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WR-35 Rev. 8/23/13

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

API 47-95_02155 Cou	mty Tyler	District Lincoln	
Quad Paden City Pad	Name Wells Meckley Unit	Field/Pool Name Middlebo	urne
Farm name_Velma L. Wells		Well Number # 1405 MH	
Operator (as registered with the OOG) Triad	Hunter, LLC		
Address 122 W. John Carpenter Freeway, Suite 300	City_Irving	StateZip	, 75039
Top hole Northing Landing Point of Curve Northing	381169.85 E	and deviation survey Easting 1567277 Easting 1508343.52	
Bottom Hole Northing	373449.7 E	asting 1571040.58	
	ype of Well ANew 🗆 Existing	Type of Report nterim	Final
Permit Type 🛛 Deviated 🗆 Horizontal	Ellorizontal 6A D Vertica	Depth Type 🛛 Deep	Shallow
Type of Operation □ Convert □ Deepen	A Drill D Plug Back D Re	drilling 🗆 Rework 🗆 Stimu	late
Well Type 🛛 Brine Disposal 🗩 CBM 🛢 Gas	Oil  Secondary Recovery	Solution Mining D Storage D	Other
Type of Completion 🗆 Single 🛢 Multiple			and the second se
Drilled with Cable Rotary	ridius rioduced B brine BG	is a NGL BOIL DOther	
Drilling Media Surface hole Air D Mud Production hole Air Mud D Fresh W Mud Type(s) and Additive(s) Synthetic Mud System		ehole ∎Air ⊡Mud ⊔Fresh	Water 🗅 Brine
	drilling commenced 1/4/201	Re-WOrk 12/23/ 5 Date drilling ceased	17 - 1/2/18 1/08/2015
Date completion activities began 3/13/	18 Date completion a	ctivities ceased 4/4/	18
Verbal plugging (Y/N) <u>N</u> Date perm	ission granted N/A	Granted by N/A	Office of Oil and (
Please note: Operator is required to submit a plu	agging application within 5 days of	verbal permission to plug	AUG 2 0 2018
reshwater depth(s) ft Surface - 30	0' Open mine(s) (Y/N)	depths N/A	WV Department o Environmental Protect
alt water depth(s) ft @ 1200'	Void(s) encountered		A
Coal depth(s) ft 600' - 700'	Cavern(s) encounter		/A
s coal being mined in area (Y/N)	N		

Reviewed Crain Plus total

Reviewed by: UB

API 47-095	<u> </u>	Farm	name	Velma L	. Wells		We	ll numberi	# 1405 M	Н
CASING STRINGS	Hole Size	Casing Size		D <del>e</del> pth	New or Used	Grade	•	Basket		ent circulate (Y/N)
Conductor	24"	20"		100'	New	<u>wt/ft</u>	5 94#	_Depth(s) - 0 -	Provid	e details below*
Surface	17 1/2*	13 3/8"		420'	New		5 54.5#	-0-	12 14	yes
Coal			+				J J4.3#		12 00	l. cement returns
Intermediate 1	12 1/4"	9 5/8*	2	.884'	New		55 36#	-0-		I. coment returns
Intermediate 2			1			<u> </u>	70 00m		- 50 00	. coment returns
Intermediate 3						1				
Production	81/2"	51/2"	15	108	New	P-110	20#	-0-	87 0	d returns
Tubing		2718"		873	New	L-80		-0-	070	L TETUTI
acker type and d	Septh set		1.41		10000	1000	0-14-1			
CEMENT DATA Conductor	Class/Type of Cement Class A	Num of Sa 17	cks	Slurry wt (ppg) 15.6	)(ft	(ield 1/sks) 1.18	Volume (fl. <sup>1</sup> ) 200.6	Cerr Top (	MD)	WOC (hrs) 24+
Surface	HALCEM (Class			15.6		.19	452.2	Sur		12+
Coal										127
ntermediate I	HALCEM (Class	A) 1,0	<u>.</u> 55	15.6		.19	1,255.5	Surf	ace	24+
ntermediate 2										
ntermediate 3						_				11
roduction	ger (H)/100d (H	y 915/58	5/2045	13.5/15/1	5.2 140/1.	34/1-14	3847.1	surf	an	24+
lubing	TAIL (H	5								
Drillers TD (ft Deepest forma Plug back pro	tion penetrated <u>1</u> cedure <u>NA</u>	8 TVD= Marcellus	UR Sho		Loggers Ti Plug back	D (ft) <u>№</u> to (ft) <u>№</u>	NO OP	en nole	logs	
Cick off depth Check all wire	(ft) <u>.MD={Q1 line logs run</u>	48 TV □ caliper □ neutro	۵d	9724 ensity esistivity	∎ deviate			iduction emperature	asonic	
Vell cored a	Yes 🖪 No	Convent	ional	Sidewa	II	W	ere cuttings	collected I	∎Yes □	No
	HE CENTRALIZ	ZER PLACEN	IENT U	SED FOR	EACH CA	SING ST	TRING			
roduction		51/2"	99	central	izers					
VAS WELL C	COMPLETED AS	S SHOT HOL	E 0`	Yes 🛚 N	lo DE	TAILS				

