FIGURE P-1

PALYNOMORPH DISTRIBUTION CHART

MICROPALEO CONSULTANTS, INC.

WELL NAME :USN/HUSKY EAST TESHEKPUK NO.1
PROJECT :DIGITAL PALEO DATABASE PROJECT
PALYNOLOGIST :HIDEYO HAGA

API NUMBER :50-103-20006
LOCATION :SEC. 16, T14N/R04W UM
TOTAL DEPTH :10,664 FEET

BASIN :COLVILLE
COUNTY :NORTH SLOPE BOROUGH
STATE :ALASKA

DATE :MARCH 2001
PROJECT :99-111

RELATIVE ABUNDANCE KEY

	:	NOT PRESENT
	: 1 TO 1	VERY RARE
	: 2 TO 5	RARE
	: 6 TO 15	FREQUENT
	: 16 TO 30	COMMON
	: 31 TO 300	ABUNDANT
	: 501 TO 5000	PROLIFIC
*	:	All Specimens Reported.
**	:	Some Specimens Reported.

SPECIES LOCATION INDEX

SPORE - POLLEN

[30] 7DICTYOPYXIDIA CIRCULATA
[14] APPENDICISPORITES SPP.
[51] APTEODINIUM GRANDE
[81] CALLAIOSPHAERIDIUM ASYMMETRICUM
[9] CANNAROZONOSPORITES INSIGNIS
[75] CANNINGIA RETICULATA
[39] CHATANGIELLA DITISSIMA
[40] CHLAMYDOPHORELLA NYEI
[5] CICATRICOSISPORITES SPP.
[155] CLASSOPOLLIS CLASSOIDES
[27] CONVOLUTISPORA SP.
[36] CRIBROPERIDINIUM EDWARDSI
[57] CYCLONEPHELIUM COMPACTUM
[41] CYCLONEPHELIUM DISTINCTUM
[49] CYCLONEPHELIUM MEMBRANIPHORUM
[53] CYCLONEPHELIUM PAUCIMARGINATUM
[2] DELTOIDOSPORA SPP.
[101] DENSOSPORITES SPP. **
[91] DINIDINIUM UNCINATUM
[82] ENDOSCRINIUM CAMPANULUM
[173] EXESIPOLLENITES TUMULUS
[82] FLORENTINIA COOKSONIAE
[101] FROMEA ELONGATA
[643] GARDODINIUM TRABECULOSUM **
[41] GLEICHENIIDITES SENONICUS
[951] GONYAULACYSTA CLADOPHORA
[831] GONYAULACYSTA JURASSICA **
[32] GONYAULACYSTA TENUICERAS
[37] HYSTRICHODINIUM PULCHRUM
[52] HYSTRICHODINIUM VOIGTII
[31] HYSTRICHOSPHAERIDIUM DIFFICILE
[463] HYSTRICHOSPHAERIDIUM STELLATUM
[58] HYSTRICHOSPHAERIDIUM TUBIFERUM
[94] IMBATODINIUM MICROPODUM
[18] INDETERMINATE VERRUCATE SPORES
[35] ISABELIDINIUM ACUMINATUM
[33] ISABELIDINIUM COOKSONIAE
[40] ISABELIDINIUM GLOBOSUM
[105] JRD-2
[108] JRD-4
[106] JRD-6
[23] KLAUSIPOLLENITES STAPLINII
[25] KRAEUSELISPORITES SPP.
[25] LARCINADINIUM BICONICULUM
[53] LEIOFUSA SPP.
[20] LUECKISPORITES SP.
[21] LUNDBLADISPORA SP.
[63] LUNDINIUM PROPATULUM
[56] LYCOPODIUMSPORITES SPP. **
[22] LYCOSPORA SPP. **
[99] MANCODINIUM SEMITABULATUM
[44] MICRHYSTRIDIUM SPP.
[68] MICRODINIUM OPACUM
[71] MUDERONGIA ASYMMETRICA
[92] MUDERONGIA CF. M. SIMPLEX
[104] NANNOCERATOPSIS CF. N. ARBONIS
[90] MUDERONGIA TETRACANTHA
[92] MUDERONGIA CF. M. SIMPLEX
[83] POLYCINGULATISPORITES REDUNCUS
[78] PRIONODINIUM ALASKENSE *
[61] PSEUDOCCERATIUM EXPOLITUM
[80] PSEUDOCCERATIUM NUDUM
[62] PSEUDOCCERATIUM RETUSUM
[241] RAISTRICKIA SP.
[13] ROGALSKAISPORITES CICATRICOSUS
[96] SCRINIODINIUM CRYSTALLINUM
[86] SENONIASPHERA MICRORETICULATA
[93] SENTUSIDINIUM RIGULTII
[88] SILICISPHAERA FEROX
[84] SIRMIDINIUM GROSSI **
[67] SPINIDINIUM VESTITUM
[34] SPINIFERITES RAMOSUS
[38] SPINIFERITES SPP.
[54] STEPHODINIUM COSMOSUM
[19] STRIATITES RICHTERI
[74] SVERDRUPIELLA USITATA *
[11] TRENIAESPORITES SPP. **
[107] TASMANACEAE
[6] TRILOBOSPORITES APIVERRUCATUS
[12] TRILOBOSPORITES PERVERULENTUS
[73] TUBOTUBERELLA APATELA **
[1] UNDIFFERENTIATED BISACCATES
[101] VITREISPORITES PALLIDUS
[553] WALLODINIUM LUNUM
[263] WALTZISPORA CF. W. POLITA
[693] WIGGINSIELLA GRANDSTANDICA
[853] XENASCUS CERATIOIDES

