PANCONTINENTAL PETROLEUM LIMITED

PANCON

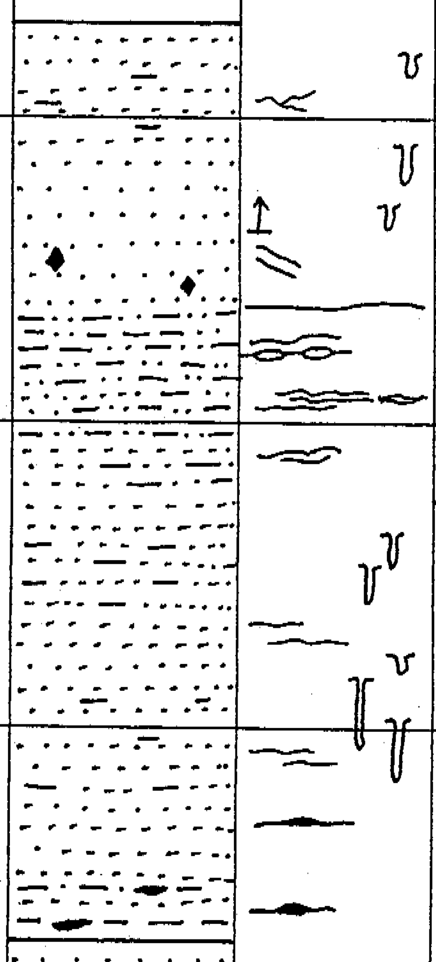
CORE DESCRIPTION FORM

Basin AMADEUS	Well MT WINTER 2A	Location -
Core N°. 15	Date 15/8/86	Depth 169·7 - 172·7 M
m Cut 3	m Recovery 3·08	m % 102·6
Bit Type / Size TRIEFUS / NQ	Formation L. STAIRWAY	Described by M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
			INTERTIDAL / NEARSHORE	USUALLY GOOD - SHARP	INTERBEDDED SANDSTONE WITH SILTSTONE & MINOR SHALY LAM.	LIGHT GREY	F-MED. LOC V FINE (TOWARDS BASE)	GOOD	SILICEOUS	TRACE - BURROWS	POOR TO FAIR	NIL	

METRES: 169, 170, 171, 172, 173

Lithology scale: 100 50 0



COMMENTS:

SST - LT GREY, F-MED MOD WELL SRTD, SIL CMT W/ KAOLINITIC MTX W/ DEPTH. SILTY/CARBONACEOUS MATERIAL IN FRACTURES - SHALY LAMINAE Minor GRADED BEDDING.

SILTSTONE - MED GRY, MICAC, WITH BIOTITE, INTERBEDDED W/ SHALE & THIN SHALY LAMINAE. - GRADING INTO VF SSTS - LT GRY, SILICEOUS

SST - WH - LT GRY - F-M GND - MOD WELL SORTED WITH SHALY LAMINAE CONTORTED AND IN PART HEAVILY BIOTURBATED.

HIGHLY CONTORTED - BIOTURBATED, SETTLING/ DEWATERING FABRIC.

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT WINTER 2A | Location: –

Core N°: 16 | Date: 15/8/86 | Depth: 172·7 – 175·7 M

m Cut: 3 | m Recovery: 3 | m %: 100

Bit Type / Size: TRIEFUS / NQ | Formation: L. STAIRWAY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
172													
		FLAME								SINGLE BURROWS			INTERLAMINATED SST & SLTSTN, SST – LT GRY, VF – F GRD, WELL SORTED, W/ CARB MAT.
173		STR. CSE SS											SLTSTN, DK GREY, MICAC, ARGN TO ARGILL – – FINE INTERLAM. / CONTORTE.
METRES			SHALLOW MARINE / INTERTIDAL / NEARSHORE	SHARP	SANDSTONE.	LT GREY	FINE GRAINED		– TR CLAY MTX	– NO			MEAVILY BIOTURBATED.
174													FINE SST & ARGN SLTSTN INTERLAM – HIGHLY CONTORTED
				GOOD AND	SILTSTONE /	DARK GRY / BLACK	VF – MED, GEN	MOD. WELL SORTED,	SILICEOUS	TRACE – HIGHLY BIOTURBATED	POOR – NIL	NIL	
175					SHALE /								COARSE SST W/ PYRITE.
													BECOMING SHALY IN PT, DK GREY, CARB, OCC SHINY SLICK SURFACES.
													SHALE, DK GRY / BLK, HARD, ARGILL, W/ DISSEM PYR. MINOR SST, – LOC SLIGHT TRACE CALCITE ON BEDDING PLANES
176													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT WINTER 2A | Location: -

Core N°: 17 | Date: 15/8/86 | Depth: 175.7 - 178.7 M

m Cut: 3 | m Recovery: 2.97 | m %: 99

Bit Type / Size: TRIEFUS / NQ | Formation: L. STAIRWAY | Described by: M.O. BERRY

DRILLING RATE (100 – 50 – 0)	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
175													
176	SEALED	CONTORTED	SHALLOW MARINE TO INTERTIDAL	DIFFUSE / ABUNG SHARP BET.	SANDSTONE, SILTSTONE, & MINOR SHALY LAMINAE	LT GREY	PRED VF GND, ALSO F – MED. IN PART	V. GOOD	SILICEOUS	BIOTURBATION BUT NO BURROW PRESERVED	TRACE – GEN POOR	●	SST/SLTSTN – FINELY INTER-LAM., PATCHY DULL (OCC BRIGHT) YELL FLOOR, APPEARS AS DULL BROWN OIL STAIN IN VF GND SST. ALSO ALONG CONTACTS, BEDDING, & FRACTURES. GEN INSTANT WHITE CUT. NO COLOUR CHANGE OR RESIDUAL RING IN WHITE LIGHT – RESIDUAL YELLOW RING IN UV LIGHT.
METRES		HIGHLY DISTURBED NO TRUE BURROWS											SST – VF GND, OCC F, WELL SORTED, SIL, QTZOSE, SIL CMT, PR Ø.
177													
178											NIL – POOR	WHITE CUT, NO RESIDUE, ●	SST BANDS – REL UNDISTURBED W/ HIGHLY DIST. HORIZONS INBETWEEN. MASSIVE SST (VF GND) AT BASE.
	SEALED	NO RECOVERY										● PATCHY YELL FLOOR, GEN INST	PRED SST, MINOR SLTSTN & SHALY LENSES. SEVERAL LARGE OIL STAINED PATCHES TOWARDS BASE, IN VF GND SS (A/A) – SHOW A/A – ALSO W/ PETROLIFEROUS ODOUR.
179													

