6-7

STRATIGRAPHIC LOG

PETRO-TECH PERUANA S.A.
NEGRITOS-PERU

WELL: OFICIAL: Z-2B-21-005-D-L06
PETRO-TECH: L06-14

SERVICIOS PETROGEOLOGICOS

GENERAL DATA

AREA LOBITOS OFFSHORE
WELLS FOR CORRELATION L06-20, L07-16 L07-15, L06-19
REMARKS MAX. ANGLE 26° DIR. OF DEVIATED WELL: S 10 W
PALINOLOGIST R. LEVAGGI A.
PALEONTOLOGIST C. MORALES
WELL SITE GEOLOGIST

WORKING FILE
GEOSCIENCES

PROGNOSIS TOPS

BY: ______

TALARA	FROM	SEA BOTTOM
CHACRA	2 200'	2 050'
RIO BRAVO	4 200'	3 900'
PALEGREDA	4 800'	4 450'
MOGOLLON	5 400'	5 050'
SAN CRISTOBAL	5 800'	5 450'
BASAL SALINA	6 550'	6 050'
T.D.	7 300'	6 750'

SYMBOLS

- ▨ RECENT WEATHERED ZONE
- ▤ SHALE
- ▦ SILTSTONE
- ░ SANDSTONE
- ░ SAND
- ○ CONGLOMERATE
- ◿ NO SAMPLES
- ▧ CEMENT
- ▦ LIMESTONE

- ⊟ SIDE WALL CORE
- -o- PALINOLOGICAL DITCH SAMPLE
- Z DOLOMITE
- ɤ GLAUCONITE
- □ CUBIC PYRITE
- ⊙ MICROSPHERIC PYRITE
- ▥ SLICKENSIDES
- ◇ CALCITE
- ■ ANTHRACITIC CARBON
- ⧄ LIGNITE CARBON
- ⊛ SHELL FRAGMENTS
- ▨ GYPSUM
- ↓ CAVING