WR-3 Rev. 8	5 2/23/13				Page <u>3</u> of <u>4</u>
API 4	47- 095 - 02155	Farm nar	neVelma L. W	/ells	Well number# 1405 MH
			PERFORATI	ON RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					SEE ATTACHED

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

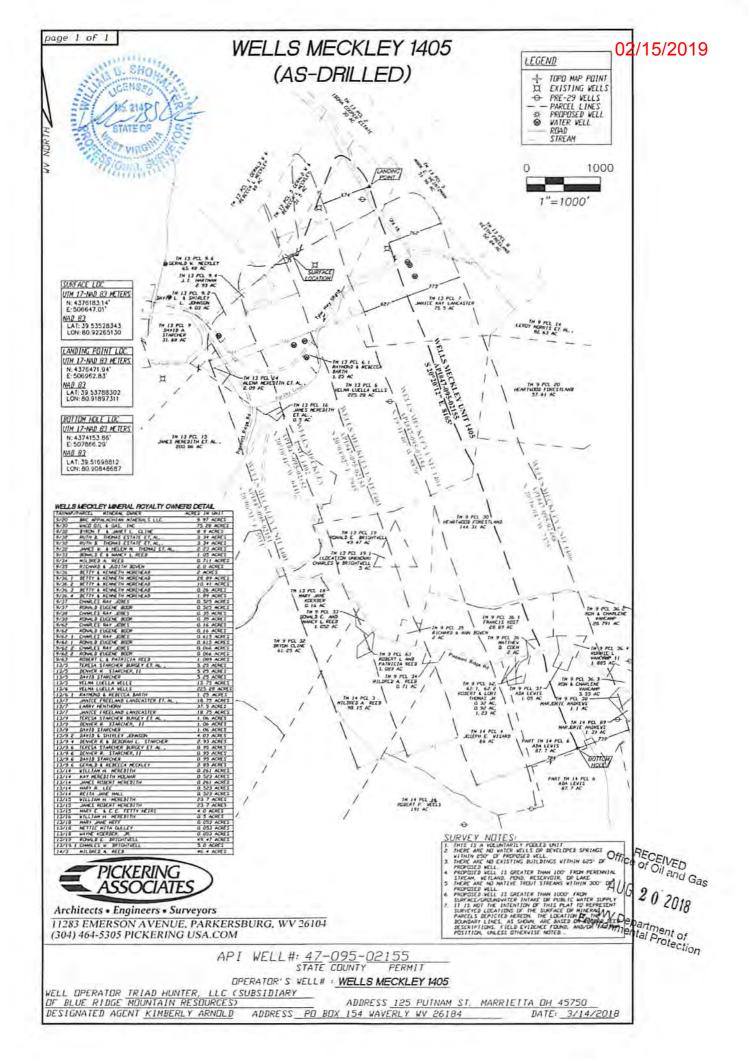
Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)	
			·						
		<u>see</u>	ATTACHED						
	<u> </u>								
		•• <u>,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
		·							
					· <u>- ·                                  </u>			Office of	CEIVED Oil and Gas
									Oil and Gas
									1 2010
Please	insert additio	nal pages as a	pplicable.					Environment	Iment of
								WV Depai Environmenta	Protection

