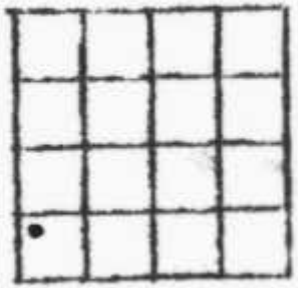
County Clinton



sec. 18 T. 55 R. 31

Owner Hammond, R. M.

Elev. 1001 MGS#

Farm Porter No. 5 TD 582 Shows o+g* Spls. —

Status Date Completed 12-7-33 Fm@TD P

Remarks: *prod - 125 M

00023

Hammond field

HA008

unusually high levels for this area, in the black shale (Galesburg) between the Winterset and Bethany Falls limestones, and the Ladore shale between the Bethany Falls and Hertha limestones. The Knobtown sand in the Pleasanton formation produces in one well, and in several wells the Peru sand which lies a few feet above the Lexington coal horizon, has been productive. Porter No. 2 making 2,332,000 cubic feet of gas per day from the Peru sand is the largest well completed in the pool.

To date there have been drilled, fourteen producing wells and six dry holes (including one previously drilled by other parties in the syncline to the east of the structure). One well drilled in this field was abandoned at a shallow depth because it was low structurally and hence did not have favorable possibilities. The gas is piped into Plattsburg, Liberty, and other towns by the General Utilities Company.

The log of a typical well, which was deepened to the Squirrel sand in the Cherokee formation is given below.

Log of R. M. Hammond No. 5, Porter Farm. Location: NW. 1/4, SW. 1/4, SW. 1/4, sec. 18, T. 55 N., R. 31 W. Elevation: 1001 feet. Completed to 486 feet, Dec. 7, 1933; deepened Feb. 1, 1934.

	Thickness feet.	Depth feet.
Quaternary system.		
Soil	4	4
Pennsylvanian system:		
Lansing formation:		
Lime breaks	3	7
Lime (base of Stanton)	4	11
Dark shale	3	14
Lime (water) (Plattsburg)	21	35
Gray shale	2	37
Lime	1	38
Gray shale	7	45
Lime	2	47
Gray shale	19	66
Lime	3	69
Gray shale	39	108
Kansas City formation:		
Lime	8	116
Gray shale	9	125
Lime	7	132
Gray shale	2	134
Lime	1	135
Dark shale	4	139
Black shale (bubble of gas)	1	140
Dark gray shale	13	153
Lime	3	156
Light shale	5	161
Brown shale	7	168
Light gray shale	3	171

Log of R. M. Hammond No. 5, Porter Farm—Continued.

	Thickness feet.	Depth feet.
Lime	3	174
Green shale	3	177
Gray shale	19	196
Lime	8	204
Gray shale	4	208
Lime	5	213
Gray shale	13	226
Lime (Winterset)	25	251
Gray shale	3	254
Black shale (bubble of gas)	1	255
Lime (Bethany Falls)	21	276
Gray shale	2	278
Black shale (bubble of gas and water)	1	279
Dark shale	1	280
Lime (Hertha)	12	292
Pleasanton and Henrietta formations:		
Dark shale	4	296
Gray shale	3	299
Light shale	11	310
Sand (gas bubble) (Knobtown)	4	314
Gray shale	69	383
Red bed	7	390
Gray shale	3	393
Lime, sandy	5	398
Gray shale (set casing 400½)	5	403
Light shale	20	423
Gray shale	7	430
Lime	2	432
Green shale	9	441
Sand (gas and oil show)	2	443
Sandy shale	3	446
Lime	1	447
Light sandy shale	8	455
Gray shale	4	459
Lime, sandy	5	464
Light sandy shale	5	469
Gray sandy shale	3	472
Sand (water—little bubble of gas) (Peru)	2	474
Dark shale	3	477
Lime (packer—perforation at 479)	2	479
Dark shale	3	482
Black shale (gas 236,000 cubic feet) (Lexington coal horizon)	2	484
Dark shale	1	485
Gray shale	1	486
Lime	2	488
Gray shale	12	500
Light shale	10	510
Black shale	5	515
Gray sandy shale	10	525
Lime	2	527
Cherokee formation:		
Dark shale	3	530
Lime	1	531
Gray shale (plugged 534)	14	545
Light shale	17	562
Lime, very hard	4	566
Sand, soft (gas 100,000 cubic feet)	2	568
Sand, soft (show of oil)	13	581
Gray shale	1	582
		Total depth

Geo. Clark.

STATE OF MISSOURI
GEOLOGICAL SURVEY AND
WATER RESOURCES

BIENNIAL REPORT *of the*

STATE GEOLOGIST

TRANSMITTED TO THE
FIFTY-EIGHTH GENERAL ASSEMBLY

1935

MDCCCXX

MO. GEOL. SURVEY LIBRARY

H. A. BUEHLER
DIRECTOR AND STATE GEOLOGIST
ROLLA, MISSOURI

MO
NR.Ge
1B: 58
C.2