331601

CORE, MUD AND CUTTINGS ANALYSIS

FOR

ESSO STANDARD OIL (AUSTRALIA) LTD.

BASS NO. 3 WELL (OFFSHORE)

WILDCAT

TASMANIA, AUSTRALIA

BY

CORE LABORATORIES AUSTRALIA (VIC) LTD.

Contents

OR-0332A

331002

CORE LABORATORIES AUSTRALIA (VIC) LTD.

Petroleum Reservoir Engineering

BRISBANE, AUSTRALIA

14 April, 1967.

G.P.O. BOX 664K
CABLE: CORELAB
PHONE: 5-3222

ESSO STANDARD OIL (AUSTRALIA) LTD.,
G. P. O. Box 4249,
SYDNEY, NEW SOUTH WALES.

ATTENTION: MR. A. A. PHILLIPS.

SUBJECT: CORE, MUD AND CUTTINGS ANALYSIS,
ESSO BASS NO. 3 WELL,
WILDCAT,
TASMANIA.

GENTLEMEN:

A CORE LABORATORIES AUSTRALIA combination drill cuttings and core analysis unit was present at the site of the subject well during drilling operations from 721 feet to the total depth of 7978 feet.

Using standard equipment plus a Programmed Hydrocarbon Detector (Rapid sampling gas Chromatograph), and a Beckman GC-1 (H_2S and CO_2 Detector), the drilling fluid was monitored continuously and the drill cuttings were checked at regular intervals for gas and oil content and lithology. All core analysis was performed by conventional procedures. The results of these operations are shown on the accompanying Grapholog and Core Analysis Results Sheet.

Hydrocarbon Shows. There were no indications of liquid hydrocarbons in this well. Oil fluorescence was not noted in any samples or cores.

The gas increases detected between 6390' and 6460' apparently come from carbonaceous material and are probably not of commercial significance.

Other increases were noted and reported to the wellsite geologist at the time they occurred. These zones were: 6740 - 6760, 6980 - 7020, and 7030 - 7060. We understand that careful examination of the logs indicated that these zones were not commercially significant.

We sincerely appreciate the opportunity to have been of service, and trust that the information furnished in this report and during drilling operations has assisted the evaluation of this well.

Yours very truly,
CORE LABORATORIES AUSTRALIA (VIC) LTD.

Joe B McAdams

JOE B. MC ADAMS,
RESIDENT MANAGER.

331003

CL-511-2

CORE LABORATORIES AUSTRALIA LTD.

Petroleum Reservoir Engineering

BRISBANE, AUSTRALIA

Company ESSO STANDARD OIL (AUST.) LTD. Formation _____ Page 1 of 1

Well BASS NO. 3 Cores _____ File FL-115-9L

Field WILDCAT Drilling Fluid _____ Date Report 14 APRIL 1967

~~County~~ TASMANIA ~~State~~ AUSTRALIA Elevation _____ Analysts P. C.

Location _____ Remarks _____

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION			PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME	% PORE	TOTAL WATER % PORE		
1	5316	159		27.4	0.0	0.0	72.3	WATER	SS,TAN,V/FN GRN,SL/DOLIC
2	5638	4.4		27.8	0.0	0.0	94.0	WATER	SS,GRY,V/FN GRN,S1/MIC,LIG.
3	5919	10.5		17.6	0.0	0.0	84.6	WATER	SS,GRY,F-C GRN,CLY MTX,LIG.
4	6432	328		27.0	0.0	0.0	93.1	WATER	SS,WH,M-C GRN,CLY MTX.
5	6921	10.3		22.2	0.0	0.0	78.0	WATER	SS,GRY,M-C GRN,CLY MTX.
6	6922	0.5		16.3	0.0	0.0	70.0	**	SS,GRY,V/FN GRN,SLTY,MIC, LIG.
7	6925	28		16.0	0.0	0.0	71.1	WATER	SS,GRY,M-C GRN,CLY MTX, LIG.
8	6926	18		22.3	0.0	0.0	85.0	WATER	SS,GRY,M-C GRN,CLY MTX, LIG.
9	6928	42		18.9	0.0	0.0	83.8	WATER	SS,GRY,FN-M GRN,CLY MTX, LIG.
10	6929	0.5		25.8	0.0	0.0	81.0	**	SS,GRY,V/FN GRN,MIC.
11	6930	2.3		15.5	0.0	0.0	73.5	**	SS,GRY,FN-C GRN,WH CLY MTX.
12	6932	1.3		15.4	0.0	0.0	69.5	**	SS,GRY,FN-C GRN,WH CLY MTX.
13	7433	28		19.3	0.0	0.0	76.0	WATER	SS,GRY,C GRN,CLY MTX, MIC.
14	7438	26		19.5	0.0	0.0	67.6	WATER	SS,GRY,M-C GRN,CLY MTX, MIC.
15	7439	24		20.0	0.0	0.0	67.0	WATER	SS,BUFF,M-C GRN,CLY MTX.
16	7441	5.0		18.9	0.0	0.0	71.5	WATER	SS,GRY,M-C GRN,CLY MTX, MIC.