FLUORESCENCE

......	5 %	TRACES
— — —	15 %	VERY LITTLE
— — —	30 %	LITTLE
——	50 %	RARE
——	75 %	GOOD
▬▬	100 %	VERY GOOD

PALEO ABUNDANCE

●	> 30	VERY ABUNDANT
⊗	21 - 30	ABUNDANT
×	11 - 20	COMMON
/	6 - 10	RARE
•	0 - 5	VERY RARE

FINAL STRATIGRAPHY

PALEONTOLOGY BY______ PALINOLOGY BY______

PETRO—TECH PERUANA S.A.
GEOLOGIST WELL FILE

WELL SITE FILE

DATE DECEMBER 1994

FORMATION TOPS CORRECTED FROM ELECTRICAL LOGS

FORAMS

SPUD DATE: Nov. 11, 1994

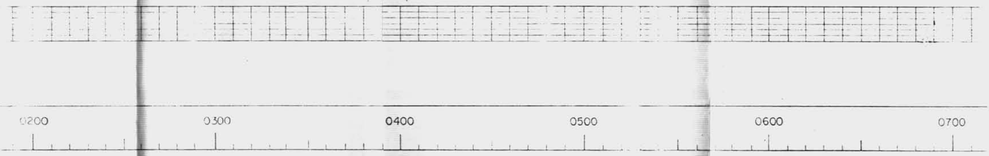
PALINOLOGY

FLUORESCENCE

LITHOLOGY

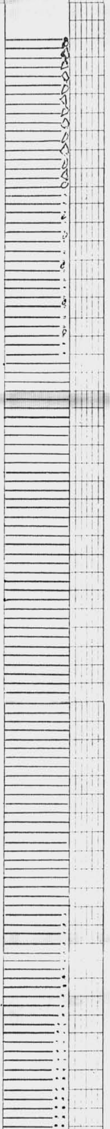
DEPTH

LITHOLOGICAL DESCRIPTION

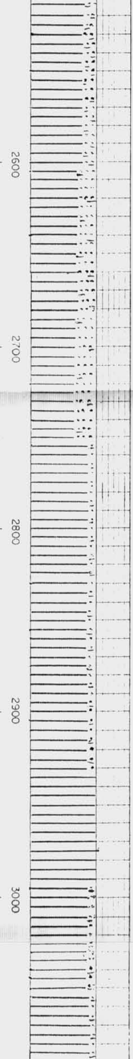


0800 0900 1000 1100 1200 1300

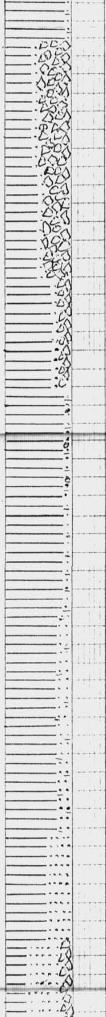
1400 1500 1600 1700 1800 19



	00	
SH. OCH BRN, FRM, RG, IN p^t DOL, SL MIC CARB, CALC, SB BLKY, & OCC GY. SD. HY, HY WH, C, OCC VC QTZ ANG/SANG.		DESINOBULIMINA EXPANSA. **TEREBRATULA FM.** ◇
SH. OCH BRN, MOD FRM to FRM, RG, IN p^t DOL, CALC, SB BLKY. SS. WH to LT GY, F OCC M, QTZ SA-SR, PR SRTD, FRI, IN p^t SLTY MTX W/GN GRAIN INC, WH CALC CMT.	2000	VALVULINERIA SUTURALIS. ◇ ⊙
SH. OCH BRN, MOD FRM to FRM, RG, IN p^t DOL, CALC, SB BLKY.	2100	ROBULUS MIDWAYENSIS. VALVULINERIA COMPRESSA. **CHACRA FM.** ◇ ⊙
SH. OCH BRN, MOD FRM to FRM, RG, IN p^t DOL, CALC, SB BLKY, OCC GY, MOD FRM, MIC MIC, SL CALC.	2200	VALVULINERIA SUTURALIS / VALVULINERIA COMPRESSA. ROBULUS MIDWAYENSIS. VIRGULINA RESTINENSIS. **CHACRA FAUNA P** ◇ ⊙
SH. OCH BRN, MOD FRM to FRM, IN p^t DOL, RG, SL MIC CARB, CALC, SB BLKY.		VALVULINERIA SUTURALIS "T" X FRONDICULARIA CAPITANA (FRAG.) ROBULUS MIDWAYENSIS. VALVULINERIA SUTURALIS. VALVULINERIA COMPRESSA. **CHACRA FAUNA C** ⊗ ◇
SH. OCH BRN, MOD FRM to FRM, IN p^t DOL, RG, SL MIC CARB, CALC, SB BLKY.	2300	VALVULINERIA SUTURALIS "T" X DESINOBULIMINA EXPANSA. ROBULUS MULTISEPTAE (BROKEN) **CHACRA FAUNA C** ⊗ ◇
SH. OCH BRN, MOD FRM to FRM, IN p^t DOL, RG, SL MIC CARB, OCC PY, CALC, SB BLKY.		VALVULINERIA SUTURALIS "T" X ROBULUS MULTISEPTAE. DESINOBULIMINA EXPANSA (BROKEN) / VALVULINERIA COMPRESSA ⊗ VIRGULINA RESTINENSIS X BULIMINA DEBILIS PY. **CHACRA FAUNA ABDT.** ⊗ ◇ ⊙
SH. OCH BRN SAME AS ABOVE SS. WH'SH, VF-F, FRI, SLTY MTX, WH CALC CMT.	2400	VALVULINERIA SUTURALIS "T" / DESINOBULIMINA EXPANSA X VALVULINERIA COMPRESSA ⊗ VIRGULINA RESTINENSIS ⊗ GLOBIGERINA PSEUDOBULLOIDES / **CHACRA FAUNA ABDT.** ● X ◇
SH. OCH BRN, MOD FRM to FRM, IN p^t DOL, SL MIC CARB, CALC, SB BLKY. SS. WH'SH to GY WH'SH, VF-F, SL FRI to HD, WH CALC CMT	2500	VALVULINERIA SUTURALIS "T" / REOPHAX. VALVULINERIA COMPRESSA ⊗ DESINOBULIMINA EXPANSA. ROBULUS MULTISEPTAE / VIRGULINA RESTINENSIS ● GLOBIGERINA PSEUDOBULLOIDES / **CHACRA FAUNA ABDT.** ⊗ ◇ X ⊙ ⊗



SH. OCH BRN, MOD FRM to FRM, IN pt DOL, CALC, SL MIC CARB, SB BLKY. Ss. Gy WH'sh, VF to SLTY, SL FRI to Hd, IN pt MIC, WH CALC CMT.	REOPHAX. TEETH FISH. DESINOBULIMINA EXPANSA. VALVULINERIA COMPRESSA X VIRGULINA RESTINENSIS X ROBULUS MULTISEPTAE / GLOBIGERINA PSEUDOBULLOIDES / CHACRA FAUNA C
SH. OCH BRN, MOD FRM to FRM, SL MIC CARB, CALC, SB BLKY. Ss. Gy WH'sh, VF to SLTY, SL FRI to Hd, IN pt MIC, SLTY MTX, WH CALC CMT.	REOPHAX. VALVULINERIA SUTURALIS "T". VALVULINERIA COMPRESSA / VIRGULINA RESTINENSIS / GLOBIGERINA PSEUDOBULLOIDES - CHACRA FAUNA P
SH. OCH BRN, SAME AS ABOVE. Ss. Gy WH'sh, VF, SLTY MTX, SL FRI to Hd, MIC CARB, w/ Gn MIN INC, WH CALC CMT.	REOPHAX. VALVULINERIA COMPRESSA / VIRGULINA RESTINENSIS. MULINIA Sp. CHACRA FAUNA P
SH. OCH BRN, MOD FRM to FRM, SL MIC CARB, CALC, SB BLKY. Ss Gy WH'sh, VF SAME AS ABOVE	VALVULINERIA SUTURALIS "T". REOPHAX. DESINOBULIMINA EXPANSA. VALVULINERIA COMPRESSA / VIRGULINA RESTINENSIS / CHACRA FAUNA P
SH. OCH BRN, MOD FRM, to FRM, SL MIC CARB, CALC, SB BLKY. Ss. Gy WH'sh, VF to SLTY.	VALVULINERIA SUTURALIS "T". ROBULUS MULTISEPTAE. VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. CHACRA FAUNA Vp
SH. OCH BRN, MOD FRM to FRM, SL MIC CARB, CALC, SB BLKY. Ss Gy WH'sh, VF to SLTY SL FRI to Hd, MIC MIC, WH CALC CMT	MICROGASTROPOD Sp. REOPHAX. VALVULINERIA COMPRESSA - VIRGULINA RESTINENSIS. VALVULINERIA PALEGREDENSIS. CHACRA FAUNA Vp + Pg RWK TRC
SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKY.	VALVULINERIA SUTURALIS "T". MICROGASTROPOD Sp. VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. TURRITELLA Sp. ROBULUS MIDWAYENSIS. ROBULUS YOUNGQUISTI. CHACRA FAUNA Vp + Pg RWK TRC
SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKY. Ss Gy SL WH'sh, VF IN pt SLTY, SL FRI to Hd, WH CALC CMT	TURRITELLA Sp py. VALVULINERIA SUTURALIS "T". MICROGASTROPOD Sp. VIRGULINA RESTINENSIS. CHACRA FAUNA Vp + Pg RWK P
	ROBULUS YOUNGQUISTI / CHILOSTOMELLA POLSONI, py. VALVULINERIA PALEGREDENSIS py.
SH. OCH BRN, MOD FRM to FRM, SL MIC CARB, CALC, SB BLKY.	MULINIA Sp. ROBULUS YOUNGQUISTI / NODOSARIA Sp. CHILOSTOMELLA POLSONI, py BULIMINA DEBILIS py



