

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: **MAY 10 2011**
API No: **47-107-01704**
Lease No: **DV15993**

Farm Name: **ELLIOTT LAND & CATTLE CO., LLC** Operator Well No. **31024**

LOCATION: Elevation: **1057'** Quadrangle: **Schultz 7.5'**
District: **Walker** County: **Wood**
Latitude: **6,490** Feet South of: **39** Deg. **17** Min. **30** Sec.
Longitude: **11,600** Feet West of: **81** Deg. **12** Min. **30** Sec.

Company: **Dominion Exploration & Production, Inc.**

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 1248 Jane Lew, WV 26378				
Agent: Kent Wright				
Inspector: Jamie Stevens				
Date Permit Issued: 02/23/2010				
Date Well Work Commenced: 10/09/2010	16"	26'	26'	Sand In
Date Well Work Completed: 10/28/2010				
Verbal Plugging:	13 3/8"	34'	34'	Sand In
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig	9 5/8"	294'	294'	90 sks
Total Vertical Depth (feet): 5,048'				
Total Measured Depth (feet):	7"	1067'	1067'	190 sks
Fresh Water Depth (ft.): 35'				
Salt Water Depth (ft.): 1075'	4 1/2"	4845'	4845'	300 sks
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 1231'-1233'				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA

UPPER HURON	1998'-2680'
UPPER HURON	2878'-3228'
LOWER HURON	3528'-3808'
Producing formation ANGOLA/JAVA SHALE	Pay zone depth (ft) 4040'-4656'
Gas: Initial open flow odor MCF/d	Oil: Initial open flow 0 Bbl/d
Final open flow 444 MCF/d	Final open flow 0 Bbl/d
Time of open flow between initial and final tests	12 Hours
Static Rock Pressure 425	psig (surface pressure) after 12 Hours

Second Producing formation	Pay zone depth (ft)
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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete

[Signature]
Signature

5-4-11
Date

[Handwritten initials]
AS 4/25

WR-35
 Rev (5-01)
 Page 2 of 2

WELL: 31024

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ___ No X
 Were ___ Electrical, ___ Mechanical, X or Geophysical logs recorded on this well?

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

PERFORATED INTERVALS, FRACTURING, OR STIMULATING:

10/27/2010 SUPERIOR RAN BOND LOG. TD - 4843'. TOC - 1520'. PERFERD FIRST STAGE ANGOLA. 4040'-4656', 35 HOLES. WELL READY FRAC.
 10/28/2010 SUPERIOR PERFERD AND FRACED AS FOLLOWS:
 ANGOLA/JAVA SHALE, 4040'-4656', 35 HOLES. BD 2612#. AVG PRESS 3743', 750 MSCFN2
 LOWER HURON, 3528'-3808', 39 HOLES, BD 3000#, AVG PRESS 3228', 750 MSCFN2,
 UPPER HURON, 2878'-3228', 30 HOLES, BD 2515#, AVG PRESS 2848#, 850 MSCFN2
 UPPER HURON, 1998'-2680', 40 HOLES, BD 2550#, AVG PRESS 2357#, 775 MSCFN2
 B&B FLOWED WELL BACK AFTER FRAC.

FORMATIONS ENCOUNTERED:

Fill	0	26	Sand&Shale	26	65
RedRock	65	78	Sand&Shale	78	157
Sand & Shell	157	200	RedRock/Shale	200	240
Shell & Sand	240	297	RedRock/Shell	297	324
Shale	324	620	Sand	620	632
Shale	632	690	RedRock/Shale	690	780
Sand	780	796	Sand/Shale	796	1089
RedRock&Shale	1089	1165	Sand&Shale	1165	1231
Coal	1231	1233	Sand/Shale	1233	1390
RedRock/Shale	1390	1425	Shell/Sand	1425	1540
Sand&Shell	1540				

GAMMA RAY/ FORMATION		
#31024	TOPS	47-107-01704
	TOP	BASE
BIG LIME	1615	1690
BIG INJUN	1695	1775
COFFEE SHALE	2130	2175
LOWER HURON	3485	4500
JAVA SHALE	4500	4750
PIPE CREEK SHALE	4750	4785
ANGOLA SHALE	4785	5010
LTD		5058



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

February 23, 2010

WELL WORK PERMIT

New Well

This permit, API Well Number: 47-10701704, issued to DOMINION EXPLORATION & PRODUCTION INC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 31024

Farm Name: ELLIOTT LAND & CATTLE CO, I

API Well Number: 47-10701704

Permit Type: New Well

Date Issued: 02/23/2010

Promoting a healthy environment.

107-01704

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator Dominion Exploration & Production, Inc. 107 9 600

	Wood	Walker	Schultz
Operator ID	County	District	Quadrangle

2) Operators Well Number: 31024 3) Elevation: 1057'

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow _____

5) Proposed Target Formation(s): Angola Shale ^{Lower than?} Proposed Target Depth 5025'

6) Proposed Total Depth: 5025' Feet Formation at Proposed Total Depth: Angola Shale

7) Approximate fresh water strata depths: 20', 235'

8) Approximate salt water depths: NA

9) Approximate coal seam depths: 1215', 1310' - no coal reported

10) Does land contain coal seams tributary to active mine? NO

11) Describe proposed well work Drill and stimulate new vertical well.

12) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13.375	L.S.		30	30	SAND IN
Fresh Water	9.625	L.S.	26	285	285	CTS
Coal						
Intermediate	7.00	L.S.	17	1350	1350	CTS
Production	4.5	M-65	9.5	5025	5025	305 sks
Tubing						
Liners						

Packers: Kind
 Sizes
016924 Depths Set
650

RECEIVED
 Office of Oil & Gas
 JAN 29 2010
 WV Department of
 Environmental Protection

Jamie 1/15/10

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