

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

Geothermal

OWNER: Van Kesteren Farms, Inc., #55 Mailing Address: Onancock, Virginia 23417

TENANT: _____ Mailing Address: _____

DRILLER: Gruy Federal, Inc. Mailing Address: 2500 Tanglewilde #150, Houston, TX

WELL LOCATION: County _____ Approx. 0.5 ~~XXXX~~ miles West (direction) of _____
Road 316 on Road 178 and _____ feet miles (direction) of _____

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

DATE STARTED: Nov. 26, 1978 DATE COMPLETED: Nov. 29, 1978

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 1034 feet

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

YIELD TEST: Method _____
Drawdown _____ feet
Rate _____ gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 7-7/8 inches from 0 to 1034 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 4 1/2 inches from 2 to 1011 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

GROUTING: Method _____
Material Class A Depth 1011 feet

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

PUMP: Type _____
Capacity _____ gal per min
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____
DRILL CUTTINGS SAVED: Yes _____ 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: _____

COMMONWEALTH OF VIRGINIA

LOG

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

FURNISHED BY: _____

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
		<p>The descriptions of this well are unpublished. For information call or write:</p> <p>Virginia Polytech. Inst. Geophysics Dept. Dr. Joe Lambiase (703) 961-6112</p>	

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

INTERVAL SHEET

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Well Repository No.: C-369
 W- 5828

Date rec'd: Date Processed: 3-24-80

Sample Interval: from 0 to: 930

PROPERTY: Van Kesteren Farms, Geothermal #55

Number of samples: 92

COMPANY: Gruy Federal

Total Depth: 1034

COUNTY: Accomack (Onancock)

Oil or Gas: Water: XX Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	900-910	-
-	310-320	610-620	910-920	-
20-30	320-330	620-630	920-930	-
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	690-700	-	-
100-110	400-410	700-710	-	-
110-120	410-420	710-720	-	-
120-130	420-430	720-730	-	-
130-140	430-440	730-740	-	-
140-150	440-450	740-750	-	-
150-160	450-460	750-760	-	-
160-170	460-470	760-770	-	-
170-180	470-480	770-780	-	-
180-190	480-490	780-790	-	-
190-200	490-500	*790-800	-	-
200-210	*500-510	*800-810	-	-
210-220	510-520	810-820	-	-
220-230	*520-530	820-830	-	-
230-240	530-540	830-840	-	-
240-250	540-550	840-850	-	-
250-260	550-560	850-860	-	-
260-270	560-570	860-870	-	-
270-280	570-580	870-880	-	-
280-290	580-590	880-890	-	-
290-300	590-600	890-900	-	-

Split- wash

*Unwashed only.

Owner: Van Kesteren Farms
Driller: Gruy Federal - Geothermal #55
County: Accomack

W# 5828
C# 369
Total Depth: 930'
Quad: Accomac
Elev: 40'

Depth
(feet)

WELL LOG

0-10	Sand - dusky yellow (5Y 6/4); sparse clay; medium to granule; sub-rounded; moderate sorting; quartz; smokey quartz.
10-20	No sample.
20-30	Sand - as above.
30-40	Sand - light olive gray (5Y 6/1), as above; poor sorting; black phosphatic fragments; shell fragments.
40-50	Sand - as above, except: medium to very coarse; some granules; moderate sorting; feldspar; black crystalline fragments; flint.
50-60	Sand - as above, except: muscovite; garnet chips.
60-70	Sand - as above, except: medium to granule; 40% granule soapstone-talc fragments.
70-80	Sand - as above, except: sparse sand clasts; medium to granule; 1% phosphatic fragments; garnet chips.
80-90	Sand - as above, except: rare shell fragments.
90-100	Sand - as above, except: moderate sorting; iron oxide.
100-110	Sand - as above, except: fine to very coarse; few granules, sub-angular to sub-rounded; 6% fine black phosphatic fragments; rose quartz.
110-120	Sand - as above, except: moderate sand clasts with sparse clay; medium to very coarse, sub-rounded; 3% phosphatic fragments; shell fragments.
120-130	Sand - as above, except: moderate clay; some granules.
130-140	Sand - as above, except: medium to granule; poor sorting.
140-150	Sand - as above, except: shell fragments; mica.
150-160	Sand - as above, except: moderate clay clasts.
160-170	Sand - as above.

Depth
(feet)

170-180 Sand - as above.

180-190 Sand - light olive gray (5Y 6/1); very sparse clay; medium to very coarse, sub-angular to sub-rounded; poor sorting; quartz; 7% phosphatic fragments with rare glauconite; 12% fine shell fragments; feldspar; iron oxide.

190-200 Sand - as above.

200-210 Sand - as above.

210-220 Sand - as above; except: 3% fine shell fragments.

220-230 Sand - as above, except: very coarse and granule; some medium; sparse glauconite; 10% shell fragments; phosphatic fragments; iron oxide.

230-240 Sand - as above, except: medium to very coarse.

240-250 Sand - as above, except: olivine and pyrite on schist; bone fragments; limestone fragments.