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WR-35 Rev. 8/23/13
API 47- 095 02155 Farm name_ Velma L. Wells Well number_ # 1405 MH
Marcellus Shale <u>Celleg</u> TVD <u>CELls</u> MD
Please insert additional pages as applicable.
GAS TEST 🛛 Build up 🗅 Drawdown 📕 Open Flow 🛛 OIL TEST 📕 Flow 🗗 Pump
SHUT-IN PRESSURE Surface 3175 psi Bottom Hole 5013 psi DURATION OF TEST 120 hrs
DPEN FLOW Gas Oil NGL Water GAS MEASURED BY mcfpd <u>315</u> bpd <u>NA</u> bpd <u>540</u> bpd <b>Estimated S</b> Orifice <b>D</b> Pilot
ITHOLOGY/ TOP BOTTOM TOP BOTTOM ORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND <u>NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H3S, ETC)</u> 0 0
lease insert additional pages as applicable.
lease insert additional pages as applicable. + Helmerich & Rayne 912 North Eagle Valley 2d Howard, PA 18841
ddress 28407 State Route 7 City Marietta State Ohio Zip 45750
ogging Company <u>Baker Hughes</u> ddress <u>370 Wester Drive</u> City <u>Mt. Pleasant</u> State <u>PA</u> zip <u>15/U//Le</u>
ementing Company Halliburton Energy Services + 0-Tex PVMPMg 2916 old Route 422E ddress 4999 East Point Drive City Zanesville State Ohlo Zip 43702
timulating Company <u>Stingray Pressure Aumong</u> ddress <u>42739</u> National Rd City <u>Belmont</u> State <u>OH</u> zip <u>43718</u> lease insert additional pages as applicable.
omplete Rachael Parker <u>Telephone</u> 740-8108-1319 ignature <u>Rowker</u> Title <u>Sr. Engineering</u> Date <u>0-18-18</u> TEDNI' (Jan

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



#### Wells Meckley 1405 Formation Tops

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Formation	TVD= MD	Rock Type/ record QTY/Type of Fluid (Fresh water, brine, oil, gas, H2S, Ect)
Water zone	980	water
Salt Sand	1,563	Sandstone
Maxton Sand	1,687	Sandstone
Greenbrier Limestone	1,773	Limestone
Keener Sand	1,811	Sandstone
Big Injun	1,822	Sandstone
Squaw Sand	2,020	Sandstone
Weir Sand	2,228	Sandstone
Berea Sandstone	2,398	Sandstone
Gordon Stray Sand	2,729	Sandstone
Gordon	2,752	Sandstone
Fifth Sand	2,840	Sandstone
Warren	3,375	Sandstone
Benson	4,845	Sandstone
Tully LS	6,147	Limestone
Marcellus Shale	6,169	Shale / gas
TARGET	6,194	Shale / gas
Onondaga LS	6,223	Limestone
	•	

