WR-35 Rev (9-11)

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

DATE:	
API#:	

Farm name:		Oper	iator we	II 1 N U		
OCATION: Elevation:		Quad	drangle:			
District:		Cou	nty:			
Latitude:	Feet South of	Deg	Mir	nS	ec.	
Longitude	Feet West of	Deg	Mir	ıS	ec.	
Company:						
A 11			ing &	Used in	Left in well	Cement fill
Address:		Tub	ıng	drilling		up Cu. Ft.
Agent:						
Inspector:						
Date Permit Issued:						
Date Well Work Co	mmenced:					
Date Well Work Co	mpleted:					
Verbal Plugging:	-					
Date Permission gra	inted on:					
	le Rig					
	oth (ft):					
Total Measured De						
Fresh Water Depth						
Salt Water Depth (
_	in area (N/Y)?					
Coal Depths (ft.):						
Void(s) encountered	l (N/Y) Depth(s)					
OPEN FLOW DATA (If a		a formations pla	naca inali	do additional	data on congreta o	hoot)
	more than two producing	-			data on separate s	silect)
_	MCF/d Oil: Init	-	_			
	MCF/d Final					
-	between initial and final					
Static rock Pressure	psig (surface pr	essure) after	Ног	ırs		
	nation					
	MCF/d Oil: Init					
_	MCF/d Final	-				
•	between initial and final					
Static rock Pressure	psig (surface pr	essure) after	Ног	ırs		
certify under penalty of law	that I have personally a	vominad and ar	n familia	r with the infe	rmation submitta	d on this docu
ll the attachments and that, b						
hat the information is true, a	·	nose marviduai	S IIIIIICUI	atery responsi	ole for obtaining	me miormano

Signature

Date

Were core samples taken? Yes	No	Were cuttings caught	during drilling? Yes	No
Were Electrical, Mechanical or Geophys	ical logs recorded on thi	s well? If yes, please list		
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE W	, PHYSICAL CHANG ORD OF THE TOPS	E, ETC. 2). THE WEL AND BOTTOMS OF	L LOG WHICH IS A S ALL FORMATIONS,	SYSTEMATIC
Perforated Intervals, Fracturing, or Stime	ulating:			
Plug Back Details Including Plug Type a	and Depth(s):			
Formations Encountered: Surface:	Top Dep	oth /	Bottom	<u>Depth</u>

WR-35 Rev (9-11)

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

DATE:	12/9/13	
API#:	4701706116	

Farm name: Sue Ann Spiker		Oper	ator Well No.: 5	13528	
LOCATION: Elevation: 1254		Quad	Irangle: Smithb	urg	
District: New Milton		Cour	nty: Doddridge	, WV	
Latitude: 10,599	Feet South of 39	Deg. 17	Min. 30	Sec.	
Longitude 8.392	Feet West of 80	Deg 42	Min 30	Sec	

Company: EQT Production Company

Company: EQT Production Company				
Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	72	72	82
Agent: Cecil Ray	13 3/8	665	665	661
Inspector: Sam Ward	9 5/8	5,336	5,336	2,221
Date Permit Issued: 9/13/2012	5 1/2	11,950	11,950	1,884
Date Well Work Commenced: 10/25/2012				
Date Well Work Completed: 2/9/2013				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable Rig V				
Total Vertical Depth (ft): 6,812'				
Total Measured Depth (ft): 11,975'				
Fresh Water Depth (ft.): 106', 576'				
Salt Water Depth (ft.): No visible show				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 45', 281', 557', 628', 1,207', 1,376'				
Void(s) encountered (N/Y) Depth(s) No	at .			

OPEN FLOW DATA (If more than two producing formations plea	ase include additional data on separate sheet)
Producing formation Marcellus Pay zone de	epth (ft) <u>6.742</u>
Gas: Initial open flow 1,109 MCF/d Oil: Initial open flow 0	Bbl/d
Final open flow 12,799 MCF/d Final open flow 48	Bbl/d
Time of open flow between initial and final tests 74.5	Hours
Static rock Pressure 1,680 psig (surface pressure) after 74.5	5 Hours
	20
Second producing formation No second formation Pay zone dept	th (ft)
Gas: Initial open flowMCF/d Oil: Initial open flow	Bbl/d
Final open flowMCF/d Final open flow	Bbl/d
Time of open flow between initial and final tests	Hours
Static rock Pressurepsig (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 7/17/2014
Date