PANCON

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 18 Date: 15/8/86 Depth: 178·7 – 179·4 M

m Cut: 0·7 m Recovery: 0·62 m %: 88·5

Bit Type / Size: TRIEFUS/NQ Formation: L. STAIRWAY Described by: M. D. BERRY

DRILLING RATE (100 – 50 – 0)	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
178													
			BEACH/INTERTIDAL	NIL	SANDSTONE	LT. GREY	VF GRAINED	WELL SORTED	SILICEOUS	NIL	V. POOR TO POOR	NIL.	SST – WH – V LT GRY – VF – F GND, PRED VF, WELL SRTD, SIL CMT, QTZOSE, CLEAN NO APPARENT OIL STAIN. – SHALY LENSES. V MINOR SILTY HORIZONS.
179													
		NO RECOVERY											
METRES													
180													

PANCON

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: Amadeus Well: Mt Winter 2a Location: S E

Core N°: 1 Date: 4.12.85 Depth: 99.5 - 99.9m

m Cut: 0.4m m Recovery: 0.2m m %: 50%

Bit Type / Size: 4" Ausbit Formation: Middle Stairway Described by: C.R. Marsden

Depth (metres)	DRILLING RATE	LITHOLOGY (100 50 0)	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
99.5			no recovery.	marine	no dip - sharp	sst & shale	lt.gy - dk.gy	vf	poor-	sl - mod calc	phosphatic bracs	nil	nil	Shale grading down to vf gr sst. sl - mod calc sst contains abundant phosphatic bivalve remains. - tight.
100														
1														
2														
METRES														
3														
4														
5														

PANCONTINENTAL PETROLEUM LIMITED

PANCON

CORE DESCRIPTION FORM

Basin: Amadeus Well: Mt Winter 2a. Location: S E

Core N°: 2 Date: 4.12.85 Depth: 99.9 - 102.25m

m Cut: 2.35 m Recovery: 2.35 m %: 100%

Bit Type / Size: 4" Ausbit. Formation: middle Stairway. Described by: G.R. Marsden

Depth (m)	DRILLING RATE (100 50 0)	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
99.5														
														phosphate band at 99.93m.
100						shale	dk gy - gy blue	vf		argillaceous	nil	nil	nil.	Shale: dk gy - gy blue. fissile, non calc, hard. - thinly laminated
100.5				marine.	wavy	sandstone	light grey.			occ siliceous.	and other burrows	fair		Sharp contact to flaser bedded sst & shale. - x bedded, occasionally bioturbated - at 100.53m.
														Shale massive 100.68 - 100.82m
														T/B sst & shale a/a.
101			u shaped burrows.	shallow	horizontal - diffuse and	shale and	grey to	vfine	poor	calcareous,	bioturbation	Nil to rare	Nil.	
101.5			vertical burrows			Interbedded	dark				frequent			
			flaser bedding.											
102														

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT WINTER 2A | Location: -

Core N°: 19 | Date: 15/8/86 | Depth: 179·4 – 181·7 M

m Cut: 2·3 | m Recovery: 2·38 | m %: 103·4

Bit Type / Size: TRIEFUS / NQ | Formation: L. STAIRWAY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
179 (100 50 0)													
METRES		CONVOLUTE	INTERTIDAL / LAGOONAL ?	GOOD – OCC DIFFUSE	PRED SANDSTONE W/ SLTST & MINOR SHALE.	LIGHT GREY – SLTST & SH = DK GRY TO BLACK	PRED VF–F – ALSO MED IN PART.	GEN. VERY GOOD	SILICEOUS	HEAVY BIOTURBATION = CONV. BEDDING.	POOR – FAIR IN PART.	● SOME LIVE OIL.	SST – VF GND – LT GRY, OCC F, WELL SRTD, SIL CMT, SBANG – SBRND, HARD, NIL – POOR Ø. – BCMG INT/LAM W/ DKGRY SDSTN
180													MINOR PATCHES AND PINPOINT AREAS OF MED TO BRIGHT YELLOW FLUOR. (DESCR. BELOW)
SEALED		HIGHLY BIO.										●	SLICKENSIDE AT 30° TO HORIZ W/ LIVE OIL COVERING FACE.
												◐	DK BROWN OIL STAIN (PATCHY) IN SST BELOW – PETROLIFEROUS ODOUR. INSTANT WHITE CUT W/ STREAMING WHITE/YELLOW CUT FROM PINPOINT AREAS WITHIN. CUT IS STRAW COLOUR IN WH LIGHT. – LIGHT BROWN RESIDUAL STAIN IN WL / BRIGHT YELLOW IN U/V (AS A BAND AROUND CHIP)
181		CONVOLUTE								TRACE –		PATCHY. BRIGHT YEL FLUOR.	
182													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: –

Core N°: 20 | Date: 15/8/86 | Depth: 181·7 – 184·7 M

m Cut: 3 | m Recovery: 2·94 | m %: 98

Bit Type / Size: TRIEFUS/NQ | Formation: L. STAIRWAY / HORN VALLEY | Described by: M. O'BERRY

Depth	DRILLING RATE (100 50 0)	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
181														
						MINOR SHALE					NO CONSPICUOUS BURROWS			
														INTERBEDDED SSTY SLTSTN CONVOLUTE BEDDING WITH SHALE HORIZONS.
182														
			CONVOLUTE	INTERTIDAL / NEARSHORE		SILTSTONE W/								SST – VF GN – OCC F, LT GRY WELL SORTED, SBANG – SBRND, QTZOSE, W/ SIL CMT. POOR Ø. – BIOTURBATED.
183														
	LOWER STAIRWAY SANDSTONE				VERY CLEAR	SANDSTONE	– LIGHT TO MEDIUM GREY	VERY FINE TO FINE.	WELL SORTED	SILICEOUS	BIOTURBATED – PROB DEAD OIL	V POOR TO POOR	DULL YELL Ø FLUOR.	SHALE, BLACK, ARGILL, FINE LAM.
														MINOR PATCHY FLUORESCENCE DULL YELL, NO CUT – LIGHT BROWN STAIN IN SST – PROB DEAD OIL –
184														
	HORN VALLEY SILTSTONE		PYRITE CONCRETION	EUXINIC MARINE		SHALE	DK GRY/BLACK				HEAVILY / VERY		MINOR	SHALE, BLACK, HARD TO FIRM, VERY FISSILE, NON MIC, NON CALC, VERY WELL LAMINATED, CARBONACEOUS.
			NO RECOVERY								TRACE			
185														

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 21 Date: 15/8/86 Depth: 184·7 – 185·35 M

m Cut: 0·65 m Recovery: 0·60 m %: 92

Bit Type / Size: TRIEFUS/NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
184 (100 – 50 – 0)													
			EUXINIC MARINE	GOOD – SHARP (BET BANDS)	SHALE	DARK GREY TO BLACK	–	–	–	NIL	–	V. RARE PINPOINT YELLOW FLUOR – NO CUT.	SHALE – DARK GREY AND BLACK ARGILL, MICROMICACEOUS, LOC CARB, FISSILE, VERY WELL BEDDED (HORIZONTAL) SLICKENSIDE FACE.
185		NO RECOVERY											
186													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT WINTER 2A Location: –