Office of Oil and Gas AUG 20 2018 WV Department of Environmental Protection



Well: 1405 Crew: White Fleet Location: WV / Tyler Formation: Marcellus

Treatment Summary

Slage	Start	Total Clean Voi	Avg Pai	Max Psi	Avg Rate	Max Rate	100 Mesh	40/70 White	Proppant Type 3	Proppant Type 4	Acid Volume	Breakdown	ISIP
umber	Date	(bbi)	(psi)	(0sl)	(bpm).	(mqd)	(lbs)	(105)	(ibs)	(lbs)	(gal)	(psl)	(psi)
1	3/13/2018	7,859	7,745	8,422	84.7	87.1	31,880	330,160		· · · · · · · · · · · · · · · · · · ·	2,092	n/a	3,203
2	3/13/2018	7.742	8,317	8,955	84.4	90.8	29,880	330,840			2,226	5,221	3,390
3	3/14/2018	8,103	8,103	8,590	81.2	86.3	30,880	329,940			2,310	5,781	3,792
4	3/14/2018	7,250	8,125	8,696	65.8	69	19,000	251,140			1.953	5,757	4,111
5	3/15/2018	6,499	8,024	8,511	82.3	86.8	30,520	239,680			1,898	5,300	3,865
6	3/16/2018	6,411	8,014	8,735	80.3	84.8	30,160	240,240			2,146	5,484	3,265
7	3/16/2018	6,671	7,945	8,344	84.7	86.5	28,920	242,080		1	2,213	5,324	4,212
8	3/17/2018	8,171	8,262	8,855	86.8	91	29,980	330,680		1	2,255	5,382	4,246
9	3/17/2018	8,121	7,818	8,714	84.6	86.6	32,620	326,020			2,188	5,300	4,260
10	3/17/2018	8,200	7,717	8,463	86.1	86.9	30,240	334,100			2,230	4,990	3,965
11	3/17/2018	8,194	7,880	8,518	85,5	86.9	32,140	328,580			2,247	5,361	4,213
12	3/18/2018	8,063	8,034	8,739	83.9	85.8	29,200	331,720			2,159	5,348	3,542
13	3/18/2018	8,085	7,750	8,529	85.0	85.7	26,820	338,380	-		2,247	5,380	3,680
14	3/18/2018	7,880	7,643	8,170	85.2	86.4	30,120	321,600			2,251	5,057	3,868
15	3/18/2018	8,039	8,152	8,754	85.6	86.7	32,860	327,060	1		2,293	5,277	3,934
16	3/19/2018	7,997	8,132	8,684	83.7	85.9	32,060	329,140			2,272	5.327	4,888
17	3/19/2018	7.771	7,834	8,494	84.4	85.6	28,000	339,660			2,247	5,268	4,396
18	3/19/2018	7.950	7,894	8,563	85.0	86.4	39,580	320,560			2,230	5,146	4,950
19	3/19/2018	7,839	7,751	8,729	84.8	86.8 87	30,780	334,200			2,293	5,061	3,691
20 21	3/20/2018	7,573 8,005	7,765	8,685 8,468	86.0 85.9	86.5	36,960 33,060	324,420			2,167	5,140	3,564
	3/20/2018	8,005	7,613		84.6	85.1	32,840	320,220		-	2,360	5.241	3,878
22	3/20/2018	7,411	7,225 7,860	7,721 8,237	84.5	85.4	32,840	322,240 328,480			2,239	5.224	3,755
23	3/21/2018		7,862	8,544	84.3	85.4	31,520	328,480			2,272	5,085	3,710
25	3/21/2018	7,422 8,231	7,582	8,061	85.6	86.7	32,680				2,344	5,105	3,412
	3/21/2018 3/23/2018	7,192	7,582	8,388	85.0	86.3	29,080	327,400 332,220			3,091 2,297	5,337	3,546
26 27	3/23/2018	8,293	7,322	7,971	84.8	85.2	30,520	332,020				5,233	3,759
	3/24/2018		7,583	8,405	85.5	86.7	32,360	323,000			2,318	5,222	3,796
28 29	3/24/2018	7,355	7,583	8,405	84.9	87.4	31,800	323,000			2,180 2,377	5,226 5,201	4,202
30	3/24/2018	7,437	7,497	7,942	84.0	85.5	32,220	334,060			2,570	5.401	3,631 3,852
31	3/25/2018	7,800	7,287	7,842	86.7	89.5	31,020	328,180			2,012	5,152	3,852
32	3/25/2018	7,205	7,328	8,290	89.8	90.8	28,700	330,900			2,012	5,180	3,930
33	3/26/2018	7,450	7,529	8,284	87.7	88.9	29,060	330,760			2.016	5,508	3,646
34	3/27/2018	7,389	7,456	8,592	89.7	90.9	33,780	332,780			2,318	5,247	4,473
35	3/27/2018	7,284	7,104	8,112	84.2	85.5	35,500	269,600			2,318	5,148	4,473
36	3/27/2018	7,278	7,174	8,148	86.0	87	31,800	328,980			2,222	5,084	3,865
37	3/28/2018	7,381	6,945	8,185	79.3	81.2	31,700	328,760			2.360	5,822	3,682
38	3/29/2018	8,367	7,088	8,134	84.9	85.6	34,260	326,300			2,226	5,242	3,490
39	3/29/2018	7.840	7,148	8,129	86.2	87.2	32,360	328,040			2,226	5,409	3,615
40	3/30/2018	7.521	7,179	7,966	84.7	85.5	33,660	326,940			2,365	5,070	3,694
41	3/30/2018	8,077	6,954	7,770	85.3	85.9	31,900	328,940			2,394	5,376	3,636
42	3/31/2018	7,551	7,096	8,018	84.9	85.6	33,880	331,760	1		2,272	5,260	4.055
43	3/31/2018	8.049	7,324	8.022	87.8	90,7	31,900	327,980			2,428	5,524	3,739
44	3/31/2018	7,876	7,395	7,859	84.8	86.6	33,580	328,980	1		2,390	5,558	4,223
45	4/1/2018	7,943	7,058	7,464	86.0	86.5	31,920	332,180			2,226	5,041	3,965
46	4/1/2018	7,793	7,054	7,976	85.7	86.3	31,620	328,558			2,281	4,887	3,797
47	4/1/2018	7,662	6,958	7,929	85.7	86.5	31,680	333,300			2,180	5,716	3,640
48	4/2/2018	7,764	7,173	7,779	87.7	90.3	31,080	329,820			2,213	5,207	3,853
49	4/2/2018	7,877	6.992	7,785	87.2	88.9	31,800	328,160			2,226	6,060	3,588
50	4/2/2018	7,750	7,091	8,000	89.9	90.7	32,740	319,720			2.264	4,952	3,650
51	4/3/2018	7,943	6,872	7,508	87.9	89	34,580	328,640			2,251	5,369	3,715
52	4/3/2018	7.255	6,908	8,030	85.8	86.7	32,100	328,460			2,205	5,316	3,648
53	4/4/2018	7,886	7,034	7,823	90.9	91.7	32,680	325,500			2,209	5,317	3,640
54	4/4/2018	7,363	6,790	7,537	90.0	91.8	31,880	324,060			2,297	5,450	3,844
tals		415,443	7,507	8,247	85.2	86.83	1,705,020	17,352,098	-	5	121,981	281,074	3,853