		Were c	uttings caught during of	ariting? Yes 1	_ 140
Were Electrical, Mechanica	al or Geophysical logs reco	orded on this well? If	yes, please list Yes, N	/IWD, Gamma, 8	CBL log
NOTE: IN THE AREA FRACTURING OR STINDETAILED GEOLOGIC COAL ENCOUNTERED Perforated Intervals, Fracture	MULATING, PHYSICA CAL RECORD OF TH DBY THE WELLBORE	L CHANGE, ETC. 2 IE TOPS AND BO). THE WELL LOG TTOMS OF ALL F	WHICH IS A SY	STEMATI
See Attachment					
Amended Report With	Flow Back Data				
Re-perforated stages 8		27 (27.1)			
- 100			15070	-3.36	
- Univ	200				
Plug Back Details Including	Plug Type and Denth(s):	Pumped solid s	oment plus from	/1\E 102! to 4	6001
(2) 4,780' to 3,735'		Pumpeu soliu u	ement plug from	1(1)5,125 10 4	,600
(2) 4,760 10 3,733					
Formations Encountered: Surface:		Top Depth	/	Bottom De	e <u>pth</u>
SAND/SHALE / 0 / 48 /	/ 48 COAL 48 / 53	LE CANDICHAI			
	7 10 00/1L 10/00	/ 5 SAND/SHAI	LE 53 / 281 / 228 ·	COAL 281 / 2	85 / 4
SAND/SHALE 285 / 56					85 / 4
SAND/SHALE 285 / 56 COAL 628 / 633 / 5 S	60 / 275 COAL 560	/ 577 / 17 SAN	D/SHALE 577 / 62		85 / 4
SAND/SHALE 285 / 56 COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1	60 / 275 COAL 560 SAND/SHALE 633 / 1	/ 577 / 17 SAN 1207 / 574 COA	D/SHALE 577 / 62 L 1207 / 1210 / 3	28 / 51	85 / 4
COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1	60 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S	D/SHALE 577 / 62 L 1207 / 1210 / 3 SAND/SHALE 138	28 / 51	85 / 4
COAL 628 / 633 / 5 \$ SAND/SHALE 1210 / 1 MAXTON 1746 / 1947	60 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E	D/SHALE 577 / 62 L 1207 / 1210 / 3 SAND/SHALE 138 BIG INJUN 2041 /	28 / 51 1 / 1746 / 365 2244 / 203	85 / 4
COAL 628 / 633 / 5 \$	60 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19 00 TOP DEVONIAN	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E N 2344 / 2451 / 10	D/SHALE 577 / 62 L 1207 / 1210 / 3 SAND/SHALE 138 BIG INJUN 2041 / D7 GANTZ 2451	28 / 51 1 / 1746 / 365 2244 / 203 / 2573 / 122	85 / 4
COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1 MAXTON 1746 / 1947 WEIR 2244 / 2344 / 10 FITY FOOT 2573 / 266	60 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19 00 TOP DEVONIAN 68 / 95 THIRTY FO	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E N 2344 / 2451 / 10 OT 2668 / 2729 /	D/SHALE 577 / 62 L 1207 / 1210 / 3 SAND/SHALE 138 BIG INJUN 2041 / D7 GANTZ 2451 61 GORDON 2	28 / 51 1 / 1746 / 365 2244 / 203 / 2573 / 122 729 / 2818 / 89	85 / 4
COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1 MAXTON 1746 / 1947 WEIR 2244 / 2344 / 10	60 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19 00 TOP DEVONIAN 68 / 95 THIRTY FO 2991 / 173 BAYAR	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E N 2344 / 2451 / 10 OT 2668 / 2729 / D 2991 / 3058 / 6	D/SHALE 577 / 62 L 1207 / 1210 / 3 SAND/SHALE 138 BIG INJUN 2041 / 07 GANTZ 2451 61 GORDON 2 7 WARREN 325	28 / 51 1 / 1746 / 365 2244 / 203 / 2573 / 122 729 / 2818 / 89 57 / 3336 / 79	85 / 4
COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1 MAXTON 1746 / 1947 WEIR 2244 / 2344 / 10 FITY FOOT 2573 / 266 FORTH SAND 2818 / 2 SPEECHLEY 3336 / 39	50 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19 00 TOP DEVONIAN 68 / 95 THIRTY FO 2991 / 173 BAYAR 999 / 663 BALTOV	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E N 2344 / 2451 / 10 POT 2668 / 2729 / D 2991 / 3058 / 6 VN B 3999 / 4506	D/SHALE 577 / 62 SAND/SHALE 138 BIG INJUN 2041 / 07 GANTZ 2451 61 GORDON 2 7 WARREN 325 / 507 RILEY 45	28 / 51 11 / 1746 / 365 2244 / 203 / 2573 / 122 729 / 2818 / 89 57 / 3336 / 79 06 / 4923 / 417	
COAL 628 / 633 / 5 S SAND/SHALE 1210 / 1 MAXTON 1746 / 1947 WEIR 2244 / 2344 / 10 FITY FOOT 2573 / 266 FORTH SAND 2818 / 2	50 / 275 COAL 560 SAND/SHALE 633 / 1 1376 / 166 COAL 1 / 201 BIG LIME 19 00 TOP DEVONIAN 68 / 95 THIRTY FO 2991 / 173 BAYAR 999 / 663 BALTOW / 257 ALEXANDER	/ 577 / 17 SAN 1207 / 574 COA 376 / 1381 / 5 S 947 / 2041 / 94 E N 2344 / 2451 / 10 9OT 2668 / 2729 / D 2991 / 3058 / 6 VN B 3999 / 4506 R 5180 / 6351 / 11	D/SHALE 577 / 62 AL 1207 / 1210 / 3 SAND/SHALE 138 BIG INJUN 2041 / 07 GANTZ 2451 61 GORDON 2 7 WARREN 325 / 507 RILEY 45	28 / 51 1 / 1746 / 365 2244 / 203 / 2573 / 122 729 / 2818 / 89 57 / 3336 / 79 06 / 4923 / 417 351 / 6513 / 162	