SS. Gy'sh, VF to SLTY.	3100	VALVULINERIA COMPRESSA. CHACRA FAUNA TRC + Pg RWK p ◇ ⊙ γ
SH. OCH BRN, SAME AS ABOVE. SS. WH, IN pt CRM'sh, F OCC M, SL FRI to Hd, ABDT WH CALC CMT. SD. Hy, HyWH, M-C QTZ SA & FRAG Gy, Gy		ROBULUS YOUNGQUISTI. PSEUDOGLANDULINA MANIFESTA. CHACRA FAUNA TRC + Pg RWK TRC VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. **RIO BRAVO FM.** ⊙ ◇ @ γ
SH. OCH BRN, MOD FRM to FRM, SL MIC CARB, CALC, SB BLKY. SS WH, IN pt CRM'sh SD. Hy, HyWH, M-C & FRAG, DK, Gy.	3200	MULINIA Sp. ROBULUS YOUNGQUISTI CHACRA FAUNA VP + Pg RWK TRC VALVULINERIA SUTURALIS "T". REOPHAX. VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. γ ◇ @ ⊙
SH. OCH BRN, MOD FRM to FRM, IN pt DOL, CALC, SL MIC CARB, SB BLKY. SS. WH, F OCC M. SD. HyWH, F-M & FRAG DK.	3300	REOPHAX. GASTROPOD py. VIRGULINA RESTINENSIS. CHACRA FAUNA VP + Pg RWK VP BATHYSIPHON EOCENICUS BLK. PSEUDOGLANDULINA MANIFESTA. TROCHAMMINA GLOBIGERINIFORMIS. CHILOSTOMELLA POLSONI py. VALVULINERIA PALEGREDENSIS. ◇ ⊙ @ γ
SH. OCH BRN, MOD FRM to FRM, IN pt DOL, CALC, SL MIC CARB, SB BLKY. SS. LT Gy to Gy'sh, VF to SLTY		VALVULINERIA SUTURALIS "T". VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. CHACRA FAUNA VP + Pg RWK VP MULINIA Sp. BATHYSIPHON EOCENICUS BLK. PSEUDOGLANDULINA MANIFESTA. ALLOMORPHINA py. ◇ ⊙ γ
SH. OCH BRN, MOD FRM to FRM, IN pt DOL, CALC, SL MIC CARB, SB BLKY. SS. LT Gy to Gy'sh, VF to SLTY.	3400	VALVULINERIA SUTURALIS "T". REOPHAX. VALVULINERIA COMPRESSA. CHACRA FAUNA VP + Pg RWK p ROBULUS YOUNGQUISTI. BATHYSIPHON EOCENICUS BLK / EPISTOMINA EOCENICA. PSEUDOGLANDULINA MANIFESTA / NODOSARIA AFFINIS. ◇ ⊙ γ
SH. OCH BRN, SAME AS ABOVE. SS. LT Gy to Gy'sh, VF, VF to SLTY, SL FRI to Hd, IN pt MIC, CARB, w/ Gn MIN INC.		VALVULINERIA SUTURALIS "T". REOPHAX. VALVULINERIA COMPRESSA X VIRGULINA RESTINENSIS X CHACRA C + Pg RWK C MULINIA Sp. GASTROPOD Sp. BATHYSIPHON EOCENICUS BLK X EPISTOMINA EOCENICA. ROBULUS YOUNGQUISTI CYCLAMMINA SIMIENSIS. CHILOSTOMELLA POLSONI, py. ◇ ⊙ γ
SH. OCH BRN, FRM, RG, IN pt DOL, SL MIC CARB, CALC, SB BLKY. SS. LT Gy to Gy'sh, VF to SLTY, Hd, DRTY.	3500	VALVULINERIA SUTURALIS "T". REOPHAX / ECHINOID SPINE. GASTROPOD Sp. VALVULINERIA COMPRESSA / VIRGULINA RESTINENSIS / MULINIA Sp. PYRITIZED FAUNA / BATHYSIPHON EOCENICUS BLK / CYCLAMMINA SIMIENSIS / CHACRA p + Pg RWK ABDT. NODOSARIA AFFINIS. ROBULUS YOUNGQUISTI / VERNEUILINA POLYSTROPHA. VALVULINERIA PALEGREDENSIS ⊗ ◇ ⊙ γ
SH. OCH BRN, SAME AS ABOVE. SS. Gy SL DK, F-M QTZ. Hd, GLAUC, & LT Gy, VF, SL Hd, SLTY MTX, WH CALC CMT.	3600	VALVULINERIA SUTURALIS "T". VALVULINERIA COMPRESSA / VIRGULINA RESTINENSIS / BATHYSIPHON EOCENICUS BLK Ⓧ CYCLAMMINA SIMIENSIS X CHACRA p + Pg RWK ABDT. NODOSARIA AFFINIS. ROBULUS YOUNGQUISTI. VALVULINERIA PALEGREDENSIS X VERNEUILINA POLYSTROPHA. PSEUDOGLANDULINA MANIFESTA. ◇ ⊙ γ
SH. OCH BRN, SAME AS ABOVE. SS. WH, F-M OCC QTZ SA-SR, FRI to Hd, w/ DK		VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS MULINIA Sp. CYCLAMMINA SIMIENSIS. NODOSARIA AFFINIS. BATHYSIPHON EOCENICUS BLK/BRN / VALVULINERIA PALEGREDENSIS /

GRAINS INC, ABDT. WH CALC CMT.
SD. HyWH, C QTZ SA-SR.

SH. OCH BRN, AS ABOVE
SS. WH, F-M occ C QTZ SA-SR, FRI to Hd, W/DK, Gy, GRAINS INC, ABDT. WH CALC CMT.
SD. Hy, HyWH, MLKyWH, C.

SS. WH, SAME AS ABOVE.
SD. Hy, HyWH, MLKyWH C-VC QTZ SA-SR, & FRAG. DK, Gy.

SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKy.
SS WH AS ABOVE & LT Gy VF-F, SL Hd to Hd, SLTY MTX IN pt GLAUC, WH CALC CMT.
SD C-VC & CGL DK, Gy.