MICROPLANKTON

[1] UNDIFFERENTIATED BISACCATES
[2] DELTOIDOSPORA SPP.
[3] OSMUNDACIDITES SPP.
[4] GLEICHENIIDITES SENONICUS
[5] CICATRICOSISPORITES SPP.
[6] TRILOBOSPORITES APIVERRUCATUS
[7] PODOCARPIDITES SPP.
[8] POLYCINGULATISPORITES REDUNCUS
[9] CANNAROZONOSPORITES INSIGNIS
[10] DENSOSPORITES SPP. **
[11] TRENIAESPORITES SPP. **
[12] TRILOBOSPORITES PERVERULENTUS
[13] ROGALSKAISPORITES CICATRICOSUS
[14] APPENDICISPORITES SPP.
[15] CLASSOPOLLIS CLASSOIDES
[16] VITREISPORITES PALLIDUS
[17] EXESIPOLLENITES TUMULUS
[18] INDETERMINATE VERRUCATE SPORES
[19] STRIATITES RICHTERI
[20] LUECKISPORITES SP.
[21] LUNDBLADISPORA SP.
[22] LYCOSPORA SPP. **
[23] KLAUSIPOLLENITES STAPLINII
[24] RAISTRICKIA SP.
[25] KRAEUSELISPORITES SPP.
[26] WALTZISPORA CF. W. POLITA
[27] CONVOLUTISPORA SP.
[28] HEXAGONIFERA CHLAMYDATA
[29] LARCINADINIUM BICONICULUM
[30] 7DICTYOPYXIDIA CIRCULATA
[31] HYSTRICHOSPHAERIDIUM DIFFICILE
[32] GONYAULACYSTA TENUICERAS
[33] ISABELIDINIUM ACUMINATUM
[34] SPINIFERITES RAMOSUS
[35] ISABELIDINIUM COOKSONIAE
[36] CRIBROPERIDINIUM EDWARDSI
[37] HYSTRICHODINIUM PULCHRUM
[38] SPINIFERITES SPP.
[39] CHATANGIELLA DITISSIMA
[40] CHLAMYDOPHORELLA NYEI
[41] CYCLONEPHELIUM DISTINCTUM
[42] PALAEOPERIDINIUM CRETACEUM
[43] OLIGOSPHAERIDIUM COMPLEX
[44] MICRHYSTRIDIUM SPP.
[45] OLIGOSPHAERIDIUM ANTHOPHORUM
[46] HYSTRICHOSPHAERIDIUM STELLATUM
[47] ODONTOCHITINA OPERCULATA
[48] ISABELIDINIUM GLOBOSUM
[49] CYCLONEPHELIUM MEMBRANIPHORUM
[50] HYSTRICHOSPHAERIDIUM TUBIFERUM
[51] APTEODINIUM GRANDE
[52] HYSTRICHODINIUM VOIGTII
