PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YWS1

PROJECT: YOLANDE: WHITE SPUR

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	3.00	GLACIAL DEPOSITS Pink, Grey, Coarse grained, Massive, Polymict, Owen Conglomerate? quartzitic sandstone. CONTACT: Missing,			0			
3.00	30.20	SANDSTONE Pale, Grey, Medium grained, Coarse grained, Bedded, Lithic, Micaceous, Gradual upwards (uphole) fining bed with minor bedding in part. CONTACT: Conformable abrupt, at 65 degrees to LCA. Clasts of unconsolidated black shale at contact indicate younging uphole.	Slightly Silicified.		10			BEDDING. R 40.
		5 cm			20			JOINT. Zone of oxidised joints
								FAULT. Pro

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								joints FAULT, Pug.
30.20	34.00	BLACK SHALE INTERBEDDED WITH SANDSTONE Black, Fine grained, Laminated, Lithic, Finely laminated in part and disrupted with minor 2 to 5mm polymict? clasts in part. CONTACT: Conformable abrupt, at 50 degrees to LCA.		DISSEMINATED, very minor pyrite disseminated.	30			
34.00	36.00	SANDSTONE Buff, Medium grained, Massive, Lithic, Micaceous, Minor irregular spotty sericite texture. CONTACT: Conformable abrupt,						BEDDING, A 45.
36.00	43.00	BRECCIA Pale, Grey, Very coarse grained, Brecciated, Lithic, Grading uphole from 15 to 5mm angular clasts with minor clasts upto 100mm throughout. Clast types include black slate, siliceous siltstone and quartz porphyry, and massive pyrite. Several 50mm sericitized, altered feldspar phyric clasts resembling Footwall pseudo-fiamme occur at the base. CONTACT: Conformable mixed,	Slightly Silicified.	CLAST, pyrite 20mm massive pyrite clast..	40			
43.00	44.40	BLACK SHALE Black, Fine grained, Peperitic, Minor sandstone bands, and abundant 10mm siliceous clasts, minor 10mm elongate very fine grained pyrite spots, and minor weathering pits. CONTACT: Conformable mixed,						
44.40	46.20	BRECCIA Grey, Very coarse grained, Poorly sorted, Lithic, Polymict, Similar to above ploymict breccia. CONTACT: Conformable mixed,						
46.20	48.30	SANDSTONE Yellow, Grey, Medium grained, Massive, Feldspar phyric, Micaceous, Quartz phyric, Fine grained quartz matrix with abundant .5mm feldspars and silicified feldspars. Rock is stained, possibly minor Fe or Mn content. CONTACT: Conformable mixed,						
48.30	56.00	BRECCIA Grey, Very coarse grained, Matrix supported, Lithic, Clasts are dominantly white siliceous fine grained porphyry with abundant 0.5mm phyric quartz. Other clast types include black slate, minor sericite with phyric feldspars and trace pyrite. CONTACT: Conformable abrupt, at 35 degrees to LCA.	Slightly Silicified.	CLAST, pyrite 10mm massive pyrite clast..	50			
56.00	61.90	SANDSTONE INTERBEDDED WITH BLACK SHALE Pale, Grey, Medium	Slightly Silicified.					