SS WH, CRM'sh, F, F-M, FRI & SL Hd, ABDT WH CALC CMT.
SD. Hy, HyWH, C occ VC

SS. WH, F-M QTZ SA-SR, FRI to SL Hd, W/DK GRAINS INC, WH CALC CMT ABDT.
SD. Hy, HyWH, C-VC QTZ SA-SR & FRAG. DK.

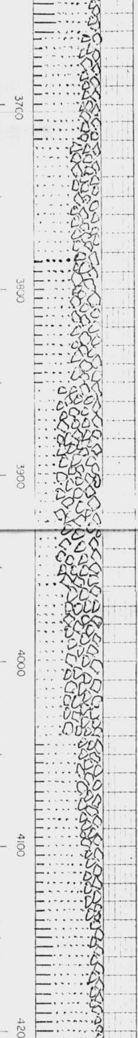
SS. WH & LT Gy, VF-F, SL FRI, IN pt SLTY MTX, IN pt MIC, Py, WH CALC CMT.
SD. Hy, HyWH, C-VC QTZ SA-SR & FRAG. DK SR

SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKy & OCC Gy.
SS. WH & LT Gy VF-F.
SD. Hy, HyWH, C-VC & FRAG. DK, Gy.

SH. OCH BRN & OCC Gy.
SS. LT Gy, VF-F, SLTY MTX, SL Hd, MIC, CALC CMT.
SD Hy, HyWH & FRAG. DK.

SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKy & OCC Gy.
SS. LT Gy, VF-F, SLTY MTX.

SH. OCH BRN, AS ABOVE



CHACRA FAUNA Vp + Pg RWK p

VALVULINERIA SUTURALIS "T".
VALVULINERIA COMPRESSA.
VIRGULINA RESTINENSIS.
BATHYSIPHON EOCENICUS BRN.
CYCLAMMINA SIMIENSIS.
VALVULINERIA PALEGREDENSIS.
CHACRA FAUNA TRC + Pg RWK Vp

VALVULINERIA COMPRESSA.
VIRGULINA RESTINENSIS.
BATHYSIPHON EOCENICUS BRN.
CYCLAMMINA SIMIENSIS.
VALVULINERIA PALEGREDENSIS.
CHACRA FAUNA TRC + Pg RWK Vp

VALVULINERIA SUTURALIS "T".
VIRGULINA RESTINENSIS.
BATHYSIPHON EOCENICUS BRN.
CYCLAMMINA SIMIENSIS.
CHACRA FAUNA TRC + Pg RWK Vp

BATHYSIPHON EOCENICUS BRN.
VALVULINERIA PALEGREDENSIS.
Pg RWK FAUNA TRC

BARREN

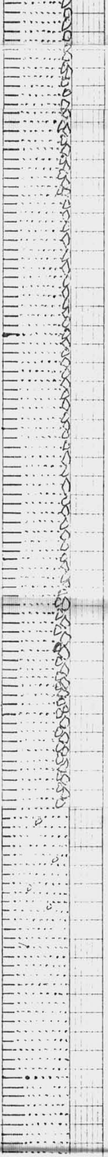
BARREN

MULINIA sp.
BATHYSIPHON EOCENICUS BRN.
CYCLAMMINA SIMIENSIS.
ROBULUS YOUNGQUISTI.
VIRGULINA RESTINENSIS.
CHACRA FAUNA TRC + Pg RWK Vp

VALVULINERIA COMPRESSA.
VIRGULINA RESTINENSIS.
BATHYSIPHON EOCENICUS BRN.
VERNEUILINA POLYSTROPHA.
CHILOSTOMELLA POLSONI py.
CHACRA FAUNA TRC + Pg RWK Vp

VALVULINERIA SUTURALIS "T",
GASTROPOD sp. ECHINOID SPINE.
FRONDICULARIA CAPITANA.
VALVULINERIA COMPRESSA. VIRG. RESTINENSIS.
CYCLAMMINA SIMIENSIS.
BATHYSIPHON EOCENICUS BRN.
ROBULUS YOUNGQUISTI.
MULINIA sp.
VALVULINERIA PALEGREDENSIS.
CHACRA FAUNA Vp + Pg RWK Vp

MULINIA sp. GASTROPOD sp.
CYCLAMMINA SIMIENSIS.



