INTERVAL SHEET

WWCR 18

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VDMR Well No.: 1353

Date 8/27/65

Sample Interval: from 1½ to 700

PROP: U. S. Government (Flatwoods Job Corp. Camp)

Total depth 700

COMP: Yeary Drilling Co.

Oil ___ Gas ___ Water X Exploratory ___

COUNTY: Wise (Coeburn)

Cuttings X Core ___ Other ___

VDMR WELL NO: W-1353

WASHED SAMPLES

From-To	From-To	From-To	From-To	From-To
0 - 1½ No Smpl	292 - 301	586 - 596	-	-
1½ - 10	301 - 311	596 - 606	-	-
10 - 22	311 - 321	606 - 616	-	-
22 - 33	321 - 331	616 - 626	-	-
33 - 43	331 - 341	626 - 636	-	-
43 - 53	341 - 351	636 - 646	-	-
53 - 62	351 - 361	646 - 656	-	-
62 - 72	361 - 371	656 - 666	-	-
72 - 82	371 - 381	666 - 676	-	-
82 - 92	381 - 391	676 - 686	-	-
92 - 102	391 - 401	686 - 696	-	-
102 - 112	401 - 406 No Smpl	696 - 700	-	-
112 - 122	406 - 416	-	-	-
122 - 132	416 - 426	-	-	-
132 - 142	426 - 436	-	-	-
142 - 152	436 - 446	-	-	-
152 - 162	446 - 456	-	-	-
162 - 172	456 - 466	-	-	-
172 - 182	466 - 476	-	-	-
182 - 192	476 - 484	-	-	-
192 - 202	484 - 494	-	-	-
202 - 212	494 - 506	-	-	-
212 - 222	506 - 516	-	-	-
222 - 232	516 - 526	-	-	-
232 - 242	526 - 536	-	-	-
242 - 252	536 - 546	-	-	-
252 - 262	546 - 556	-	-	-
262 - 272	556 - 566	-	-	-
272 - 282	566 - 576	-	-	-
282 - 292	576 - 586	-	-	-

OWNER: U. S. Forest Service
(Flatwoods Job Corps Conservation Center)
DRILLER: Yeary
COUNTY: Wise (Coeburn)

VDMR WELL # 1353
WWCR WELL # 18
TOTAL DEPTH : 700

GEOLOGIC SUMMARY

0-1½	No sample
Lee Formation (1½-700')	
1½-10	Conglomerate - cream to pale pink, fine-to coarse-grained angular sand, fragments of quartz pebbles that must have been at least 5 mm in diameter, argillaceous cement, minor muscovite and limonite; trace hornblende and smoky quartz.
10-22	As above (contaminated with abundant mettalic fragments from drill and associated iron oxide stain).
22-33	Sandstone - cream fine to very-coarse-grained, poorly sorted ?, subangular, colorless to milky quartz with minor smoky, and blue quartz, trace lithic grains and mica; argillaceous cement, trace iron stain from drilling tramp iron.
33-43	Shale and Sandstone - light to medium-gray-brown clay and shale; the sandstone is as above; this sample hardened into lumps in the bag and the sandstone is hidden in the clay.
43-53	Ferruginous Shale, Sandstone and Soft Shale - orange-brown micaceous shale; pale-orange brown, medium-grained sandstone; medium light-gray soft shale with carbonaceous partings; minor red-brown-siltstone.
53-62	Sandstone - white, medium-to very-coarse-grained, sub-angular, argillaceous cement, one-sixth of sample is ferruginous, silty, micaceous shale.
62-72	Sandstone - cream-colored, fine to medium-grained, poorly sorted, argillaceous cement; minor ferruginous shale and carbonaceous shale.
72-82	Sandstone - rosy cream, very-fine-grained, trace coal and mica, very poorly indurated; trace argillaceous cement.
82-92	Sandstone and Shale - very-light-gray, fine-grained, angular, poorly indurated sandstone; medium-light-gray, micaceous fissile shale.
92-102	As above - sandstone is medium grained, better indurated and partly ferruginous.