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4/2/14 2.20 11,870 MA 11,801.00 11,821	Toe Pop		11,787.00	NA	11,922.00	11,925.00	NA
4/2/14 806 11,637.00 11,730.00 11,531.00 11,731.00 4/2/14 806 11,637.00 11,637.00 11,637.00 11,637.00 11,637.00 4/3/14 7.55 11,437.00 11,637.00 11,637.00 11,637.00 11,637.00 4/3/14 7.35 11,337.00 11,037.00 11,037.00 11,037.00 11,037.00 4/3/14 3.31 10,887.00 11,037.00 10,037.00 11,037.00 11,037.00 4/3/14 3.32 10,887.00 11,037.00 10,587.00 10,587.00 10,587.00 10,587.00 4/4/14 3.25 10,587.00 10,887.00 10,587.00 10,587.00 10,587.00 10,287.00 4/4/14 3.25 10,387.00 10,887.00 10,587.00 10,287.00 <td>1</td> <td>4/2/14 2:20</td> <td>11,787.00</td> <td>NA</td> <td>11,801.00</td> <td>11,891.00</td> <td>4</td>	1	4/2/14 2:20	11,787.00	NA	11,801.00	11,891.00	4
4/7/14 16:15 11,487.00 11,687.00	2	4/2/14 8:06	11,637.00	11,787.00	11,651.00	11,773.00	4
4/3/14 2.37 11,337 00 11,487 00 11,351 00 11,432 00 4/3/14 7.25 11,187 00 11,337 00 11,337 00 11,337 00 11,332 00 4/3/14 13:10 11,187 00 11,337 00 11,337 00 11,332 00 11,332 00 4/3/14 13:21 11,087 00 11,037 00 11,037 00 11,037 00 11,037 00 4/3/14 13:25 10,787 00 11,037 00 10,387 00 10,738 00 11,037 00 4/4/14 13:25 10,287 00 10,387 00 10,387 00 10,738 00 10,738 00 4/4/14 17:20 10,287 00 10,437 00 10,437 00 10,432 00 10,437 00 4/4/14 17:20 10,287 00 10,437 00 10,437 00 10,437 00 10,437 00 4/4/14 17:20 10,287 00 10,437 00 10,437 00 10,437 00 10,437 00 4/4/14 17:20 10,287 00 10,437 00 10,437 00 10,437 00 10,437 00 4/4/14 17:20 10,287 00 10,437 00 10,437 00 10,437 00 10,437 00 4/4/14 17:20 <t< td=""><td>3</td><td>4/2/14 16:15</td><td>11,487.00</td><td>11,637.00</td><td>11,501.00</td><td>11,623.00</td><td>4</td></t<>	3	4/2/14 16:15	11,487.00	11,637.00	11,501.00	11,623.00	4
4/3/14/725 11,187.00 11,337.00 11,333.00 4/3/14/725 11,187.00 11,337.00 11,333.00 4/3/14/13:10 10,370.00 11,387.00 11,337.00 11,333.00 4/3/14/13:21 10,887.00 11,387.00 10,781.00 10,781.00 4/3/14/13:22 10,787.00 10,887.00 10,781.00 10,783.00 4/3/14/14:22 10,287.00 10,887.00 10,431.00 10,733.00 4/3/14/14:22 10,437.00 10,487.00 10,431.00 10,733.00 4/3/14/14:22 10,437.00 10,487.00 10,431.00 10,733.00 4/3/14/14:22 10,437.00 10,487.00 10,432.00 10,432.00 4/3/14/14:22 10,437.00 10,437.00 10,437.00 10,437.00 4/3/14/14:22 10,437.00 10,437.00 10,437.00 10,437.00 4/3/14/14:22 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 4/3/14/14:22 9,837.00 9,837.00 9,237.00 9,237.00 9,327.00	4	4/3/14 2:37	11,337.00	11,487.00	11,351.00	11,473.00	4
4/3/14/31:10 11,037.00 11,187.00 11,051.00 11,173.00 4/3/14/31:21 11,037.00 11,037.00 11,037.00 11,037.00 11,037.00 4/3/14/31:23 10,787.00 11,037.00 10,756.00 10,758.00 11,037.00 4/3/14/31:25 10,787.00 10,887.00 10,887.00 10,756.00 10,758.00 4/4/14/31:25 10,787.00 10,487.00 10,487.00 10,487.00 10,587.00 10,753.00 4/4/14/31:25 10,287.00 10,437.00	5	4/3/14 7:25	11,187.00	11,337.00	11,201.00	11,323.00	4
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4/3/14 23.05 10/387.00 11/037.00 10/35.00 10.873.00 4/4/14 3.00 10/387.00 10/387.00 10/387.00 10/387.00 10/380.00 4/4/14 3.00 10/387.0	7	4/3/14 19:31	10,887.00	11,037.00	10,901.00	11,021.00	4
4/4/14 3:00 10,787.00 10,887.00 10,786.00 10,788.00 4/4/14 3:25 10,437.00 10,887.00 10,397.00 10,753.00 10,733.00 4/4/14 3:25 10,437.00 10,437.0	8	4/3/14 23:25	10,787.00	11,037.00	10,751.00	10,873.00	4
