

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

DATE: 2.9.011
API #: 47-702525

Farm name: BELKNAP, FRANK Operator Well No.: BELKNAP #7

LOCATION: Elevation: 933' Quadrangle: Cedarville 7.5

District: OTTER County: BRAXTON
Latitude: 38° Feet South of 4880 Deg. 38 Min. 46 Sec. 41.8
Longitude 80 Feet West of 1120 Deg. 80 Min. 47 Sec. 22.4

Company: PDL Services Inc

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>2085 LEISURE Rd. NW Minerva, OH 44657</u>	<u>40' 13"</u>	<input checked="" type="checkbox"/>	<u>40' 13"</u>	<u>Not Used</u>
Agent: <u>WADE BELKNAP</u>	<u>400' 8 5/8"</u>	<input checked="" type="checkbox"/>	<u>400' 8 5/8"</u>	<u>75 sacks</u>
Inspector: <u>Craig Duckworth</u>	<u>1650' 7"</u>	<input checked="" type="checkbox"/>	<u>1650' 7"</u>	<u>80 sacks</u>
Date Permit Issued: <u>12/01/2006</u>	<u>1600' 4 1/2"</u>		<u>1600' 4 1/2"</u>	<u>175 Sacks</u>
Date Well Work Commenced:	<u>1-4-07</u>			
Date Well Work Completed:	<u>12-9-07</u>			
Verbal Plugging:	<u>N</u>			
Date Permission granted on:	<u>N</u>			
Rotary <u>Cable</u> Rig	<u>Cable</u>			
Total Vertical Depth (ft):	<u>N</u>			
Total Measured Depth (ft):	<u>3031'</u>			
Fresh Water Depth (ft.):	<u>20'</u>			
Salt Water Depth (ft.):	<u>N</u>			
Is coal being mined in area (N/Y)?	<u>N</u>			
Coal Depths (ft.):	<u>No Coal</u>			
Void(s) encountered (N/Y) Depth(s)	<u>N</u>			

Flow to top
Flow to top
Flow over 2 Barrel

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation 3RD salt sand Pay zone depth (ft) 1545' to 1566'
Gas: Initial open flow 14500 MCF/d Oil: Initial open flow NO Bbl/d
Final open flow 75000 MCF/d Final open flow NO Bbl/d
Time of open flow between initial and final tests 40 Hours
Static rock Pressure 225 psig (surface pressure) after 12 Hours

Second producing formation None 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

Well Caved in 1650' to 3031'
Cement off when 4 1/2" pipe was set, only 3RD salt sand

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.

Wade Belknap
Signature

2.9.11
Date

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes _____ No

Were _____ Electrical, Mechanical, _____ or Geophysical logs recorded on this well?
Y/N Y/N Y/N

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:

this well was shot from 1545' to 1566' with 42 shot holes in 4 1/2" pipe the stimulation was only 100 barrel of fresh water, no sand used. water flowed back to our tanks located near well. pit dry. no water or oil.

Formations Encountered: salt sand Top Depth 1545', 1566' Bottom Depth _____
Surface: _____

No hand logs kept on most of wells these wells having the same formations as Belknap Enterprises well # 1 47-007-2191 this well having a problem with the pencil cave formation top 1505' to 1540' caved in on tools at 3031' we did get tools out but lost all the hole from 1650' to 3031'.

My well Belknap Enterprises # 1 has a hand log with it. I drilled all these wells for PDI services, the formations the same. Wade Belknap Owner Belknap Enterprises.

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

COPY

Well Operator's Report of Well Work

Farm name: GASKINS, KENNETH & DEBORA Operator Well No.: HIRAM LYNCH 107

LOCATION: Elevation: 1,152' Quadrangle: WOLF SUMMIT 7.5'

District: TEN MILE County: HARRISON
Latitude: 3,750 Feet south of 39 Deg 17 Min 30 Sec.
Longitude: 10,950 Feet west of 80 Deg 27 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: TIM BENNETT

Permit Issued: 01/07/10

Well work Commenced: 01/29/10

Well work Completed: 02/03/10

Verbal plugging permission granted on:

Rotary X Cable _____ Rig _____

Total Depth (feet) 2930'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	483'	483'	115 sks
4 1/2"	2866.35'	2866.35'	150 sks

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OPEN FLOW DATA * WATERFLOOD INJECTOR

NOV 04 2011

Producing formation Fifth Sand Pay zone (ft) 2767.5'-2770.5, 2773'-27

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

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

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.

For: EAST RESOURCES, INC.

By: Ba Held

Date: 5/12/11

Treatment :

Treated perfs. 2767.5'-2777' w/ 250 gals. 15% HCl acid,
230 bbls cross linked gel, and 5,000 # 20/40 sand.

Well Log :

SEE ORIGINAL WELL RECORD

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Well Operator's Report of Well Work

Farm name: HUFFMAN, BRIAN V. Operator Well No.: W.F. WILLIAMS 111

LOCATION: Elevation: 1.348' Quadrangle: SALEM 7.5'

District: TEN MILE County: HARRISON
Latitude: 5,625 Feet south of 39 Deg 17 Min 30 Sec.
Longitude: 25 Feet west of 80 Deg 27 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: TIM BENNETT

Permit Issued: 01/13/10

Well work Commenced: 01/29/10

Well work Completed: 02/25/10

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3110'

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	676'	676'	165 sks
4 1/2"	3091.4'	3091.4'	150 sks
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OPEN FLOW DATA

* WATERFLOOD INJECTOR

NOV 04 2011

Producing formation Fifth Sand WV Department of Environmental Protection Pay zone (ft) 2949.5'-2952', 2954'-295

Gas: Initial open flow * MCF/d * Bbl/d
 Final open flow * MCF/d * Bbl/d
 Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ 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

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.

For: EAST RESOURCES, INC.

By: _____

Date: _____

Open Helder
5/12/10

Treatment :

Treated perms. 2949.5'-2959' w/ 250 gals. 15% HCl acid,
234 bbls gelled water, and 1000 # 20/40 sand.

