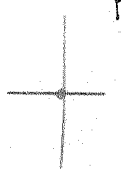


LATITUDE 39° 02' 30"

79° 50'

LONGITUDE

7.12
2.155
0.180



7'5 OGIS topo location

7.5' loc _____ 15' loc 5.035
" " " (calc.) 0.180

Company Potter Development

Farm Erndress Hartman I

Quad Montrose 7 1/2

County Rainier

District New Interest

WELL LOCATION MAP

File No. 183-1
formerly 70001 B, fur

Deep well 10 0



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 23

Loc: 5.19 S. 39°05'
0.35 W. 79°50'

Quadrangle Belington - SC

WELL RECORD

Oil or Gas Well Dry
(KIND)

Permit No. RAN - 1

Company Potter Development Co., Snee, etal
Address _____
Farm Endress Hartman Acres _____
Location (waters) Davis Lick of Leading Creek
Well No. 1 Elev. 1960' B
District New Interest County Randolph
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10 <u>3/4" O.D. 488'</u>			Size of
8 1/4			
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced October 12, 1931
Drilling completed September 1, 1932
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume show gas in Oriskany Cu. Ft. _____
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED No

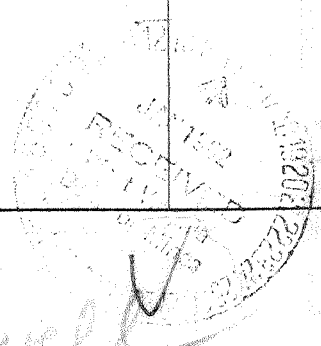
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT _____
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water 50', 125' & 315' Feet _____ Salt Water 1840' & 4172' Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<u>Devonian</u>							
Shale	dk. gray		0	112'			
Shale	black, calc.		112'	380'			
Shale	dk. gray		380'	778'			
Shale	black, sl. calc.		778'	1046'			
Limestone	dk. gray		1046'	1085'			
Shale	dk. gray, calc.		1085'	1121'			
Shale	black		1121'	1442'			
Limestone	gray		1442'	1449'			
Shale	black, calc.		1449'	1555'			
<u>Huntersville Chert</u>							
Limestone	gray, cherty		1555'	1562'			
Chert	lt. gray to gray, calc.		1562'	1652'			
Chert	dk. gray		1652'	1723'			
Shale	dk. gray		1723'	1741'			
Chert	dk. gray, calc.		1741'	1747'			
Limestone	dk. gray		1747'	1752'			
<u>Oriskany</u>							
Sandstone	lt. gray to gray, calc.		1752'	1867'			
<u>Helderberg</u>							
Sandstone	gray, calc.		1867'	1920'			
Limestone	lt. gray, sandy		1920'	1993'			
Limestone	dk. gray, shaly		1993'	2174'			
Limestone	gray, cherty		2174'	2223'			
Limestone	dk. gray		2223'	2337'			
Limestone	lt. gray		2337'	2380'			
Limestone	dk. gray, cherty		2380'	2416'			

Sulfur water at 278'.
1960 1960 1960
1555 1752 1867
1415 208 293

Show SW at 1840' 3 bbl. per day



(over)

1-0 0 Deep well

Formation	Color	Hard or Soft	Top ²³	Bottom	Oil, Gas or Water	Depth Found	Remarks
Limestone	gray, cherty		2416'	2478'			
<u>Salina</u>							
Limestone	gray		2478'	2510'			
Anhydrite	gray		2510'	2684'			
Limestone	gray, sandy		2684'	2750'	Bad hole at	2705'	
Limestone	dk. gray, sandy		2750'	2989'			
Limestone	gray, sandy		2989'	3108'			
Dolomite-anhydrite	dk. gray		3108'	3186'	3126 - ss, Newburg?		8'
Shale	gray, dolomitic		3186'	3315'			
Limestone	gray, shaly		3315'	3478'			
Shale	gray, calc.		3478'	3568'			
Limestone	gray, shaly		3568'	3612'			
Shale	gray, calc.		3612'	3746'	3672 - 3710' ss, sandg		- keefers?
<u>Clinton</u>							
Shale	gray-green		3746'	4063'	Rock		
Sandstone	gray, fine		4063'	4110'	keefers		
Shale	gray-green		4110'	4165'			
Sandstone	gray, fine, some red		4165'	4238'			
Shale	gray, sandy		4238'	4262'			
Sandstone	Lt. gray		4262'	4266'			
Shale	gray, sandy		4266'	4288'			
<u>Tuscarora</u>							
Sandstone	white to lt. gray		4288'	4476'			
Shale	gray		4476'	4480'			
			TD 4480'				