** INSUFFICIENT PERMEABILITY.

NOTE:
(*) REFER TO ATTACHED LETTER.
(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.
(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

OR-0339A

CORE LAB Grapholog

CORE LABORATORIES, INC.

COMPANY	ESSO EXPLORATION AUSTRALIA INC.
WELL	ESSO BASS NO.3
FIELD	WILDCAT
XXXX	TASMANIA
XXXX	AUSTRALIA
LOCATION	LONG: 145°16'57" E LAT: 39°59'51" S
ELEVATION	31' KB
DEPTH LOGGED, FROM	721' TO 7978' FT.
DATE LOGGED	21 FEB. 1967 TO 29 MARCH 1967
CREW CHIEF	WITT
FILE NO.	FL 115
DRLG. FLUID	WATER/GEL 721' TO 7998 FT.

5 cm

LEGEND

ABBREVIATIONS

NB = NEW BIT
NCB = NEW CORE BIT
CO = CIRCULATED OUT
DST = DRILL STEM TEST
LAT = LOGGED AFTER TRIP
TG = TRIP GAS
NR = NO RETURNS
DS = DIRECTIONAL SURVEY
DC = DEPTH CORRECTION
DEPTHS CORRESPOND TO DRILL PIPE MEASUREMENTS
MEASURED FROM KB

RESISTIVITY, OHM-METERS
Rm = MUD
Rmc = MUD CAKE
Rmf = MUD FILTRATE

MUD DATA
CK = CAKE THICKNESS 32nds
V = VISCOSITY API SECONDS
F = FILTRATE API CC'S
W = WEIGHT
S = SALINITY, ppm Cl

LITHOLOGY

SAND, SALT, COAL, MARL, CONG, CLAY, DOLOMITE, CALC/ARENITE, ANHYDRITE OR GYPSUM, SHALE, CHERT, LIMESTONE, CHALK, SILTSTONE

HYDROCARBON ANALYSIS

HOT WIRE: Total Gas — Methane (by difference)
ELECTRONIC: Methane (1) Ethane (2) Propane (3) Butane (4) Pentane (5) Hexane (6)

DRILLING RATE MIN/FT [X] FT/HR [ ]

DRILLING ACTIVITY — LITHOLOGY — DEPTH

DRILLING MUD: Butane & Pentane 5 Units/Div.; Ethane & Propane 10; Methane 50; Total Gas & Methane 10 Units/Div.; Hot Wire

DRILL CUTTINGS: H_2S 5 Units/Div.; CO_2 5; Methane; Total Gas & Methane 10 Units/Div.; Hot Wire

HYDCRBN FLRSNCE: TRACE, POOR, FAIR, GOOD

REMARKS

FORMATION DESCRIPTION, MUD DATA, DRILL STEM TESTS, etc.

VERTICAL SCALE
2"=100'

CASING RECORD
30" CASING SET AT 336'
20" CASING SET AT 721'
13 3/8" CASING SET AT 2750'

780'- 1410'
CALCARENITE, WH-LT GY, FOSSIL DEBRIS, GOOD POROSITY, W/TR SAND, MED-V. CRSE GR SUB-ANG TO SUB-RND, TR GLAUC. ARGILL MATRIX.

LAG CHECK.
DEPTH 980'
CARBIDE 4 OZS.
HOT WIRE 30 UNIT
P.H.D. 50 UNIT
LAG 1300 STKS

1410' - 2280'
LIMESTONE, SKELETAL MICRITIC, LTGY, ARGL GLAU, V/FN. SND, OCC. CALCITE, FORAM

LIMESTONE AS ABOVE SKELETAL FN-V/FN BIOSPARITE, WH-GY SFT. CALC. CMT, POR. GOOD, PERM. FAIR.

