

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

INTERVAL SHEET

Page 1 of 1

Well Repository No.: C-43  
 W- 5516

Date rec'd: Date Processed: 9/17/79

Sample Interval: from 40 to: 980

PROPERTY: U.S. Air Force Geothermal #27

Number of samples: 87

COMPANY: Gruy Federal

Total Depth: 1037

COUNTY: Elizabeth City (Langley)

Oil or Gas: Water: Exploratory: xx

From-To	From-To	From-To	From-To	From-To
-	310-320	610-620	<u>900-910</u>	-
-	320-330	620-630	910-920	-
-	330-340	630-640	920-930	-
-	340-350	640-650	930-940	-
40-50	350-360	650-660	-	-
50-60	360-370	660-670	950-960	-
-	370-380	670-680	960-970	-
80-90	380-390	680-690	970-980	-
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- <u>200</u>	490- <u>500</u>	790- <u>800</u>	-	-
200-210	500-510	<u>800-810</u>	-	-
210-220	510-520	810-820	-	-
220-230	-	820-830	-	-
-	530-540	830-840	-	-
240-250	540-550	840-850	-	-
250-260	550-560	850-860	-	-
260-270	560-570	860-870	-	-
-	570-580	870-880	-	-
-	580-590	-	-	-
290-300	590-600	880-890	-	-
300-310	<u>600-610</u>	890-900	-	-

Unwashed only.

Owner: USAF Geotherm. #27  
Driller: Gruy Federal  
County: Elizabeth City (Langley)

W# 5516  
C# 43  
Total Depth: 1037'  
Quad: Hampton  
Elev: 5'

Depth  
(feet)

WELL LOG

0-40 No Samples.

40-50 Sand - medium olive gray (5Y 5/2); sparse clay in sand clasts; medium to granule, subangular; moderate sorting; quartz; 5% (?) fine black phosphatic fragments; 10% shell fragments; scaphopods.

50-60 Sand - as above, except: moderate clay; 10% glauconite; 5% shell fragments; echinoderm spines.

60-80 No Samples.

80-90 Shell Hash - salt and pepper; moderate clay; sand as above; 5%+ glauconite; 30% shell fragments - Chamys Eborea; Crassinella Lunulata; Phacoides.

90-100 Shell Hash - as above, except: Polinices; 20% shell fragments.

100-110 Shell Hash - as above, except: some pebbles; 50% shell fragments; Mulina Congesta; Yoldia Laevis; Polinices; Fascio Laria.

110-120 Sand - medium olive gray (5Y 5/1); sparse silt; medium to coarse; subangular; some very coarse; well sorted; quartz; 7% glauconite; 10% + very fine shell fragments.

120-130 Sand - as above, except: 10% glauconite; 2% shell fragments.

130-140 Sand - as above, except: 10+% shell fragments, Glycimeris.

140-150 Sand - as above, except: 7% shell fragments.

150-160 Sand - as above, except: 10% shell fragments.

160-170 Sand - as above.

170-180 Sand - as above, except: 7% shell fragments.

180-190 Sand - as above, except: very fine shell fragments.

190-200 Sand - as above.

200-210 Sand - as above, except: large shell fragments.

Owner: USAF Geotherm. #27

-2-

W# 5516

C# 43

Depth  
(feet)

210-220 Sand - as above, except: 10% shell fragments.

220-230 Sand - as above.

230-240 No Sample.

240-250 Shell Hash - salt and pepper; sparse silt; medium to very coarse; poor sorting; quartz; 4% glauconite; 45% shell fragments.

250-260 Shell Hash - as above.

260-270 Shell Hash - as above.

270-290 No Sample.

290-300 Sand - as above, except: 25% fine shell fragments.

300-310 Sand - as above.

310-320 Sand - as above, except: 10% shell fragments.

320-330 Sand - as above.

330-340 Sand - as above, except: 50% fine shell fragments.

340-350 Sand - as above, except: 40% shell fragments.

350-360 Sand - as above.

360-370 Sand - as above, except: 50% shell fragments.

370-380 Sand - as above.

380-390 Sand - as above, except: 40% shell fragments.

390-400 Shell Hash - salt and pepper; sparse silt; sparse sand as above; some glauconite; 85% shell fragments; chela of crab.

400-410 Shell Hash - as above.

410-420 Shell Hash - as above.

420-430 Shell Hash - as above, except: foram - Robulus.

Owner: USAF Geotherm. #27

-3-

W# 5516

C# 43

Depth  
(feet)

430-440 Shell Hash - as above.

440-450 Shell Hash - as above.

450-460 Shell Hash - as above, except: some clay clasts.

