

25-Sep-98 API # 47-5-01690

State of West Virginia Division of Environmental Protection Reviewed Section of Oil and Gas

Well Operator's Report of Well Work

POCAHONTAS LAND CORP.

Operator Well No.: LC-201

LOCATION:

Elevation: 3,162.00 Quadrangle: PILOT KNOB

CROOK District:

County: BOONE

14700 Feet South of 37 Deg. 50Min. 0 Sec. 5000 Feet West of 81 Deg. 30 Min. 0 Sec. Latitude: 5000 Feet West of 81 Longitude

Company: PENN VIRGINIA OIL AND GAS

999 EXEC. PARK BLVD., STE. 300| Casing | Used in | Left | Cement KINGSPORT, TN 37660-0000

Agent: HARRY JEWELL, III

Inspector: RICHARD CAMPBELL 09/25/98 10/18/98 Permit Issued:

Well work Commenced: Well work Completed: 11/26/98

Verbal Plugging

Permission granted on: Rotary X Cable ____ Total Depth (feet) ___ —₃₃₉₀ Fresh water depths (ft) ½"@ 731'

Salt water depths (ft)

Is coal being mined in area (Y/N)? N Coal Depths (ft): 380-383, 495-496, 1013-1017, 1375-1380, 2419-2424.

& Tubing	Drilling		Fill Up Cu. Ft.
Size		1	Automotive
13 3/8"	41'	41'	0
9 5/8"	1235'	1235'	419
7''	3073'	3073'	590
4½"	3311'	3311'	89

OPEN FLOW DATA

Producing formation	Ravencliff	Pay zone depth	(it)	
Cace Initial open flow	MCF/d Oil	: Initial open flow	162	Bbl/d
Final open flow 6	22 MCF/d	Final open flow	or the	_Bbl/d ~
mimo of open flow	hetween initial	and final tests 4		Hours
Static rock Pressure 4	25 psig (sur	face pressure) after	119	_Hours
Second producing forma	tion	Pay zone depth	(ft)	
Gas: Initial open flow	MCF/d Oil	: Initial open flow		Bbl/d
Odb. Interat opon	/1	minal amon flore	*	_ph1/d

Final open flow MCF/d Final open flow _ Time of open flow between initial and final tests_____ Static rock Pressure ____psig (surface pressure) after

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. 100 1690

For: PENN VIRGINIA OIL AND GAS CORPORATION

Ву:

MAY 23 1993

WV Division of fronmental Profestion

JUN 1 4 1999

FORM WR-35R (REVERSE)

PERMIT #: 47-005-01690 WELL#: LC 201

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC

Stage 1 Ravencliff Perforated from 3208' to 3212' with 9 holes and from 3216' to 3221' with 11 holes. Breakdown with 250 gallons of 15% HCL acid and N2. Treated with 157 bbls of gelled water, 46,700 lbs of 20/40 sand and 416,500 SCF of N2.

ATR: 20 BPM ATP: 1650 psi ISIP: 1850 psi

FORMATIONS	TOP	BOTTOM	REMARKS
Sand & Shale	0	700	
Shale	700	760	
Sand & Shale	760	1190	
Shale	1190	1270	
Sand & Sirde	1270	1340	
Shals	1340	1450	
Sand	1450	1490	
Shale	1490	1570	
Sand & Shale	1570	1820	
Sand	1820	1970	
Shale	1970	2090	
Sand & Shale	2090	2180	
Sand	2180	2420	
Shale	2420	2470	
Sand	2470	2570	•
Sand & Shale	2570	2850	
Shale	2850	2980	
Sand	2980	3090	
Shale	-3090	3183	· · · · · · · · · · · · · · · · · · ·
Ravenellii Sand	5183	322-	
Shale	3224	3251	
Avis Limestone	3251	3286	
Shale	3286	3398	Gas check @ TD - 270 MCF