5 cm

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56.00	61.90	SANDSTONE INTERBEDDED WITH BLACK SHALE Pale, Grey, Medium grained, Massive, Sandstone is massive siliceous in past resembling volcanic?, and micaceous and bedded in part? CONTACT: Missing, Corresponds with 100% water loss.	Slightly Silicified.					
61.90	65.00	BLACK SHALE CONTAINING CLASTS OF UNASSIGNED Black, Fine grained, Peperitic, Abundant spattering of 0.5 to 3mm siliceous, and siderite? altered clasts throughout. Disrupted banding. CONTACT: Conformable abrupt,			60			BEDDING, A 61,
65.00	71.10	BLACK SHALE Black, Fine grained, Massive, Minor fine grained irregular pyrite with white carbonate veining. CONTACT: Conformable abrupt, at 20 degrees to LCA.		STRINGER, pyrite on selvedges, as stringers, very minor disseminated.	70			BEDDING, A 40,
71.10	73.30	BLACK SHALE CONTAINING CLASTS OF UNASSIGNED Black, Fine grained, Peperitic, Abundant 5mm spattered? siliceous clasts. CONTACT: Conformable mixed,						
73.30	86.70	BRECCIA Pale, Grey, Very coarse grained, Clast supported. Clasts (5 to 10mm) dominantly fine grained white siliceous, with minor black shale, and trace sericite/feldspar type. Minor band of massive fine grained siliceous rock at base of interval. CONTACT: Conformable abrupt,	Slightly Silicified.		80			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
86.70	89.70	BLACK SHALE Black, Grey, Fine grained, Brecciated, Zone of disrupted and faulted shales. CONTACT: Conformable abrupt,						FAULT, Breccia, Pug.
89.70	95.40	SANDSTONE Buff, Very coarse grained, Brecciated, Irregular zone of sandstone and sedimentary breccia with mineralised quartz veins. CONTACT: Conformable mixed,	Slightly Sericitised, Slightly Silicified.	VEIN, trace galena in veins, trace sphalerite in veins, Coarse grained galena and sphalerite in massive white quartz vein..	90			VEIN, Zone of minor mineralised white quartz veining.
95.40	108.80	BRECCIA Grey, Very coarse grained, Clast supported, Massive, Polymict, Clast type and abundance similar to above breccias. CONTACT: Conformable abrupt, at 45 degrees to LCA.	Slightly Silicified,		100			
108.80	114.00	BLACK SHALE Black, Fine grained, Massive, Massive in part, and with 1 to 3mm carbonate and siliceous patches and clasts in part. Abundant pyrite/carbonate patches and veinlets. CONTACT: Conformable abrupt, at 50 degrees to LCA.	Slightly Carbonatised,	DISSEMINATED, very minor pyrite massive, Two generations of pyrite, very fine grained massive elongate spots (2x8mm), and coarse grained associated with sacharoidal carbonate patches..	110			BEDDING, A 40.

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		CONTACT: Conformable abrupt, at 50 degrees to LCA.		sacharoidal carbonate patches..				
114.00	128.20	BRECCIA Buff, Grey, Very coarse grained, Matrix supported, Poorly sorted, Lithic, Similar to above breccias but siliceous clasts more resemble siltstones. CONTACT: Conformable abrupt, at 35 degrees to LCA.	Slightly Silicified.		120			
128.20	133.90	SILTSTONE INTERBEDDED WITH SANDSTONE Buff, Grey, Fine grained, Massive. Zone of banded massive siliceous siltstone, fine grained sandstone, and laminated cherty siltstones. CONTACT: Gradational,	Slightly Silicified.		130			BEDDING, A 45.
		BLACK SHALE CONTAINING CLASTS OF SILTSTONE Black, Fine grained, Peperitic, Black shales with spattered? fine siltstone and coarse porphyry clasts. CONTACT: Conformable abrupt,						BEDDING, D 73, Grading uphole.
133.90	137.10	BRECCIA Buff, Coarse grained, Poorly sorted, Lithic, CONTACT: Conformable abrupt,						FIRST CLEAVAGE, D 85,
		BLACK SHALE Black, Fine grained, Zone of disrupted and veined blackshales. CONTACT: Gradational,						BEDDING, D 78,
137.10	137.70		Slightly Silicified.	DISSEMINATED, minor pyrite in veinlets. Abundant fine veinlets, fractures and fine wisps and spots elongate in cleavage..				
137.70	139.20	BLACK SHALE Black, Fine grained, Massive, CONTACT: Gradational, at 45 degrees to						
139.20	144.60				140			BROKEN CORE, Carbonate, Minor broken zone with abundant fine carbonate