LIMESTONE, AS ABOVE W/GLAUC. V/FN SND.

LAG CHECK.
DEPTH 1980'
CARBIDE 4 OZS.
HOT WIRE 30 UNIT
P.H.D. 50 UNIT
LAG 2400 STKS

2280'-2800'
MARL, LT. GY-GY. GRN, SILTY, OCC. PYRITIC, FOSSIL FRAGS, MAINLY BRYZOA & FORAM.

MARL, AS ABOVE, W/ CALC. SANDSTONE

MUD DATA.
1800 HRS -2500'
W= 10.1 APV= 17
V= 35 PV= 6
WL= 32 YD= 22
CK= 6 GEL= 12/18
PH= 9 ALK= 0
CA= 440 NACL= 8500
SD= 1.2% RMF= 69/77
NACL DRILL. WATER= 820PPM

2800-2900'
MUDSTONE, LT GY-GRN SFT, CLAYISH W/SHELL FRAGS, SLI ARGILL, SLI CALC. GLAUCONITE PYRITE.
MARL, TR, A/A.

2900-3240'
MUDSTONE, LT BRN, SFT, SLI CALC, SILTY

CARBIDE CHECK.
DEPTH =2956'
CARBIDE =4 OZS.
HOT WIRE =25 UNITS
P.H.D. =40 UNITS
LAG =1501 STKS

CORE #1 3000-3030'
CUT 30' REC. 30'
MUDSTONE, LT-DK GY GRN, SLI AREN, CALC, SLI MICA, V FOSSIL, PYRITE. FAINT IRREGULAR BEDDING. NO APPARENT DIP.

MUD DATA
1650 HRS - 3395'
W =10.6 APV= 23
V =52 PV = 20
WL=6.2 YD = 6
CK= 3 GEL=18/25
PH=10.5 ALK=0.7
CA=320 NACL=5855
SD=1% RMF=0.95 AT 73F

3240 -3890'
SHALE, MED-DK GY, SLI MICA, SLI CALC, SLI AREN, FOSSIL.
TR. SILTSTONE, LT GY BRN, SLI CALC.
MUDSTONE, A/A.

CORE No. 2
3500-3530' REC. 30'
SHALE, DK-MED GY GRN V FOSSIL, SILTY IN PART, CALC, GLAUCON. PYRITIC. INTBD. WITH MUDSTONE, LT. GY GRN SLI FOSSIL, CALC. BEDDING GENERALLY FLAT.

CARBIDE CHECK.
DEPTH =3785'
CARBIDE =3 OZS.
HOT WIRE=18 UNITS
P.H.D. =30 UNITS
LAG =2857 STKS

3890 -4230'
SILTSTONE, LT GY, V ARGILL, CALC. GLAUCON.
SHALE AND MUDSTONE A/A.
4050 -4080'
SANDSTONE, LT GY, V FN GRN, V ARGILL, CALC, GLAUCON.

CORE No. 3
3997-4022' REC. 18'
SHALE, DK-MED GY, V FOSSIL, V SILTY IN PART, GLAUCON, CALC.

MUD DATA.
1500 HRS - 4023'
W =10.5 APV=21
V =45 PV =18
WL=7.1 YD =6
CK=2 GEL=1/3
PH=10.5 ALK=0.5
CA=200 NACL=2600
SD=2% RMF=
NACL DRILL. WATER= 1000 PPM.

4230-4539'
SHALE, DK GY-GY, SILTY, CALC, FOSSIL, GLAUCON, PYRITIC, MED SOFT.
MUDSTONE, LT GY, AREN, GLAUCON, CALC, FOSSIL,
LIMESTONE, AT 4420' DK GY, V ARGILL.

MUD DATA.
1630 HRS - 4340'
W =10.4 APV=34
V =65 PV =26
WL=2.6 YD =17
CK=2 GEL=28/40
PH=10.0 ALK=0.6
CA=360 NACL=1757
SD=2% RMF=1.96 AT 75°F.

CORE NO.4
4516-39', REC. 23'
SHALE, DK. GY-BLACK W/DK. BRN. STREAKS, SILTY, SL. CALC. FOSSL. PYRITIC, FLAKY, SPLINTERY-SUB CON-CHOIDAL FRACTURE. RARE LAMINAE BUFF MASSIVE MICRITIC LIMESTONE.

