

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

DATE: **AUG 30 2010**
 API No: **47-001-03048**
 Lease No:

Farm Name: USA - TYGART VALLEY ST. PARK Operator Well No. 34531

LOCATION: Elevation: 1285.85' Quadrangle: Philippi

District: Pleasant County: Barbour
 Latitude: 3,840 Feet South of: 39 Deg. 15 Min. 00 Sec.
 Longitude: 9,880 Feet West of: 80 Deg. 00 Min. 00 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: Rick Elswick				
Inspector: Bryan Harris				
Date Permit Issued: 06/11/2009				
Date Well Work Commenced: 04/23/2010	13 3/8"	30'	30'	Sand In
Date Well Work Completed: 05/03/2010				
Verbal Plugging:	9 5/8"	497'	497'	150 sks
Date Permission granted on:				
Rotary X Cable Rig	7"	1060'	1060'	160 sks
Total Depth (feet): 5,120'				
Fresh Water Depth (ft.): 100', 820'	4 1/2"	5102'	5102'	345 sks
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)?: No				
Coal Depths (ft.): 280'-289', 380'-385', 435'-440'				
Oil Depths (ft.): N/A				

OPEN FLOW DATA

RILEY	3810'-3824'
BENSON	4048'-4054'
Producing formation <u>3RD ELK</u>	Pay zone depth (ft) <u>4984'-4991'</u>
Gas: Initial open flow <u>odor</u> MCF/d	Oil: Initial open flow <u>0</u> Bbl/d
Final open flow <u>220</u> MCF/d	Final open flow <u>0</u> Bbl/d
Time of open flow between initial and final tests	<u>12</u> Hours
Static Rock Pressure <u>780</u> psig (surface pressure) after	<u>12</u> Hours

RECEIVED
 Office of Oil & Gas

Second Producing formation	Pay zone depth (ft)
Gas: Initial open flow <u>*</u> MCF/d	Oil: Initial open flow <u>*</u> Bbl/d
Final open flow <u>*</u> MCF/d	Final open flow <u>*</u> Bbl/d
Time of open flow between initial and final tests	<u>*</u> Hours
Static rock Pressure <u>*</u> psig (surface pressure) after	<u>*</u> 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: [Signature]
 By: Rick Elswick
 Date: 8-27-10

Rev. (7/30/2010)

11/18/2011

WELL: 34531

5/3/2010 SUPERIOR RAN BOND LOG. TD - 5106'. TOC - 1090'. SUPERIOR PERFED AND FOAM FRACED AS FOLLOWS:
 3RD ELK, 4984'-4991', 22 HOLES, BD 3140#, COULD NOT FRAC, 200 MSCFN2, ISIP 4000#
 BENSON, 4048'-4054', 25 HOLES, BD 3290#, AVG RATE 24 BPM, AVG PRESS 3505#, 241 BBLs, TOT SAND 40,000#, 550 MSCFN2, ISIP 3500#
 RILEY, 3810'-3824', 22 HOLES, BD 3271#, AVG RATE 24 BPM, AVG PRESS 3038#, 250 BBLs, TOT SAND 35,000#, 444 MSCFN2, ISIP 1970#
 E.C. CLEANED UP THE WELL AFTER FRAC. 1 OF 2 FRAC BALLS RETRIEVED DURING FLOWBACK. WILL CONTINUE TO FLOW WELL.

Fill	0	5	RedRock	5	10
Shale	10	30	Sand	30	40
RedRock	40	100	Sand	100	200
Shale	200	235	Sand	235	280
Coal	280	289	Shale	289	315
Sand	315	335	Shale	335	380
Coal	380	385	Sand	385	435
Coal	435	440	Sand	440	555
Shale	555	570	Sand	570	630
Shale	630	670	Sand	670	750
Shale	750	775	Sand	775	790
Shale	790	815	Sand	815	830
RedRock	830	895	Sand	895	910
Shale	910	930	Sand	930	1010
Shale	1010	1030	Sand	1030	1075
Shale	1075	1140	Lime	1140	

GAMMA RAY/ FORMATION		
#34531	TOPS	47-001-03048
	TOP	BASE
BIG LIME	1151	1218
KEENER	1220	1264
BIG INJUN SAND	1275	1340
POCONO WEIR	1395	1418
GANTZ	1548	1578
FIFTY FOOT	1595	1678
FOURTH SAND	2160	2199
WARREN	2542	2554
SPEECHLEY	2940	2945
BRADFORD	3320	3369
RILEY	3704	3878
BENSON	4030	4098
FIRST ELK	4300	4331
SECOND ELK	4424	4472
THIRD ELK	4695	4715
LTD		5132