[53] CYCLONEPHELIUM PAUCIMARGINATUM
[54] STEPHODINIUM CORONATUM
[55] WALLODINIUM LUNUM
[56] LYCOPODIUMSPORITES SPP.
[57] CYCLONEPHELIUM COMPACTUM
[58] IMBATODINIUM JAEGERI
[59] LEIOFUSA SPP.
[60] MICRODINIUM OPACUM
[61] PSEUDOCCERATIUM EXPOLITUM
[62] PSEUDOCCERATIUM RETUSUM
[63] LUNDINIUM PROPATULUM
[64] GARDODINIUM TRABECULOSUM **
[65] VERYHACHIUM SPP.
[66] OLIGOSPHAERIDIUM COMPLEX (THICK-WALL) **
[67] SPINIDINIUM VESTITUM
[68] OLIGOSPHAERIDIUM IRREGULARE
[69] HIGGINSIELLA GRANDSTANDICA
[70] OLIGOSPHAERIDIUM PULCHERRIMUM
[71] MUDERONGIA ASYMMETRICA
[72] NANNOCERATOPSIS SENEX **
[73] TUBOTUBERELLA APATELA **
[74] SVERDRUPIELLA USITATA *
[75] CANNINGIA RETICULATA
[76] NANNOCERATOPSIS PELLUCIDA *
[77] OVOIDINIUM VERRUCOSUM
[78] PRIONODINIUM ALASKENSE *
[79] PARECDINIA CERATOPHORA **
[80] SILICISPHAERA FEROX
[81] CALLAIOSPHAERIDIUM ASYMMETRICUM
[82] FLORENTINIA COOKSONIAE
[83] GONYAULACYSTA JURASSICA **
[84] SIRMIDINIUM GROSSI **
[85] XENASCUS CERATIOIDES
[86] SENONIASPHERA MICRORETICULATA
[87] ENDOSCRINIUM CAMPANULUM **
[88] PSEUDOCCERATIUM NUDUM
[89] ODONTOCHITINA SP. 1
[90] MUDERONGIA TETRACANTHA
[91] DINIDINIUM UNCINATUM
[92] MUDERONGIA CF. M. SIMPLEX
[93] SENTUSIDINIUM RIGULTII
[94] IMBATODINIUM MICROPODUM
[95] GONYAULACYSTA CLADOPHORA
[96] SCRINIODINIUM CRYSTALLINUM
[97] NANNOCERATOPSIS GRACILIS
[98] PHALLOCYSTA SUBCONICA
[99] MANCODINIUM SEMITABULATUM
[100] JRD-4
[101] FROMEA ELONGATA
[102] PARVOCYSTA CANCENS
[103] PARVOCYSTA MASUTA
[104] NANNOCERATOPSIS CF. N. ARBONIS
[105] JRD-2
[106] JRD-6

MISC.