Well Log :

SEE ORIGINAL WELL RECORD

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 Well Operator's Report of Well Work

DATE: **MAY 04 2010**
 API No: **47-033-05331**
 Lease No: **052916**

Farm Name: YOHO, EMMA JANE

Operator Well No. 32341

LOCATION: Elevation: 1138'

Quadrangle: West Milford 7.5'

District: Union

County: Harrison

Latitude: 14,605 Feet South of: 39 Deg. 15 Min. 00 Sec.
 Longitude: 6,855 Feet West of: 80 Deg. 25 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: Rodney J. Biggs				
Inspector: Tim Bennett				
Date Permit Issued: 10/06/2009				
Date Well Work Commenced: 02/01/2010	9 5/8"	31'	31'	Sand In
Date Well Work Completed: 02/16/2010				
Verbal Plugging:	7"	1056'	1056'	165 sks
Date Permission granted on:				
Rotary X Cable Rig	4 1/2"	4416'	4416'	295 sks
Total Depth (feet): 4,420'				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				
Oil Depths (ft.): N/A				

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OPEN FLOW DATA

Producing formation	Pay zone depth (ft)	Gas: Initial open flow	Gas: Final open flow	Gas: Time of open flow between initial and final tests	Static Rock Pressure	Oil: Initial open flow	Oil: Final open flow	Oil: Time of open flow between initial and final tests
SPEECHLEY BALLTOWN RILEY BENSON	2882'-2982' 3190'-3220' 3684'-3692' 4276'-4284'	60 MCF/d	712 MCF/d	150 Hours	150 psig (surface pressure) after 12 Hours	0 Bbl/d	0 Bbl/d	12 Hours

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Second Producing formation	Pay zone depth (ft)	Gas: Initial open flow	Gas: Final open flow	Gas: Time of open flow between initial and final tests	Static rock Pressure	Oil: Initial open flow	Oil: Final open flow	Oil: Time of open flow between initial and final tests
5TH SAND BAYARD	2284'-2292' 2328'-2334'	* MCF/d	* MCF/d	* Hours	* psig (surface pressure) after * Hours	* Bbl/d	* Bbl/d	* Hours

*** COMMINGLED WITH PREVIOUS FORMATIONS**

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Signed: Rodney J. Biggs
 By: Rodney J. Biggs
 Date: 4/10/10

WELL: 32341 DEPI

SUPERIOR WIRELINE RAN BOND LOG. TD - 4406'. TOC - 625'. SUPERIOR
 PERFED LEFT PERF GUN IN WELL. UNIVERSAL FRACED AS FOLLOWS:
 BENSON, 4276'-4284', 16 HOLES, BD 3197#, AVG RATE 30 BPM, AVG PRESS 2456#,
 480 BBLs, TOT SAND 36,000#, 65 MSCFN2, ISIP 1680#
 RILEY, 3684'-3692', 16 HOLES, BD 3082#, AVG RATE 30 BPM, AVG PRESS 2334#,
 335 BBLs, TOT SAND 20,000#, 35 MSCFN2, ISIP 1580#
 BALLTOWN, 3190'-3220', 14 HOLES, BD 1400#, AVG RATE 30 BPM, AVG PRESS 2154#,
 358 BBLs, TOT SAND 26,000#, 38 MSCFN2, ISIP 1160#
 SPEECHLEY, 2882'-2982, 13 HOLES, BD 2845#, AVG RATE 30 BPM, AVG PRESS 2174#,
 390 BBLs, TOT SAND 30,000#, 43 MSCFN2, ISIP 1170#
 BAYARD, 2328'-2334', 12 HOLES, BD 1370#, AVG RATE 20 BPM, AVG PRESS 1985#,
 300 BBLs, TOT SAND 19,000#, 25 MSCFN2, ISIP 1460#
 5TH SAND, 2284'-2292', 16 HOLES, BD 1580#, AVG RATE 20 BPM, AVG PRESS 2040#,
 358 BBLs, TOT SAND 20,000#, 33 MSCFN2, ISIP 1650#
 E.C. RIG CLEANED UP AFTER FRAC.

Fill	0	30	Sand/Shale	30	280
Sand/Shale	280	490	Sand/Shale	490	648
Sand/Shale	648	1008	Sand/Shale	1008	1208
Sand/Shale	1208				

GAMMA RAY/ FORMATION		
TOPS		47-033-05331
	TOP	BASE
LITTLE LIME	1332	1350
BIG LIME	1382	1442
BIG INJUN SAND	1443	1544
GANTZ	1762	1810
FIFTY FOOT	1860	1928
THIRTY FOOT	1960	1976
GORDON	2012	2168
FOURTH SAND	2200	2230
FIFTH SAND	2282	2296
BAYARD	2320	2339
ELIZABETH	2584	2688
WARREN	2708	2750
SPEECHLEY	2854	2990
BALLTOWN	3108	3240
BRADFORD	3678	3740
BENSON	4274	4318
LTD	4453	

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Well Operator's Report of Well Work

Farm Name: Foster, Jaqueline Date: 6/8/2011
 Operator Well No.: Sheppard #1 API #: 47-3906273

LOCATION			
Elevation:	<u>1007</u>	Quadrangle:	<u>Big Chimney</u>
District:	<u>Elk</u>	County:	<u>Kanawha</u>
Latitude:	<u>38.422963</u>	NAD 27	
Longitude:	<u>81.5771443</u>	NAD 27	

WELL INFORMATION					
Company:	<u>Reserve Oil and Gas, Inc.</u>	Casing & Used in	Left in	Cement Fill up	
Address:	<u>929 Charleston Road</u>	Tubing:	Drilling:	Well:	Cu. Ft.
	<u>Spencer, WV 25276</u>	<u>13 3/8"</u>	<u>21.00</u>	<u>21.00</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>336.00</u>	<u>336.00</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>1983.85</u>	<u>1983.85</u>	<u>cts</u>
Date Permit Issued:	<u>10/15/2010</u>	<u>4 1/2"</u>	<u>4662.60</u>	<u>4662.60</u>	<u>130 sks</u>
Date Work Commenced:	<u>10/28/2010</u>				
Date Work Completed:	<u>11/15/2010</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #2</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4710</u>	Total Measured Depth (FT): <u>4710</u>			
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>975</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>N/A</u>	Void(s) Encountered (N/Y) / Depth(s): <u>N/A</u>			

OPEN FLOW DATA			
Producing Formation:	<u>Devonian Shale</u>	Pay Zone Depth (FT):	<u>3001</u> to <u>4651</u>
Gas		Oil	
Initial Open Flow:	<u>21</u>	Initial Open Flow:	<u>N/A</u>
Final Open Flow:	<u>321</u>	Final Open Flow:	<u>N/A</u>
Time of open flow between initial and final tests:			<u>192</u> Hours.
Static Rock Pressure:	<u>513</u> PSIG (Surface Pressure) after:		<u>24</u> Hours.
2nd Producing Formation:		Pay Zone Depth (FT):	
Gas		Oil	
Initial Open Flow:		Initial Open Flow:	
Final Open Flow:		Final Open Flow:	
Time of open flow between initial and final tests:			Hours.
Static Rock Pressure:		PSIG (Surface Pressure) after:	Hours.

6273

Signed: J. Scott Freshwater Date: 6/8/11
 By: J. Scott Freshwater

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.