2/11/62
1960
1752
1374

4288
1960
2328

57

4500
1960
2300

3126
1960
-1166

3126
1752
1374

Date January 12, 1962

APPROVED _____, Owner

By J. L. Wolfgang, Geologist for
(Title)
Law and Liberty

Montrose
7 1/2 2nd

should have
permitted #

6100

1102
653-1

Endress Hartman No. 1 Well.

old file #19

New Interest District, Randolph County, W. Va.; on south side of Davis Lick of Leading Creek, 1.3 miles west of Kerens; and 6 miles north of Elkins; begun Oct. 10, 1931; completed Sept. 1, 1932; by Snee & Jaquith and Potter Development Co.; elevation, 1960' B.; starts near middle of Genesee Series.

	Top. Feet.	Bottom. Feet.
<u>Devonian--Genesee Series (88'+)</u>		
Shale, gray, with pebbles	0 -	16
Shale, gray (water, 50')	16 -	72
Lime, gray, Tully, Landes	72 -	88
<u>Devonian--Hamilton Series (690')</u>		
Shale, dark	88 -	112
Shale, limy (water, 125'; hole full)	112 -	144
Lime, dark-gray, shaly	144 -	160
Shale, dark, limy	160 -	192
Shale, dark, mud-colored	192 -	278
Shale, very dark, sandy and powdery, with calcite (sulphur water, 278'; strong flow)	278 -	280
Shale, dull-black, hard, with pyrite; irregular fracture (little more water at 315'?)	280 -	350
Shale, brown, partly sandy and partly limy	350 -	386
Shale, gray	386 -	404
Shale, dark-gray, mostly sandy	404 -	478
Sand, black, fine-grained	478 -	484
Shale, dark-gray, partly soft and partly fissile (10" casing at 488')	484 -	527
Shale, gray or mud-colored; irregular fracture	527 -	533
Shale, mostly dark-gray and often sandy	533 -	778
<u>Devonian--Marcellus Series (784')</u>		
Shale, black, fissile	778 -	784
Shale, black, fissile, with lime	784 -	790
Shale, black, mostly fissile	790 -	840
Shale, black, fissile, with lime	840 -	848
Shale, black, fissile	848 -	869
Shale, dark-gray, with lime	869 -	879
Shale, dark-gray, fissile	879 -	965
Shale, very dark-gray, partly fissile and partly irregular fracture	965 -	980
Shale, black, fissile, slickensided	980 -	995
Shale, dark-gray, fissile (little gas about 1000'; flashed up with considerable force when lighted)	995 -	1009
Shale, black, fissile, slickensided	1009 -	1046
Lime, dark-gray, with a little black shale	1046 -	1085
Shale, black, fissile	1085 -	1103
Lime, dark-gray, with a little shale	1103 -	1121
Shale, black, fissile	1121 -	1127
Shale, very dark, with lime fragments	1127 -	1133
Shale, black, fissile, slickensided, with pyrite	1133 -	1179
Shale, black, tinged with gray, fissile	1179 -	1196
Shale, black, fissile, slickensided	1196 -	1211
Shale, black, tinged with gray, fissile and sandy	1211 -	1220
Shale, very dark-gray, mostly sandy	1220 -	1312
Shale, dark-gray, sandy	1312 -	1324
Shale, dark-gray, limy	1324 -	1339