CARBIDE CHECK
DEPTH =4550'
CARBIDE =4 OZS.
HOT WIRE =12 UNITS
P.H.D. =35 UNITS
LAG =3200 STRK.

4539-5009'
SHALE, LT-DK. BRN, GY SILTY, SL. CALC. GLAU FOSSIL. PYRITIC.
LIMESTONE, LT. BRN, HARD DENSE CRYP/XLN ARGILL. OCC. DOLOMITIC
SILTSTONE, LT-DK. GY SL. CALC. GLAUC. FOSS.

MUD DATA.
2300 HRS - 4896'
W =10.6 APV=23
V =53 PV =18
WL=10.2 YD =11
CK=2 GEL=2/5
PH=10.0 ALK=0.3
CA= NACL=2200
SD=2%

5009-5039'
SHALE AND SILTSTONE A/A.

CORE No. 5
5009-5039' REC. 26'
SHALE, DK CHOCOLATE BRN, MASSIVE, SLI CONCHOIDAL FRAC. MICA. V PYRITIC, SLI CALC. FOSSIL. THIN LAMINAE OF SHALE, LT. GY-GRN AND SILTSTONE, LT BRN-GY, V ARGILL. ALSO SANDST. BUFF-LT BRN, V F GR ARGILL, SLI CALC. BEDDING GENERALLY FLAT.

5039-5315'
SHALE & SILTSTONE A/A

CORE NO. 6 5315-36'
REC. 21', CUT 21'
5315-25 SANDSTONE, LT. GY-BRN, FRIABLE V/FN. GRN, SL. DOLO, ARGILL, POOR SORTING
SHALE, DK. CHOC. BRN, SILTY ARGILLACOUS.
5325-27', SANDSTONE, LT. GREEN, FRIAPLE V/FN. GRN, GLAUC, WELL SORTED.
SHALE, A/A
5327-36, SANDSTONE, LT. GREEN FRIABLE, V/FN GRN, WELL SRTD, V/GLAUC. SL. MICAC.
SHALE A/A
BEDDING, FLAT DIPPING

5370-5580'
SHALE, DK. BRN, SILTY A/A. ALSO CAVINGS.
SANDSTONE, LT GY.-GREEN BRN, V/FN. GRN DOLO. IN PART. GLAUC.

5580-5720'
SHALE, PREDOM. A/A.
SILTSTONE, DK-GY-BRN, ARGILL, VF SDY. DOLOM.
[illegible] ARGILL, SLI CALC, VF-F GR, FRIABLE.

CORE No. 7
5620-5650' REC. 23'
SILTSTONE, LT GY-DK GY BRN, VF SDY IN PART, SLI ARGILL SLI MICA, SLI PYR. CARBN, SOFT-FRIABLE

5720-6230'
SHALE & SILTSTONE A/A
COAL, BLK, BRITTLE, HD.
SANDSTONE, LOOSE, CLEAR-MILKY, V CRSE GR-PEBBLY, SUB-RD TO RD.
SANDSTONE, WH-BUFF, VF GR, ARGILL, WH CLAY MATRIX IN PART

CORE No. 8
5905-5920' REC. 14'
SILTSTONE, LT GY-BUFF, ARGILL, SDY IN PART, SLI MICA. THIN BANDS OF DK BRN - BLK SHALE, CARB, MICA, SILTY.
SANDSTONE, WH-LT GY F-V CRSE GR, PEBBLY SUB-ANG TO RNDED, CARB, WH CLAY MATRIX.