Stage No.	Perforation Date	Top Depth (ft MD)	Bottom Depth (ft MD)	Number of Perfs
Stg 54	4/4/2018 3:45	7029	7030	7 act due
Stg 54	4/4/2018 3:45	7059	7060	7 all 7 marcellus
Stg 54	4/4/2018 3:45	7089	7090	7 Mulleet
Stg 54	4/4/2018 3:45	7119	7120	7
Stg 54	4/4/2018 3:45	7149	7150	7
Stg 53	4/3/2018 15:45	7179	7180	7
Stg 53	4/3/2018 15:45	7209	7210	7
Stg 53	4/3/2018 15:45	7239	7240	7
Stg 53	4/3/2018 15:45	7269	7270	7
Stg 53	4/3/2018 7:00	7299	7300	7
Stg 52	4/3/2018 7:00	7329	7330	7
Stg 52	4/3/2018 7:00	7359	7360	7
Stg 52	4/3/2018 7:00	738 <del>9</del>	7390	7
Stg 52	4/3/2018 7:00	7419	7420	7
Stg 52	4/3/2018 7:00	7449	7450	7
Stg 51	4/2/2018 14:00	7479	7480	7
Stg 51	4/2/2018 14:00	7509	7510	7
Stg 51	4/2/2018 14:00	7539	7540	7
Stg 51	4/2/2018 14:00	7569	7570	7
Stg 51	4/2/2018 14:00	7599	7600	7
Stg 50	4/2/2018 4:30	7629	7630	7
Stg 50	4/2/2018 4:30	7659	7660	7
Stg 50	4/2/2018 4:30	7689	7690	7
Stg 50	4/2/2018 4:30	7719	7720	7
Stg 50	4/2/2018 4:30	7749	7750	7
Stg 49	4/2/2018 4:00	7779	7780	7
Stg 49	4/2/2018 4:00	7809	7810	7
Stg 49	4/2/2018 4:00	7839	7840	7
Stg 49	4/2/2018 4:00	7869	7870	7
Stg 49	4/2/2018 4:00	7899	7900	7
Stg 48	4/1/2018 19:30	7929	7930	7
Stg 48	4/1/2018 19:30	7959	7960	7
Stg 48	4/1/2018 19:30	7989	7990	7
Stg 48	4/1/2018 19:30	8019	8020	7
Stg 48	4/1/2018 19:30	8049	8050	7
Stg 47	4/1/2018 11:30	8079	8080	7
Stg 47	4/1/2018 11:30	8109	8110	7
Stg 47	4/1/2018 11:30	8139	8140	7
Stg 47	4/1/2018 11:30	8169 8100	8170 8200	7
Stg 47	4/1/2018 11:30 4/1/2018 4:00	8199 8220	8200	7
Stg 46 Stg 46	4/1/2018 4:00 4/1/2018 4:00	8229 8259	8230 8260	7 7
Stg 46 Stg 46	4/1/2018 4:00 4/1/2018 4:00	8289	8260 8290	7
Stg 46	4/1/2018 4:00	8289	8290	7
Stg 46	4/1/2018 4:00	8349	8350	7
Stg 45	3/31/2018 18:30	8379	8380	7
518 75	5/51/2010 10:50	5775	0000	,