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
139.20	144.60	SILTSTONE INTERBEDDED WITH SANDSTONE Buff, Grey, Fine grained, Medium grained, Bedded, Zone of laminated cherty siltstone and massive fine grained sandstone. CONTACT: Conformable abrupt,		cleavage..	140			Minor broken zone with abundant fine carbonate veinlets.
144.60	146.60	BRECCIA Buff, Grey, Coarse grained, Poorly sorted, Cleaved, Lithic, Irregular breccia with clasts elongate in cleavage. CONTACT: Conformable mixed,	Slightly Silicified.					BEDDING, D 88.
146.60	147.50	SHALE Grey, Fine grained, Laminated, CONTACT: Conformable abrupt,						VEIN, Carbonate, Pyrite. Trace pyrite within several 2 to 10cm white quartz with lesser carbonate veins.
147.50	149.80	BLACK SHALE CONTAINING CLASTS OF SILTSTONE Black, Fine grained, Zone of massive black shales, and black shale mixed with 5mm siliceous clasts, irregular 30mm elongate patches of granular carbonate with intergranular pyrite, and minor 100mm carbonate sandstone clasts. CONTACT: Conformable abrupt,		CLAST. minor pyrite associated with alteration, carbonate Irregular Mn carbonate clast like patches containing disseminated to semi massive pyrite. Also abundant altered siliceous clasts in shale matrix..	150			
149.80	152.50	BRECCIA Pale, Grey, Very coarse grained, Matrix supported, Poorly sorted, Lithic, Zone of irregular 20mm white siliceous siltstone,porphyry, quartz and sericitised clasts. CONTACT: Conformable abrupt,	Slightly Carbonatised.					
152.50	153.20		Slightly Silicified.	CLAST. very minor pyrite associated with alteration, Intriguing siliceous altered clasts with minor disseminated pyrite..				
153.20	154.10							
154.10	156.00	SANDSTONE Grey, Coarse grained, Fine grained, Massive, Zone of irregular massive feldspar phyric sandstone, grading to fine grained laminated sandstone. CONTACT: Conformable abrupt,						
156.00	158.20	SHALE MIXED WITH INTERBEDDED WITH SANDSTONE Black, Grey, Fine grained, Coarse grained, Bedded, CONTACT: Gradational,		DISSEMINATED, very minor pyrite disseminated, Minor ubiquitous pyrite in bands parallel to bedding usually associated with carbonate, often remobilised int veinlets, fractures or spots..				
158.20	163.80	BLACK SHALE MIXED WITH CONTAINING CLASTS OF SILTSTONE Black, Fine grained, Laminated, Zone of shales with minor siliceous, sericite/feldspar-phyric and carbonate/pyrite clasts. CONTACT: Gradational,			160			BEDDING, D 90.
163.20	166.90	BLACK SHALE WITH MINOR SANDSTONE Black, Fine grained, Massive, Laminated, Massive to laminated black shales with minor sandstone beds, and minor bands of irregular feldspar phyric patches. CONTACT: Conformable abrupt, at 55 degrees to LCA.						
166.90	225.40	SILTSTONE INTERBEDDED WITH SHALE Grey, Black, Fine grained, Bedded, Zone of interbedded 2 to 20cm beds of black shale, siltstone and carbonate sandstone. CONTACT: Conformable abrupt, at 55 degrees to LCA.						BEDDING, D 78.

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		black shale, siltstone and carbonate sandstone. CONTACT: Conformable abrupt, at 55 degrees to LCA.						
		BLACK SHALE Black, Grey, Fine grained, Laminated, Massive, CONTACT: Gradational,			170			
				DISSEMINATED, very minor pyrite disseminated. Ubiquitous, in bedding parallel bands associated with carbonate, or in veinlets or carbonate spots..	180			BEDDING, @ 60.
					190			BROKEN CORE, Pug, Folded, Minor pug bands, abundant tight folding, slickenlines, and carbonate veinlets.

5 cm

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HOLE No. YWS1

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					200			FAULT. Pug, Carbonate, Several pug bands with carbonate infilling.
					210			FIRST CLEAVAGE, D 6, Assume cleavage // bedding.
					220			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
225.40	259.30	SANDSTONE GRADING TO SHALE Grey, Medium grained, Fine grained, Upwards fining sequence, Calcarious, Grossely one upwards (uphole) fining bed of banded carbonate and non carbonate rich sandstone to siltstone. Folded at 258m CONTRCT: Conformable abrupt, at 70 degrees to LCA.			230 240 250			BEDDING, D 60, FIRST CLEAVAGE, D 43, BEDDING, D 82, BEDDING, D 90, C FIRST CLEAVAGE, D 70,