PERIOD/EPOCH	AGE/ZONE	SAMPLE DEPTH (FEET)
LATE CRETACEOUS	PROBABLE SANTONIAN TO CAMPANIAN (PROBABLE P-M14)	533-600
		610-680
		680-760
		800-900
		900-980
		980-1060
		1060-1140
		1140-1220
		1220-1300
		1300-1380
		1380-1460
		1460-1540
	CONIACIAN TO TURONIAN (P-M15)	1540-1620
		1620-1700
		1700-1780
		1780-1860
		1860-1940
		1940-2020
		2020-2100
		2100-2180
		2180-2260
EARLY CRETACEOUS	MIDDLE TO LATE ALBIAN (P-M17)	2260-2340
		2340-2420
		2420-2500
		2500-2580
		2580-2680
		2637 SW
		2652 SW
		2680-2760
		2682 SW
		2735 SW
		2752 SW
		2760-2840
		2840-2920
		2872 SW
		2920-3000
		3000-3080
		3000 SW
		3060 SW
		3080-3160
		3110 SW
		3140 SW
		3160-3240
		3240-3320
		3320-3400
		3400-3480
		3480-3560
		3560-3640
		3640-3720
		3720-3800
		3800-3880
		3880-3960
		3960-4040
		4000 SW
		4040-4140
		4120 SW
		4140-4230
		4230-4320
		4320-4410
		4410-4500
		4500-4590
		4500 SW
		4590-4680
		4610 SW
		4650 SW
		4680-4770
	APTIAN TO EARLY ALBIAN (P-M18)	4770-4860
		4860-4950
		4950-5040
		5040-5130
		5130-5220
		5220-5310
		5310-5400
		5400-5490
		5490-5580
		5580-5670
		5600 SW
		5670-5760
		5760-5850
		5830 SW
		5850-5940
		5940-6030
		6030-6130
		6130-6220
		6220-6310
		6310-6400
		6400-6480
		6480-6570
		6570-6660
		6660-6750
		6750-6840
		6750 SW
		6840-6930
	APTIAN TO BARREMIAN (P-M18a)	6900-6930
		6930-7020
		6930-6960
		6960-6990
		6990-7020
	HAUTERIVIAN (P-M19)	7020-7110
		7050-7080
		7080-7110
		7110-7200
		7110-7140
		7112 SW
		7140-7170
		7200-7290
		7290-7320
		7320-7350
LATE JURASSIC	PROBABLE KIMMERIDGIAN (PROB. P-M21)	7350-7380
		7380-7470
		7470-7560
EARLY TO MIDDLE JURASSIC	UNDIFFERENTIATED (P-M23) (P-M24?)	7470-7500
		7500 SW
		7500-7590
		7560-7650
		7590-7680
		7600 SW
		7650-7740
		7680-7770
		7740-7830
		7770-7860
		7830-7920
		7860-7950
		7920-8010
		7920 SW
		7950-8040
		8010-8100
		8040-8130
		8080 SW
		8100-8190
		8182 SW
LATE TRIASSIC TO EARLY JURASSIC	UNDIFFERENTIATED (P-T15? TO P-M24?)	8190-8280
		8220 SW
		8280-8340
		8340-8430
		8430-8520
		8520-8610
		8542 SW
		8610-8700
		8700-8790
		8705 SW
		8790-8880
		8880-8970
		8970-9060
		9052 SW
EARLY? TRIASSIC	UNDIFF. (P-T16?)	9060-9150
		9150-9240
		9203 SW
		9240-9330
		9330-9420
		9420-9510
		9510-9600
EARLY TRIASSIC	UNDIFF. (P-T17)	9550 SW
		9595 SW
		9600-9690
INDET.	INDET.	9655 SW
		9677 SW
		9690-9780
		9703 SW
CARBONIFEROUS (PROBABLE PENNSYLVANIAN)	(PROBABLE P-T19)	9780-9870
		9870-9960
		9960-10050
		10050-10140
		10140-10230
		10230-10320
		10320-10410
		10410-10500
		10500-10590
		10590-10664
INDET.	INDET.	10624 SW

SPORE-POLLEN DIVERSITY (FILLED) 0 5 10 15 20 25 30

MICROPLANKTON DIVERSITY (FILLED) 0 5 10 15 20

TOTAL SPORE-POLLEN 0.8 10 100 1000 3000

TOTAL MICROPLANKTON 0.8 10 100 1000