Core N°: 22 Date: 15/8/86 Depth: 185·35 – 187·7 M

m Cut: 2·35 m Recovery: 2·37 m %: 102

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M-D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
185													
		BIVALVE	EUXINIC MARINE (DEEP WATER)	REASONABLE CLEAR / DIFFUSE LOC.	SHALE W/ THIN DOL LAMINAE, & LST HORIZONS	DARK GRY-BLK, (LT GRY = LST)	(MINOR SANDY PATCHES - MED GNS)	–	DOLOMITIC IN PT	CARBONACEOUS FRAGS OF BIVALVES	GOOD FRACTURE Ø IN LST, OTHERWISE NIL	GOOD SHOWS IN LST, ● OTHERWISE ◐ PATCHY & ● PINPOINT.	SLICKENSIDE - 30° SHALE, DK GRY TO BLK, ARGILL NONCALC, MMIC, LOC PYRITIC, AND LOC W/ THIN DOLOMITIC AND SANDY LAMINAE - (1E) SL AREN → MED GNS IN SHALE. (NOTE - FLOOR MORE INTENSE ON SLICK)
186		15°											SHALE LOC. CARB. - MINOR PATC DULL YEL FLOOR, INST/STR WH CUT - LT BRN RESID RING - NO COL IN WL. SLICKENSIDE (CURVED) ≈ 45° SLICKENSIDE HAVE MORE CONC PATCHY DULL YEL FLOOR. (A/A) W/ BRIGHT YEL RESID RING & PALE BRN IN WHITE LIGHT.
187	SEALED	(4-5cm)											THIN DOLOMITIC HORIZON - LST HORIZ - WH - LT GRY - DIFFUSE CONT. MINOR VIEN CALCITE IN FRACTURES. LIVE OIL IN FRACT IN LST, AND GOOD PATCHY BRIGHT YEL FLOOR. GOOD PETROLIFEROUS ODOUR. INSTANT BRIGHT WHITE CUT, STREAMING FROM POINTS OF CONC. BRIGHT YELLOW RESIDUAL RINGS.
188													STRAW TO DARK STRAW CUT IN WHITE LIGHT, WITH GREEN/BROWN RESIDUAL RINGS.

METRES

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 23 Date: 16/8/86 Depth: 187·7 – 190·7 M

m Cut: 3 m Recovery: 3·02 m %: 100·7

Bit Type / Size: TRIEFUS/NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
187													
188			DEEP MARINE – EUXINIC (BASIN FACIES)	GOOD & SHARP	BLACK SHALE WITH LIMESTONE HORIZONS & THIN CALCLAM	DARK GREY–BLACK – LIMESTONES ARE LIGHT GREY–WH	–	–	DOLOMITIC IN PART	ABUNDANT BIVALVE REMAINS ON BEDDING PLANES	NIL – TIGHT TO TRACE IN LST STRINGERS	ONLY MINOR PATCHY DULL YELL FLUOR.	SHALE – DARK GREY TO BLACK. V ARGILL – LOC DOL, MMIC, PYRITIC, LOC V CARB. – SHALE – WITH MINOR INTERLAM OF DOL & LST. & LST HORIZONS – LIGHT GREY, ARGIL, FOSSILIFEROUS, SHARP CONTACTS – LSTS GEN MICRITIC LOC SPARITIC AROUND FOSS MOUNDS
METRES	SEALED	BOTTOM DWELLING BIVALVES.											MINOR PATCHY YELL FLUOR IN VUGGY LST BEDS ONLY FEW CMS – WHITE CUT – SLOW TO MOD FAST, DULL YELL REDD RING – V FAINT BRN IN WHITE LIGHT – MINOR TRACE RESIDUAL OIL ON SLICKENSIDES – NONE TO TRACE PETR. ODOUR. – MUCH OF THE THIN CAVITIES IN LSTS ARE DISSOLVED ANIMAL REMAINS.
189													
190													SHALES, BLACK, ARGIL VERY WELL LAMINATED, VERY CARBONACEOUS
191													

PANCON

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 24 Date: 16/8/86 Depth: 190·7 – 192·6 M

m Cut: 1·9 m Recovery: 1·92 m %: 101

Bit Type / Size: TRIEFUS/NQ Formation: HORN VALLEY Described by: MDBERRY

DRILLING RATE (100 – 50 – 0)	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
190			MARINE BASIN / EUXINIC	V. GOOD – OCC DIFFUSE OR GRADATIONAL	SHALE INTERBEDDED WITH LST & ARG LST.	DARK GREY TO BLACK – LST = LT GREY	–	–	CALC AND DOLOMITIC	FOSSIL DEBRIS IN MANY LSTS – ALTHO' NOTHING CLEAR.	TRACE IN LST – GEN NIL	MINOR PATCHY STAIN IN LSTS – YOW ● SLICK.	
191	SEALED	DIFFUSE											SHALE – BLACK, ARGILL, MMIC, LOC PYR – LST, WH–LT GRY, MICRITIC, LOC ARG – W/ SHARP & GRAD BOUNDARIES. – DULL YEL PATCHY FLUOR. INSTANT PALE WHITE CUT – PALE YEL RESID. – LIGHT BRN OIL STAIN – MINOR OIL STN ON BEDDING PLANES – LST = DIRTY, ARGILL – V DOL INPT – DEWATERING STRUCT. SHALE → TRU LST.
METRES.													
192		35°											IN LST BANDS – SOME DEBRIS FLOW – POSS DEP^N FROM SLOPE – FOSSIL FRAGS (?) DISORIET.
193													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: –