4/4/14 6:40 10,587.00 10,589.00 10,239.00 10,733.00 4/4/14 31:25 10,437.00 10,437.00 10,437.00 10,437.00 10,537.00 4/4/14 31:25 10,437.00 10,437.00 10,437.00 10,437.00 10,437.00 4/4/14 31:25 10,137.00 10,437.00 10,287.00 10,287.00 10,237.00 10,233.00 4/5/14 31:27 9,887.00 10,287.00 9,887.00 9,887.00 10,233.00 10,233.00 4/5/14 30.25 9,687.00 9,887.00 9,887.00 9,887.00 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 9,521.00 9,833.00 9,673.00 9,837.00 9,837.00 9,240.00 9,240.00 9,240.00 9,240.00 9,240.00 9,240.00 9,240.00 9,240.00 9,240.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 9,246.00 </td <td>8.1 (Re-Perf)</td> <td>4/4/14 3:00</td> <td>10,787.00</td> <td>10,887.00</td> <td>10,736.00</td> <td>10,768.00</td> <td>4</td>	8.1 (Re-Perf)	4/4/14 3:00	10,787.00	10,887.00	10,736.00	10,768.00	4
4/4/14325 10,43700 10,58700 10,45100 10,57300 4/4/143253 10,28700 10,43700 10,43700 10,43700 10,43700 4/4/143253 10,28700 10,43700 10,43700 10,43700 10,43700 4/5/143253 9,88700 10,13700 10,13100 9,83700 9,83700 9,83700 9,83700 9,83700 9,83700 9,83700 9,83700 9,23700 9,83700 9,241,00 9,23700 9,241,00 9,24200 9,241,00 9,24200 9,241,00 9,24200 9,241,00 9,24200 9,244,00 9,24200 9,24200 9,24200 9,24200 9,24200 9,24200 9,24200 9,24200 9,24200 9,24200<	6	4/4/14 6:40	10,587.00	10,887.00	10,599.00	10,723.00	4
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4/4/14 23:53 10,137.00 10,287.00 10,151.00 10,273.00 4/5/14 3:27 9,987.00 9,987.00 10,137.00 10,137.00 10,123.00 4/5/14 6:25 9,887.00 9,887.00 9,887.00 9,887.00 9,821.00 9,703.00 4/5/14 15:10 9,537.00 9,887.00 9,687.00 9,671.00 9,673.00 4/5/14 15:10 9,537.00 9,887.00 9,671.00 9,703.00 9,832.00 4/5/14 15:10 9,537.00 9,887.00 9,521.00 9,673.00 9,673.00 4/5/14 15:10 9,237.00 9,337.00 9,240.00 9,246.00 9,735.00 4/5/14 17:4 9,237.00 9,287.00 9,241.00 9,746.00 9,746.00 4/5/14 17:4 9,050.00 9,200.00 9,244.00 9,186.00 9,186.00 4/5/14 17:4 8,000.00 8,760.00 8,760.00 8,760.00 8,760.00 8,760.00 4/5/14 17:4 8,000.00 8,760.00 8,760.00 8,760.00 9,744.00 7,986.00 4	11	4/4/14 17:20	10,287.00	10,437.00	10,301.00	10,423.00	4
4/5/14 3:27 9,987.00 10,137.00 10,001.00 10,123.00 4/5/14 6:55 9,887.00 9,887.00 9,887.00 9,887.00 9,837.00 4/5/14 10:25 9,887.00 9,887.00 9,887.00 9,887.00 9,837.00 9,873.00 4/5/14 13:18 9,387.00 9,887.00 9,887.00 9,887.00 9,887.00 9,873.00 4/6/14 0:48 9,237.00 9,387.00 9,240.00 9,240.00 9,240.00 4/6/14 4:41 9,237.00 9,287.00 9,240.00 9,246.50 4/6/14 4:41 9,237.00 9,200.00 9,240.00 9,246.50 4/6/14 4:41 9,237.00 9,200.00 9,246.00 9,246.50 4/6/14 4:41 9,537.00 9,200.00 9,246.00 9,246.50 4/6/14 13:30 8,900.00 9,200.00 8,914.00 9,346.00 9,346.00 4/6/14 2:51 8,600.00 8,750.00 8,460.00 8,436.00 8,386.00 4/6/14 3:30 8,000.00 8,350.00 8,450.00 8,360.00 9,36	12	4/4/14 23:53	10,137.00	10,287.00	10,151.00	10,273.00	4
4/5/14 6:55 9,837.00 9,987.00 9,851.00 9,973.00 4/5/14 10:25 9,837.00 9,837.00 9,837.00 9,837.00 9,701.00 9,737.00 4/5/14 21:18 9,237.00 9,837.00 9,687.00 9,401.00 9,737.00 9,737.00 4/5/14 21:18 9,337.00 9,337.00 9,237.00 9,337.00 9,241.00 9,270.00 4/6/14 21:18 9,237.00 9,337.00 9,244.00 9,246.50 9,371.00 4/6/14 21:1 9,237.00 9,387.00 9,244.00 9,246.50 9,386.00 4/6/14 21:2 8,000.00 9,200.00 8,700.00 8,700.00 8,746.00 9,386.00 4/6/14 21:5 8,600.00 8,750.00 8,744.00 8,386.00 8,386.00 4/6/14 21:5 8,600.00 8,750.00 8,150.00 8,144.00 8,386.00 4/7/14 8:0 8,750.00 8,300.00 8,144.00 8,386.00 8,386.00 4/7/14 8:0 8,000.00 8,150.00 8,144.00 8,386.00 8,386.00 <t< td=""><td>13</td><td>4/5/14 3:27</td><td>9,987.00</td><td>10,137.00</td><td>10,001.00</td><td>10,123.00</td><td>4</td></t<>	13	4/5/14 3:27	9,987.00	10,137.00	10,001.00	10,123.00	4