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Well Operator's Report of Well Work

Farm Name: Danielson, Robert Date: 6/8/2011
Operator Well No.: Danielson #2 API #: 47-3906276

LOCATION

Elevation: 1182 Quadrangle: Big Chimney
District: Elk County: Kanawha
Latitude: 38.4259502 NAD 27
Longitude: 81.5845298 NAD 27

WELL INFORMATION

Company:	Reserve Oil and Gas, Inc.	Casing & Tubing:	Used in Drilling:	Left in Well:	Cement Fill up Cu. Ft.
Address:	<u>929 Charleston Road Spencer, WV 25276</u>	<u>13 3/8"</u>	<u>21.00</u>	<u>21.00</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>335.55</u>	<u>335.55</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>2149.55</u>	<u>2149.55</u>	<u>cts</u>
Date Permit Issued:	<u>10/29/2010</u>	<u>4 1/2"</u>	<u>4870.85</u>	<u>4870.85</u>	<u>140 sks</u>
Date Work Commenced:	<u>11/11/2010</u>				
Date Work Completed:	<u>1/19/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #2</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4894</u>	Total Measured Depth (FT):			<u>4894</u>
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>1315</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>N/A</u>	Void(s) Encountered (N/Y) / Depth(s): <u>N/A</u>			

OPEN FLOW DATA

Producing Formation:	<u>Devonian Shale</u>	Pay Zone Depth (FT):	<u>2999</u>	to	<u>4859</u>
Gas		Oil			
Initial Open Flow:	<u>26</u>	Initial Open Flow:	<u>N/A</u>		
Final Open Flow:	<u>207</u>	Final Open Flow:	<u>N/A</u>		
Time of open flow between initial and final tests:			<u>1536</u>	Hours.	
Static Rock Pressure:	<u>495</u>	PSIG (Surface Pressure) after:	<u>24</u>	Hours.	
2nd Producing Formation:		Pay Zone Depth (FT):		to	
Gas		Oil			
Initial Open Flow:		Initial Open Flow:			
Final Open Flow:		Final Open Flow:			
Time of open flow between initial and final tests:				Hours.	
Static Rock Pressure:		PSIG (Surface Pressure) after:		Hours.	

6276

Signed: J. Scott Freshwater Date: 6/8/11
By: J. Scott Freshwater

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.

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 Well Operator's Report of Well Work
 Continued

FORMATIONS

Formation:	From	To
Sub	0	10
Sand and Shale	10	31
Sand and Shale	31	357
Sand and Shale	357	974
Salt Sand	974	1098
Salt Sand	1098	1624
Salt Sand	1624	1800
Maxton	1800	1855
Little Lime	1855	1885
Little Lime	1885	1890
Big Lime	1890	2060
Injun	2060	2100
Injun	2100	2105
Shale	2105	2185
Shale	2185	2679
Shale	2679	3710
Shale	3710	4551
Shale	4551	4894

Water:		
Depth:	Amount:	Type:
46	damp	fresh water
1315	damp	salt water

Gas Checks:	
Depth:	Remarks:
3710	smell gas

Oil Shows:	
Depth:	Remarks:

FRACTURING

Perforations:

Stage 1:

Number of Perforations: 60

Depth From (FT): 3980

Depth To (FT): 4859

Stage 2:

Number of Perforations: 52

Depth From (FT): 2999

Depth To (FT): 4526

Stimulation:

Stage 1:

Remarks:

Total N2 = 1,002,364 SCF, Total 15% HCL Treatment Fluid = 1,008 Gallons, Total 7/8 inch 1.3 sp gr R ball sealers = 81 in 9 stages

Stage 2:

Remarks:

Total N2 = 1,002,256 SCF, Total 15% HCL Treatment Fluid = 1,008 Gallons, Total 7/8 inch 1.3 sp gr R ball sealers = 80 in 10 stages

Were Core Samples Taken (N/Y): No

Were Cuttings Caught During Drilling (N/Y): No

Were Geophysical Logs Recorded on This Well (N/Y): Yes

Electrical (N/Y): Yes

Mechanical (N/Y): Yes

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Well Operator's Report of Well Work

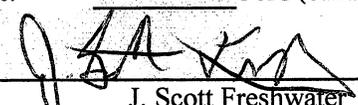
Well Name: Arthur, Richard A. Date: 6/8/2011
Operator Well No.: Arthur #2 API #: 47-3906277

LOCATION	
Elevation:	<u>1087</u> Quadrangle: <u>Big Chimney</u>
District:	<u>Elk</u> County: <u>Kanawha</u>
Latitude:	<u>38.411789</u> NAD 27
Longitude:	<u>81.593451</u> NAD 27

WELL INFORMATION					
Company:	Reserve Oil and Gas, Inc.	Casing & Tubing:	Used in Drilling:	Left in Well:	Cement Fill up Cu. Ft.
Address:	<u>929 Charleston Road</u>	<u>13 3/8"</u>	<u>21.00</u>	<u>21.00</u>	<u>cts</u>
	<u>Spencer, WV 25276</u>	<u>9 5/8"</u>	<u>335.80</u>	<u>335.80</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>7"</u>	<u>2065.15</u>	<u>2065.15</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>4 1/2"</u>	<u>4743.85</u>	<u>4743.85</u>	<u>135 sks</u>
Date Permit Issued:	<u>11/10/2010</u>				
Date Work Commenced:	<u>11/22/2010</u>				
Date Work Completed:	<u>2/2/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #2</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4800</u>	Total Measured Depth (FT): <u>4800</u>			
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>880</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>N/A</u>	Void(s) Encountered (N/Y) / Depth(s): <u>N/A</u>			

OPEN FLOW DATA			
Producing Formation:	<u>Devonian Shale</u>	Pay Zone Depth (FT):	<u>2928</u> to <u>4724</u>
Gas:		Oil:	
Initial Open Flow:	<u>21</u>	Initial Open Flow:	<u>N/A</u>
Final Open Flow:	<u>435</u>	Final Open Flow:	<u>N/A</u>
Time of open flow between initial and final tests:			<u>1344</u> Hours.
Static Rock Pressure:	<u>539</u> PSIG (Surface Pressure) after:		<u>24</u> Hours.
2nd Producing Formation:		Pay Zone Depth (FT):	
Gas:		Oil:	
Initial Open Flow:		Initial Open Flow:	
Final Open Flow:		Final Open Flow:	
Time of open flow between initial and final tests:			Hours.
Static Rock Pressure:		PSIG (Surface Pressure) after:	Hours.

6277

Signed:  Date: 6/8/11
By: J. Scott Freshwater

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.

