37° 27' 30"

LATITUDE

0.01 S
2.05 W

80° 47' 30"

LONGITUDE

7'5 OGIS topo location

7.5' loc _____ 15' loc (calc.) 2893730
4341W8045

Company Bozoo Co.

Farm G K Wills #1

TION MAP

Quad Peterstown Narrows NE 7½

County Monroe

District Red Sulphur

WELL LOCATION MAP

File No. 063-11

(70001)

1-1 (254)

70001

G. K. WILLS NO. 1 WELL. No. 1 O. F. Monroe.

Peterstown 7½

Red Sulphur District, Monroe County, W. Va.
On New River plateau and axis of Abbs Valley Anticline, 0.5 mi. S. W. of Bozoo;
Completed, February 19, 1929.
Authority, The Bozoo Company, Inc.
Elevation, probably somewhat less than 2100 feet.

37°27'30" .01S
80°47'30" 2.05W
location determined using description on well record & geologic map.
15 topo
7/10/95

	Thickness. Feet.	Total. Feet.
Mauch Chunk Series--Hinton Group (30'+)		
Loose sandstone rocks	30 -	30
Mauch Chunk Series--Bluefield Group (1250')		
Shale, bluish-gray and reddish....26') Coney		
Shale, greenish-gray, (water at) Shale		
70').....16)	48 -	78
Shale, reddish-brown..... 6)		
Sandstone, red, fine-grained...7')		
Shale, gray.....9) Clayton		
Shale, reddish-brown.....9) Sandstone		
Sandstone, light greenish-gray,)	29 -	107
fine-grained, compact.....4)		
Shale, green and dark-green,)		
containing some organic) Clayton		
matter.....33') Shale	66 -	173
Shale, reddish-brown.....33)		
Sandstone, Graham, gray	4 -	177
Shale, red, platy, with con-)		
spicuous mica flakes.....51') Upper		
Shale, hard, slaty.....12) and		
Shale, reddish-brown..... 5) Lower	125 -	302
Shale, greenish-gray.....35) Graham		
Shale, dark-gray, sandy....22) Shales		
Sandstone, greenish-gray,)		
shaly.....18') Bertha		
Shale, dark-gray.....10) Sand-		
Shale, greenish-gray.....25) stone	65 -	367
Sandstone, gray, shaly.....12)		
Shale, Upper Bertha, dark-gray, sandy	36 -	403
Limestone, Bertha, gray, shaly	6 -	409
Shale, gray, sandy.....31') Lower		
Shale, red.....25) Bertha		
Shale, greenish-gray.....20) Shale	80 -	489
Shale, red..... 4)		
Shale, gray, sandy, horizon of Bradshaw Sandstone	79 -	568
Shale, dark, carbonaceous, limy..10') Brad-		
Shale, gray, sandy..... 5) shaw		
Shale, dark, sandy, pyritic; hori-) Shale		
zon of Red Sulphur Coal..... 2)	22 -	590
Shale, gray, sandy..... 5)		
Sandstone, white, coarse-grained. 1') Indian		
Shale, dark-gray.....66) Mills	80 -	670
Sandstone, gray (gas, 649';) Sand-		
82,000 cu. ft.).....73) stone		
Shale, black, horizon of Raines Corner Coal	1 -	671

(OVER)

	Thickness. Feet.	Total. Feet.
Sandstone, white, quartzitic..19') Droop Sandstone, white, intermingled with black shale.....31) (Maxton Sand)	50 -	721
Shale, dark-gray.....24') Talcott Shale, grayish-black, sandy.....73) Shale	97 -	818
Shale, dark-gray, limy...24') Shale, dark-blue, limy, with phenocryst like calcite.....28) Ada Shale	69 -	887
Shale, gray, soft, sandy.17)		
Limestone, Reynolds, bluish-gray, soft, sandy	37 -	924
Sandstone, Webster Springs, gray, compact, carrying some muscovite	16 -	940
Shale, dark-blue, with phenocryst like calcite..87') Shale, soft..... 4) Glenray Limestone, gray, sandy..... 9) Limestone Sandstone, gray, impure..... 5)	167 -	1107
Limestone, bluish, soft, impure..... 6) Shale, gray, limy.....56)		
Shale, blue, platy, slightly limy.....123') Shale, dark-blue, soft, platy..... 50) Lilly-dale Shale (Pencil Cave)	173 -	1280
Greenbrier Series (1480')		
Shale, bluish-gray, limy.....25') Shale, dark, bluish-gray, slightly limy.....25) Alderson Limestone	136⅔ -	1440
Limestone, dark-gray, soft...86⅔)		
NOTE: 1339 on sand line = 1362⅔ on steel measuring line. All measurements corrected from here on. Error on sand line probably cumulative.		
Shale, Greenville, dark blue, gray, slightly limy	60 -	1500
Limestone, blue-black, composed of rounded dark granules in a light colored ground mass (oolitic texture).....80') Union Limestone	285 -	1785
Limestone, bluish-gray, platy, shaly.....110') Limestone, gray.....95)		
Limestone, dark, bluish-gray, impure.....90') Limestone, bluish-black, oolitic.....112) Limestone, gray, compact, probably somewhat shaly.....43)		

(OVER)

(CONTINUED ON NEXT PAGE)