SLI MICA,SLI PYR.
CARBN,SOFT-FRIABLE
5720-6230'
SHALE&SILTSTONE A/A
COAL,BLK,BRITTLE,
HD.
SANDSTONE,LOOSE,
CLEAR-MILKY,V CRSE
GR-PEBBLY,SUB-RD
TO RD.
SANDSTONE,WH-BUFF,
VF GR,ARGILL,WH
CLAY MATRIX IN PART
CORE No.8
5905-5920' Rec.14'
SILTSTONE,LT GY-
BUFF,ARGILL,SDY IN
PART,SLI MICA.THIN
BANDS OF DK BRN -
BLK SHALE,CARB,
MICA,SILTY.
SANDSTONE,WH-LT GY
F-V CRSE GR,PEBBLY
SUB-ANG TO RNDED,
CARB,WH CLAY
MATRIX.
MUD DATA.
0300 Hrs - 5920'
W =10.7 APV=22
V =44 PV =17
WL=8.4 YD =10
CK=2 GEL=2/4
PH=9.5 ALK=0.2
Ca=240 NaCL=2900
Sd=1% RMF=1.26
AT 76°F
NaCL DRILL.WATER=
910 PPM.
CARBIDE CHECK.
Depth =6030'
Carbide =5 ozs.
Hot wire =24 units
P.H.D. =58 units
Lag =4622strk.
MUD DATA.
0400 Hrs - 6238'
W =10.8 APV=15.5
V =45 PV =13
WL=9.3 YD =5
CK=2 GEL=1/7
PH=9.6 ALK=0.15
Ca=200 NaCL=2800
Sd=1% RMF=1.62
AT 72°F
NaCL DRILL.WATER=
600 PPM.
6230-6750'
SHALE,DK BRN-BRN,
SILTY,MICA,CARBN,
SLI CALC,PYRITIC.
SANDSTONE,WH-LT GY
VF-F GR,ANG-SUBANG
WH CLAY MATRIX,SLI
DOLOM.
SANDSTONE,WH-CLEAR
UNCONS,CRSE-MED GR
SUBANG-SUBRNDED.
COAL,BLK,BRITTLE,
HD.
DOLOMITE,BRN,
ARGILL,MICRITIC,
HD,DENSE.
CORE No. 9
6420-6442' Rec.14'
Run 1 cut 9' Rec.2.8'
Run2 cut 13' Rec.11'
INTERBEDDED SHALE
AND SANDSTONE.
SANDSTONE,LT GY-
BRN,VF GR,SUBANG-
SUBRNDED,CARB,WH
CLAY MATRIX.AT
6433.5' SANDSTONE,
LT GY-BRN,F-CRSE
GR,SUBANG-SUBRNDED
SHALE,DK GY-BRN,
CARB,W/OCC.THIN
LAMINEA OF LT GY
SILTSTONE.DOLOMITE
AT 6421,BRN,MICRI-
TIC.No APP.DIP.
MUD DATA.
1115 Hrs - 6580'
W = 10.9 APV=21
V = 49 PV = 18
WL=7.7 YD =6
CK=2 GEL=1/5
PH=9.7 ALK=0.3
Ca=200 NaCL=3747
Sd=0.75% RMF=1.22
AT 75°F
NaCL DRILL.WATER=
900 PPM.
MUD DATA.
1645 Hrs - 6740'
W =10.8 APV=27
V =46 PV =23
WL=9.1 YD =8
CK=2 GEL=5/13
PH=9.3 ALK=0.08
Ca=200 NaCL=2700
Sd=1.5% RMF=1.21
AT 78°F
NaCL DRILLING WAT-
ER = 900 PPM.
6750-7040'
SANDSTONE,LT GY,
WH-CLEAR,UNCONS
QUARTZ,MED-CRSE GR
SUBANG-SUBRNDED,
FAIRLY WELL SRTD,
SLI CALC.IN PART.
SLI ODOR AT TOP.
SHALE,BRN,SLI SILTY
CARBN.
COAL,BLK.
CORE No.10
6903-6933' Rec.30'
To 6920' SHALE,LT
GY-BRN,CARBN,SLI
DOLOM,OCC.THIN
BANDS OF COAL,SOME
SLICKENSIDES.
To 6930' SANDSTONE,
LT GY,F-MED,OCC
CRSE GR,SUG-ANG-SUB
RNDED,WH CLAY MTX.
To 6933' INTERBD
SHALE AND SANDST.
A/A.
7040-7320'
SANDSTONE,WH-CLEAR,
CRSE GR,UNCONS.OCC
F-MED GR,ANG-SUB-
ANG,MOD SORTED,WH
CLAY MATRIX,MED HD-
FRIABLE,DOLOM IN