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

Farm Name: Payne, Charles Date: 6/8/2011
 Operator Well No.: Payne #1 API #: 47-3906279

LOCATION
 Elevation: 920 Quadrangle: Big Chimney
 District: Elk County: Kanawha
 Latitude: 38.4352333 NAD 27
 Longitude: 81.5876134 NAD 27

WELL INFORMATION					
Company:	Reserve Oil and Gas, Inc.	Casing &	Used in	Left in	Cement Fill up
Address:	929 Charleston Road	Tubing:	Drilling:	Well:	Cu. Ft.
	Spencer, WV 25276	13 3/8"	21.00	21.00	cts
Agent:	J. Scott Freshwater	9 5/8"	334.75	334.75	cts
Inspector:	Terry Urban	7"	1897.35	1897.35	cts
Date Permit Issued:	11/22/2010	4 1/2"	4569.95	4569.95	140 sks
Date Work Commenced:	12/16/2010				
Date Work Completed:	2/9/2011				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	CSi Rig #2				
Cable Rig:					
Total Vertical Depth (FT):	4622	Total Measured Depth (FT):			4622
Fresh Water Depth (FT):	46				
Salt Water Depth (FT):	975				
Is coal being mined in area (N/Y):	No				
Coal Depths (FT):	N/A	Void(s) Encountered (N/Y) / Depth(s): N/A			

OPEN FLOW DATA					
Producing Formation:	Devonian Shale	Pay Zone Depth (FT):	3081	to	4546
Gas		Oil			
Initial Open Flow:	21	Initial Open Flow:	N/A		
Final Open Flow:	231	Final Open Flow:	N/A		
Time of open flow between initial and final tests:			408	Hours.	
Static Rock Pressure:	605	PSIG (Surface Pressure) after:	24	Hours.	
2nd Producing Formation:		Pay Zone Depth (FT):		to	
Gas		Oil			
Initial Open Flow:		Initial Open Flow:			
Final Open Flow:		Final Open Flow:			
Time of open flow between initial and final tests:				Hours.	
Static Rock Pressure:		PSIG (Surface Pressure) after:		Hours.	

Signed: [Signature] Date: 6/8/11
 By: J. Scott Freshwater

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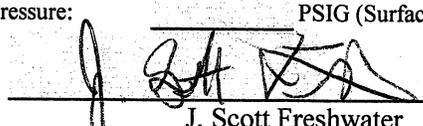
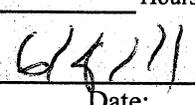
State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Truman, Travis Date: 6/8/2011
Operator Well No.: Bossie #1 API #: 47-3906290

LOCATION	
Elevation:	<u>1071</u>
District:	<u>Elk</u>
Latitude:	<u>38.4154169</u>
Longitude:	<u>81.5882116</u>
Quadrangle:	<u>Big Chimney</u>
County:	<u>Kanawha</u>
	<u>NAD 27</u>
	<u>NAD 27</u>

WELL INFORMATION					
Company:	<u>Reserve Oil and Gas, Inc.</u>	Casing &	Used in	Left in	Cement Fill up
Address:	<u>929 Charleston Road</u>	Tubing:	Drilling:	Well:	Cu. Ft.
	<u>Spencer, WV 25276</u>	<u>13 3/8"</u>	<u>22.00</u>	<u>22.00</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>337.05</u>	<u>337.05</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>2073.60</u>	<u>2073.60</u>	<u>cts</u>
Date Permit Issued:	<u>3/29/2011</u>	<u>4 1/2"</u>	<u>4780.50</u>	<u>4780.50</u>	<u>135 sks</u>
Date Work Commenced:	<u>4/15/2011</u>				
Date Work Completed:	<u>5/20/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #10</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4809</u>	Total Measured Depth (FT): <u>4809</u>			
Fresh Water Depth (FT):					
Salt Water Depth (FT):	<u>1245</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>N/A</u>	Void(s) Encountered (N/Y) / Depth(s): <u>N/A</u>			

OPEN FLOW DATA			
Producing Formation:	<u>Devonian Shale</u>	Pay Zone Depth (FT):	<u>2811</u> to <u>4375</u>
Gas		Oil	
Initial Open Flow:	<u>26</u>	Initial Open Flow:	<u>N/A</u>
Final Open Flow:	<u>353</u>	Final Open Flow:	<u>N/A</u>
Time of open flow between initial and final tests:			<u>432</u> Hours.
Static Rock Pressure:	<u>335</u> PSIG (Surface Pressure) after:		<u>24</u> Hours.
2nd Producing Formation:		Pay Zone Depth (FT):	
Gas		Oil	
Initial Open Flow:		Initial Open Flow:	
Final Open Flow:		Final Open Flow:	
Time of open flow between initial and final tests:			Hours.
Static Rock Pressure:		PSIG (Surface Pressure) after:	Hours.
Signed:			Date: <u>6/8/11</u>
By:	<u>J. Scott Freshwater</u>		

6290

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.

WR-35
Rev (5-01)

DATE: 01-25-2011
API #: 47-5901983

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: RAWL SALES & PROCESSING Operator Well NO.: 1855

LOCATION: Elevation: 901.3' Quadrangle: DELBARTON

District: MAGNOLIA County: MINGO
Latitude: 9,683 Feet South of 37 Deg. 40 Min. 00 Sec.
Longitude 30 Feet West of 82 Deg. 10 Min. 00 Sec.

Company: M&M DRILLING, INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>HC 71, RT. 4, BOX 87-A</u>	<u>13 3/8"</u>	<u>30'</u>	<u>30'</u>	
<u>WHARNCLIFFE, WV 25651</u>	<u>9 5/8"</u>	<u>422'</u>	<u>422'</u>	<u>183</u>
Agent: <u>JAMES HILL</u>	<u>7"</u>	<u>2072'</u>	<u>2072'</u>	<u>435</u>
Inspector: <u>GARY SCITES</u>	<u>4 1/2"</u>	<u>4334'</u>	<u>4334'</u>	<u>304</u>
Date Permit Issued: <u>11/03/2008</u>				
Date Well Work Commenced: <u>04/08/10</u>				
Date Well Work Completed: <u>04/17/10</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>YES</u> Cable Rig				
Total Depth (feet): <u>4,356'</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.): <u>1366'</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.):				

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OPEN FLOW DATA

Producing formation Shale, Shale/Berea, Big Lime Pay zone depth (ft)SEE ATTACHED
Gas: Initial open flow 0 MCF/d Oil: Initial open flow Bbl/d
Final open flow 581 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 690 psig (surface pressure) after 72 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

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: Jerry Kenzler
Date: JANUARY 26, 2011