Core N°: 25 | Date: 16/8/86 | Depth: 192·6 – 195·7 M

m Cut: 3·1 | m Recovery: 3·1 | m %: 100

Bit Type / Size: TRIEFUS / NQ | Formation: HORN VALLEY | Described by: MDBERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
192	100 50 0												
SEALED		EROSION SURFACE.	MARINE BASIN	POSS SLOPE FEED FROM BASINAL EDGE						ABUNDANT SHELLY (BIVALVE) DEBRIS (LSTS) & BIVALVES ON SHALE BEDS	NIL – TRACE IN LSTS (FRACTURE – VUGGY)	OIL STAIN ON SUCK ENSIDES (SAME)	VERY MINOR	LST – WH – LT GRY, V ARG IN PT V CALC – FRACTURED WITH FLUID ESCAPE STRUCTURES AT BASE. – DULL YELLOW FLOUR, IN FRACT. & PATCHY THRO'OUT. LT BROWN OIL STN – YELL/WH INSTANT CUT – W/ FINE RESID RING – LIGHT STRAW IN WH. LIGHT – FAINT BRN RES. RING.
193		MINOR MARINE FOSSILS (BIVALVE)											193·38 – 193·46 = LST W/ ABUNDANT FOSSIL DEBRIS, BIVALVES DISORIENT – CALCITE INFILL IN MINOR FRACT & FOSSIL MOULDS.
METRES				OCC GRADATIONAL	LIMESTONE HORIZONS	LT GREY	MICRITIC		LOC DOLOMITIC				
194			EUXINIC – W/	–	SHALE, W/	–	–	–	–				FOSSIL/SHELL DEBRIS. MINOR FINE INTERLAM.
				VERY GOOD		BLACK			CALCAREOUS				DEBRIS BANK.
195													
													MINOR BRN OIL STN – SHOW SAME AS. PRED – BLACK SHALE W/ PYRITIC ACCUM + DISSEM ALONG BEDDING.
196													

PANCON

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: -

Core N°: 26 Date: 16/8/86 Depth: 195·7 – 198·7 M

m Cut: 3·0 m Recovery: 3 m %: 100

Bit Type / Size: TRIEFUS/NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
195													
			WARM SHALLOW MARINE / BASINAL MARINE EUXINIC	V GOOD – (OTHERWISE STATED)	LIMESTONE & SHALE	LT GREY, BLACK.	-	-	LOCALLY CALCAREOUS	ABUNDANT BIVALVES, (BRACH & PELECYPODS) & TRILOBITES	NIL	NIL	
196													SHALE – DK GREY TO BLACK V ARGILL – FISSILE, SPLINTERY, NON CALC, MMIC, VERY CARBONACEOUS LOC W/ DISSEMINATED PYRITE – ABUNDANT BIVALVE REMAINS (SOME WITH SHELL INTACT) AND TRILOBITE PYGIDIA AND THORAX WELL PRESERVED ON BEDDING PLANES.
METRES													
197													
		PYRITE LINING											SHALE GRADES TO CALC/FOSSILIFEROUS LIMESTONE DEBRISBED LIMESTONE – LIGHT GREY ARGILL – DIRTY, BCMG INCR DARKER GREY & ARG. W/ DEPTH GOING TO CALC SHALE – CONT NODULES OF WH. LST. FOSSIL – DEBRIS BANK.
198													
199													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 27 Date: 16/8/86 Depth: 198·7 – 201·7 M

m Cut: 3 m Recovery: 3 m %: 100

Bit Type / Size: TRIEFUS/NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
198													
													SHALE – LOC SL SILTY.
199													SHELL DEBRIS LST NODULE PT FILLED W/ CALCITE CRYSTALS.
METRES			MARINE BASIN – EUXINIC	SHARP (UNLESS STATED)	SHALE, WITH LIMESTONE HORIZONS	DARK GREY – BLACK, LT-MED GRY LST.	–	–	CALCAREOUS IN PART	BIVALVES AND TRILOBITES	NIL – POSS TRACE IN LSTS	NIL	SHALE – V DK GRY – BLACK MMIC – LOC CALC, ARGILL ABDNT CARB FRAGS, & FOSSIL REMAINS.
200													SPARRY/XSTLN AT TOP – & GRADATIONAL – SHARP BASAL CONTACT.
201													THINLY INTERBEDDED LSTS & SHALES
202													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 28 Date: 16/8/86 Depth: 201·7 – 204·7 M

m Cut: 3 m Recovery: 3·02 m %: 100·7

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.O'BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
201													
													SHALE – BLACK, MMIC, ARGILL. FISSILE Y SPLINTERY, CARB. NAUTILOID FRAGMENTS
202													
			MARINE BASIN – EUXINIC	SHARP	SHALE WITH THIN LIMESTONE HORIZONS	DARK GREY – BLACK, AND LIGHT GREY – WH (LSTS)	–	–	LOCALLY CALCAREOUS	NUMEROUS BIVALVES, NAUTILOIDS, AND TRILOBITES	NIL – SLIGHT TRACE FRACTURE Ø	LOC SLIGHT OIL STAIN (RESIDUAL), DULL YEL ● FLUOR	DULL YELLOW FLUOR, PATCHY HYDR. STAIN ON BEDDING PLANE MINOR – INSTANT WHITE CUT YELLOW RESID RING – PALE STR. CUT IN W.L., W/ V PALE BRN RING
METRES													
203	LST												SHELLY FRAGS IN LST. SLICKENSIDE – V. LOW ANGLE.
													WAVY SLICKENSIDE SURFACE.
		NODULAR LST.											INTERBEDDED SHALE W/ MINOR LIMESTONE HORIZONS.
204	SEALED												MINOR STAIN IN VERT. FRACTURES LIGHT BRN OIL STN ON BEDDING SURFACE – DULL YEL FLUOR, WHITE CUT, W/ YEL/WH RING V FAINT CUT IN W.L. Y V FAINT RESID. RING. – ALSO PATCHY OIL STAIN BELOW BEDDING PLANE
205													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 29 Date: 16/8/86 Depth: 204·7 – 207·7 M

m Cut: 3 m Recovery: 2·96 m %: 98·7

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
204													
													SHALE: BLACK, NON CALC LOC MMIC, V FISSILE AND SPLINTERY.
205													ABUNDANT FOSSIL REMAINS, BIVALVES AND TRILOBITES (DISARTICULATED PARTS) – VERY WELL BEDDED (HORIZ)
METRES			(EUXINIC)		SHALE WITH MINOR LIMESTONE STRINGERS					TRILOBITES, BIVALVES, SOME NAUTILOIDS & TRACKS			
													PELECYPOD ACCUMULATION
206			MARINE BASIN	GOOD		BLACK – LST = LT GREY	–	–	–		NIL	TRACES ON BEDDING PLANE – OTHERWISE NIL	SHELL DEBRIS BANK POSSIBLE 'CRUZIANA' ON BEDDING PLANE, WITH BIVALVE & TRILOBITE REMAINS.
													TRACE STAIN, DULL YELL FLOOR ON BEDDING PLANE – INSTANT WH CUT, W/ YELL/WH RESID RING – NO – V. PL STRAW CUT IN WHITE LIGHT, NO RESID RING.
207		NO RECOVERY								ABUNDANT		SLIGHT	ABUNDANT TRILOBITE PYGIDIA AND THORAX – AND BIVALVES – VERY WELL BEDDED.
208													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: -