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
								BEDDING, D 90,
								BEDDING, D 80, Folded,
								FIRST CLEAVAGE, D 80, Axis, Folded,
259.30	263.90	BLACK SHALE Black, Fine grained, Massive, Massive black slate (with massive white quartz veining), within carbonate sandstone sequence. CONTACT: Conformable abrupt, at 85 degrees to 157.		VEIN, very minor pyrite in veins, trace galena in veins, trace chalcopyrite in veins. Trace cg galena in massive white quartz with lesser carbonate veining..	260			BEDDING, D 90, Axis,
								VEIN, D 40, Carbonate.
263.90	269.40	SANDSTONE INTERBEDDED WITH BLACK SHALE Pale, Grey, Coarse grained, Massive, Bedded, Lithic, Calcarious, CONTACT: Conformable abrupt, at 85 degrees to 157.		DISSEMINATED, minor pyrite disseminated, very minor pyrrhotite disseminated. Ubiquitous pyrite , pyrrhotite in bedding planes with carbonate becoming transfixed into cleavage..				BEDDING, D 80,
								BEDDING, D 85,
269.40	273.70	BLACK SHALE Black, Fine grained, Massive, Minor beds of Sandstone display parasitic "S" type folding, bedding cleavage relationships, (ie., east limb of anticline of west limb of syncline; neither of which is expected?). CONTACT: Conformable abrupt,			270			FIRST CLEAVAGE, D 55,
								FOLD, Z type parasitic fold
273.70	283.50	SANDSTONE INTERBEDDED WITH BLACK SHALE Pale, Grey, Coarse grained, Abundant folded shale beds. CONTACT: Conformable abrupt,						
		5 cm			280			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					280			
283.50	293.00	BLACK SHALE WITH MINOR SANDSTONE Black, Fine grained, Bedded, Massive black slates with minor carbonate sandstone bands. Foldind still very evident. CONTACT: Conformable abrupt,						FOLD, Z type parasitic fold
					290			
293.00	356.70	BLACK SHALE Black, Fine grained, Laminated, Massive black slate with minor carbonate/pyrite or carbonate/pyrrhotite laminae (with variable to perpendicular cleavage/bedding angles), becoming white carbonate po/py spots and patches down-hole. Note location of massive po spots alligned in cleavage in axial positions... CONTACT: Gradational,		DISSEMINATED, minor pyrite disseminated, very minor pyrrhotite disseminated, As vfg layers in laminated black shale..				BEDDING, D 40, FIRST CLEAVAGE, D 85,
					300			
								BEDDING, D 20, FIRST CLEAVAGE, D 80,

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				VEIN, abundant pyrrhotite disseminated, minor pyrite disseminated. Abundant pyrite/pyrrhotite remobilised into elongate carbonate spots or patches or bands , may be massive. Also vfg bedding	310 320 330			BEDDING, D 15. FIRST CLEAVAGE, D 85.

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				elongate carbonate spots or patches or bands . may be massive. Also vfg bedding parralel bands and as fine fracture fill..	340			VEIN. D 45, Carbonate. Carbonate pyrrhotite vein set.
					350			
356.70	364.60	SANDSTONE Grey, Coarse grained, Massive, Calcarious, Minor very fine grained pale grey siliceous patches towards contact? CONTACT: Faulted, at 85 degrees to LCA. Silica heale			360			BEDDING. D 50. Cleavage/bedding at high angle.
		FAULT ZONE (PUG) Brecciated white quartz and yellow						

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
364.60	372.40	FAULT ZONE (PUG) Brecciated white quartz and yellow carbonate with minor cholrite infilling and trace galena. DACITE MIXED WITH SILTSTONE Grey, Peperitic, Masive dacite? at 372.4m becoming increasingly fragmented towards 364.7m. Irregular textures towards 364.7m possibly peperitic dacite mixed with interbedded sandstone/siltstone. Also trace clasts of consolidated cherty sediment. CONTACT: Gradational,			370			FAULT. D 70. Breccia,
372.40	401.30	DACITE Grey, Massive, Porphyritic, Feldspar phyric, Massive dark grew dacite with abundant 1 to 3mm white feldspars. Silicified towards each contact with associated chloritisation of feldspats. Minor phyric quartz? CONTACT: Conformable mixed,	Slightly Silicified. Slightly Chloritised.	VEIN, trace pyrite in veinlets, trace sphalerite in veinlets, In irregular fine carbonate veinlets..	380 390			FIRST CLEAVAGE. D 80.