Stg 45	3/31/2018 18:30	8409	8410	7
Stg 45	3/31/2018 18:30	8439	8440	7
Stg 45	3/31/2018 18:30	8469	8470	7
Stg 45	3/31/2018 18:30	8499	8500	7
Stg 44	3/31/2018 10:00	8529	8530	7
Stg 44	3/31/2018 10:00	8559	8560	7
Stg 44	3/31/2018 10:00	8589	8590	7
Stg 44	3/31/2018 10:00	8619	8620	7
Stg 44	3/31/2018 10:00	8649	8650	7
Stg 43	3/31/2018 1:30	8679	8680	7
Stg 43	3/31/2018 1:30	8709	8710	7
Stg 43	3/31/2018 1:30	8739	8740	7
Stg 43	3/31/2018 1:30	8769	8770	7
Stg 43	3/31/2018 1:30	8799	8800	7
Stg 42	3/30/2018 16:55	8829	8830	7
Stg 42	3/30/2018 16:55	8859	8860	7
Stg 42	3/30/2018 16:55	8889	8890	7
Stg 42	3/30/2018 16:55	8919	8920	7
Stg 42	3/30/2018 16:55	8949	8950	7
Stg 41	3/30/2018 5:45	8979	8980	7
Stg 41	3/30/2018 5:45	9009	9010	7
Stg 41	3/30/2018 5:45	9039	9040	7
Stg 41	3/30/2018 5:45	9069	9070	7
Stg 41	3/30/2018 5:45	9099	9100	7
Stg 40	3/29/2018 19:30	9129	9130	7
Stg 40	3/29/2018 19:30	9159	9160	7
Stg 40	3/29/2018 19:30	9189	9190	7
Stg 40	3/29/2018 19:30	9219	9220	7
Stg 40	3/29/2018 19:30	9249	9250	7
Stg 39	3/29/2018 5:30	9279	9280	7
Stg 39	3/29/2018 5:30	9309	9310	7
Stg 39	3/29/2018 5:30	9339	9340	7
Stg 39	3/29/2018 5:30	9369	9370	7
Stg 39	3/29/2018 5:30	9399	9400	7
Stg 38	3/28/2018 11:00	9429	9430	7
Stg 38	3/28/2018 11:00	9459	9460	7
Stg 38	3/28/2018 11:00	9489	9490	7
Stg 38	3/28/2018 11:00	9519	9520	7
Stg 38	3/28/2018 11:00	9549	9550	7
Stg 37	3/27/2018 23:45	9579	9580	7
Stg 37	3/27/2018 23:45	9609	9610	7
Stg 37	3/27/2018 23:45	9639	9640	7
Stg 37	3/27/2018 23:45	9669	9670	7
Stg 37	3/27/2018 23:45	9699	9700	7
Stg 36	3/27/2018 12:45	9729	9730	7
Stg 36	3/27/2018 12:45	9 <b>759</b>	9760	7
Stg 36	3/27/2018 12:45	9789	9790	7