SS. LT Gy to Gy & WH, VF-F, SL FRI to Hd, IN pT SLTY MTX, IN pT MIC, WH CALC CMT.	0	CHACRA FAUNA TRC + Pg RWK TRC VALVULINERIA COMPRESSA. [illegible] BULIMINA EXPANSA (BAD PRESERVED)
SH. OCH BRN, AS ABOVE SS. WH, LT Gy to Gy, F-M, VF-F, SL FRI to Hd, IN pT SLTY MTX, IN pT MIC, WH CALC CMT. SD. Hy WH & FRAG. DK.	4300	WOOD FOSSIL. VALVULINERIA SUTURALIS "T". VIRGULINA RESTINENSIS. VALVULINERIA PALEGREDENSIS. CHACRA FAUNA TRC + Pg RWK TRC
SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKY. SS. LT Gy to Gy, VF-F, SLTY MTX, SL FRI to Hd, MIC, WH CALC CMT.		WOOD FOSSIL. TURRITELLA Sp. VALVULINERIA SUTURALIS "T". REOPHAX. VIRGULINA RESTINENSIS. BATHYSIPHON EOCENICUS BRN. CHACRA FAUNA TRC + Pg RWK TRC
SH. OCH BRN, SAME AS ABOVE. SS. LT Gy to Gy, VF-F, SLTY MTX, SL FRI to Hd, MIC, WH CALC CMT. & WH.	4400	BARREN
SH. OCH BRN, FRM, IN pT DOL, SL MIC CARB, CALC, SB BLKY. SS. LT Gy to Gy & WH. SD. Hy WH & FRAG. DK.	4500	VALVULINERIA SUTURALIS "T". VIRGULINA RESTINENSIS. BATHYSIPHON EOCENICUS BRN. VALVULINERIA PALEGREDENSIS. CHACRA FAUNA TRC + Pg RWK TRC
SH. OCH BRN, AS ABOVE SS. LT Gy to Gy & WH.		CHACRA FAUNA TRC + Pg RWK TRC
SH. OCH BRN, SAME AS ABOVE. SS. WH, F-M, QTZ SD, FRI to SL Hd, ABDT WH CALC CMT & LT Gy to Gy, VF-F. SD. Hy, Hy WH & FRAG DK Gy		REOPHAX. VALVULINERIA SUTURALIS "T". VALVULINERIA COMPRESSA. VIRGULINA RESTINENSIS. EPISTOMINA EOCENICA. CHACRA FAUNA Vp + Pg RWK TRC
SH. OCH BRN, FRM, IN pT DOL, SL MIC CARB, CALC, SB BLKY. SS. LT Gy to Gy & WH SAME AS ABOVE SD. Hy, Hy WH, Occ Vc.	4600	VIRGULINA RESTINENSIS. CHACRA FAUNA TRC + Pg RWK TRC CYCLAMMINA SIMIENSIS. VALVULINERIA PALEGREDENSIS.
SH. OCH BRN, SAME AS ABOVE. & Gy. SS. WH, F, F-M, SL FRI, SL MIC, w/ Gy FRAG INC, WH CALC CMT. & LT Gy, VF-F. IN pT SLTY MTX, MIC.	4700	BARREN
SH. OCH BRN, AS ABOVE & Gy, MOD FRM, V MIC MIC, MIC CARB, NON CALC, SB BLKY to SB PLTY. SS. LT Gy to Gy, VF-F, IN pT SLTY MTX, MIC, IN pT w/ Gy GRAINS INC, CALC CMT.		BARREN
SH. OCH BRN, FRM, IN pt DOL, SL MIC CARB, CALC, SB BLKY & Gy. SS. LT Gy to Gy, VF-F	4800	CYCLAMMINA SIMIENSIS. NODOSARIA VERTEBRALIS. BULIMINA DEBILIS py. VIRGULINA RESTINENSIS. CHACRA FAUNA TRC + Pg RWK TRC

IN PT SLTY.

SH. Gy, MOD FRM, MIC MIC, MIC CARB, NONCALC, SB BLKY to SB PLTY & BRN, SAME AS ABOVE.
SS. WH & LT Gy to Gy, VF-F, SL FRI to SL Hd.

SH. Gy & BRN, SAME AS ABOVE.
SS. LT Gy to Gy, VF-F.

SH. OCH BRN, FRM, MIC MIC, SL MIC CARB, IN PT DOL, CALC, SB BLKY & Gy, MOD FRM to FRM, V MIC MIC, NONCALC, SB BLKY to SB PLTY.
SS. LT Gy to Gy, VF-F to SLTY

SH. OCH BRN, FRM, MIC MIC, SL MIC CARB, IN PT DOL, CALC, SB BLKY & OCC Gy.
SS. LT Gy to Gy & WH, VF-F, IN PT SLTY, SL FRI to SL Hd, SLTY MTX, MIC, WH CALC CMT.

SH. OCH BRN, SAME AS ABOVE.
SS WH, WH Gy'sh to Gy, VF-F IN PT SLTY MTX, MIC, WH CALC CMT.
SD. Hy WH & FRAG Gy, Gn

SH. OCH BRN, FRM, OCC PY, IN PT DOL, CALC, SL MIC CARB, SB BLKY.
SS. WH Gy'sh to Gy, VF-F, SLTY MTX, MIC, WH CALC CMT.

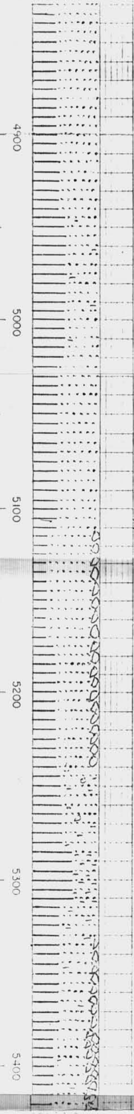
SH. OCH BRN, FRM, OCC PY, IN PT DOL, CALC, SL MIC CARB, SB BLKY.
SS WH Gy'sh to Gy.

SH. OCH BRN AS ABOVE & Gy, MOD FRM to FRM, IN PT SLTY, SL CALC, SB BLKY.

SS. Gy'sh WH, VF-F, SL FRI, IN PT SLTY MTX, WH CALC CMT

SH. BRN, FRM, MIC MIC, IN PT DOL, CALC, SB BLKY.
SS. Gy'sh WH, VF-F IN PT SLTY, SL FRI to Hd, MIC
SD. Hy WH, M OCC C Qtz SA-SR

SH. BRN, AS ABOVE & OCC DK Gy, MOD FRM, SLKY, NON CALC, SB PLTY,
SS. Gy'sh WH, VF-F, SL FRI to SL Hd, SLTY MTX, MIC, WH



5100'-5110'
SUB-ZONA
VIII C

CYCLAMMINA SIMIENSIS.
BATHYSIPHON EOCENICUS BRN.
ROBULUS YOUNGQUISTI.
PSEUDOGLANDULINA MANIFESTA.

VALVULINERIA SUTURALIS "T".
ECHINOID SPINE.
VIRGULINA RESTINENSIS.
VALVULINERIA COMPRESSA.

CHACRA FAUNA TRC + Pg RWK Vp

VALVULINERIA SUTURALIS "T".
VALVULINERIA COMPRESSA.
BATHYSIPHON EOCENICUS BRN.
ROBULUS YOUNGQUISTI.
TROCHAMMINA GLOBIGERINIFORMIS.
VALVULINERIA PALEGREDENSIS.

CHACRA Vp + Pg RWK Vp

VALVULINERIA SUTURALIS "T".
VALVULINERIA COMPRESSA.
VIRGULINA RESTINENSIS.

BATHYSIPHON EOCENICUS BRN.

CHACRA FAUNA Vp + Pg RWK TRC

VALVULINERIA COMPRESSA.
VIRGULINA RESTINENSIS.

