7				117	11 37	115/	W W CR 29
Page	_1			L NO.: W			
Date	10/15/64		Sample I	interval:	from_	0	to_220
PROP:	Falwell Well Corp. (Hyland Springs #4)		Total Depth 260				
COMP:	Falwell		Oil	_Gas	Water_	X	Exploratory_
COUNTY:	Campbell (Lynchburg)		Cuttings	X Co	ore	Oth	ner
VDMR V	WELL NO: W-1156						
rom-To	From-To	From-	Го	From	-To		From-To
	Washed samples						
-	0 - 10	-		-		1	-
	10 - 20			-			
<u> </u>	20 - 30	_		_			_
_	30 _ 40	_					_
	40 50						
-	50 - 60	-		_			_
-	60 - 70	-		-			-
-	70 - 80	-		_			-
-	80 - 90	-		-			-
-	90 100	-					-
	100 - 110						
	110 - 120	_		14, 40			_
_							
-	120 - 130			_			-
_	130 - 140	-					-
	140 150						
_	150 - 160	-		_			_
_	160 - 170	-		-			-
-	170 - 180	_		-			-
-	180 - 190	7					-
-	190 - 200	-		-			-
-	200 - 210			_			
-	210 - 220	-		_			_
_	220 - 260 No sampl	-					_
1-2	- 200 No sampi	_		_			_
D —							#
7.5		_		_			-
)		150		-			-
		_		_			
_		_		-			5 14

OWNER: Falwell Well Corporation

(Hyland Springs Subdivision #4)

DRILLER: Falwell Well Corp. (M. E. Sprinkle)

COUNTY: Campbell (Lynchburg)

VDMR #1156 WWCR #292

GEOLOGIC LOG

OTTOT	burden	10 7011
OVET	burden	(0-10)

90-100

Overburden (0-70')	
0-10	Overburden - black, white, and brown, oxidized and fragmented amphibolite, clay, quartz, and amphibolite pieces to 3/8 inch, mica, hornblende.
10-20	Overburden - greenish gray with light brown and black, oxidized and fragmented amphibolite, quartz, mica, clay, hornblende.
20-30	Overburden - gray, green and brown, medium grained, weathered amphibolite, hornblende, biotite, feldspar, quartz, epidote.
30-40	As above - amphibolite more decomposed.
40-50	Overburden - dark greenish gray, weathered amphibolite with brown oxides, white quartz, biotite, muscovite, hornblende, quartz, pyrite, and magnetite.
50-60	As above.
60-70	As above.
Dike (70-220')	
70-80	Amphibolite - dark greenish gray with white, coarse to fine grained, good lineation of minerals, hornblende (blue-green variety probably barroisite), biotite elongated parallel to fibers of hornblende, chlorite concentrated in layers, fine granular acid plagioclase, epidote, magnetite, quartz, minor garnet, and pyrite present. X-ray examination shows minor pyroxene. There is slight oxidation along the fractures, vein quartz present, (top of bedrock in this interval).
80-90	As above - with minor graphite crystals less quartz.

Amphibolite - dark greenish gray, medium grained, good lineation, hornblende, biotite, chlorite, acid plagioclase,

magnetite, epidote, minor vein quartz.

OWNER:	Falwell Well Corporation (Hyland Springs Sub. #4) #1156
100-110	Amphibolite - dark gray with white specks, coarse grained, lineation good, granular plagioclase segregated into layers, and more abundant than above, hornblende, chlorite, biotite, acid plagioclase, quartz, magnetite, pyrite. Quartz, probably secondary, in some layers, very minor amount oxidation.
110-120	As above - no pyrite.
120-130	Amphibolite - dark, greenish gray, medium to fine grained (variable), good lineation of minerals in one plane, hornblende (long needle crystals make a mat in chlorite matrix), chlorite, biotite, acid plagioclase, epidote, magnetite, minor quartz.
130-140	As above - with vein quartz.
140-150	Amphibolite - dark greenish gray, medium to very fine grained, good lineation, hornblende, chlorite, acid plagioclase, biotite, magnetite, minor epidote, and pyrite.
150-160	Amphibolite - medium greenish gray, medium to fine grained, lineation, segregation of chlorite, hornblende, (blue-green variety probably barroisite or riebeckite), biotite, chlorite, acid plagioclase, magnetite, minor graphite in chlorite layers.
160-170	Amphibolite - oxidized, fine grained, gray, brown, (one large piece).
170-180	Amphibolite - medium gray, fine grained, good lineation, acid plagioclase, hornblende, chlorite, biotite, epidote, magnetite, minor vein quartz.
180-190	As above - minor pyrite.
190-200	Amphibolite - medium gray, fine grained, good lineation, hornblende, plagioclase concentrated in zones, chlorite, biotite, epidote, magnetite in stringer in plagioclase zone, minor pyrite, X-ray examination did <u>not</u> show pyroxene.
200-210	As above - magnetite less abundant.
210-220	As above - less plagioclase, less magnetite.

OWNER: Falwell Well Corporation (Hyland Springs Sub. #4) #1156

220-260

No sample.

GEOLOGIC SUMMARY

ROCK UNIT AGE

0-70 Overburden

70-220 Amphibolite Dike Ordovician

220-260 No sample

Dike material intruded in Lynchburg Formation (Precambrian).

Virginia Division of Mineral Resources Hollis N. Walker, Geologist October 28, 1964