API# 47-5901983WELL 1855

ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH)			ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH)		
FROM	TO		FROM	TO	
0	8	SUB BASE			GAS CHECK @ 2350' - BIG LIME/SMELL
8	20	SAND STONE			GAS CHECK @ 2922' - COFFEE
20	1386	SAND/SHALE			SHALE/SMELL
1386	1525	SALT SAND			GAS CHECK @ 3072' - TOP BROWN
1525	1878	SAND/SHALE			SHALE/SMELL
1878	1985	MAX SAND			GAS CHECK @ 3703' - BROWN
1985	2025	LITTLE LIME			SHALE/SMELL
2025	2069	SAND/SHALE			GAS CHECK @ 4359' - TD/SMELL
2069	2355	BIG LIME			
2355	2995	SHALE			
2995	3049	BEREA			
3049	4355	SHALE			
4355	4359	CORNIFEROUS			

QUALITY NATURAL GAS, LLC
WR-35 COMPLETION REPORT - Attachment
TREATMENT SUMMARY

WELL NAME & NO.	<u>QUALITY NATURAL GAS, LLC, #1855</u>
API #	<u>47-5901983</u>
DATE	<u>01/10/2011</u>

STAGE NO. 1

TYPE FRAC	<u>NITROGEN</u>
ACID AMOUNT	<u>12 BARRELS</u>
# PERFORATIONS	<u>20 HOLES</u>
PERF INTERVAL	<u>3570-4096'</u>
MAXIMUM PRESSURE	<u>4508 PSI</u>
INSTANT SHUT IN PRESSURE	<u>1887 PSI</u>
TOTAL TREATMENT VOLUME	<u>902,644</u>

STAGE NO. 2

TYPE FRAC	<u>NITROGEN</u>
ACID AMOUNT	<u>12 BARRELS</u>
# PERFORATIONS	<u>14 HOLES</u>
PERF INTERVAL	<u>3036'-3152'</u>
MAXIMUM PRESSURE	<u>4578 PSI</u>
INSTANT SHUT IN PRESSURE	<u>2069 PSI</u>
TOTAL TREATMENT VOLUME	<u>903,683</u>

STAGE NO. 3

TYPE FRAC	<u>ACID</u>
ACID AMOUNT	<u>119 BARRELS</u>
# PERFORATIONS	<u>20 HOLES</u>
PERF INTERVAL	<u>2202'-2336'</u>
MAXIMUM PRESSURE	<u>2426 PSI</u>
INSTANT SHUT IN PRESSURE	<u>1087 PSI</u>
TOTAL TREATMENT VOLUME	<u>201,615</u>

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: T C Hammett Operator Well No.: Willow Island Hammett #2

LOCATION: Elevation: 996 Quadrangle: Willow Island

District: Grant County: Pleasants
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Company: Patchwork Oil & gas, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 8165 Elizabeth Pike Elizabeth, WV 26143				
Agent: Roger Whited				
Inspector: Jamie Stevens	9 5/8"	209	209	To surface
Date Permit Issued:	7"	998	998	To surface
Date Well Work Commenced: 09/07/2009	4 1/2"		2078	80 sks
Date Well Work Completed: 09/07/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): 2125				
Fresh Water Depth (ft.): NA				
Salt Water Depth (ft.): NA				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): _____				

OPEN FLOW DATA OPEN FLOW DATA

Producing formation 2nd Cow Run Sand Pay zone depth (ft) 288-333
Gas: Initial open flow 0 MCF/d Oil: Initial open flow show Bbl/d
Final open flow 0 MCF/d Final open flow show Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Perforated 2nd Cow Run Sand 56 holes from 288-333, let produce natural

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: Roger L. Whited
By: Roger L. Whited
Date: 5-25-11

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Well Operator's Report of Well Work

Farm name: McKown-Hammett Operator Well No.: #3

LOCATION: Elevation: 1033 Quadrangle: Schultz

District: Jefferson County: Pleasants
Latitude: 5150' Feet South of 39° Deg. 17 Min. 30 Sec.
Longitude 10210' Feet West of 81° Deg. 12 Min. 30 Sec.

Company: Syndex Resources, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>166 Hampshire Rd.</u> <u>Wellesley Hills, MA 02483</u>				
Agent: <u>Jim Prusack</u>				
Inspector: <u>Jamie Stevens</u>	<u>9 5/8"</u>	<u>216</u>	<u>216</u>	<u>To surface</u>
Date Permit Issued:	<u>7"</u>	<u>1740</u>	<u>1740</u>	<u>To surface</u>
Date Well Work Commenced: <u>4/13/2010</u>	<u>4 1/2"</u>		<u>5136</u>	<u>210 sks</u>
Date Well Work Completed: <u>4/20/2010</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): <u>5202</u>				
Fresh Water Depth (ft.): <u>NA</u>				
Salt Water Depth (ft.): <u>NA</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.):				

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OPEN FLOW DATA

Producing formation Benson & Riley Pay zone depth (ft) 4500-5074
Gas: Initial open flow show MCF/d Oil: Initial open flow show Bbl/d
Final open flow 250 MCF/d Final open flow 5 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation Brallier Shale Pay zone depth (ft) 3879-4333
Gas: Initial open flow as above MCF/d Oil: Initial open flow as above 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

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Signed: James P Prusack, Agent
By: JAMES P PRUSACK
Date: _____

Third producing formation Warren - Brallier Shale Pay zone depth (ft) 3508-3755
 Gas: Initial open flow as above MCF/d Oil: Initial open flow as above 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

1 st Stage	13 shots	4500-5074	250 sacks 20/40 sand 330 bbl & N2 Assist
2 nd Stage	15 shots	3879-4333	250 sacks 20/40 sand 330 bbl & N2 Assist
3 rd Stage	16 shots	3508-3755	250 sacks 20/40 sand 350 bbl & N2 Assist

Well Name	McKown-Hammatt #3 Permit No. 47-073-02520		
Elev.	1033		
<u>Fm Name</u>	<u>FM TOP</u>	<u>FM BOT</u>	<u>NOTES</u>
1st Salt			
2nd Salt			
3rd Salt			
Maxon	1538	1555	
Big Lime	1650	1732	
Keener			
Big Injun	1730	1843	
Weir			
Berea	2246	2252	
Fifty Foot	2359	2374	
Thirty Foot			
Gordon Stray			
Gordon	2484	2508	
Fourth			
Fifth			
Bayard			
Warren	3262	3322	
Speechley	3442	3534	
Riley	4496	4527	
Riley			
Riley			
Benson	4716	4720	

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Section of Oil and Gas
Well Operator's Report of Well Work