CHACRA FAUNA TRC + Pg RWK TRC

CYCLAMMINA SIMIENSIS.
BATHYSIPHON EOCENICUS BRN.

BARREN

BARREN

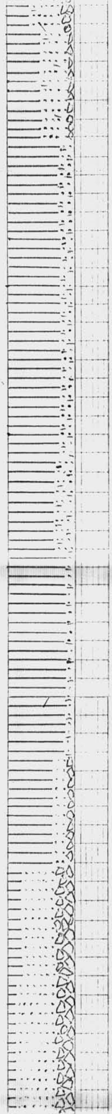
BARREN

BARREN

BARREN

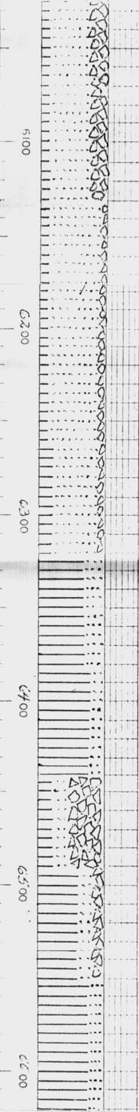
BARREN

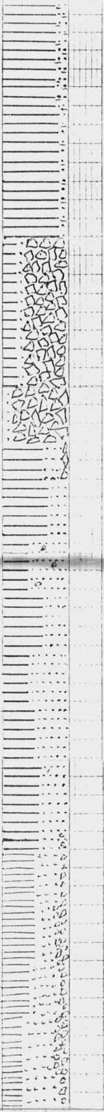
BATHYSIPHON EOCENICUS BLK /
CYCLAMMINA SIMIENSIS.
NODOSARIA AFFINIS.
TROCHAMMINA ASAGAIENSIS.
TROCHAMMINA GLOBIGERINIFORMIS.
CHILOSTOMELLA POLSONI. PY.



CALC CMT. SD. HyWH m QTZ SA-SR FRAG		**PALEGREDA FM.**
SH. BRN, FRM, IN pt DOL, MIC MIC, CALC, SB BLKY. SS. Gy'sh WH, VF-F, SL FRI to Hd, SLTY MTX, MIC, WH CALC CMT. SD. HyWH, F-M QTZ SA-SR & FRAG Gy	5500	BATHYSIPHON EOCENICUS BLK. NODOSARIA AFFINIS. TROCHAMMINA GLOBIGERINIFORMIS. MICROGASTROPOD sp. Pg FAUNA Vp
SH. BRN, AS ABOVE & OCC GyBRN, MOD FRM, SLKY, NON CALC, SB PLTY. SS. Gy'sh WH to Gy, VF, SLTY MTX, CARB, CALC CMT.		BATHYSIPHON EOCENICUS BLK. ROBULUS YOUNGQUISTI. CYCLAMMINA SIMIENSIS. OSTRACOD sp. TROCHAMMINA GLOBIGERINIFORMIS. CHILOSTOMELLA POLSONI py. VALVULINERIA PALEGREDENSIS. Pg FAUNA Vp
SH. BRN, to OCH BRN, FRM, IN pt DOL, OCC py, CALC, SB BLKY. SS. Gy'sh WH to Gy, VF, SLTY MTX, MIC, CALC CMT.	5600	MULINIA sp. CYCLAMMINA SIMIENSIS. NODOSARIA AFFINIS. BULIMINA DEBILIS py. Pg FAUNA TRC
SH. BRN to OCH BRN, FRM, IN pt DOL, OCC py, CALC, SB BLKY. SS. Gy'sh WH to Gy.		MULINIA sp. BATHYSIPHON EOCENICUS BLK. TROCHAMMINA GLOBIGERINIFORMIS. VALVULINERIA PALEGREDENSIS. Pg FAUNA TRC
SH. BRN to OCH BRN, FRM, IN pt DOL, OCC py, CALC, SB BLKY. SS. Gy'sh WH to Gy, VF to SLTY, MIC, CALC CMT.	5700	ROBULUS sp. TROCHAMMINA GLOBIGERINIFORMIS. VALVULINERIA PALEGREDENSIS. Pg FAUNA TRC
SH. OCH BRN to BRN, FRM, IN pt DOL, OCC py, CALC, SB BLKY & OCC Gy. SS Gy'sh WH to Gy.		BATHYSIPHON EOCENICUS BLK. MULINIA sp. OSTRACOD sp. VALVULINERIA PALEGREDENSIS py. CHILOSTOMELLA POLSONI py. VALVULINERIA PALEGREDENSIS. Pg FAUNA VP
SH. BRN, AS ABOVE & OCC Gy, MOD FRM, V MIC MIC, NON CALC, SB BLKY to SB PLTY. SS. Gy'sh WH to Gy VF to SLTY, MIC, CALC CMT	5800	VALVULINERIA PALEGREDENSIS. Py FAUNA TRC
SH. BRN, AS ABOVE & SLDKGy, MOD FRM, V MIC MIC, OCC SLKY, NON CALC, SB BLKY to SB PLTY. SS. WH, F OCC M QTZ SA-SR, SD. HyWH, F-M QTZ SA-SR.		ROBULUS NAVARROENSIS. CHILOSTOMELLA POLSONI py. **MOGOLLON FM.**
SH. BRN & SL DK Gy. SS. WH'sh IN pt SL CRM'sh, VF-F OCC M, SL Hd, IN pt SLTY MTX, WH CALC CMT. SD. HyWH, C OCC VC & FRAG CGL Gy, DK SR.	5900	BARREN
SH. BRN & SL DK Gy. SS. WH'sh IN pt SL CRM'sh, VF-F OCC M, SL FRI to SL Hd, IN pt SLTY MTX, WH CALC CMT. SD. HyWH, M-C QTZ SA-SR & FRG. CGL Gy, DK.	6000	BARREN
SH. BRN & SL DK Gy.		

