

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3813  
C-113

MAILING ADDRESS:

B. 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Tierra Fin, Inc. Mailing Address: 4514 Shirley Rd.

TENANT: \_\_\_\_\_ Mailing Address: Richmond, VA 23225

DRILLER: Fetterolf Bros. Mailing Address: Syringa, VA 23165

WELL LOCATION: County Lancaster Approx. 1 <sup>XXXX</sup> miles East (direction) of Rappahannock  
Windmill Point, VA and \_\_\_\_\_ feet miles north (direction) of River

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: Oct. 1972 DATE COMPLETED: Jan. 1973

TYPE OF DRILL RIG USED: Mud Rotary TOTAL DEPTH 690 feet

WATER LEVEL: Stands 28 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pump  
Drawdown 40 feet  
Rate 100 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 100 feet  
8-1/2 inches from 100 to 210 feet  
5-5/8 inches from 210 to 690 feet  
SCREEN SIZE: 3 inches from 670 to 690 feet

WATER ZONES: from 670 to 690 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
CASE SIZE: 6" inches from 0 to 210 feet  
3" inches from 210 to 670 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

GROUTING: Method Slush pump  
Material cement-water Depth 100 feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other \_\_\_\_\_

PUMP: Type piston  
Capacity 50 gal per min  
Depth of intake \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X  
(69)

DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: ph. call from B. Candage 10/4/73 TDS-1430

C1 450

# LOG

FURNISHED BY: Fetterolf Bros.

DATE: Feb. 28, 1973

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Clay	
5	20	Sand and clay	
20	80	Blue clay and shells	
80	150	Fine blue sand and shells and clay streaks	
150	390	Blue clay with some shells sand streaks	
390	470	Gray sand and shells with limestone layers	
470	500	Black sand and clay	
500	520	Black sand	
520	670	Clay and sand clay streaks of various color	
670	690	Gray sand medium grade	

VIRGINIA DIVISION OF MINERAL RESOURCES  
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1		Well Repository No.: C-113 W-3813
Date rec'd: 3-2-73	Date Processed: 10-12-73	Sample Interval: from 0 to: 690
PROPERTY: Tierra Fin, Inc.		Number of samples: 69
COMPANY: Fetterolf Bros.		Total Depth: 690'
COUNTY: Lancaster (Foxwells)		Oil or Gas:      Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	-	-
10-20	310-320	610-620	-	-
20-30	320-330	620-630	-	-
30-40	330-340	630-640	-	-
40-50	340-350	640-650	-	-
50-60	350-360	650-660	-	-
60-70	360-370	660-670	-	-
70-80	370-380	670-680	-	-
80-90	380-390	680-690	-	-
90-100	390-400	-	-	-
100-110	400-410	-	-	-
110-120	410-420	-	-	-
120-130	420-430	-	-	-
130-140	430-440	-	-	-
140-150	440-450	-	-	-
150-160	450-460	-	-	-
160-170	460-470	-	-	-
170-180	470-480	-	-	-
180-190	480-490	-	-	-
190-200	490-500	-	-	-
200-210	500-510	-	-	-
210-220	510-520	-	-	-
220-230	520-530	-	-	-
230-240	530-540	-	-	-
240-250	540-550	-	-	-
250-260	550-560	-	-	-
260-270	560-570	-	-	-
270-280	570-580	-	-	-
280-290	580-590	-	-	-
290-300	590-600	-	-	-

Unwashed only

OWNER: Tierra Fin, Inc.  
DRILLER: Fetterolf Bros.  
COUNTY: Lancaster (Foxwells)

W # 3813  
C # 113  
TOTAL DEPTH - 690'  
QUAD - Deltaville  
ELEV - 3'

DEPTH  
(FEET)

WELL LOG

0-20	Sand	- grayish orange (10YR 7/4); moderate clay at 10-20'; medium to coarse, subangular, well sorted.
20-60	Clay	- light olive gray ( 5/2); abundant sand; fine to pebble, subangular, moderate sorting; 1% shell fragments at 20-40'; mica at 40-60'.
60-70	Sand	- light olive gray (5Y 5/2); abundant clay; fine to pebble, subangular, moderate sorting; wood fragment; mica.
70-120	Sand	- light olive gray (5Y 6/1); very sparse to sparse clay; fine to granule, subangular, moderate sorting; few to 10% glauconite; few shell fragments at 70-80'; rose quartz and feldspar at 100-120'; mica.
120-150	Sand	- light olive gray (5Y 6/1); sparse clay; fine to very coarse, subangular, moderate sorting; 5% glauconite; 10% shell fragments; echinoid spines at 130-150'; 3% rose quartz.
150-180	Clay	- light olive gray (5Y 6/1); abundant sand; very fine to granule, subangular, well sorted; diatoms; 8-10% shell fragments.
180-220	Sand	- light olive gray (5Y 6/1); moderate clay; fine to coarse, subangular, moderate sorting; rose quartz at 80-90'; 3% glauconite at 190-220'; 5-30% shell fragments; forams - <u>Nonion</u> at 200-210'.
220-230	Sand, Shelly	- light olive gray (5Y 6/1); 50% shells; fine to coarse, subangular, moderate sorting.
230-250	Clay	- light olive gray (5Y 6/1); abundant sand; very fine to fine, subangular, well sorted; 20% shell fragments at 240-250'.