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102-112	Sandstone - light-brown, fine to coarse-grained, poorly indurated, minor ferruginous and carbonaceous shale; some sand shows authigenic growth.
112-122	As above - minor orange-brown iron stain due to fragments from drill bit.
122-132	Sandstone - medium-gray-red, medium grained, angular, authigenic quartz growth, poorly indurated, each grain lightly coated with hematite; minor ferruginous oolites; trace biotite and muscovite.
132-142	Sandstone - light-brown, medium-coarse-grained, authigenic quartz, growth, unconsolidated; trace coal and dark micaceous shale; major tramp iron from drill.
142-152	As above - no coal.
152-162	Shale - medium-light-gray, fissile, carbonaceous, very micaceous, hard, minor black partings.
162-172	As above - very-minor-coal.
172-182	As above - slightly softer.
182-192	As above
192-202	Sandy Shale - medium-light-gray, fissile, micaceous shale with laminae of fine-grained massive micaceous sandstone, mica is very finely crystallized (authigenic ?), tiny pyrite nodules, laminae of coal minor light orange brown weathered shale.
202-212	As above - no pyrite, less coal, some shale very soft, less orange-brown shale.
212-222	Sandy Shale - medium-light-gray, fine to medium-coarse-grained, bedded fissile, and micaceous; trace coal; the coarser sand shows secondary quartz enlargment; trace orange-brown iron stained shale.
222-232	As above - larger mica flakes.
232-242	As above - fine-grained mica only.
242-252	As above - harder, less coal, minor, poorly sorted lithic sandstone.
252-262	As above
262-272	Shale - medium-gray, fine grained, micaceous in part, minor sand laminae; minor rusted cable wire contamination.
272-282	As above - darker, finer-grained, less mica and sand.
282-292	As above

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292-301	Sandy Shale - medium-gray, fine-grained, micaceous; partings and chips of coal; trace pyrite.
301-311	Shale and Sandstone - medium-gray, fine-grained, micaceous shale; very light-gray, medium-grained, angular sandstone showing authigenic growth, and containes minor lithic fragments, micas, argillaceous cement.
311-321	As above - more sandstone, less indurated, less shale.
321-331	As above - less sandstone, better indurated.
331-341	Sandstone - very-light-gray, coarse grained, angular, and unconsolidated with authigenic quartz growth; minor medium-gray micaceous shale, coal and muscovite.
341-351	As above - shale shows carbonaceous partings.
351-361	As above - coarser grained, some of the coal is as disoriented lithic fragments in the sandstone.
361-371	As above
371-381	Sandstone, Shale and Coal - very light gray, fine to medium-gray, micaceous angular, poorly indurated, sandstone; medium-gray, fissile micaceous shale; thin seams of coal.
381-391	As above - some sandstone is darker, less shale and coal.
391-401	As above - dark shale fragments as grains in sandstone; trace pyrite.
401-406	No sample
406-416	Sandstone - light-to medium-gray, angular, micaceous, partings of medium-dark fissile, micaceous shale and coal; minor drill bit contamination and associated iron oxide stain.
416-426	Shaly Sandstone - medium-gray, fine-to medium-grained, micaceous.
426-436	Shale and Sandstone - medium-gray micaceous shale; and interbedded very-light-gray, fine-to medium-grained sandstone.
436-446	Shale - medium-dark-gray, micaceous with fine-to medium-grained sandstone and loose sand.
446-456	As above - less sand
456-466	As above
466-476	As above
476-484	As above - more sandstone laminae.
484-494	As above

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494-506	Sandstone - medium-gray, medium-grained, shaley and micaceous, minor carbonaceous material in shale and minor coal.
506-516	Sandy Shale - medium gray to dark-gray, micaceous; minor light-gray, fine-grained sandstone.
516-526	Sandstone, Shale and Coal - light-gray, fine-to medium-grained sandstone and minor light-brown sandstone; medium-gray to dark-gray micaceous shale; coal.
526-536	As above - no coal, more sandstone
536-546	Shale - medium and medium-dark-gray, micaceous; minor sandstone laminae.
546-556	As above
556-566	As above - more sandstone, minor carbonaceous slickensides on shale.
566-576	Sandstone and Shale - light gray, fine grained micaceous sandstone, and medium to medium-dark-gray, fissile, micaceous shale, trace of coal.
576-586	As above - less shale, minor iron oxide due to contamination by drill bit.
586-596	As above - more shale, minor coal, no appreciable iron stain.
596-606	Sandstone - light-gray, fine to medium-fine-grained, micaceous, some medium-gray shale laminae with carbonaceous partings; trace coal.
606-616	As above - no coal.
616-626	As above - minor nearly white sandstone, minor iron oxide from the drill bit.
626-636	Sandy Shale - medium and medium-dark gray, micaceous; some light-gray, fine-grained to medium-fine-grained sandstone; trace coal.
636-646	Sandstone, Shale and Coal - very-light-gray, medium-fine-grained sandstone; medium-light to dark-gray, micaceous shale; minor vitreous to fiberous coal.
646-656	Sandstone - very-light-gray, medium grained, angular; minor fine grained sandstone and medium-gray shale laminae; trace coal.
656-666	As above - shale laminae much more carbonaceous, no pure coal; minor iron oxide from drill.

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666-676	Sandstone - light to medium gray, fine-grained micaceous, minor medium gray shale and trace of coal.
676-686	As above - slightly more coal.
686-696	As above - slightly more coal, mostly vitreous.
696-700	Shale - medium-gray, micaceous, minor laminae vitreous coal and coarse-grained white, angular sandstone.

GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-1½	No Sample	
1½-700	Lee Formation	Pennsylvanian (Pottsville)

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
September 30, 1965