SS. WH'sh to Gy WH'sh, VF-F, SL FRI to SL Hd, SLTY MTX, WH CALC CMT. SD. Hy WH, OCC Gn, M-C OCC VC & FRAG, Gy, DK.	BARREN ⊗ ✕ ◊ ⊙ ⓦ
SH. BRN & SL DK Gy. SS. WH'sh to Gy WH'sh & WH, F-M QTZ SA-SR, FRI, WH CALC CMT. SD. Hy WH, OCC Gn, M-C & FRAG Gy, DK.	BARREN ⊗ ◊ ⊙ ⓦ △
SH. BRN & SL DK Gy. SS. WH'sh to Gy WH'sh & WH to CRM'sh, F-M, SL FRI to Hd, WH CALC CMT. SD. Hy WH, M-C QTZ SA-SR & FRAG Gy.	BARREN ⊗ ◊ ⊙ ⓦ △
SH. SL DK Gy, MOD FRM, VMICMIC, NON CALC, SB PLTY to SB BLKY. SS WH to Gy'sh WH, VF-F OCC M, SL FRI to SL Hd, SLTY MTX, WH CALC CMT.	BARREN ⊗ ◊ ⊙ ⓦ
SH. OCH BRN to BRN, FRM, IN pt DOL, MIC py, CALC, SB BLKY. SS. Gy'sh WH, VF-F, SL Hd, SLTY MTX, MIC, WH CALC CMT & WH, F-M.	COPROLITE. BARREN ⊗ ◊ ⊙ ⓦ
SH. BRN, FRM, RG, IN pt DOL, MIC py, CALC, SB BLKY to SB PLTY. SS. Gy'sh WH, VF-F, OCC F-M, FRI to SL Hd, SLTY MTX	CHILOSTOMELLA POLSONI py. SAN CRISTOBAL FM. ✕ ✕ ◊ ⊙ ⓦ γ
SH. BRN, FRM, RG, MIC py, CALC, SB BLKY to SB PLTY. SS. Gy'sh WH, VF-F & F-M, SLTY MTX.	BATHYSIPHON EOCENICUS BLK. CHILOSTOMELLA POLSONI py. Pg/Sn FAUNA TRC ✕ ◊ ⊙ ⓦ
SH. BRN & OCC SL DK Gy. SS. Gy'sh WH, VF-F & WH F-M OCC C. SD. Hy, Hy WH, SMK, C-VC QTZ ANG, HKLY & OCC FRAG. DK.	TROCHAMMINA GLOBIGERINIFORMIS. QUINQUELOCULINA Sp. CHILOSTOMELLA POLSONI py. BULIMINA DEBILIS py. Pg/Sn FAUNA Vp ◊ ⊙
SH. BRN & OCC SL DK Gy. SS. Gy'sh WH to Gy'sh VF-F & WH, F-M OCC C. SD. Hy, Hy WH, SMK, C-VC QTZ ANG, HKLY.	CYCLAMMINA SIMIENSIS. TROCHAMMINA GLOBIGERINIFORMIS. BATHYSIPHON EOCENICUS BLK. BULIMINA DEBILIS py/ CHILOSTOMELLA POLSONI py/ HAPLOPHRAGMOIDES ATAHUALLPAI & BALC. RWK. Py/Sn p + BALC. RWK TRC. ◊ ⊙
SH. BRN, FRM, IN pt DOL, MIC MIC, SL MIC CARB, CALC, SB BLKY. SS. Gy'sh WH to Gy'sh, VF-F, SL Hd, SLTY MTX, CALC CMT.	CYCLAMMINA SIMIENSIS. TROCHAMMINA GLOBIGERINIFORMIS. ROBULUS Sp. VERNEUILINA POLYSTROPHA. BULIMINA DEBILIS py ✕ CHILOSTOMELLA POLSONI py ✕ to ⊗ VALVULINERIA POLEGREDENSIS py. Pg/Sn SL. ABDT. ⊗ ◊ ⊙