4/5/14 10:25 9,687.00 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 9,837.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,537.00 9,244.50 9,245.00 9,246.50	14	4/5/14 6:55	9,837.00	9,987.00	9,851.00	9,973.00	4
4/5/14 15:10 9,537.00 9,687.00 9,551.00 9,673.00 4/5/14 21:18 9,337.00 9,537.00 9,401.00 9,537.00 4/6/14 6:48 9,337.00 9,337.00 9,401.00 9,246.50 4/6/14 8:41 9,237.00 9,337.00 9,246.50 9,246.50 4/6/14 8:41 9,237.00 9,200.00 9,040.00 9,246.50 9,246.50 4/6/14 17:46 8,750.00 9,050.00 9,050.00 8,914.00 9,186.00 4/6/14 17:46 8,750.00 8,900.00 8,764.00 8,736.00 8,736.00 4/6/14 17:46 8,750.00 8,750.00 8,614.00 8,736.00 8,736.00 4/7/14 8:50 8,450.00 8,614.00 8,736.00 8,736.00 8,334.00 8,336.00 4/7/14 8:50 8,450.00 8,750.00 8,134.00 8,134.00 8,136.00 4/7/14 8:50 8,250.00 8,150.00 8,146.00 7,386.00 7,386.00 4/8/14 1:30 7,250.00 8,000.00 7,364.00 7,386.00 7,386	15	4/5/14 10:25	9,687.00	9,837.00	9,701.00	9,823.00	4
4/5/14 21:18 9;387.00 9;537.00 9;537.00 9;533.00 4/6/14 0:48 9;337.00 9;387.00 9;371.00 9;371.00 4/6/14 0:48 9;337.00 9;387.00 9;251.00 9;371.00 4/6/14 13:30 4/6/14 13:30 8;000.00 9;050.00 9;064.00 9;186.00 4/6/14 17:46 8;700.00 9;050.00 8;000.00 9;064.00 9;036.00 4/6/14 17:46 8;700.00 8;000.00 8;000.00 8;000.00 8;000.00 4/6/14 17:46 8;700.00 8;700.00 8;760.00 8;760.00 8;736.00 4/6/14 17:46 8;700.00 8;700.00 8;760.00 8;736.00 8;736.00 4/7/14 8:50 8;450.00 8;750.00 8;740.00 8;736.00 8;736.00 4/7/14 8:50 8;150.00 8;150.00 8;750.00 8;740.00 8;736.00 4/8/14 1:57 7;850.00 8;000.00 7;864.00 7;86.00 7;86.00 4/8/14 1:57 7;700.00 8;000.00 7;250.00 7;250.00 7;	16	4/5/14 15:10	9,537.00	9,687.00	9,551.00	9,673.00	4
4/6/14 0.48 9,237.00 9,387.00 9,251.00 9,371.00 4/6/14 8.30 9,237.00 9,387.00 9,214.50 9,246.50 4/6/14 8.30 9,050.00 9,387.00 9,214.50 9,246.50 4/6/14 8.30 9,050.00 9,050.00 9,036.00 9,036.00 4/6/14 1.35 8,000.00 8,750.00 8,750.00 8,750.00 8,750.00 4/6/14 1.35 8,450.00 8,750.00 8,736.00 8,736.00 8,736.00 4/7/14 8.50 8,450.00 8,450.00 8,450.00 8,450.00 8,334.00 8,386.00 4/7/14 8.50 8,150.00 8,450.00 8,314.00 8,386.00 8,386.00 4/7/14 8.50 8,000.00 8,150.00 8,140.00 8,386.00 8,386.00 4/7/14 8.50 8,000.00 8,150.00 8,140.00 8,140.00 8,136.00 4/7/14 8.50 7,700.00 8,000.00 8,150.00 9,140.00 1,586.00 4/8/14 9.15 7,700.00 8,000.00 7,744.00 7,744.00 7,586.00 </td <td>17</td> <td>4/5/14 21:18</td> <td>9,387.00</td> <td>9,537.00</td> <td>9,401.00</td> <td>9,523.00</td> <td>4</td>	17	4/5/14 21:18	9,387.00	9,537.00	9,401.00	9,523.00	4
4/6/14 4:41 9,237.00 9,387.00 9,214.50 9,246.50 4/6/14 8:30 9,050.00 9,200.00 9,064.00 9,186.00 9,186.00 4/6/14 13:30 8,900.00 9,050.00 8,736.00 8,736.00 8,736.00 4/6/14 17:45 8,750.00 8,750.00 8,750.00 8,736.00 8,736.00 4/6/14 17:51 8,600.00 8,750.00 8,750.00 8,464.00 8,736.00 4/7/14 13:00 8,450.00 8,464.00 8,464.00 8,386.00 8,386.00 4/7/14 8:50 8,150.00 8,450.00 8,464.00 8,436.00 8,436.00 4/7/14 13:40 8,000.00 8,150.00 8,164.00 8,136.00 8,136.00 4/7/14 13:40 8,000.00 8,150.00 8,104.00 7,386.00 7,386.00 4/8/14 1:57 7,850.00 8,000.00 7,714.00 7,386.00 7,386.00 4/8/14 13:30 7,550.00 7,700.00 7,264.00 7,386.00 7,386.00 4/8/14 17:22 7,400.00 7,250.00 7,	18	4/6/14 0:48	9,237.00	9,387.00	9,251.00	9,371.00	4