460-470 Shell Hash - as above.

470-480 Shell Hash - as above.

480-490 Shell Hash - as above, except: sparse clay.

490-500 Shell Hash - as above: Glycimeris.

500-510 Shell Hash - as above: Venicardia Altiasta.

510-520 Shell Hash - as above, except: very sparse sand, some granules; Turritella; 90%+ shells.

520-530 No Sample.

530-540 Shell Hash - as above.

540-550 Shell Hash - as above.

550-560 Shell Hash - as above.

560-570 Shell Hash - as above.

570-580 Shell Hash - as above, except: clay coated shell fragments.

580-590 Shell Hash - as above, except: abundant clay in clasts; moderate amount of clasts; Venus Mercenaria.

590-600 Shell Hash - as above.

600-610 Shell Hash - as above, except: sparse clay in clasts and coatings; moderate sand; medium to very coarse; poor sorting; quartz; 10% glauconite; 50% shell fragments.

610-620 Shell Hash - as above, except: moderate clay; sparse sand.

Owner: USAF Geotherm. #27

-4-

W# 5516

C# 43

Depth  
(feet)

620-630 Shell Hash - as above, except: moderate sand, some in clasts; foram - Robulus.

630-640 Sand - as above, except: sparse clay; abundant sand; medium to granule; 30% glauconite; 15% shell fragments.

640-650 Shell Hash - as above, except: 45% shell fragments; forams - Uvigerina; Dentalina; Nonion; Bulimina.

650-660 Shell Hash - as above; 40% glauconite; 7% shell fragments; foram - Bulimina; Quinqueloculina; Nonion.

660-670 Sand - light olive gray (5Y 5/2); sand abundant; as above; 20% glauconite; 5% shell fragments; forams.

670-680 Sand - as above, except: sparse clay; fine to very coarse sand; 30% glauconite; 3% shell fragments; forams.

680-690 Sand - as above, except: 7% shell fragments; garnet.

690-700 Shell Hash - salt and pepper; 50% shell fragments, coated with sand and clay; clasts of sand and clay; with glauconite.

700-710 Shell Hash - as above, except: 50% sand - of which 50% is medium to granule; poorly sorted; quartz; and 50% glauconite; feldspar.

710-720 Shell Hash - as above, except: some clay clasts; forams.

720-730 Sand - as above, except: moderate clay in sand clasts; 10% glauconite; 10% shell fragments.

730-740 Shell Hash - salt and pepper; 50% shell fragments; bone fragment.

740-750 Sand - olive gray (5Y 4/1); moderate clay in sand clasts; sand as above; 25% glauconite; 15% shell fragments.

750-760 Sand - as above, except: 20% shell fragments.

760-770 Sand, Clayey - as above, except: abundant clay in clasts; 10%+ glauconite; 10% shell fragments.

Depth  
(feet)

770-780 Sand - as above, except: 15% shell fragments.

780-790 Clay - light olive gray (5Y 6/2); abundant sand as above; glauconite; 7% shell fragments.

790-800 Clay - as above.

800-810 Sand, Clayey - as above, except: moderate clay; 10%+ glauconite; 1% shell fragments.

810-820 Sand - as above, except: fine to granule, poor sorting; 5% shell fragments.

820-830 Sand - as above, except: 30% glauconite; 10% shell fragments.

830-840 Sand - as above, except: 5% shell fragments.

840-850 Sand - as above.

850-860 Sand - as above, except: 10% shell fragments.

860-870 Sand - as above, except: 25% fine shell fragments.

870-880 Sand - as above.

880-890 Sand - as above, except: clay-coated sand grains; 7% glauconite; 10% shell fragments.

890-900 Sand - as above, except: 25% glauconite; 15% shell fragments.

900-910 Sand - as above, except: 5% shell fragments.

910-920 Sand - as above, except: abundant clay; 20% shell fragments - Nuculana Acuta.

920-930 Clay, Sandy - as above, except: 10% shell fragments; 20%+ glauconite.

930-940 Sand - as above, except: abundant clay, coating sand; 30% glauconite; Ensis; Nuculana; Scaphopods; Venicardium; Lucina; Nucula.

Owner: USAF Geotherm #27

-6-

W# 5516

C# 43

Depth  
(feet)

940-950 Clay, Sandy - as above, except: sparse shell fragments.  
950-960 Clay, Sandy - as above, except: 10% shell fragments.  
960-970 Sandy Clay - as above.  
970-980 Sandy Clay - as above; 20% shell fragments; Terebra Grayi;  
10% glauconite.  
980-1037 No Samples.

Logged by: J. K. Polzin  
June 6, 9, 1980