SH. BRN, FRM, RG, IN pt DOL, V MIC MIC, SL MIC CARB, CALC, SB BLKY. SS. Gy'sh WH to Gy'sh.		CYCLAMMINA SIMIENSIS. BATHYSIPHON EOCENICUS BLK. ALLOMORPHINA py. BULIMINAS py CHILOSTOMELLA POLSONI py VALVULINERIA PALEGREDENSIS py GLOBIGERINAS py } FAUNA py ABDT. Pg/Sn ABDT. ◇ ⊙ ●
SH. BRN, FRM, RG, IN pt V MIC MIC, IN pt DOL, SL MIC CARB, CALC, SB BLKY. SS. Gy'sh, VF to SLTY MIC, CALC CMT.	6700	CYCLAMMINA SIMIENSIS X BATHYSIPHON EOCENICUS BLK. ROBULUS YOUNGQUISTI. ASTACOLUS PERUVIANUS. TROCHAMMINA GLOBIGERINIFORMIS X DENTALINA Sp. Pg/Sn ABDT + BALC RWK Vp CIBICIDES Sp. PIRITIZED FAUNA ● ROBULUS DISCREPANS. HAPLOPHRAGMOIDES ATMHUDLLPAI. ◇ ⊗ ⊙
SH. BRN, SAME AS ABOVE. SS HyWH, M-C QTZ ANG/SANG, FRI to SL Hd, CLEAN, IN pt WH CALC CMT. SD. HyWH, MLKy WH, C-VC QTZ ANG/SANG. & FRAG. DK.	6800	CYCLAMMINA SIMIENSIS / ROBULUS YOUNGQUISTI. TROCHAMMINA GLOBIGERINIFORMIS. ASTACOLUS PERUVIANUS. VALVULINERIA PALEGREDENSIS. PIRITIZED FAUNA / Pg/Sn ASSy P **BASAL SALINA FM.** ◇ ⊙
SS. WH. F-M-C QTZ ANG/S. ANG, FRI, CLEAN, IN pt WH CALC CMT. SD. HyWH, MLKy WH, MKLY		BARREN ◇ ⊙
SH. BRN & SL DK Gy. SS. Gy'sh WH to Gy'sh.		CYCLAMMINA SIMIENSIS / Pg/Sn p ASTACOLUS PERUVIANUS TROCHAMMINA GLOBIGERINIFORMIS. CHILOSTOMELLA POLSONI py. ◇ ⊗ ⊙
SH. BRN, AS ABOVE & Gy, MOD FRM to FRM, IN pt SLTY, MIC MIC, SB BLKY.	6900	CYCLAMMINA SIMIENSIS. BATHYSIPHON EOCENICUS BLK. CHILOSTOMELLA POLSONI py. Pg/Sn FAUNA Vp ◇ ⊗ ⊙
SS. Gy'sh WH IN pt CRM'sh VF-F, F-M, SL FRI to SL Hd, SLTY MTX, IN pt MIC, CALC CMT.		CYCLAMMINA SIMIENSIS. TROCHAMMINA GLOBIGERINIFORMIS. Pg/Sn FAUNA TRC ◇ x ⊙
SH. BRN & Gy AS ABOVE SS. Gy'sh, VF to SLTY, DIRTY, MIC, CALC CMT.		CYCLAMMINA SIMIENSIS. Pg/Sn FAUNA TRC ◇ x ⊙
SH. BRN, FRM, RG, CALC, IN pt DOL, MIC MIC, SB BLKY. SS. LT Gy, VF-F, SL FRI to SL Hd SLTY MTX, MIC, CALC CMT.	7000	BATHYSIPHON EOCENICUS BLK. CHILOSTOMELLA POLSONI py. Pg/Sn FAUNA TRC ◇ ⊙
SH. BRN, FRM, RG, IN pt DOL, MIC MIC, SB BLKY. SS. LT Gy, VF-F, SLTY MTX.		BATHYSIPHON EOCENICUS BLK. Pg/Sn FAUNA TRC ◇ ⊙
SH. BRW, FRM, RG, IN pt DOL, MIC MIC, SB BLKY. SS. LT Gy, VF-F, SL Hd, SLTY MTX, MIC, CALC. CMT.		CYCLAMMINA SIMIENSIS (BROKEN). TROCHAMMINA GLOBIGERINIFORMIS. TROCHAMMINA ASAGAIENSIS. HAPLOPHRAGMOIDES Sp. Pg/Sn FAUNA Vp ◇ ⊙
SH: BRN SAME AS ABOVE		Pg/Sn FAUNA Vp
SH: BN GYSH, SL RG, SOL OCASS, SL MIC MIC, SB BKY. SD: HYWH, F, M, SA-SR QTZ.	7100	CYCLAMMINA SIMIENSIS (FRAGMENTS). CHILOSTOMELLA POLSONI (PY). ROBULUS YOUNGQUISTI. PG/SN FAUNA TRC - VP ◇ ⊙
SH. SAME AS ABOVE. SD. HYWH, F-M; SA-SR QTZ.		CYCLAMMINA SIMIENSIS. HAPLOPHRAGMOIDES SP. ⊙ ◇
SS: WH GYSH, VF, F MSTY, MOD FRI, CALC CMT. SD: AS ABOVE.		CYCLAMMINA SIMIENSIS. PG/SN FAUNA TRACES ⊙ x ◇
SS: WH GYSH AS ABOVE. SD: HY WH, MKY WH, F-M MSTY, SA-SR QTZ.		CYCLAMMINA SIMIENSIS. HAPLOPRAGMOIDES SP. PG/SN FAUNA TRC - VP ⊙
SH: BN GYSH MSTY, SL RG, SLTY IN PT. SL MIC MIC.	7200	CYCLAMMINA SIMIENSIS. PG/SN FAUNA TRACES

SBBKY.

SS: WH GYSH & WHSH, VF & F, CLEAN, W/FW BK MIN INCL, CALC CMT.

SD: HYWH, MKY, SMKY OCASS, MSTY SA, HKLY IN PT QTZ.

SD: HYWH, MKYWH, SMKY & GNSH OCASS. SA. HKY QTZ.

SD: HY & MKYWH, SMKY OCASS, M, M-C, C-VC, SA MSTY, SA-SR QTZ.

SD: HYWH MSTY, SMKY, MKY, GYSH IN PT, C, VC, CONG (HKY) QTZTIC FRAGMENTS

SD: HYWH, MKYWH, GYSH, CONG QTZTIC FRAGMENTS, (VHKY), CHERT ALSO.

SH: GY, HD, VMIC MIC, SL SLTIC, SBPTY TO SBBKY.
SD: AS ABOVE.

S.D: MKYWH, HYWH; SMKY, GYSH IN PT, C, VC, A, SA; HKLY, CONG QTZTIC FRAGM.

S.D: MKYWH MSTY, HYWH, SMKY & GYSH IN PT, C, VC, A, SA, HKY CONG. QTZTIC FRG.

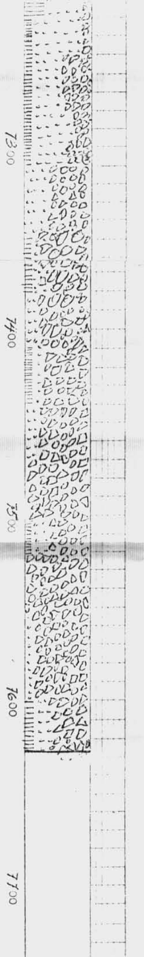
SS: WH GYSH, VF & F, W/FW BK MIN INCL, CALC CMT.

SD: MKY & HYWH MSTY, GYSH: C; C-VC, VC, SA, SA-SR OCASS, HKLY CONG. QTZTIC FRG.

SD: MKY & HYWH, GYSH AS ABOVE.

SD: MKYWH, HYWH, GY, C, C-VC, VC, HKY CONG QTZTIC FRG.

SH: GY, HD, VMIC MIC, SBPTY TO SBBKY.
SD: HYWH & GYSH AS ABOVE.



BARREN

BARREN

PG/SN FAUNA TRACES

BATISIPHON EOCENICA BK.

BARREN

BARREN

BARREN

BARREN

TROCHAMMINA GLOBIGERINIFORMIS.

PG/SN FAUNA TRACES

STOP DATE: DECEMBER 27, 1994

T.D: 7628'