PART.
SHALE,BRN-MED GY,
CARBN,SILTY.
SILTSTONE,BRN,SLI
SANDY,W/FEW CLAY
NODULES,DOLOM,HD.
TR DOLOMITE,SANDY-
SILTY,MICRITIC,HD.
CARBIDE-CHECK
Depth = 7143'
Carbide = 3 onz.
Hot Wire=23 units.
P.H.D. =17 units.
Lag =5440 stks.
MUD DATA.
2200 Hrs - 7207'
W =10.8 APV=16
V = 44 PV =15
WL=7.0 YD =2
CK=2 GEL=1/4
PH=9.3 ALK=0.17
Ca=120 NaCL=2225
Sd=0.25% RMF=1.42
AT 80°F
NaCL DRILL.WATER=
820 PPM.
7320-7390'
SHALE,GY-BRN,SILTY
CARB,PYRITIC,MICAC.
SANDSTONE,GY-WH,
FN-MED.GRN,ANG-SUB
RND,MOD.SRTNG,CLAY
MTX.
SILTSTONE,LT.GY,
BUFF,SANDY IN PART
SANDSTONE,A/A,W/
GY-WH,CRSE.GRN,
SUB ANG-RND,QTZOSE
CORE No.11
7433-7453' Rec.20'
THINLY LAM.SHALE &
SANDSTONE.
SHALE,MED GY,SILTY
IN PART,VF SDY,
MICA,CARBON.
SANDSTONE,WH GY-
BUFF,CRSE-GRAN &
F-MED GR,SUBANG-
RNDED,MICA,WH CLAY
MATRIX,MED HD.
7442-50'
CONGLOMERATE,SDY
W/QUARTZ,FELDSPAR&
MINOR SHALE PEBBLES
MUD DATA.
1940 Hrs - 7434'
W =10.8 APV=12
V =45 PV =13
WL=6.5 YD =0
CK=2 GEL=0/1
PH=9.5 ALK=0.24
Ca=120 NaCL=2342
Sd=1% RMF=1.17
AT 78°F
MUD DATA.
2230 Hrs - 7780'
W =10.9 APV=22.5
V =46 PV =19
WL=7.8 YD =7
CK=2 GEL=3/11
PH=9.7 ALK=0.4
Ca=120 NaCL=2342
Sd=1% RMF=1.25
AT 81°F
NaCL DRILL.WATER=
900 PPM
7430-7520'
SANDSTONE&SILTST.
A/A. SHALE A/A W/
OCC TR DK GY LITH.
GR (VOLCANIC?)
7520-7760'
SHALE,DK BRN-GY BRN
OCC BUFF,SILTY-SDY,
CALC,FOSSIL.
SANDSTONE,WH-LT GY
VF-MED GR,SUBANG-
SUBRNDED,POOR SRTD
SANDSTONE,UNCONS.
CRSE-GRAN,SUBANG-
RNDED,TR WH CLAY
MATRIX,OCC DK GY
CHERT PEBBLES.
7760-7850'
SANDSTONE,A/A. W/
MINOR DK GY MOTTLED
ANG-RNDED META-
QUARTZITE GRS,V HD
DENSE.
SHALE,A/A.
7850-
QUARTZITE,DK GY-LT
GY MOTTLED,ANG
SPLINTERS,DENSE,HD
FINE-CRYSTALLINE.
MUD DATA.
0500 Hrs - 7976'
W =10.8 APV=18.5
V =53 PV =17
WL=7.8 YD =3
CK=2 GEL=1/3
PH=9.4 ALK=0.30
Ca=600 NaCL=2107
Sd=0.5% RMF=1.36
AT 77°F
NaCL DRILL.WATER=
1050 PPM.
7900-7978'
QUARTZITE,A/A
SANDSTONE,DK GY-
BLK,SILTY-VF GR,
SET IN SECONDARY
CEMENT.
SHALE,BLK,CARBN?.
CORE No.12
7877-7892' Rec.NIL.
CORE No.13
7903-7914' Rec.5'
THINLY BANDED AND
LAMINATED QUARTZITE
SHALE,SILICIFIED
BLK,SILTSTONE,BLK
AND SANDSTONE,BLK,
VF GR,SILTY.
WEAKLY METAMORPHO-
SED(CONTACT),VERY
VUGGY SEQUENCE.
TOTAL DEPTH 7978' (DRILLER)
CORE No. 14
7974-7978' Rec.4'
SHALE,BLK,DENSE,HD,METAMORPHO-
SED.QUARTZITE,LT-DK GY,VF GR,
V HD.TR CALCITE,TR PYRITE.
DIP 40°.
5 cm