N.E

LOGGED BY Sibbett



DRILL HOLE GBP-13
 LOCATION Beawawe - horst NW

LOGGED BY Sibbett

GRAPHIC LOGS

GB 14

DEPTH	ALTERATION							GRAPHIC GEOLOGY	TF TRACE 1. WEAK 2. MOD 3. STRONG	VEINLETS	DESCRIPTIONS
	1	2	3	4	5	6	7				
0								?	0-20	Scoria, red, or pumice Vitric	
50									20-280	Dacite? gray, felsite, pepper Same unit as top of GB-13, unlike TF or Td to the west.	
100											
200											
280								?	280-300	fine grind, red. sand?	
300											
TD											

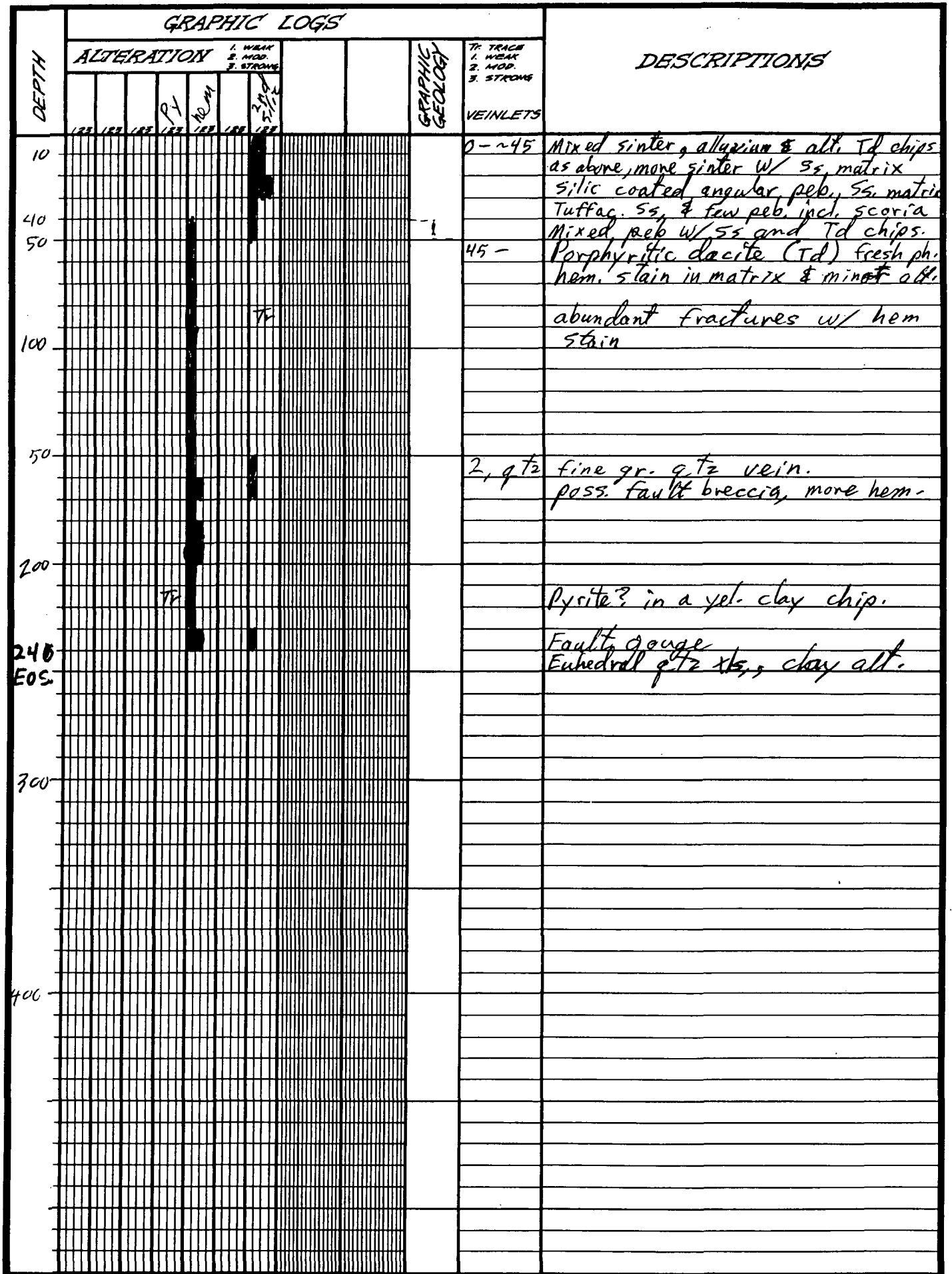
DRILL HOLE GBP-14
 LOCATION Beowawe, Horst - NW

LOGGED BY _____

GRAPHIC LOGS										DESCRIPTORS	
DEPTH Feet	ALTERATION						GRAPHIC GEOLOGY	TR. TRACE 1. WEAK 2. MOD. 3. STRONG	VEINLETS		10' sample Interval
	Chlor	Calc	ep.	py	hem	and chlor					
10										0-60'	no samples.
20											
50											
60										60-	? rock type, strong alt. to kaolin qtz, chalcedony to opal? breccia
90											Opal like or Chalcedony, breccia
100											100% qtz hemi chlor silic veins cutting chlor.
50											mostly silic, w/ ~ 1/4 wh. clay class
200											No original rock.
											silic-hem-breccia cont.
300											
350											silic-hem-breccia & vein cont.
											Poss. silic- & alt porphyritic, aphanitic but uncertain-
400											White spotted hemi red rock, poss. Few pheno cryst. alt, 2/3 wh. qtz vein, 1/3 as above
											li gray sects in a gy-brn to red matrix
500											as above
											as above.
										590-600	as above.

DRILL HOLE Beowawe 33-17
 LOCATION _____

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DRILL HOLE Beowawe B-27 79
 LOCATION Sec 18, at 85-18 ~~site~~ site

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