Farm Name: Mike Ross 8H

Operator Well No.: 627502

LOCATION Elevation: 1436'
District: Bucknon
Latitude: 2500ft South of 39° 00' 00"
Longitude: 5000ft West of 80° 15' 00"

Quadrangle: Adrian
County: Upshur

Company: Chesapeake Appalachia, L.L.C.
P.O. Box 18496
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"	40'	40'	Driven
13 3/8"	510'	510'	572 CF
9 5/8"	1805'	1805'	833 CF
5 1/2"	12,507'	12,507'	1983 CF

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 08/27/2009
Date Well work commenced: 01/29/2010
Date Well Work completed: 6/17/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 12507' TVD (ft): 7331'
Fresh Water Depth (ft): 375'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): 360'
Was this well logged and plugged back?
Yes ___ No X if yes -
depth cement plug set _____'

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Open Flow Data

1st Producing Formation Pay Zone Depth 7,578 ft to 12,371 ft
 Gas: Initial Open Flow 1,721 Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests In hours
 Line hours
 Static Rock Pressure 3,309 psig after hours

2nd Producing Formation Pay Zone Depth ft to ft
 Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests hours
 Static Rock Pressure psig after hours

3rd Producing Formation Pay Zone Depth ft to ft
 Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests hours
 Static Rock Pressure psig after hours

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Chesapeake Energy
Well No.: 627502

Perforated Intervals

1 st Stage	Marcellus	10 holes from	12,049 ft to	12,371 ft
2 nd Stage	Marcellus	10 holes from	11,649 ft to	11,971 ft
3 rd Stage	Marcellus	10 holes from	11,249 ft to	11,571 ft
4 th Stage	Marcellus	10 holes from	10,849 ft to	11,171 ft
5 th Stage	Marcellus	10 holes from	10,329 ft to	10,771 ft
6 th Stage	Marcellus	10 holes from	9,929 ft to	10,251 ft
7 th Stage	Marcellus	10 holes from	9,506 ft to	9,826 ft
8 th Stage	Marcellus	10 holes from	9,104 ft to	9,426 ft
9 th Stage	Marcellus	10 holes from	8,702 ft to	9,028 ft
10 th Stage	Marcellus	10 holes from	8,300 ft to	8,622 ft
11 th Stage	Marcellus	10 holes from	7,898 ft to	8,220 ft
12 th Stage	Marcellus	10 holes from	7,578 ft to	7,820 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater			
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 6,871 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,931 psi MTP 8,992 psi	
	Total Fluid 11,139 bbl	Total Nitrogen 0 scf	Total Sand 82,000 lb of 100 mesh	
			Total Sand 320,000 lb of 40/70	
	ISIP 4,373 psi	5 min 3,898 psi		
2 nd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,038 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,300 psi MTP 9,049 psi	
	Total Fluid 13,753 bbl	Total Nitrogen 0 scf	Total Sand 80,152 lb of 100 mesh	
			Total Sand 320,362 lb of 40/70	
	ISIP 5,990 psi	5 min 5,181 psi		
3 rd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,002 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,551 psi MTP 8,913 psi	
	Total Fluid 12,306 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh	
			Total Sand 320,000 lb of 40/70	
	ISIP 5,597 psi	5 min 4,542 psi		
4 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,554 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,428 psi MTP 8,932 psi	
	Total Fluid 13,013 bbl	Total Nitrogen 0 scf	Total Sand 83,000 lb of 100 mesh	
			Total Sand 292,000 lb of 40/70	
	ISIP 5,622 psi	5 min 4,721 psi		
5 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,519 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,355 psi MTP 8,781 psi	
	Total Fluid 19,769 bbl	Total Nitrogen 0 scf	Total Sand 245,200 lb of 100 mesh	
			Total Sand 321,00 lb of 40/70	
	ISIP 5,536 psi	5 min 5,616 psi		
6 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,861 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,102 psi MTP 8,856 psi	
	Total Fluid 10,883 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh	
			Total Sand 291,000 lb of 40/70	
	ISIP 5,793 psi	5 min 5,104 psi		
7 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,525 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,750 psi MTP 8,547 psi	
	Total Fluid 14,435 bbl	Total Nitrogen 0 scf	Total Sand 68,000 lb of 100 mesh	
			Total Sand 337,35 lb of 40/70	
	ISIP 5,927 psi	5 min 5,031 psi		
8 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,451 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,090 psi MTP 9,100 psi	

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	Total Fluid 12,148 bbl	Total Nitrogen 0 scf	Total Sand 78,000 lb of 100 mesh
			Total Sand 239,758 lb of 40/70
9 th Stage	ISIP 5,927 psi	5 min 5,400 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,511 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,035 psi MTP 8,231 psi
	Total Fluid 11,510 bbl	Total Nitrogen 0 scf	Total Sand 160,000 lb of 100 mesh
			Total Sand 237,291 lb of 40/70
10 th Stage	ISIP 4,989 psi	5 min 4,989 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,690 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,407 psi MTP 8,804 psi
	Total Fluid 11,113 bbl	Total Nitrogen 0 scf	Total Sand 52,914 lb of 100 mesh
			Total Sand 237,291 lb of 40/70
11 th Stage	ISIP 4,340 psi	5 min 3,867 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,801 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,103 psi MTP 8,990 psi
	Total Fluid 9,812 bbl	Total Nitrogen 0 scf	Total Sand 83,500 lb of 100 mesh
			Total Sand 227,155 lb of 40/70
12 th Stage	ISIP 5,595 psi	5 min 4,715 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,148 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,909 psi MTP 8,979 psi
	Total Fluid 4,312 bbl	Total Nitrogen 0 scf	Total Sand 76,631 lb of 100 mesh
			Total Sand 326,580 lb of 40/70
	ISIP 4,510 psi	5 min 3,901 psi	

Well Log

Formation Name	Top	Bottom	Comments
MAXTON	860	1334	
LITTLE LIME	1334	1400	
BIG LIME	1400	1634	
BIG INJUN	1634	1665	
GANTZ	1704	1764	
GORDON	1777	1793	
FOURTH SAND	2142	2191	
FIFTH SAND	2222	2298	
BAYARD	2338	2361	
ELIZABETH	2444	2481	
WARREN	2587	2615	
SPEECHLEY	2907	2964	
BALLTOWN	3117	3141	
RILEY	3740	3851	
BENSON	4155	4216	
ALEXANDER	4320	4405	
ANGOLA	4497	4816	
RHINESTREET	4816	5686	
ELK	5686	5733	
SYCAMORE	6487	6509	
MIDDLESEX	7001	7236	
GENESEO	7236	7294	
TULLY	7294	7335	
HAMILTON	7335	7560	
MARCELLUS	7560	7660	

