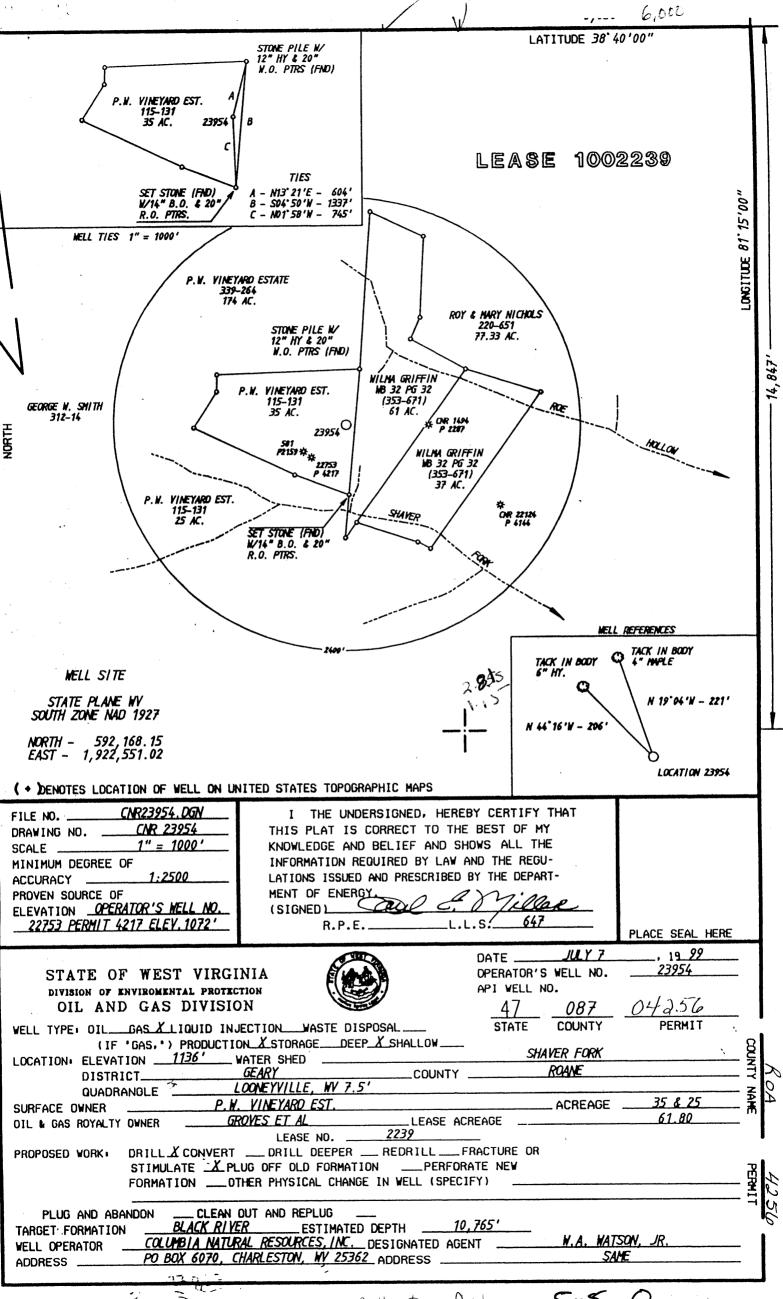


DEEP 67511

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DEOP ITELL

5-5,0

API #:47--087-04256

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Saint AL
Reviewed / T

Farm name:

Location Elevation: 1,136'

Geary District:

Operator Well No: 823954

Looneyville Quadrangle:

County:

Roane

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in drilling	Left in Well	1	t fill up .Ft.	
Address: P. O. Box 6070						
Charleston, WV 25362-0070	26"	20	20	216		
Agent: W. A. Watson, Jr.						
Inspector: Homer Dougherty	20"	350	350	400		}
Date Permit Issued: 09/20/99]
Date Well work commenced: 10/07/99	13 3/8"	2,122	2,122	1,880] .
Date Well Work completed: 01/17/01						<u> </u>
Verbal Plugging:	9 5/8"	6,120	6,120	354		j
Date Permission granted on:						
Rotary Cable Rig	7''	9,243	9,243	780	. 177 + n.,	
Total Depth (feet):11,198'					i (
Fresh Water Depth (ft):						Part 1
Salt Water Depth (ft.):1,580', 1,750'		1.			XX .	
Is coal being mined in area (NX Y)					F 1-1	B 2 2 2091
Coal Depths (ft): N/A					Though.	V.) Littlian of
					i in	TOTAL GREET IN
		<u> </u>				en e

OPEN FLOW DATA

Producing formation: Trenton/Black River O.H. Pay zone depth(ft) from 9,800' to 11,198'; from

to

Gas: Initial open flow 231MCF/d Oil: Initial open flow -0-Bbl/d Final open flow 84 MCF/d Final open flow -0- Bbl/d Time of open flow between initial and final tests 100 Hours Hours Static rock Pressure 2,945 psig (surface pressure) after

2nd producing formation:

Pay zone depth (ft) from

to

to

to

Gas: Initial open flow

MCF/d Oil: Initial open flow

Bbl/d

Final open flow

Bbl/d

; from

Time of open flow between initial and final tests

MCF/d Final open flow

Hours

Static rock Pressure

psig (surface pressure) after

Hours

3rd producing formation:

Pay zone depth (ft) from

; from

Gas: Initial open flow

MCF/d Oil: Initial open flow

Bbl/d

Final open flow

MCF/d Final open flow

Bbl/d

Time of open flow between initial and final tests

Hours

Static rock Pressure

psig (surface pressure) after

Hours

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.