Core N°: 30 | Date: 16/8/86 | Depth: 207.7 - 210.7M

m Cut: 3 | m Recovery: 3.04 | m %: 101.3

Bit Type / Size: TRIEFUS/NQ | Formation: MORN VALLEY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
207													
				(LST → SH)						ABUNDANT TRILOBITE ACCUM. ON BEDDING PLANES + BIVALVES	NIL - TRACE CONTACT ⌀ IN LSTS.	● MINOR	TRACE DULL YELL FLUOR ON BEDDING PLANE, INSTANT WH CUT PALE RESID RING (YELL), NO COLOUR IN WHITE LIGHT.
208			EUXINIC	GOOD - SOMETIME REWORKED	SHALE W/ MINOR LIMESTONES	BLACK, LIGHT GREY	-	-	-				V. ABUNDANT TRILOBITES - BOTH LARGE AND SMALL - PYGIDIA AND FEW SMALL WHOLE. - ALSO BIVALVES
METRES.													V THIN CALCITE VEINS (HORIZ)
209			MARINE BASIN/									GOOD FLUOR & CUT.	LARGE TRILOBITE (THORAX/PYGIDIA)
													LIMESTONE - LIGHT GREY, ARGILLIPT - ABUNT SHELL DEBRIS - LIKS REWORKED UPPER BOUNDARY.
210	SEALED											● SEEP IN LST.	LIMESTONE - REWORKED TOP - - MORE MASSIVE BASE - DELUTERING AND RESULTANT LINES OF WEAKNESS THROUGHOUT ALLOW OIL MIGRATION. - OIL SEEP FROM INTRA LIMESTONE CONTACTS - (CALLED 'LIVE' BUT PROB DEAD - ONLY SLOW BLEED) - DARK BRN/BLACK THICK OIL SEEP
211												GOOD OIL	DULL YEL FLOOR, INSTANT WHITE CUT WITH BRIGHT YELL STREAM CUT AFTER BRIGHT YELL RESID. RING. LIGHT STRAW IN WHITE LIGHT WITH PALE BRN RESID RING.

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT WINTER 2A | Location: -

Core N°: 31 | Date: 17/8/86 | Depth: 210·7 – 213·7 M

m Cut: 3 | m Recovery: 2·98 | m %: 99

Bit Type / Size: TRIEFUS / NQ | Formation: HORNVALLEY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
210 (100 50 0) METRES													
		NO REC								& BIVALVES			
211			MARINE BASIN – EUXINIC	GOOD	SHALE, W/ MINOR THIN LSTS	BLACK, LIGHT GREY (LSTS)	-	-	-	TRILOBITES, GRAPTOLITES (TOWARDS BASE)	NIL	ONLY MINOR SHOWS ON SLICKENSIDES.	SHALE: BLACK, MMIC, FISSILE SPLINTERY, NONCALC, WELL LAMINATED, LOCALLY W/ DISSEMINATED PYRITE
212													PATCHY OIL STAIN ON SLICK. FACE. DULL YEL FLUOR AND INSTANT WH. CUT – V PALE IN WL. GENERAL FOETID/PETROLIFEROUS ODOUR.
213										ABUNDANT			GRAPTOLITES MINOR FLUOR & CUT B/A PETROLIFEROUS ODOUR
214													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT WINTER 2A Location: —

Core N°: 32 Date: 17/8/86 Depth: 213·7 – 216·7 M

m Cut: 3 m Recovery: 3·11 m %: 103·6

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
213													
			MARINE BASIN / EUXINIC	DIFFUSE W/ LIMESTONES	SHALE AND MINOR LIMESTONE HORIZONS	BLACK – LIGHT GREY	–	–	–	TRILOBITES, GRAPTOLITES, & MINOR BIVALVES	NIL	NIL	
214													SHALE – BLACK, CARB, (W/ FOETID SMELL) MMIC IN PART, NON CALC, V FISSILE, SPLINTERY, – WELL LAMINATED. PYRITIC – DISSEMINATED.
METRES													
215		NODULAR PYRITE											SMALL SLICKENSLIDES.
													SHALE W/ FINE LIMESTONE LAMINAE
216										EXCELLENT			CEPHALON WITH GOOD OCULAR RIDGE
													SUBHORIZ SLICKENSLIDES WITH HEAVY CARBONACEOUS BULGUP
217													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT WINTER 2A | Location: –

Core N°: 33 | Date: 17/8/86 | Depth: 216·7 – 219·7 M

m Cut: 3 | m Recovery: 3 | m %: 100

Bit Type / Size: TRIEFUS / NQ | Formation: HORN VALLEY | Described by: M.D. BERRY.

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
216													
													SHALE – V. DK GRY TO BLACK, MMIC. INDT, PYRITIC VERY FISSILE, SPLINTERY, BCMG VERY CALCAREOUS. – LST – W/ GRADATIONAL TOP SHARP LOWER BOUNDARY
217			MARINE BASIN	GRADATIONAL WITH LIMESTONE	CALCAREOUS SHALE WITH LIMESTONE HORIZONS	BLACK, ¶ LT GRY	–	–	–	EXCELLENT ABUNDANCE OF TRILOBITES – MINOR BIVALVES	NIL	NIL.	
METRES													
218													SHALE – VERY CALCAREOUS
219													LIMESTONES WITH GRADATIONAL UPPER ¶ LOWER CONTACTS.
220													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 34 Date: 17/8/86 Depth: 219·7 – 222·7M

m Cut: 3 m Recovery: 3 m %: 100

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.O. BERRY.

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
219													
													INTERLAMINATED SHALES AND LIMESTONES.
220													FINELY INTLAM. LST & SHALE
METRES	SEALED		MARINE BASIN – MARGINAL	DIFFUSE / GRADATIONAL	FINELY INTERLAM. SHALES & LSTS	DLGRY/BLK – LTGREY.	–	–	CALCAREOUS	ABUNDANT IN PART.	MINOR FRACTURE Ø, OTHERWISE NIL.	THICK TARRY OIL ● SEEP	THICK TARRY OIL (BLACK) OOZING FROM CALC. INFILLED FRACTURE DULL GOLD YELL FLUOR, INST WH CUT. STRAW CUT IN WHITE LIGHT, LIGHT BRN RESID. RING (YELL UNDER UV). (GOOD PETROLIFEROUS ODOUR)
221													INT. SHALES & LSTS AND SHELLY BEDS – WITH GRADATIONAL UPPER AND LOWER CONTACTS.
													IRREG – REWORKED CONTACTS
222													BANDED, SEMI-NODULAR AND DISPLAYING CHANNEL FILL AND COMPRESSIONAL FABRICS.
223													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: –

Core N°: 35 | Date: 17/8/86 | Depth: 222·7 – 225·7M

m Cut: 3 | m Recovery: 2·98 | m %: 99

Bit Type / Size: TRIEFUS / N.Q. | Formation: HORN VALLEY | Described by: M.D. BERRY.