	Top. Feet.	Bottom. Feet.
Shale, black, tinged with gray, fissile	1339	- 1346
Shale, black, fissile, sandy; with occasional frag- ments of pyrite and streaks of calcite; <u>Linguella?</u> <u>paliformis</u> Hall at 1358 and 1382'	1346	- 1424
Shale, black, fissile, limy, mostly hard	1424	- 1449
Lime, black, hard.....1449-1459)		
Shale, black, fissile,) <u>Lower Selinsgrove.</u>	1449	- 1562
Limy.....1459-1488)		
Lime, black.....1488-1562)		
<u>Devonian--Oriskany Series--Huntersville Chert (190')</u>		
Lime, dark-gray, cherty (reduced hole to 3/4" at 1570').	1562	- 1580
Chert, dark-gray, with lime	1580	- 1587
Chert, yellowish-gray, with lime; finely powdered . . .	1587	- 1591
Chert, gray, with a little lime	1591	- 1610
Chert, gray, with green phosphatic sand	1610	- 1636
Chert, dark-gray, with greenish-gray, phosphatic sand .	1636	- 1670
Chert, dark-gray (softer), with greenish-gray sand . .	1670	- 1686
Chert, very dark-gray, with dark sand	1686	- 1693
Chert, very dark-gray (softer), with black, sandy shale	1693	- 1698
Shale, black, sandy, with calcite and black chert . . .	1698	- 1716
Shale, black, fissile, sandy, with black chert and with calcite and pyrite	1716	- 1741
Shale, black, sandy and limy, hard at top, soft at base.	1741	- 1752
<u>Devonian--Oriskany Series--Ridgeley Sandstone (115')</u>		
Sand, gray, medium-soft, limy; medium-coarse at top, fine-grained at base; gas odor; fragment of <u>Spirifer</u>	1752	- 1767
Sand, grayish-brown, fine-grained, hard, limy	1767	- 1770
Sand, greenish-gray, fine-grained, hard, limy; frag- ment of <u>Spirifer</u>	1770	- 1782
Sand, greenish-gray, medium-grained, medium-hard, limy.	1782	- 1786
Sand, light-brown, fine-grained, hard, limy	1786	- 1794
Sand, gray, medium-grained, hard, limy	1794	- 1800
Sand, light-brown, medium-grained, hard, limy	1800	- 1801
Sand, gray, fine-grained, hard, limy	1801	- 1812
Sand, light-brown, fine-grained, hard, limy	1812	- 1826
Sand, gray, fine-grained, clean, limy	1826	- 1837
Sand, gray, medium-coarse, hard, clean, limy (little salt water at 1840'; 2 1/2 bbl. per day)	1837	- 1841
Sand, gray, fine-grained, hard, clean, limy	1841	- 1859
Sand, light-brown, fine-grained, hard, limy	1859	- 1867
<u>Devonian--Oriskany Series--Shriver Chert (16')</u>		
Sand, light-brown, fine-grained, hard, limy, with black shale or chert	1867	- 1871
Chert, dark-gray	1871	- 1873
<u>Devonian--Oriskany Series--New Scotland Member (51')</u>		
Lime, light-gray, hard; marine fossil fragments at 1893 and 1934'	1873	- 1924
<u>Devonian--Helderberg Series--Coosmans Member (56')</u>		
Lime, light-gray, hard, sandy	1924	- 1943
Lime, light-gray, hard	1943	- 1967
Lime, light-gray, hard, sandy	1967	- 1980
<u>Devonian--Helderberg Series--Keyser Member (51')</u>		
Lime, light-gray, coarse, hard	1980	- 1988
Lime, dark-gray, coarse, hard	1988	- 1997