4/6/14 8:30 9,050.00 9,200.00 9,064.00 9,186.00 4/6/14 13:30 8,900.00 9,050.00 8,914.00 9,036.00 4/6/14 17:46 8,750.00 8,900.00 8,764.00 8,886.00 4/6/14 21:51 8,600.00 8,750.00 8,764.00 8,764.00 8,786.00 4/7/14 21:51 8,600.00 8,750.00 8,760.00 8,760.00 8,760.00 8,736.00 4/7/14 8:50 8,450.00 8,750.00 8,714.00 8,736.00 8,736.00 8,736.00 4/7/14 8:50 8,000.00 8,750.00 8,714.00 8,736.00 8,736.00 4/8/14 13:40 7,850.00 8,000.00 7,744.00 7,986.00 7,986.00 4/8/14 13:51 7,700.00 7,700.00 7,744.00 7,286.00 7,386.00 4/8/14 13:52 7,400.00 7,280.00 7,264.00 7,286.00 7,286.00 4/8/14 13:37 7,100.00 7,280.00 7,286.00 7,286.00 7,286.00 4/8/14 8:37 7,100.00 7,280.00 7,	18.1 (Re-Perf)	4/6/14 4:41	9,237.00	9,387.00	9,214.50	9,246.50	4
4/6/14 13:30 8,900.00 9,050.00 8,914.00 9,036.00 4/6/14 17:46 8,750.00 8,900.00 8,764.00 8,886.00 8,886.00 4/6/14 21:51 8,600.00 8,750.00 8,750.00 8,750.00 8,750.00 8,750.00 4/7/14 1:09 8,450.00 8,600.00 8,600.00 8,600.00 8,714.00 8,736.00 4/7/14 1:09 8,450.00 8,600.00 8,600.00 8,450.00 8,286.00 8,286.00 4/7/14 13:40 8,150.00 8,150.00 8,150.00 8,136.00 8,136.00 4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,886.00 7,886.00 4/8/14 13:20 7,550.00 7,700.00 7,544.00 7,586.00 7,586.00 4/8/14 17:22 7,400.00 7,550.00 7,264.00 7,236.00 7,236.00 4/8/14 23:16 7,100.00 7,250.00 7,144.00 7,236.00 7,236.00 4/9/14 5:37 7,100.00 7,264.00 7,144.00 7,236.00 4/9/14 6:48 NA	19	4/6/148:30	9,050.00	9,200.00	9,064.00	9,186.00	4
4/6/14 17:46 8,750.00 8,900.00 8,764.00 8,886.00 4/6/14 21:51 8,600.00 8,750.00 8,614.00 8,736.00 4/6/14 21:51 8,600.00 8,600.00 8,646.00 8,736.00 4/7/14 1:09 8,450.00 8,460.00 8,456.00 8,436.00 4/7/14 8:50 8,150.00 8,450.00 8,464.00 8,436.00 4/7/14 8:50 8,150.00 8,150.00 8,136.00 8,286.00 4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,986.00 4/8/14 1:57 7,850.00 8,000.00 7,714.00 7,986.00 4/8/14 1:52 7,700.00 8,000.00 7,714.00 7,986.00 4/8/14 17:22 7,400.00 7,700.00 7,744.00 7,586.00 4/8/14 17:22 7,400.00 7,550.00 7,444.00 7,536.00 4/8/14 3:31 7,100.00 7,250.00 7,400.00 7,264.00 7,386.00 4/8/14 3:37 7,100.00 7,250.00 7,144.00 7,236.00 7,386.00	20	4/6/14 13:30	8,900.00	9,050.00	8,914.00	9,036.00	4
4/6/14 21:51 8,600.00 8,750.00 8,614.00 8,736.00 4/7/14 1:09 8,450.00 8,600.00 8,464.00 8,586.00 4/7/14 4:32 8,300.00 8,450.00 8,450.00 8,436.00 4/7/14 8:50 8,150.00 8,300.00 8,164.00 8,436.00 4/7/14 8:50 8,000.00 8,160.00 8,136.00 8,136.00 4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,986.00 4/8/14 1:57 7,850.00 8,000.00 7,714.00 7,986.00 4/8/14 9:15 7,700.00 8,000.00 7,714.00 7,986.00 4/8/14 17:22 7,400.00 7,700.00 7,764.00 7,586.00 4/8/14 23:16 7,250.00 7,550.00 7,564.00 7,586.00 4/8/14 23:16 7,250.00 7,260.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,260.00 7,386.00 4/9/14 6:48 4/9/14 6:48 7,114.00 7,286.00 7,286.00	21	4/6/14 17:46	8,750.00	8,900.00	8,764.00	8,886.00	4
4/7/14 1:09 8,450.00 8,600.00 8,464.00 8,586.00 4/7/14 4:32 8,300.00 8,450.00 8,314.00 8,436.00 4/7/14 8:50 8,150.00 8,300.00 8,164.00 8,1386.00 4/7/14 8:50 8,150.00 8,150.00 8,136.00 8,136.00 4/7/14 13:40 8,000.00 8,000.00 7,864.00 7,986.00 4/7/14 1:57 7,850.00 8,000.00 7,866.00 7,986.00 4/8/14 1:57 7,550.00 7,700.00 7,586.00 7,586.00 4/8/14 23:16 7,550.00 7,550.00 7,544.00 7,536.00 4/8/14 3:37 7,100.00 7,250.00 7,144.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,144.00 7,386.00	22	4/6/14 21:51	8,600.00	8,750.00	8,614.00	8,736.00	4