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
222													
													INT. SHALES AND LSTS WITH PYRITE AND SHELL DEBRIS
223													
			MARINE BASIN – MARGIN	REASONABLY SHARP									GRADATIONAL AND DEBRIS.
METRES					INT SHALES & LSTS.	DARK GRY → LT GRY	–	–	CALCAREOUS	LOCALLY W/ TRILOBITES & SHELL DEBRIS	NIL	NIL.	NODULAR FORMATION OF LIMESTONE WITH INT BANDS OF CONTORTED V. CALC. SHALES.
224													
													TRILOBITE REMAINS
													NODULAR BEDS
225													INT SHALES & LSTS
													NODULAR BEDS.
226													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: M.T. WINTER 2A Location: –

Core N°: 36 Date: 17/8/86 Depth: 225·7 – 228·7 M

m Cut: 3 m Recovery: 3·01 m %: 100·3

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
225													
													INTERLAM SHALES & LSTS –
226													NODULAR BEDS – REWORKED TOPS. SOME FRACTURING & DISLOCATION OF LST NODULAR FRAGMENTS. – SHELLY FRAGMENTS
METRES	SEALED.	CALCITE FILLED	MARINE BASIN – MARGIN	SHARP – AND DIFFUSE – (REWORKED)	LIMESTONE & SHALE	LT GREY & BLACK	–	–	CALCAREOUS	MINOR BIVALVE FRAGS (SHELL DEBRIS)	NIL – MINOR FRACTURE Ø IN LSTS.	REAS. FLUOR IN ● LST – FRACTURES.	LIMESTONE – ARGIL – DIRTY BCMG MORE SHALY W/ DEPTH. – GREEN/BROWN OIL STAIN (LIGHT GRN IN CALCITE) – IN FRACTURES
227													MINOR SEEPAGE FROM CORE. V BRIGHT YELL FLUOR, INSTANT WH CUT FOLLOWED BY YELL STREAMING. PALE STRAW IN W.L. & V FAINT RESID RING.
													LST NODULES W/ V FINELY INT-LAM SH & LST BETWEEN.
228													SHELL DEBRIS
													MAINLY SHALE W/ LST NODULES.
229													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT WINTER 2A Location: –

Core N°: 37 Date: 17/8/86 Depth: 228·7 – 231·7 M

m Cut: 3 m Recovery: 3 m %: 100

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.D. BERRY.

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
228													
229			MARINE BASIN – MARGIN –	GEN SHARP – OFTEN DIFFUSE	SHALE & LST. INTERBEDDED,	DK GRY – BLACK & LT GREY	–	–	CALCAREOUS	ONLY MINOR SHELL DEBRIS	NIL – V.SL. TRACE	NIL.	MINOR SHELL DEBRIS SHALE, DK GRY – BLK, FISSILE SPLINTERY, CARB. V. CALC. LARGE LST NODULE
230													INTERBEDDED SHALE & LST., DK GRY – BLK, LOC MMIC – CARB. V CALC – GRADED W/ LST IN PART OTHERWISE SHARP CONTACTS
231													NODULAR
232													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: M.T. WINTER 2A | Location: –

Core N°: 38 | Date: 17/8/86 | Depth: 231.7 – 234.7 M

m Cut: 3 | m Recovery: 3 | m %: 100

Bit Type / Size: TRIEFUS/NQ | Formation: HORN VALLEY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
231													
													SHALE – DK GRY TO BLACK V CALCAREOUS, LOC CARB W/CARB FRAGS ON BEDDING PLANES – VERY FISSILE, LOC FRI, SPLINTERY
232		A	MARINE BASIN – MARGIN. GEN SHARP (NODULES), DIFFUSE IN BEDS		SHALE WITH HORIZONS OF NODULES OF LST.	DK GREY – BLK, LT GREY, WH (LST)	–	–	CALCAREOUS	ISOLATED TRILOBITES & MINOR SHELL DEBRIS	NIL	NIL	INT. LAM WITH LST. WHITE TO LIGHT GREY ARGILL.
METRES													
233		A											TRILOBITE REMAINS.
													VERY NODULAR LIMESTONE PREDOMINANTLY AS NODULES AND NODULAR CONCRETIONS IN SHALE. SHALE LAMINAE CURVE ROUND THE NODULES.
234													
													VERY NODULAR.
235													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT-WINTER 2A Location: –

Core N°: 39 Date: 17/8/86 Depth: 234·7 – 237·7M

m Cut: 3 m Recovery: 2·84 m %: 95

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
234			MARINE BASIN	SHARP AGAINST NODULES	SHALE WITH LIMESTONE NODULES & STRINGERS.	DK GREY-BLACK	–	–	CALCAREOUS	NONE APPARENT	NIL	NIL.	VERY NODULAR
235													WELL LAMINATED
METRES													NODULAR
													MINOR PYRITE
236													DEWATERING / COMPRESSIONAL FABRICS. NODULAR.
													SHALE: - DK GRY TO BLACK V CALC, CARB IN PART, LOC MMIC, V WELL LAM. FISSILE, SPLINTERY,
237													VERY WELL LAMINATED
		NO RECOVERY											
238													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: M.T. WINTER 2A | Location: -

Core N°: 40 | Date: 17/8/86 | Depth: 237.7 – 240.7 M

m Cut: 3 | m Recovery: 2.93 | m %: 98

Bit Type / Size: TRIEFUS/NQ | Formation: HORN VALLEY | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
237	100 50 0												
													SHALE: DK GRY TO BLACK, SL-MOD CALC – LOC DOLOMITIC, MMIC, PYRITIC ON BEDDING PLANES, FISSILE SPLINTERY
238													THIN, MINOR LIMESTONES AND DOLOMITES, LT GRY-WH, MD, LOC. XSTLN.
METRES			MARINE BASIN (MARGINAL)	GENERALLY SHARP.	SHALE WITH THIN INTERBEDS OF LST Y LST NODULES.	DARK GREY TO BLACK – LT. GREY.	-	-	LOCALLY CALCAREOUS	NONE APPARENT	NIL (UNLESS INDICATED)	NIL	LST. BED, BOWED AND FRACTURED ON UPPER BED CONTACT.
239													MINOR SCOURING – Y SMALL SLICKENSIDE.
													VERY THIN LST. STRINGERS.
240													THIN DOL (→ OOL LST) POROUS, PYRITIC, BRNISH GRY, PITTED, DISPLAYING FR-GD Φ.
		NO RECOVERY											
241													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT WINTER 2A Location: –