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Signed:



CHESAPEAKE APPALACHIA, LLC

By: Tal Oden, Manager Regulatory

Date: 11/15/2010

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

Farm Name: Mike Ross 6H

Operator Well No.: 627501

LOCATION Elevation: 1436'
District: Buckhan
non

Quadrangle: Adrian
County: Upshur

Latitude: 1400ft South of 39° 00' 00"
Longitude: 11050ft West of 80° 15' 00"

Company: Chesapeake Appalachia, L.L.C.
P.O. Box 18496
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"	40'	40'	Driven
13 3/8"	475'	475'	566 CF
9 5/8"	1800'	1800'	821 CF
5 1/2"	12812'	12812'	1894 CF

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 09/27/2009
Date Well work commenced: 11/14/2009
Date Well Work completed: 12/21/2009
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 12812' TVD (ft):7295'
Fresh Water Depth (ft):375'
Salt Water Depth (ft.):NA
Is coal being mined in area (Yes No
Coal Depths (ft): 360'
Was this well logged and plugged back?
Yes ___ No x if yes -
depth cement plug set _____

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Open Flow Data

1st Producing Formation
Pay Zone Depth 7,798 ft to 12,672 ft
Gas: Initial Open Flow 1700 Mcf/day Oil: Initial Open Flow bbl/day
Final Open Flow Mcf/day Final Open Flow bbl/day
Time of Open Flow between Initial and Final Tests In Line hours
Static Rock Pressure 3,283 psig after hours

2nd Producing Formation
Pay Zone Depth ft to ft
Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
Final Open Flow Mcf/day Final Open Flow bbl/day
Time of Open Flow between Initial and Final Tests hours
Static Rock Pressure psig after hours

3rd Producing Formation
Pay Zone Depth ft to ft
Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
Final Open Flow Mcf/day Final Open Flow bbl/day
Time of Open Flow between Initial and Final Tests hours
Static Rock Pressure psig 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.

Chesapeake Energy
Well No.: 627501

Perforated Intervals

1 st Stage	Marcellus	10 holes from	12,350 ft to 12,672 ft
2 nd Stage	Marcellus	10 holes from	11,802 ft to 12,164 ft
3 rd Stage	Marcellus	10 holes from	11,420 ft to 11,742 ft
4 th Stage	Marcellus	10 holes from	11,002 ft to 11,324 ft
5 th Stage	Marcellus	10 holes from	10,750 ft to 11,072 ft
6 th Stage	Marcellus	10 holes from	10,200 ft to 10,522 ft
7 th Stage	Marcellus	10 holes from	9,798 ft to 10,120 ft
8 th Stage	Marcellus	10 holes from	9,398 ft to 9,720 ft
9 th Stage	Marcellus	10 holes from	8,998 ft to 9,320 ft
10 th Stage	Marcellus	10 holes from	8,598 ft to 8,920 ft
11 th Stage	Marcellus	10 holes from	8,198 ft to 8,520 ft
12 th Stage	Marcellus	10 holes from	7,798 ft to 8,120 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater		
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 6,331 psi
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,859 psi MTP 9,030 psi
	Total Fluid 23,235 bbl	Total Nitrogen 0 scf	Total Sand 97,791 lb of 100 mesh
			Total Sand 32,952 lb of 30/50
	ISIP 6,766 psi	5 min 5,141 psi	
2 nd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,050 psi
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,859 psi MTP 9,023 psi
	Total Fluid 41,883 bbl	Total Nitrogen 0 scf	Total Sand 89,289 lb of 100 mesh
			Total Sand 106,685 lb of 30/50
	ISIP 6,329 psi	5 min 5,251 psi	
3 rd Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,152 psi
	Average Rate 84 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,778 psi MTP 9,008 psi
	Total Fluid 37,244 bbl	Total Nitrogen 0 scf	Total Sand 83,883 lb of 100 mesh
			Total Sand 149,508 lb of 30/50
	ISIP 5,790 psi	5 min 5,419 psi	
4 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,243 psi
	Average Rate 90 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,895 psi MTP 8,812 psi
	Total Fluid 8,849 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh
			Total Sand 324,000 lb of 30/50
	ISIP 5,190 psi	5 min 4,668 psi	
5 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,903 psi
	Average Rate 82 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,895 psi MTP 8,812 psi
	Total Fluid 7,332 bbl	Total Nitrogen 0 scf	Total Sand 82,893 lb of 100 mesh
			Total Sand 134,308 lb of 30/50
	ISIP 6,690 psi	5 min NA psi	
6 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,100 psi
	Average Rate 72 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,900 psi MTP 8,990 psi
	Total Fluid 8,636 bbl	Total Nitrogen 0 scf	Total Sand 79,560 lb of 100 mesh
			Total Sand 176,909 lb of 30/50
	ISIP 5,641 psi	5 min 4,709 psi	
7 th Stage	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,138 psi
	Average Rate 75 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,606 psi MTP 9,000 psi
	Total Fluid 10,338 bbl	Total Nitrogen 0 scf	Total Sand 80,596 lb of 100 mesh
			Total Sand 320,104 lb of 30/50

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

Farm Name: Mike Ross 10H

Operator Well No.: 627503

LOCATION Elevation: 1436'
District: Buckhan

Quadrangle: Adrian
County: Upshur

non
Latitude: 2500ft South of 39° 00' 00"
Longitude: 5000ft West of 80° 15' 00"

Company: Chesapeake Appalachia, L.L.C.
P.O. Box 18496
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"	40'	40'	
13 3/8"	500'	500'	CTS
9 5/8"	1826'	1826'	CTS
5 1/2"	13047'	13047'	As needed

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 09/09/2009
Date Well work commenced: 12/23/2009
Date Well Work completed: 01/28/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 13047' TVD (ft):7381'
Fresh Water Depth (ft):375'
Salt Water Depth (ft.):NA
Is coal being mined in area (Yes No
Coal Depths (ft): 360'
Was this well logged and plugged back?
Yes ___ No x if yes -
depth cement plug set _____

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Open Flow Data

WV Department of
Environmental Protection

1st Producing Formation Pay Zone Depth 7,649 ft to 12,910 ft

Gas: Initial Open Flow	1,552 Mcf/day	Oil: Initial Open Flow	bbl/day
Final Open Flow	Mcf/day	Final Open Flow	bbl/day
Time of Open Flow between Initial and Final Tests	In	hours	
	Line	hours	
Static Rock Pressure	3,321 psig after	hours	

2nd Producing Formation Pay Zone Depth ft to ft

Gas: Initial Open Flow	Mcf/day	Oil: Initial Open Flow	bbl/day
Final Open Flow	Mcf/day	Final Open Flow	bbl/day
Time of Open Flow between Initial and Final Tests	hours		
Static Rock Pressure	psig after	hours	

3rd Producing Formation Pay Zone Depth ft to ft

Gas: Initial Open Flow	Mcf/day	Oil: Initial Open Flow	bbl/day
Final Open Flow	Mcf/day	Final Open Flow	bbl/day
Time of Open Flow between Initial and Final Tests	hours		
Static Rock Pressure	psig 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.