4/7/14 4:32 8,300.00 8,450.00 8,314.00 8,436.00 4/7/14 8:50 8,150.00 8,300.00 8,164.00 8,286.00 4/7/14 13:40 8,000.00 8,150.00 8,150.00 8,136.00 4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,986.00 4/8/14 13:30 7,700.00 8,000.00 7,744.00 7,986.00 4/8/14 13:30 7,550.00 7,550.00 7,544.00 7,586.00 4/8/14 23:16 7,250.00 7,400.00 7,264.00 7,536.00 4/8/14 3:37 7,100.00 7,250.00 7,144.00 7,236.00 4/9/14 3:37 7,100.00 7,250.00 7,144.00 7,236.00	23	4/7/14 1:09	8,450.00	8,600.00	8,464.00	8,586.00	4
4/7/14 8:50 8,150.00 8,300.00 8,164.00 8,286.00 4/7/14 13:40 8,000.00 8,150.00 8,014.00 7,864.00 7,986.00 4/7/14 22:15 7,850.00 8,000.00 7,876.50 7,986.00 7,986.00 4/8/14 1:57 7,700.00 8,000.00 7,714.00 7,986.00 7,986.00 4/8/14 13:30 7,550.00 7,700.00 7,564.00 7,586.00 7,586.00 4/8/14 17:22 7,250.00 7,550.00 7,440.00 7,586.00 7,386.00 4/8/14 23:16 7,250.00 7,550.00 7,264.00 7,386.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,286.00 7,386.00 4/9/14 6:48 NA 7,100.00 6,964.00 7,066.00 7,086.00	24	4/7/14 4:32	8,300.00	8,450.00	8,314.00	8,436.00	4
4/7/14 13:40 8,000.00 8,150.00 8,014.00 8,136.00 4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,986.00 4/8/14 13:57 7,850.00 8,000.00 7,876.50 7,986.00 4/8/14 13:30 7,550.00 7,700.00 7,564.00 7,586.00 4/8/14 17:22 7,400.00 7,550.00 7,444.00 7,536.00 4/8/14 23:16 7,250.00 7,400.00 7,250.00 7,386.00 4/8/14 3:37 7,100.00 7,250.00 7,144.00 7,386.00 4/9/14 5:48 A/9/14 6:48 7,100.00 7,250.00 7,144.00	25	4/7/148:50	8,150.00	8,300.00	8,164.00	8,286.00	4
4/7/14 22:15 7,850.00 8,000.00 7,864.00 7,986.00 4/8/14 1:57 7,850.00 8,000.00 7,876.50 7,986.00 4/8/14 9:15 7,700.00 8,000.00 7,714.00 7,986.00 4/8/14 13:30 7,550.00 7,700.00 7,414.00 7,586.00 7,586.00 4/8/14 17:22 7,250.00 7,400.00 7,264.00 7,386.00 7,386.00 4/8/14 23:16 7,250.00 7,250.00 7,144.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 MA 7,100.00 6,964.00 7,086.00	26	4/7/14 13:40	8,000.00	8,150.00	8,014.00	8,136.00	4
4/8/14 1:57 7,850.00 8,000.00 7,876.50 7,986.00 4/8/14 9:15 7,700.00 8,000.00 7,714.00 7,986.00 4/8/14 13:30 7,550.00 7,700.00 7,564.00 7,686.00 4/8/14 17:22 7,400.00 7,550.00 7,414.00 7,536.00 4/8/14 23:16 7,250.00 7,260.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 NA 7,100.00 6,964.00 7,086.00	27	4/7/14 22:15	7,850.00	8,000.00	7,864.00	7,986.00	4
4/8/14 9:15 7,700.00 8,000.00 7,714.00 7,986.00 4/8/14 13:30 7,550.00 7,564.00 7,686.00 7,686.00 4/8/14 17:22 7,400.00 7,550.00 7,414.00 7,536.00 4/8/14 23:16 7,250.00 7,250.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 MA 7,100.00 6,964.00 7,086.00	27.1 (Re-Perf)	4/8/14 1:57	7,850.00	8,000.00	7,876.50	7,986.00	4
4/8/14 13:30 7,550.00 7,700.00 7,564.00 7,686.00 4/8/14 17:22 7,400.00 7,550.00 7,414.00 7,536.00 4/8/14 23:16 7,250.00 7,400.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 NA 7,100.00 6,964.00 7,086.00	28	4/8/14 9:15	7,700.00	8,000.00	7,714.00	7,986.00	4
4/8/14 17:22 7,400.00 7,550.00 7,414.00 7,536.00 7,556.00 7,264.00 7,264.00 7,264.00 7,286.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,236.00 7,086.00	29	4/8/14 13:30	7,550.00	7,700.00	7,564.00	7,686.00	4
4/8/14 23:16 7,250.00 7,264.00 7,264.00 7,386.00 4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 NA 7,100.00 6,964.00 7,086.00	30	4/8/14 17:22	7,400.00	7,550.00	7,414.00	7,536.00	4
4/9/14 3:37 7,100.00 7,250.00 7,114.00 7,236.00 4/9/14 6:48 NA 7,100.00 6,964.00 7,086.00	31	4/8/14 23:16	7,250.00	7,400.00	7,264.00	7,386.00	4
4/9/14 6:48 NA 7,100.00 6,964.00 7,086.00	32	4/9/14 3:37	7,100.00	7,250.00	7,114.00	7,236.00	4
	33	4/9/14 6:48	NA	7,100.00	6,964.00	7,086.00	4