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				MASSIVE, pyrrhotite massive, trace in veins.				
		SANDSTONE Grey, Fine grained, Massive, Unusual occurance in that there is no mixing between the fine grained sediment and the surrounding rock. There is an indistinct banding at 80 deg to LCA. Trace fine wispy shale or chlorite specks. CONTACT: Conformable abrupt, Very sharp, no mixing.		DISSEMINATED, trace pyrite disseminated. trace sphalerite in veinlets. Trace fine grained pyrite in seds below contact. and trace fine sphalerite disseminated or in fine irregular carbonate veinlets..	400			
401.30	402.90		Slightly Silicified.					BEDDING, 0 55,
402.90	406.20	PUMICEOUS MASS FLOW WITH MINOR SILTSTONE Grey, Black, Coarse grained, Peperitic, Porphyritic, Pumiceous, Feldspar phyric, Patchy grey black feldspar phyric pumiceous volcaniclastic with minor irregular cherty siltstone patches, possible mixing of pumiceous flow and unconsolidated ash or silt. CONTACT: Gradational,	Slightly Silicified.					
				DISSEMINATED, trace pyrite disseminated.				
406.20	414.80	PUMICEOUS MASS FLOW Grey, Black, Coarse grained, Porphyritic, Pumiceous, Feldspar phyric, Indistinct banding on a 10 to 20cm scale, with pale siliceous bands, and dark bands. Abundant 1 to 4mm white feldspars throughout, pumice becoming more prominant uphole. CONTACT: Gradational,	Slightly Silicified.	DISSEMINATED, trace sphalerite disseminated. Trace fine grained disseminated sphalerite in fine irregular fractures..	410			
		PUMICEOUS MASS FLOW Grey, Coarse grained, Lithic, Similar rock to above but containing minor 1 to 4cm fine grained sediment clasts. CONTACT: Conformable abrupt,						
414.80	415.70	PUMICEOUS MASS FLOW Grey, Feldspar phyric, Pumiceous, Similar to above rock but finer grained, and feldspars becoming sparse, appears to fine down-hole. CONTACT: Gradational,	Slightly Silicified.					
415.70	418.20		Slightly Silicified.					
418.20	419.80	SANDSTONE Grey, Medium grained, Massive, Appears to be a finer grained, feldspar poor equivalent of surrounding rock, grading both up and down hole. CONTACT: Gradational,			420			
419.80	421.50		Slightly Silicified.					

5 cm

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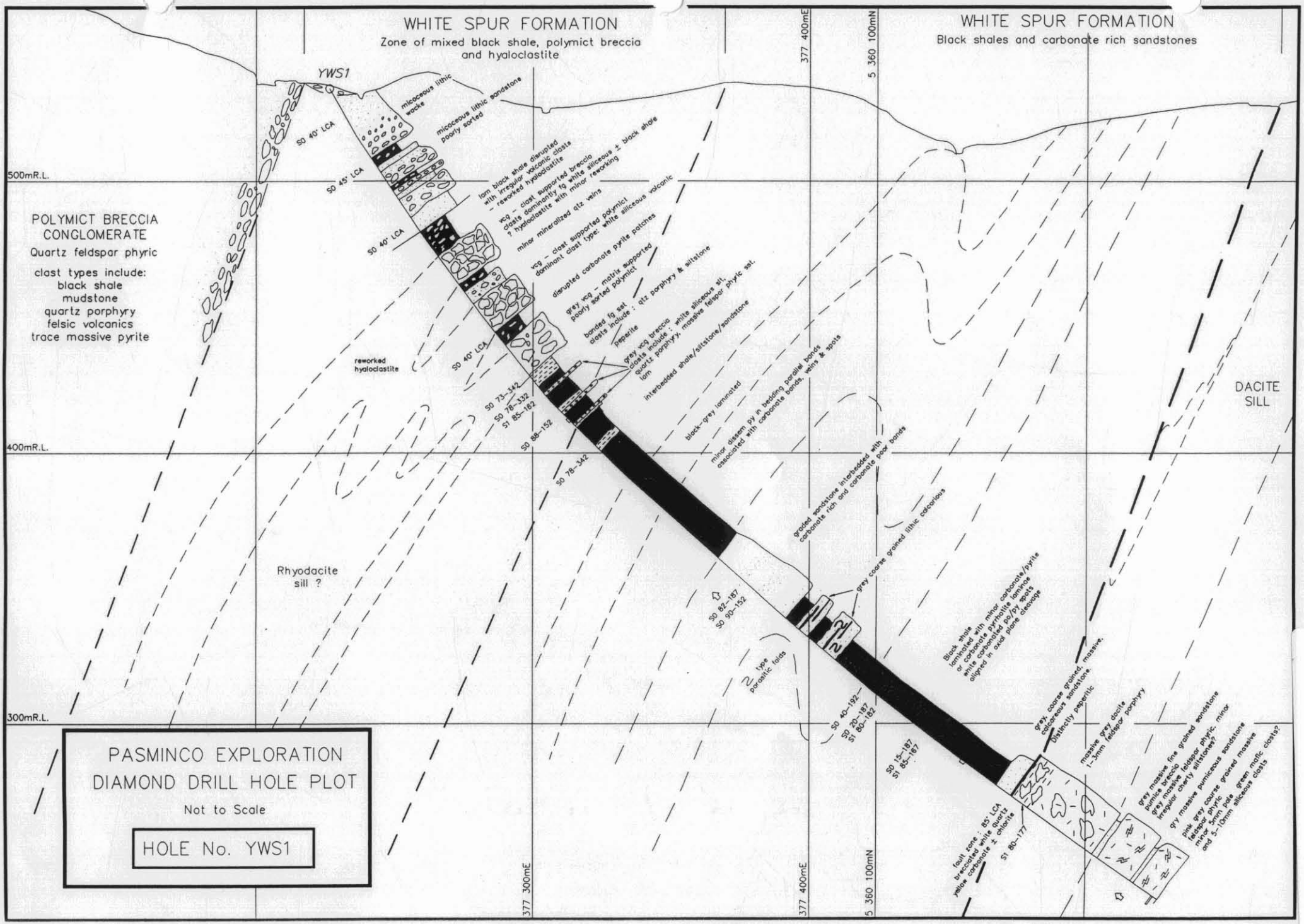
DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		rock, grading both up and down hole.			420			
419.80	421.50	CONTACT: Gradational, PUMICEOUS MASS FLOW Grey, Porphyritic, Feldspar phyric, Pumiceous, Appears to be a transition zone between underlying feldspar phyric pumice breccia and overlying volcaniclastic sandstone.	Slightly Silicified,					FIRST CLEAVAGE, D 55.
421.50	430.50	CONTACT: Gradational, PUMICEOUS MASS FLOW Pink, Grey, Coarse grained, Porphyritic, Massive, Feldspar phyric, Pumiceous, Patchy pink - dark green matrix with abundant white (pink rimmed in part) 1 to 4mm feldspars. Minor 5mm pale green clasts, mafic?, and minor 5 to 10mm siliceous clasts.	Slightly Silicified,		430			
					440			