Signed:

MBIA NATURAL RESOURCES, INC.

Date:

Columbia Natural Resources, Inc. GROVES 23954 Straight hole

47-087-24256 Geary District, Roane County, WV

All depths are measured

Formation	<u>Top</u>	Bottom	
Shale & siltstone	0	1568	
Salt Sand	1568	1804	
Shale	1804	1886	
Little Lime	1886	1925	
Big Lime	1925	2117	
Injun	2117	2150	
Pocono Shale	2150	2446	
Sunbury Shale	2446	2466	
Berea	2466	2472	
Upper Devonian Sh	2472	2767	
Gordon Siltstone	2767	2781	Offica of Os A Gas
Devonian Shale	2781	3612	Permitty
Lower Huron	3612	4770	FEB 2.2 2391
Devonian Shale	4770	4897	*
Lower Alexander	4897	4974.	Way to a control of
Devonian Shale	4974	5110	Contract store and an article to the same ties and section
Rhinestreet	5110	5467	
Devonian Shale	5467	5734	
Marcellus	5734	5776	
Onondaga	5776	5940	
Oriskany	5940	6000	
Helderberg	6000	6273	
Salina	6273	6913	
Newburg	6913	6932	
McKenzie	6932	7276	
Rose Hill	7276	7762	
Tuscarora	7762	7832	
Juniata (red)	7832	8500	
Martinsburg (gray)	8500	9803	
Trenton	9803	9950	. / \
Black River	9950	TD	(10,849')

WELL # 823954

PERFORATIONS:

Stage I, Open Hole

from

9,800' to 11,198'

PLUG BACK OF PRIMARY HOLE & FIRST KICK HOLE :

Primary hole was plugged as follows:

1: 10,832' - 9,832' w/182 sks of 50/50 Class H- Poz w/2% gel, .25% dispersant, .05% defoamer & .1% retarder;

9,832' - 8,832' w/213 sks of 50/50 Class H - Poz w/2% retarder, .25% dispersant, & .05% defoamer.

This cement was then drilled out to a kick off point of 9,200'.

THE FIRST KICK HOLE WAS PLUGGED AS FOLLOWS:

2a: 11,026' - 10,900' - w/gel.

10,900' – 9,900' – w/182 sks (same as above)

9,900' - 8,900' - w/213 sks (same as above)

This cement was then drilled out to 9,564' and was not hard enough to kick off and was reset w/

2b: 9,539' - 8,900' w/145 sks Class H w/.2% Retarder, .75% dispersant and .45% D-46,

This cement was drilled out to 9,543' and was also not hard enough to start kick, and was reset w/

2c: 9,532' - 8,754' w/175 sks Class H w/.75% dispersant, .05% defoamer.

This cement was then drilled out to a kick off point of 9,300'.

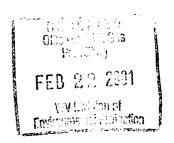


Columbia Natural Resources, Inc. GROVES 23954-A First kick hole

47-087-24256 Geary District, Roane County, WV

All depths are measured

Formation	Top	Bottom
Kick off point	9200	
Martinsburg (gray)	9200	9852
Trenton	9852	10016
Black River	10016	TD (11,026)



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Columbia Natural Resources, Inc. GROVES 23954-B Second kick hole

47-087-24256 Geary District, Roane County, WV

All depths are measured

Formation	<u>Top</u>	Bottom	
Kick off point	9300		
Martinsburg (gray)	9300	9800	
Trenton	9800	9968	
Black River	9968	TD	(11,1981)



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND CAS WELLS DIVISION

AFFLDAVIT OF PLUGGING AND FILLING WELL

Coal Operator or Owne	IGETS (A)	- 000000	NATURAL RESO.	5-4
	r			
Address		7.07.002	Complete Address	<u> </u>
OF OPERATED		<u>82395</u>	f ELL AND LOCATION	19 _20
Coal Operator or Owne	ır			District
Address		_ GEAR	3	DISCLICE
SEE ATTACHED SH Lease or Property On	EET (B)	ROAN	É	Councy
Lease or Property Own	ict			
		WELL NO.	823954	
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INSPECTOR SUPERVISING	PLUGGING Ho	MER DOU	GHERTY	Γ
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