		Thickness. Feet.	Total. Feet.
Shale, gray, limy, and sandy.....30'	Pickaway Limestone	477	2262
Limestone, gray, shaly....40			
Limestone, bluish-gray, dark, impure.....45			
Limestone, bluish-gray....55			
Limestone, bluish-gray....62			
Limestone, gray, siliceous; traces of brachiopods..28'	Taggard Limestone	58	2320
Limestone, gray, shaly....30			
Limestone, dark-gray, hard...47'			
Sandstone, gray, fine-grained, somewhat limy.....23	Patton Limestone	190	2510
Limestone, gray, shaly.....28			
Sandstone, bluish-gray, fine-grained, shaly, somewhat limy.....(67).67			
Limestone, gray, hard, oolitic; exterior composed of concentric calcite layers.....25			
Limestone, dark-blue, almost black, impure.....80'	Sinks Grove Limestone	177	2687
Limestone, gray, hard, sandy.16			
Shale, bluish-gray, limy.....10			
Shale, dark, bluish-gray, limy and sandy..... 9			
Limestone, dark-gray, and light-gray, compact.....29			
Shale, slate-gray, sandy and somewhat limy..... 8			
Limestone, dark-gray, impure.25			
Limestone, gray, very sandy should probably be called a shaly, limy sandstone)...7'	Hillsdale Limestone (St.Louis)	73	2760
Sandstone, dark-gray, fine-grained, shaly and limy....8			
Limestone, gray, shaly.....36			
Shale, gray, and black; limy shale; fragments composed of quartz in minute grains with conchoidal surfaces...5			
Limestone, dark-gray, sandy...7			
Limestone, grayish-white, sandy.....10			
Maccrady Series (180')			
Shale, gray; with quartz as above in ½" lenses.....28'	Warsaw Member	50	2810
Quartz, chiefly, with some gray shale (quartz in columnar grains larger than above with conchoidal surfaces..22			

(OVER)

	Thickness. Feet.	Total. Feet.
NOTE: 2796 on sand line = 2806½ on steel measuring line, probably cumulative error. Corrected measurement from here on.		
Shale, purple-red with ½" to ⅛" quartz lenses (little gray shale)	30	2840
Sandstone, gray, fine-grained, shaly; or sandy shale	15	2855
Shale structures, gray, hard, which resemble slickensides; pyrite disseminated throughout	45	2900
Shale, purple-red (little gray shale)	40	2940
Pocono Series (410')		
Sandstone, well-cemented, medium-grained (quartz, with a little muscovite.....8')		
Sandstone, dark-gray, fine-grained (containing a little calcite).....(38).38		
Shale, hard, gray (with pyrite disseminated throughout; probably contains some quartz grains; slickensided surfaces.....15	Squaw Sand	74 - 3014
Shale, gray, sandy; and sandstone, gray, coarse-grained, with conspicuous muscovite..13		
Shale, dark-gray, limy (with some gray, fine-grained sandstone, some pyrite, and little slickensided coal)	3	3017
Shale, carbonaceous; and coal, hard, slickensided; horizon of Merrimac Coal	5	3022
Sandstone, grayish-white, coarse-grained.....38')		
Sandstone, gray, coarse-grained.34		
Sandstone, gray, compact, with muscovite.....19	Broad Ford Sand- (Weir Sand)	
Shale, gray and reddish, with scattered grains of quartz; and sandstone, gray, with muscovite, a pebbly conglomerate (gas at 3105').....12		226 - 3248
Sandstone, gray, with muscovite and little veined dolomite...42		
Sandstone, chiefly, gray, compact, with muscovite; some slickensided, dark shale, with few dolomite veins.....23		
Sandstone, bluish-gray; and sandy shale.....68		
Shale, Sunbury (Coffee Shale), bluish-gray, sandy	12	3260

(CONTINUED ON NEXT PAGE)

	Thickness. Feet.	Total. Feet.
Sandstone, gray, fine-grained; and dark bluish-gray shale.17'		
Sandstone, light-gray, shaly.. 3		
Sandstone, chiefly, dark-gray, fine-grained; with some shaly sandstone.....35	Berea Sandstone 90	- 3350
Some sandstone, gray, fine-grained, but chiefly bluish shale.....35		

Chemung Series (172'+)

Sandstone, bluish-gray, fine-grained; with brachiopod fragments	5	- 3355
Sandstone, chiefly, gray and fine-grained, or bluish-gray	44	- 3399
Sandstone, gray, fine-grained; and dark colored sandy shale	26	- 3425
Sandstone, chiefly reddish, fine-grained and platy, but some dark colored and platy	10	- 3435
Sandstone, chiefly, gray and fine-grained; some gray shale with scattered quartz grains	15	- 3450
Shale, blue-black, platy	14	- 3464
Sandstone, grayish-white	27	- 3491
Shale, blue-black	2	- 3493
NOTE: 3493' on sand line = 3496½ on steel measuring line.		3496½
Sandstone, light-gray, well-cemented	5½	- 3502
Shale, slate-blue, chiefly, with 5% of light-gray well-cemented sandstone which appears to occur as small lenses in the shale; little pyrite	20	- 3522
Total depth		3522

Shot February 9, 1929, with 140 quarts at 3097-3129', with no increase in gas.
Shot February 14, 1929, with 40 quarts at 649'.
Packer set above lower pay sand but leaks and gas comes from this sand up into upper sand. A rock pressure reading under this condition showed 215 lbs. After allowing the well to blow off 17 hrs. and 45 min. gas test at 649' was 82,000 cu. ft.; at 3105', was 157,000 cu. ft. per day.
Completed February 21, 1929.
Drilled by L. H. Harrison et al.
Contractor, C. M. Means.
"Tubed in 124,000 cu. ft. gas".