Core N°: 41 Date: 17/8/86 Depth: 240·7 – 243·7 M

m Cut: 3 m Recovery: 3·1 m %: 103·3

Bit Type / Size: TRIEFUS / NQ Formation: HORN VALLEY Described by: M·D· BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
240													
													DOLOMITE HORIZON – NODULAR.
													– LT–MED BRN & GRY, CRYSTLN
241													VERY HARD, W/ CALCAREOUS STRINGERS. –
METRES													THIN DOLOMITIC HORIZONS WITH GRADATIONAL BOUNDARIES.
													SHELLY DEBRIS
242													SHALE – BLACK, NON CALC OR DOLOMITIC, CARB, FISSILE, SPLINTERY, & VERY WELL LAMINATED.
		NODULAR PYRITE.	MARINE – BASIN MARGIN.	DIFFUSE –	SHALE WITH THIN DOLOMITE HORIZONS	BLACK AND PALE – MED GRY/BRN.	–	–	–	ONLY SHELL DEBRIS	NIL	NIL	NODULAR SHELL DEBRIS BED.
243													DOLOMITE – HEAVILY BROKEN UP.
													SHELL DEBRIS
													FINE DOLOMITIC LAMINAE IN SHALE. & SHELL DEBRIS.
244													

PANCONTINENTAL PETROLEUM LIMITED

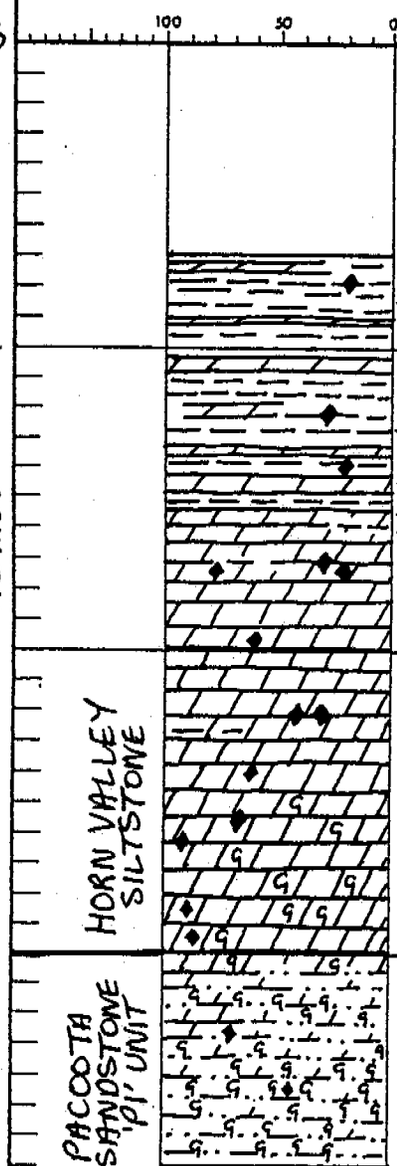
CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: –

Core N°: 42 | Date: 17/8/86 | Depth: 243.7 – 246.7M

m Cut: 3 | m Recovery: 3.05 | m %: 101.6

Bit Type / Size: TRIEFUS / NQ | Formation: HORN VALLEY / PACOOTA 'P1' UNIT. | Described by: M.D. BERRY



DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
			SHALLOW MARINE BASIN - MARGINAL.	GRADATIONAL.	DOLOMITE HORIZONS AND SHALE W/ DOLOMITE	DARK GRY - BLACK.	–	–	–	MINOR SHELL DEBRIS	POROSITY IN DOLOMITE.	NIL	SHALE – DK GRY TO BLACK, FISSILE, SPLINTERY, NON CALC, FINELY INTERLAMINATED WITH DOLOMITE. DOLOMITE IS V. HARD, LT-MED GRY/BRN, XSTLN, AND MASSIVE, IN BANDS & NODULES MINOR FRACTURING – DOLOMITE – V HARD, LT-MED GRY, XSTN, THIN SHALY LAMINAE, TR DK LITHICS. CALCITE (DOGTOOTH) FILLED VUG (THIN VEIN MINERAL FLUOR) PYRITE – VEINING & ACCUMULATIONS. MASSIVE DOL, W/ CALCITE FILLED VEINS & VUGS. ⇒ FR TO MOD GD Φ IN PT. – MINOR THIN SHALY LAMINAE. TRACE GLAUCONITE ABDNT SMALL CAVITIES & VUGS LINED W/ CALCITE, (DOGTOOTH) DISS. PYR, – ABUNDANT GLAUC.
			SHALLOW MARINE – WARM	GENERALLY	DOLOMITE ← → DOLOMITIC SILTSTONE	LIGHT-MED GRY	SILT.			DOLOMITIC	FAIR-GOOD FRACTURE/VUGGY	NIL –	GRADES TO DOLOMITIC SILTSTONE. LIGHT-MEDIUM GRY. PRED. MED. VHD. AREN IN PT W/ OCC SAND GNS. DARK LITHICS, AND AN INCR. AMMOUNT OF VERY ABUNDANT GLAUCONITE (20-30%+) (NOTE: FAINT RELICT SEDIMENTARY STRUCTURES)

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: -

Core N°: 43 Date: 17/8/86 Depth: 246.7 - 249.7M

m Cut: 3 m Recovery: 3.02 m %: 100.6

Bit Type / Size: TRIEFUS / N.Q. Formation: PACOOTA 'P' UNIT Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
246													
													SILTSTONE: LIGHT TO MED GREY, NON CALC, LOC SL DOL, V HARD, VARIABLY ARGILL & ARENA, RESULTING IN RELICT STRUCTURES (FAINT) MINOR DARK LITHICS, PYRITE & ABUNDANT GLAUCONITE. BECOMING INT. LAMINATED W/ VF-F SANDSTONE: LT GRY (CLR-MLKY QNS) ANG - SBANG.
247 METRES.	SMALL CALCITE FILLED VUGS		SHALLOW MARINE → INTERTIDAL.	DIFFUSE	SILTSTONE AND SANDSTONE	LIGHT-MEDIUM GREY	VERY FINE-FINE	MODERATELY WELL	DOLOMITIC	TRACE - BIOTURBATION - NO PRESERVED BURROWS	NIL - TRACE	NIL	
248													SANDSTONE - LT GRY, SILIC-EDDS, QTZOSE, ANG-SBANG, QNS, F-GND, MOD WELL SRTD, VERY GLAUCONITE, MINOR LITHICS.
													SILTSTONE AND SANDSTONE INTERBEDDED. RATHER CONVOLUTED / MIXED SEDIMENTS, POSSIBLE BIOTURBATION.
249													POSSIBLE CHANNEL STRUCT.
250													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT-WINTER 2A Location: –