	Top. Feet.	Bottom. Feet.
Lime, dark-gray, coarse; marine fossil fragments at 2003', <u>Schuchertella?</u>	1997	2031
<u>Silurian--Bossardville Series (584')</u>		
Lime, very dark, shaly	2031	2134
Lime, dark	2134	2150
Lime, very dark	2150	2162
Lime, very dark, with gray lime fragments	2162	2174
Lime, dark-gray, pure (<u>ostracod?</u> at 2184')	2174	2223
Lime, very dark, gray	2223	2240
Lime, very dark, hard	2240	2275
Lime, dark-gray	2275	2300
Lime, very dark	2300	2318
Lime, dark-gray	2318	2337
Lime, light-gray, crystalline	2337	2365
Lime, dark-gray	2365	2380
Lime, very dark, impure	2380	2395
Lime, gray, hard	2395	2416
Lime, dark-gray, shaly (<u>ostracod?</u> at 2430')	2416	2430
Lime, dark-gray, hard	2430	2435
Lime, very dark	2435	2440
Lime, dark-gray	2440	2510
Lime, very dark, shaly	2510	2535
Shale, dark, calcareous	2535	2615
<u>Silurian--Rondout Series (511')</u>		
Lime, gray, mud-colored; and dark shale	2615	2620
Lime, dark, shaly	2620	2648
Lime, very dark, shaly	2648	2700
Lime, dark, shaly	2700	2705
Lime, dark-gray	2705	2745
Lime, grayish-white; with ostracod?	2745	2750
Shale, dark, calcareous	2750	2761
Lime, dark-gray, with calcite	2761	2946
Lime, mixed dark and gray, shaly	2946	2964
Lime, dark-gray, with calcite	2964	3034
Lime, gray, with calcite	3034	3060
Lime, dull-gray, crystalline, with calcite	3060	3092
Lime, dull-gray, crystalline, with calcite	3092	3115
Shale, dark-gray, calcareous	3115	3122
Lime, dark-gray (effervescent)	3122	3126
<u>Silurian--Bloomsburg Series (8')</u>		
Sand, brown, fine-grained, slightly calcareous, <u>Williams-</u> <u>port</u>	3126	3134
<u>Silurian--Niagara Series (612')</u>		
Lime, dark-gray, shaly	3134	3152
Lime, dark-gray, with calcite	3152	3169
Lime, brown, shaly	3169	3176
Lime, dark-gray, with calcite	3176	3198
Lime, dark-gray, with pyrite	3198	3216
Lime, dark-gray	3216	3228
Lime, dull-gray, with calcite	3228	3253
Lime, gray	3253	3267
Lime, dark-gray	3267	3280
Lime, gray, with calcite (fragment of bivalve shell at 3470')	3280	3523
Lime, light-gray, with calcite	3523	3568

	Top. Feet.	Bottom. Feet.
Lime, dark-gray, with calcite	3568	- 3594
Lime, gray, with calcite (fragment of bivalve shell at 3640')	3594	- 3640
Lime, gray	3640	- 3672
Lime, gray, sandy, <u>Newburg Sand?</u>	3672	- 3710
Lime, gray, with calcite	3710	- 3746
<u>Silurian--Clinton Series (542')</u>		
Shale, greenish-gray, sandy	3746	- 3860
Shale, greenish-gray, sandy, with red fragments	3860	- 3870
Shale, greenish-gray, sandy	3870	- 4010
Shale, gray, hard, fine-grained, sandy	4010	- 4054
Shale, gray, soft, fine-grained, sandy	4054	- 4080
Shale, gray, hard, sandy	4080	- 4097
Shale, gray, hard, sandy; with white sand	4097	- 4110
Shale, greenish-gray, hard, sandy	4110	- 4156
Shale, greenish-gray, soft; with fragments of white quartz	4156	- 4165
Sand, reddish-brown, fine-grained, hard, with fragments of white quartz, <u>Iron Sandstone</u> (salt water at 4172'; filled up 3350' in 2 or 3 days)	4165	- 4181
Shale, greenish-black, sandy, slickensided; with red- dish-brown, fine-grained sand	4181	- 4190
Sand, gray, with some dark shale (cavings?)	4190	- 4195
Sand, grayish-white, coarse (water rose in hole from 3350 to 3673'--probably caused by new supply).	4195	- 4198
Sand, brown, fairly coarse, slightly calcareous	4198	- 4202
Sand, gray, fairly coarse, slightly calcareous	4202	- 4206
Sand, brown, fine-grained, slightly calcareous	4206	- 4209
Sand, gray, fairly coarse	4209	- 4212
Sand, brown, ferruginous, fine-grained	4212	- 4214
Sand, greenish-brown, greenish-buff, or greenish-gray, fairly coarse	4214	- 4224
Sand, reddish-brown, fairly coarse	4224	- 4225
Sand, greenish-gray, fairly coarse, with a little pyrite	4225	- 4232
Sand, greenish-gray, fairly coarse; with dark, sandy shale	4232	- 4238
Shale, dark-green, sandy, with a little pyrite	4238	- 4258
Shale, greenish-gray, sandy, with a little dark shale	4258	- 4272
Shale, greenish-gray, sandy, tinged with red at base.	4272	- 4283
Shale, greenish-gray	4283	- 4288
<u>Silurian--White Medina Series (190')</u>		
Sand, gray, hard, quartzitic	4288	- 4296
Shale, gray, sandy	4296	- 4300
Sand, gray, hard, quartzitic	4300	- 4306
Sand, white, fairly coarse	4306	- 4309
Shale, dark-gray, sandy	4309	- 4313
Sand, white, coarse at top and fine-grained at bottom	4313	- 4317
Sand, buff, fine-grained	4317	- 4322 $\frac{1}{2}$
Sand, white, fine-grained	4322 $\frac{1}{2}$	- 4323
Sand, buff, fine-grained (little pyrite at 4334')	4323	- 4343 $\frac{1}{2}$
Sand, buff, fairly coarse	4343 $\frac{1}{2}$	- 4345 $\frac{1}{2}$
Sand, white, very fine-grained	4345 $\frac{1}{2}$	- 4346 $\frac{1}{2}$
Sand, gray, fine-grained	4346 $\frac{1}{2}$	- 4350
Sand, buff, fine-grained	4350	- 4352
Sand, white, coarse	4352	- 4354