250-260 Sand - as above, except: 3% glauconite.

260-270 Sand - as above, except: 25% shell fragments; 10%+ glauconite.

270-280 Sand - as above, except: 20% shell fragments; 2% glauconite.

280-290 Sand - as above, except: medium to granule; 10% fine black and green glauconite; 30% shell fragments.

290-300 Sand - as above, except: 10% shell fragments.

300-310 Sand - as above, except: abundant clasts; 25% shell fragments.

310-320 Sand - as above, except: sparse clay clasts; 10% shell fragments; garnet.

320-330 Sand - as above, except: 15% shell fragments.

330-340 Sand - as above, except: medium to very coarse; 8% shell fragments.

340-350 Sand - as above, except: moderate sorting; 3% shell fragments.

350-360 Sand - as above, except: 5% shell fragments.

360-370 Shell-Gravel - as above, except: medium and granules; poor sorting; 50% granules; 25% shell fragments.

Depth
(feet)

370-380 Gravel - as above, except: 20% shell fragments; 1%+ fine muscovite.

380-390 Gravel - as above, except: medium to coarse; granules.

390-400 Gravel - as above, except: 15% shell fragments; more and larger, gravel.

400-410 Gravel - as above, except: Anachis Milleri.

410-420 Gravel - as above, except: 10% shell fragments.

420-430 Gravel - as above, except: 20% shell fragments - Turritella.

430-440 Gravel - as above, except: 25% shell fragments.

440-450 Gravel - as above, except: medium and granules; Polinices.

450-460 Sand - as above, except: medium to granule; 30% shell fragments.

460-470 Sand - as above, except: 15% shell fragments.

470-480 Gravel - as above, except: 20% shell fragments; 10% very fine muscovite.

480-490 Gravel - salt and pepper; moderate clay; fine to pebble; poor sorting; 30% large pebbles; 1% large shell fragments - Turritella.

490-500 Gravel - as above.

500-510 No sample.

510-520 Gravel - as above.

520-530 No sample.

530-540 Sand - as above, except: medium olive gray (5Y 5/1); medium to granule; some pebbles; 3% shell fragments.

540-550 Sand - as above, except: 1% shell fragments.

550-560 Sand - as above, except: 10% shell fragments.

560-570 Sand - as above, except: 5% shell fragments.

Depth
(feet)

570-580 Sand - yellow brown (10YR 6/4); as above, except: moderate clay; medium to very coarse; few pebbles; 2% shell fragments.

580-590 Sand - medium olive gray (5Y 5/1); as above, except: some pebbles; 5% shell fragments.

590-600 Sand - as above.

600-610 Sand - as above, except: medium to pebble; 7% shell fragments.

610-620 Sand - as above.

620-630 Sand - as above, except: moderate sand clasts with clay - tan, orange, gray; 3% fine shell fragments - Turritella sp.

630-640 Sand - as above.

640-650 Sand - as above; pebbles and shell fragments widely differ in size - coarse and fine.

650-660 Sand - as above, except: sparse clay; few pebbles; 7% shell fragments.

660-670 Gravel - as above, except: medium to pebble; 10% shell fragments.

670-680 Sand - as above, except: moderate clay clasts; few small pebbles; 3% shell fragments.

680-690 Gravel - as above, except: moderate sand clasts with clay; some pebbles; 5% shell fragments.

690-700 Gravel - as above, except: abundant clay - clast and pellet.

700-710 Sand - as above, except: abundant clay clasts.

710-720 Sand - as above, except: 8% shell fragments; pebble.

720-730 Sand - moderate yellow brown (10YR 5/2) - as above, except: medium to pebble; 3% shell fragments.

730-740 Sand - as above.

Depth
(feet)

740-750 Sand - as above, except: moderate olive gray (5Y 5/1).

750-760 Sand - as above, except: moderate yellow brown (10YR 5/2); 25% granule to pebble.

760-770 Sand - as above, except: 5% shell fragments.

770-780 Sand - as above, except: yellow brown (10YR 6/4); medium to very coarse; moderate sorting; few granules and pebbles; 2% shell fragments.

780-790 Gravel - as above, except: moderate olive gray (5Y 5/1); medium to pebble; poor sorting; 5% shell fragments.

790-810 No samples.

810-820 Sand - as above, except: olive gray (5Y 5/2); few large pebbles and shell fragments.

820-830 Sand - as above, except: medium to granule.

830-840 Sand - as above, except: few pebbles.

840-850 Sand - as above, except: 10% pebbles; 3% shell fragments.

850-860 Sand - as above.

860-870 Sand - as above.

870-880 Sand - as above.

880-890 Sand - as above.

890-900 Sand - as above, except: 5% pebbles.

900-910 Sand - as above, except: moderate clay clasts.

910-920 Sand - as above, except: moderate olive gray (5Y 5/1); 1%+ glauconite; medium to granules; few pebbles.

920-930 Sand - as above, except: some pebbles; 5% shell fragments.

Logged by: J. K. Polzin
June 2, 1980