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ated
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2

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	15 Min. SIP (psi)	Fluid Volume (bbl)	Start Date	End Date	Proppant (lb)
Toe Pop	NA	9,142.00	5.6	NA	NA	NA	693	4/1/2014 19:27	4/2/2014 1:34	NA
1	5,533.00	8,079.00	95.4	5,024.00	1.17	3,647.00	5,454	4/2/2014 5:04	4/2/2014 6:20	200,200
2	7,462.00	8,274.00	95.8	4,943.00	1.16	3,783.00	5,195	4/2/2014 13:38	4/2/2014 14:57	197,600
3	7,512.00	8,298.00	98.7	5,446.00	1.23	4,103.00	5,446	4/2/2014 22:21	4/2/2014 23:32	201,200
4	6,781.00	8,211.00	100.4	5,507.00	1.24	4,178.00	4,926	4/3/2014 4:52	4/3/2014 6:03	200,900
5	6,582.00	8,145.00	97.4	4,652.00	1.12	3,466.00	4,993	4/3/2014 10:33	4/3/2014 11:48	201,400
9	6,796.00	8,157.00	94.4	5,060.00	1.18	4,025.00	5,118	4/3/2014 15:30	4/3/2014 16:48	200,400
7	6,254.00	8,171.00	9.66	5,247.00	1.21	3,910.00	4,625	4/3/2014 20:46	4/3/2014 21:54	200,100
8	5,547.00	7,288.00	36.1	5,210.00	1.2	NA	2,416	4/4/2014 0:27	4/4/2014 1:42	0
8.1 (Re-Perf)	NA	7,990.00	53.7	5,247.00	1.21	4,137.00	2,577	4/4/2014 4:18	4/4/2014 5:27	3,100
6	7,116.00	7,704.00	8.66	5,345.00	1.22	4,244.00	9,772	4/4/2014 8:56	4/4/2014 12:05	397,800
10	6,405.00	7,996.00	98.4	4,848.00	1.15	3,788.00	5,135	4/4/2014 14:43	4/4/2014 16:01	199,700
11	5,996.00	8,587.00	76.3	5,111.00	1.19	3,890.00	5,916	4/4/2014 20:50	4/4/2014 22:30	200,300
12	7,436.00	7,978.00	97.5	5,239.00	1.21	3,964.00	4,697	4/5/2014 0:53	4/5/2014 2:03	200,500
13	7,202.00	8,085.00	96.3	5,384.00	1.23	4,047.00	4,667	4/5/2014 4:29	4/5/2014 5:38	196,500
14	6,492.00	7,841.00	6.66	4,927.00	1.16	3,825.00	5,188	4/5/2014 8:03	4/5/2014 9:17	199,700
15	6,557.00	8,238.00	99.1	5,442.00	1.23	4,142.00	4,914	4/5/2014 12:47	4/5/2014 13:59	194,500
16	6,841.00	7,978.00	99.5	5,215.00	1.2	4,178.00	4,603	4/5/2014 18:10	4/5/2014 19:35	202,900
17	5,831.00	7,994.00	91.9	5,132.00	1.19	3,801.00	4,644	4/5/2014 22:16	4/5/2014 23:28	201,400
18	7,497.00	7,765.00	22.7	5,593.00	1.26	4,210.00	1,713	4/6/2014 2:09	4/6/2014 3:27	1,600
18.1 (Re-Perf)	NA	7,675.00	98.6	5,226.00	1.2	4,186.00	5,003	4/6/2014 6:04	4/6/2014 7:11	200,200
19	6,992.00	7,796.00	100.2	5,254.00	1.21	4,123.00	4,981	4/6/2014 11:25	4/6/2014 12:37	200,100
20	6,404.00	7,653.00	0.86	5,608.00	1.26	4,585.00	6,286	4/6/2014 15:00	4/6/2014 16:43	198,200
21	6,566.00	7,730.00	99.7	5,023.00	1.17	4,122.00	4,828	4/6/2014 19:24	4/6/2014 20:53	198,700
22	7,372.00	7,896.00	100.2	4,805.00	1.14	3,826.00	4,936	4/6/2014 22:42	4/6/2014 23:53	202,200
23	7,162.00	7,483.00	100.2	5,181.00	1.2	4,018.00	4,817	4/7/2014 2:00	4/7/2014 3:11	199,400
24	6,931.00	7,609.00	6.66	5,297.00	1.21	4,329.00	4,965	4/7/2014 6:31	4/7/2014 7:43	199,700
25	6,752.00	7,446.00	0.86	5,245.00	1.21	4,547.00	4,915	4/7/2014 11:13	4/7/2014 12:25	200,600
26	5,931.00	7,440.00	97.5	5,158.00	1.19	4,274.00	4,751	4/7/2014 19:56	4/7/2014 21:06	201,900
27	6,288.00	7,420.00	29.2	5,562.00	1.25	4,457.00	1,868	4/7/2014 23:36	4/8/2014 0:39	1,200
27.1 (Re-Perf)	NA	8,605.00	63.4	6,606.00	1.41	4,473.00	1,602	4/8/2014 2:49	4/8/2014 3:25	2,900
28	3,993.00	7,421.00	6.66	4,398.00	1.08	3,829.00	9,468	4/8/2014 10:11	4/8/2014 12:06	400,200
52	00.999'9	7,355.00	99.5	5,156.00	1.19	4,442.00	4,920	4/8/2014 14:50	4/8/2014 16:00	201,100
30	5,674.00	7,372.00	99.7	5,086.00	1.18	4,205.00	5,123	4/8/2014 19:23	4/8/2014 20:36	202,200
31	5,311.00	7,354.00	8.66	5,311.00	1.22	4,392.00	4,727	4/8/2014 23:16	4/9/2014 2:29	201,900
32	6,485.00	7,428.00	98.0	4,787.00	1.14	3,862.00	4,787	4/9/2014 4:37	4/9/2014 5:44	202,900
33	6,391.00	7,542.00	98.8	4,766.00	1.14	3,953.00	4,957	4/9/2014 7:49	4/9/2014 8:59	199,900