Core N°: 44 Date: 17/8/86 Depth: 249·7 – 252·7

m Cut: 3 m Recovery: 3·03 m %: 101

Bit Type / Size: TRIEFUS/NQ Formation: PACOOTA 'P1' UNIT Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
249													
250 METRES			INTERTIDAL.	GENERALLY SHARP	SILTSTONE, SHALE & SANDSTONE	LIGHT TO DARK GREY AND BLACK (SHALES)	VERY FINE TO FINE	MODERATE	SILICEOUS	TRACE BIOTURBATION – NO COMPLETE BURROWS	NIL – PR POROSITY IN SOME SSTS	V. MINOR SHOW – V DULL FLOOR.	SILTSTONE, LT-MED & DK GRY, MD, LOC BRN GRNG TO VF GND SST. – SANDSTONE, VF-F GND, LT GREY, SIL CMT, LOC W/ PINPT CALC CMT, ANG-SBANG, LOC SBRND, – TRY PYR, ABDNT GLAUCONITE – TR MICA. – ALSO DK GRY–BLK SHALE LAMINAE AND CLASTS, AND AS DRAPES OVER SST. LENSES.
251			RESTR. CIRC.ⁿ / SHALLOW MARINE										SHALY CLASTS. SST-LENSES RICH IN GLAUC. WITHIN SLTSTN/SST SUGG. POSS REWORKING – HIGHER ENERGY & MICRO-CHANNELLING.
252													EROSIONAL SURFACE – (SOME REWORKING) TO A SHALE, DK GRY-BLK, MAIC, NON CALC/DOL TR. PHOSPHATIC NODULES. SHALE W/ SST LENSES – POSS GROOVE & FLUTE CAST. GLAUC/PYR/& PHOSPHATIC DEBRIS SST: MED-F GND, ANG-SBANG, SIL CMT, MOD SRTD, – LIGHT BRN HYDROCARBON STAIN, DULL YEL FLUOR, INSTANT V. PALE WHITE CUT, SLOW STREAMING YELLOW CUT – NO COLOUR IN WHITE LIGHT. NO RESID. RING. – FLOOR. CONFINED TO SANDY LAMINATIONS & PATCHES OVER 17 CM. (SST = PR POROSITY)
253													

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS | Well: MT. WINTER 2A | Location: –

Core N°: 45 | Date: 17/8/86 | Depth: 252·7 – 255·7 M

m Cut: 3 | m Recovery: 2·98 | m %: 99

Bit Type / Size: TRIEFUS / NQ | Formation: PACOOTA 'P1' UNIT | Described by: M.D. BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
252													
												TRACE.	INT. SLTSTN/Y SST. POSS. BIOTURBATION, DISTURBED. SOME OF V F GND SST HAVE PATCHY DULL YELL FLUOR. INST DULL WH CUT, LT BRN RESID. OIL STAIN, COLOURLESS CUT, NO RESID -UALRING (V FAINT IN U/V) -SST INT. W/ BLACK SHALE, PISS NON CALC, MMIC – TR PYR. -SST - THIN LAM. W/IN SHALE, AND CLASTS – W/ ABDNT. GLAUC. BURROW W/ GLAUC SST INFILL
253		PYRITE NODULE. PYR.	INTERTIDAL / RESTRICTED MARINE	GENERALLY SHARP	INTERBEDDED SST Y SLTSTNS W/ SHALE LAMINAE Y CLASTS.	LT-MED GRY - (SHALE = DK - OK GRY)	VF-MED, PRED. FINE	MODERATELY WELL	SILICEOUS - LOC. PNPT. CALC CMT.	TRACE - HIGHLY BIOTURBATED IN PT, OCC. BURROWS, BIVALVES AT BASE	NIL – TRACE	MINOR FLOOR	V. GLAUC SST – VF – F GND, SIL CMT, ANG – SBANG, PNPT CALC CMT.
254													GLAUC SST W/ MINOR PHOSPHATES. MINOR PHOSPHATES. SST – WH – LT GRY, OCC CLR GNS. VF – F OCC MED, QTZOSE, W/ SIL CMT, WELL SRTD, SUBANG, NIL → TR Ø.
255	SEARED	CLAY CLASTS 12° TO HORIZ									MOD PATCHY TO		-LT BRN OIL STN – DULL GOLD YELL FLUOR, PATCHY > 20% INST WH CUT, W/ SLOW STMING YELL CUT, COLOURLESS IN WH. LIGHT – – SST = ONLY TR Ø. F – MED SST – – BCMG – FERRUGINOUS AT BASE. – SS – MED – LOC CSE GND.
256													

METRES

PANCONTINENTAL PETROLEUM LIMITED

CORE DESCRIPTION FORM

Basin: AMADEUS Well: MT. WINTER 2A Location: –

Core N°: 46 Date: 17/8/86 Depth: 255·7 – 258·7 M.

m Cut: 3 m Recovery: 3·04 m %: 101·3

Bit Type / Size: TRIEFUS / NQ Formation: PACOOTA PI. UNIT Described by: M D BERRY

DRILLING RATE	LITHOLOGY	SEDIMENTARY STRUCTURES	FACIES	CONTACTS	ROCK TYPE	COLOUR	GRAIN SIZE	SORTING	CEMENTS	FOSSILS	POROSITY	SHOWS	COMMENTS
100 50 0													
255													
													SST W/ INT. SLTSTN AND MINOR THIN SHALY LAMINAE.
256													GOOD CONTACT.
		MASSIVE	INTERTIDAL/BEACH/LAGOONAL ? / ARID DUNE	GENERALLY SHARP	SANDSTONE, WITH SILTSTONE INTERBEDS / IRONSTONE. / MINOR SHALES	LIGHT-MEDIUM GREY	VERY FINE-MED. PRED. FINE	MODERATELY GOOD	Y FERRUGINOUS / SILICEOUS.	TRACE – ABUNDANT BIOTURBATION – INCR AT BASE	NIL → PR Ø.	TRACE ● FLOOR.	FERROGINOUS SST: OOLITIC, V IRONRICH - ALL GNS COATED IN HAEMATITE/LIMONITE. CSE GND, SUBRND. WELL SRTD, PTLY FRI, IRON CMT, NIL-PR POR. SST: VF-M GND, PRED F, SBANG -SBRND, MOD WELL SRTD, MASSIVE -SIL CMT - NIL-TR POR. MINOR PATCHY LT BRN STN, DULL YELL FLUOR, SLOW WH CUT, NO -TR RESID RING, COLOURLESS IN W.L -SST - TR - PR Ø - CLEAN. - CLAY/SHALY HORIZONS. SST = GLAUCONITIC.
	SEALED	MASSIVE											
257		EROSIONAL SURF. 25° TO HOR											INT. BIOTURBATED SSTS Y SLTSTNS
258													BIOTURBATED SSTS Y SLTSTNS
													SHALE LAMINAE.
													SST WITH SLTSTN INTERBEDS. PREDOMINANTLY BIOTURBATED. ISOLATED, UNDISTURBED HORIZONS.
259													

METRES

T.D. DRILLER 258·7 M
T.D. B.P.B. 258·7 M