DEPTH (FEET)		WELL LOG
250-260	Sand	- light olive gray (5Y 6/1); moderate clay; fine to coarse; rose quartz granules; moderate sorting, subangular; 20% shell fragments; forams - <u>Robulus</u> , <u>Nonion</u> .
260-390	Clay	- light olive gray (5Y 6/1); abundant sand; very fine to coarse, subangular, well sorted; 3% shell fragments at 260-270'; spines at 280-290'; diatoms at 280-390'.
390-410	Sand	- light olive gray (5Y 6/1); sparse clay; medium to very coarse, subangular, moderate sorting; 5% glauconite at 390-400'; 10% phosphate fragments at 400-410'; few shell fragments; forams - <u>Robulus</u> , <u>Dentalina</u> , <u>Siphogenerina</u> .
410-430	Sand	- light and dark gray; sparse to moderate clay; medium to very coarse, subangular, moderate sorting; 45% glauconite; rose quartz.
430-440	Sand	- light and dark gray; abundant clay; fine to very coarse, subangular, poor sorting; 40% glauconite; 30% shell fragments; ochre.
440-450	Coquina	- light and dark gray; abundant clay; fine to very coarse, subangular, poor sorting; 40% glauconite; 60% shell fragments.
450-460	Sand, Glaucinitic	- dusky yellowish green (5GY 5/2); 90% glauconite; sparse clay in clasts; fine to very coarse, subangular, poor sorting; 3% shell fragments.
460-470	Coquina	- light and dark gray; abundant clay; fine to very coarse, subangular, poor sorting; echinoid spines; 40% glauconite; 60% shell fragments; forams - <u>Siphogenerina</u> , <u>Globigerina</u> ; coral.
470-490	Sand, Glaucinitic	- dusky yellowish green (5GY 5/2); 90% glauconite; sparse clay; fine to very coarse, subangular, poor sorting; 10% shell fragments; calcium carbonate powder.

DEPTH (FEET)		WELL LOG
490-500	Sand, Glaucanitic	- dark greenish gray (5G 4/1); 95% glauconite; calcium carbonate; fine to very coarse; subangular, poor sorting; few shell fragments; forams - <u>Robulus</u> .
500-540	Sand, Glaucanitic	- light olive gray (5Y 5/2); 80% glauconite; fine to granule, subangular and rounded, poor sorting; few shell fragments and forams - <u>Robulus</u> at 500-520'.
540-560	Sand, Glaucanitic	- grayish olive (10Y 4/2); 80-90% fine glauconite; very fine to coarse, subangular, moderate sorting; mica.
560-590	Sand, Glaucanitic	- grayish olive (10Y 4/2); 60% glauconite; moderate clay; calcium carbonate, very fine to coarse, subangular, moderate sorting; few shell fragments at 570-590'.
590-610	Sand, Glaucanitic	- light and dark gray; 50% glauconite; moderate clay; very fine to granule, subangular, poor sorting.
610-640	Sand, Glaucanitic	- grayish olive (10Y 4/2); 50% glauconite; moderate clay; fine to coarse, subangular, moderate sorting; few shell fragments; forams - <u>Robulus</u> , <u>Guttulina</u> , <u>Nodosaria</u> ; mica.
640-660	Sand, Glaucanitic	- light and dark gray; abundant zoned clay - dark olive gray and white clasts; fine to coarse, subangular, poor sorting; forams; feldspar at 650-660'.
660-680	Sand	- light and dark gray; 40-50% glauconite; abundant clay at 670-680'; fine to pebble; subrounded; poor sorting; few fine shell fragments; garnet; mica at 670-680'.
680-690	Sand	- light olive gray (5Y 7/1); medium to granule, subangular to subrounded, poor sorting; feldspar.

Logged by:  
J. K. Polzin  
Jan. 26, 1981