	Top. Feet.	Bottom. Feet.
Sand, gray, fine-grained	4354	4357
Sand, white, fine-grained	4357	4364½
Sand, white, coarse	4364½	4370
Sand, buff, fine-grained	4370	4371½
Sand, white, coarse	4371½	4374
Sand, white, fine-grained	4374	4377
Sand, buff, fairly coarse	4377	4378½
Sand, gray, very coarse	4378½	4381½
Sand, gray, fine-grained	4381½	4384½
Sand, buff, fine-grained	4384½	4387
Sand, mostly white, fairly coarse	4387	4395
Sand, white, fine-grained	4395	4397
Sand, white, fairly coarse	4397	4400
Sand, white, fine-grained	4400	4402
Sand, white, fairly coarse	4402	4409
Sand, white, coarse	4409	4414½
Sand, white, fairly coarse	4414½	4428
Sand, white, fine-grained	4428	4434
Sand, white, coarse	4434	4434½
Sand, white, fine-grained	4434½	4444
Sand, reddish-brown, fine-grained	4444	4447
Sand, gray, fine-grained	4447	4450
Sand, gray, coarse	4450	4451
Sand, gray, fine-grained	4451	4453
Sand, reddish-brown, fine-grained	4453	4456½
Sand, gray, fine-grained	4456½	4459
Sand, reddish-brown, fine-grained	4459	4460
Sand, white, fine-grained	4460	4462
Sand, white, coarse	4462	4464
Sand, reddish-brown, fairly coarse	4464	4465
Sand, gray, fine-grained	4465	4468
Sand, gray, fine-grained	4468	4469
Sand, light-brown, fine-grained	4469	4471
Sand, reddish-brown or light-brown, shaly at base	4471	4478

Silurian--Red Medina Series (2'+)

Shale, dark-gray, sandy, to bottom 4478 - 4480

10" casing, 488'; reduced hole to 8½" at 1570', but did not case.

Made enough gas to light in 10" hole; mostly in Marcellus and Oriskany; exact depth unknown.

Well drilled from 4172-4480' with a wet hole and water column of 3000 to 3500'.

Well abandoned as dry.

Loyal C. Boyer, Monongahela, Pa., Contractor.

Samples examined and correlated by David B. Reger, Consulting Geologist, Morgantown, W. Va.

Samples retained at his office.

D.B.R. notes, pp. 2348-2362 and 2601-2606.

Photostatic copy of record received by R. C. Tucker from Mason G. Walters, of Potter Development Co., Port Allegany, Pa., June 15, 1934.