5 cm


WHITE SPUR FORMATION
Zone of mixed black shale, polymict breccia and hyaloclastite
WHITE SPUR FORMATION
Black shales and carbonate rich sandstones
377 400mE
5 360 100mN
YWS1
micaceous lithic wacke
micaceous lithic sandstone poorly sorted
S0 40° LCA
S0 45° LCA
500mR.L.
lam black shale disrupted with irregular volcanic clasts - reworked hyaloclastite
vcg - clast supported breccia clasts dominantly fg white siliceous ± black shale ? hyaloclastite with minor reworking
minor mineralized qtz veins
vcg - clast supported polymict dominant clast type: white siliceous volcanic
disrupted carbonate pyrite patches
vcg - matrix supported poorly sorted polymict
banded fg sst clasts include : qtz porphyry & siltstone
pepsrite
grey vcg breccia clasts include : white siliceous st. quartz porphyry, massive felspar phyric sst. lam
interbedded shale/siltstone/sandstone
black-grey laminated
minor disseminated py in bedding parallel bands associated with carbonate bands, veins & spots
POLYMICT BRECCIA CONGLOMERATE
Quartz feldspar phyric
clast types include:
black shale
mudstone
quartz porphyry
felsic volcanics
trace massive pyrite
reworked hyaloclastite
S0 40° LCA
S0 73-342
S1 78-332
S1 85-182
S0 88-152
S0 78-342
400mR.L.
DACITE SILL
graded sandstone interbedded with carbonate rich and carbonate poor bands
grey coarse grained lithic calcarious
Rhyodacite sill ?
S0 82-187
S0 90-152
type parasitic folds
Black shale with minor carbonate/pyrite laminated with carbonate pyrhotite laminae or carbonated py/po spots white carbonated py/po spots aligned in axial plane cleavage
grey coarse grained, massive, calcareous sandstone. Distinctly peperitic
massive grey dacite 1-3mm feldspar porphyry
grey massive fine grained sandstone
pumice breccia
grey massive feldspar phyric, minor irregular charty siltstones?
g'y massive pumiceous sandstone
pink grey course grained massive feldspar phyric sandstone minor 5mm pale green mafic clasts? and 5-10mm siliceous clasts
S0 40-192
S0 20-187
S1 80-182
S0 15-187
S1 85-187
fault zone : 85° LCA brecciated white quartz yellow carbonate ± chlorite
S1 80-177
300mR.L.
377 300mE
377 400mE
5 360 100mN
PASMINCO EXPLORATION
DIAMOND DRILL HOLE PLOT
Not to Scale
HOLE No. YWS1
5 cm