Chesapeake Energy
Well No.: 627503

Perforated Intervals

1 st Stage	Marcellus	10	holes from	12,588 ft to 12,910 ft
2 nd Stage	Marcellus	10	holes from	12,188 ft to 12,510 ft
3 rd Stage	Marcellus	10	holes from	11,788 ft to 12,110 ft
4 th Stage	Marcellus	10	holes from	11,388 ft to 11,710 ft
5 th Stage	Marcellus	10	holes from	10,988 ft to 11,310 ft
6 th Stage	Marcellus	10	holes from	10,588 ft to 10,749 ft
7 th Stage	Marcellus	10	holes from	10,188 ft to 10,510 ft
8 th Stage	Marcellus	10	holes from	9,788 ft to 10,110 ft
9 th Stage	Marcellus	10	holes from	9,276 ft to 9,598 ft
10 th Stage	Marcellus	10	holes from	8,874 ft to 9,196 ft
11 th Stage	Marcellus	10	holes from	8,474 ft to 8,796 ft
12 th Stage	Marcellus	10	holes from	8,074 ft to 8,396 ft
13 th Stage	Marcellus	10	holes from	7,649 ft to 7,971 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater			
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 7,792 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,533 psi MTP 9,005 psi	
	Total Fluid 8,960 bbl	Total Nitrogen 0 scf	Total Sand 202,390 lb of 100 mesh	
			Total Sand 200,369 lb of 40/70	
	ISIP 5,444 psi	5 min 4,457 psi		
2 nd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,746 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,225 psi MTP 9,014 psi	
	Total Fluid 8,566 bbl	Total Nitrogen 0 scf	Total Sand 201,00 lb of 100 mesh	
			Total Sand 273,000 lb of 40/70	
	ISIP 5,508 psi	5 min 4,607 psi		
3 rd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,876 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,274 psi MTP 9,087 psi	
	Total Fluid 8,958 bbl	Total Nitrogen 0 scf	Total Sand 200,100 lb of 100 mesh	
			Total Sand 201,000 lb of 40/70	
	ISIP 5,548 psi	5 min 4,358 psi		
4 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,117 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,398 psi MTP 9,189 psi	
	Total Fluid 10,659 bbl	Total Nitrogen 0 scf	Total Sand 188,000 lb of 100 mesh	
			Total Sand 172,000 lb of 40/70	
	ISIP 5,680 psi	5 min 4,587 psi		
5 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,337 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,651 psi MTP 8,793 psi	
	Total Fluid 22,458 bbl	Total Nitrogen 0 scf	Total Sand 410,376 lb of 100 mesh	
			Total Sand 199,000 lb of 40/70	
	ISIP 6,678 psi	5 min 5,305 psi		
6 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,989 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,390 psi MTP 8,937 psi	
	Total Fluid 22,545 bbl	Total Nitrogen 0 scf	Total Sand 404,120 lb of 100 mesh	
			Total Sand 206,000 lb of 40/70	
	ISIP 5,710 psi	5 min 5,206 psi		
7 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,906 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,957 psi MTP 9,129 psi	
	Total Fluid 10,687 bbl	Total Nitrogen 0 scf	Total Sand 200,000 lb of 100 mesh	
			Total Sand 198,000 lb of 40/70	
	ISIP 9,110 psi	5 min -- psi		
8 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,003 psi	

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	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,735 psi	MTP 9,090 psi
	Total Fluid 9,586 bbl	Total Nitrogen 0 scf	Total Sand 78,000 lb of 100 mesh
			Total Sand 240,000 lb of 40/70
9 th Stage	ISIP 5,400 psi	5 min -- psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,581 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,735 psi	MTP 9,090 psi
	Total Fluid 9,295 bbl	Total Nitrogen 0 scf	Total Sand 162,462 lb of 100 mesh
			Total Sand 208,175 lb of 40/70
10 th Stage	ISIP 5,685 psi	5 min 4,866 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,763 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,763 psi	MTP 9,001 psi
	Total Fluid 10,709 bbl	Total Nitrogen 0 scf	Total Sand 199,021 lb of 100 mesh
			Total Sand 198,848 lb of 40/70
11 th Stage	ISIP 6,113 psi	5 min 5,138 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 8,975 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,970 psi	MTP 8,818 psi
	Total Fluid 9,633 bbl	Total Nitrogen 0 scf	Total Sand 199,021 lb of 100 mesh
			Total Sand 198,000 lb of 40/70
12 th Stage	ISIP 5,258 psi	5 min 4,303 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,676 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,279 psi	MTP 8,258 psi
	Total Fluid 10,075 bbl	Total Nitrogen 0 scf	Total Sand 198,500 lb of 100 mesh
			Total Sand 204,955 lb of 40/70
13 th Stage	ISIP 5,142 psi	5 min 4,456 psi	
	Type of Treatment Slickwater		
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 7,541 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 8,280 psi	MTP 9,024 psi
	Total Fluid 6,962 bbl	Total Nitrogen 0 scf	Total Sand 177,440 lb of 100 mesh
			Total Sand 184,293 lb of 40/70
	ISIP 6,130 psi	5 min 5,279 psi	

Well Log

Formation Name	Top	Bottom	Comments
MAXTON	860	1334	
LITTLE LIME	1334	1400	
BIG LIME	1400	1634	
BIG INJUN	1634	1665	
GANTZ	1704	1764	
GORDON	1777	1793	
FOURTH SAND	2142	2191	
FIFTH SAND	2222	2298	
BAYARD	2338	2361	
ELIZABETH	2444	2481	
WARREN	2587	2615	
SPEECHLEY	2907	2964	
BALLTOWN	3117	3141	
RILEY	3740	3851	
BENSON	4155	4216	
ALEXANDER	4320	4405	
ANGOLA	4497	4816	
RHINESTREET	4816	5686	
ELK	5686	5733	
SYCAMORE	6487	6509	
MIDDLESEX	7001	7236	
GENESEO	7236	7294	
TULLY	7294	7335	
HAMILTON	7335	7560	
MARCELLUS	7560	7660	

Signed: _____

CHESAPEAKE APPALACHIA, LLC

By: TAL ODEN, MGR REGULATION DIV

Date: 9/9/2010

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