Stg 36	3/27/2018 12:45	9819	9820	7
Stg 36	3/27/2018 12:45	9849	9850	7
Stg 35	3/27/2018 2:15	9879	9880	7
Stg 35	3/27/2018 2:15	9909	9910	7
Stg 35	3/27/2018 2:15	9939	9940	7
Stg 35	3/27/2018 2:15	9969	9970	7
Stg 35	3/27/2018 2:15	9999	10000	7
Stg 34	3/26/2018 13:00	10029	10030	7
Stg 34	3/26/2018 13:00	10059	10060	7
Stg 34	3/26/2018 13:00	10089	10090	7
Stg 34	3/26/2018 13:00	10119	10120	7
Stg 34	3/26/2018 13:00	10149	10150	7
Stg 33	3/26/2018 2:00	10179	10180	7
Stg 33	3/26/2018 2:00	10209	10210	7
Stg 33	3/26/2018 2:00	10239	10240	7
Stg 33	3/26/2018 2:00	10269	10270	7
Stg 33	3/26/2018 2:00	10299	10300	7
Stg 32	3/25/2018 13:45	10329	10330	7
Stg 32	3/25/2018 13:45	10359	10360	7
Stg 32	3/25/2018 13:45	10389	10390	7
Stg 32	3/25/2018 13:45	10419	10420	7
Stg 32	3/25/2018 13:45	10449	10450	7
Stg 31	3/24/2018 17:00	10479	10480	7
Stg 31	3/24/2018 17:00	10509	10510	7
Stg 31	3/24/2018 17:00	10539	10540	7
Stg 31	3/24/2018 17:00	10569	10570	7
Stg 31	3/24/2018 17:00	10599	10600	7
Stg 30	3/24/2018 11:00	10629	10630	7
Stg 30	3/24/2018 11:00	10659	10660	7
Stg 30	3/24/2018 11:00	10689	10690	7
Stg 30	3/24/2018 11:00	10719	10720	7
Stg 30	3/24/2018 11:00	10749	10750	7
Stg 29	3/24/2018 3:30	10779	10780	7
Stg 29	3/24/2018 3:30	10809	10810	7
Stg 29	3/24/2018 3:30	10839	10840	7
Stg 29	3/24/2018 3:30	10869	10870	7
Stg 29	3/24/2018 3:30	10899	10900	7
Stg 28	3/23/2018 23:00	10929	10930	7
Stg 28	3/23/2018 23:00	10959	10960	7
Stg 28	3/23/2018 23:00	10989	10990	7
Stg 28	3/23/2018 23:00	11019	11020	7
Stg 28	3/23/2018 23:00	11049	11050	7
Stg 27	3/23/2018 15:45	11079	11080	7
Stg 27	3/23/2018 15:45	11109	11110	7
Stg 27	3/23/2018 15:45	11139	11140	7
Stg 27	3/23/2018 15:45	11169	11170	7
Stg 27	3/23/2018 15:45	11199	11200	7
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Stg 26	3/21/2018 14:00	11229	11230	7
Stg 26	3/21/2018 14:00	11259	11260	7
Stg 26	3/21/2018 14:00	11289	11290	7
Stg 26	3/21/2018 14:00	11319	11320	7
Stg 26	3/21/2018 14:00	11349	11350	7
Stg 25	3/21/2018 8:00	11379	11380	7
Stg 25	3/21/2018 8:00	11409	11410	7
Stg 25	3/21/2018 8:00	11439	11440	7
Stg 25	3/21/2018 8:00	11469	11470	7
Stg 25	3/21/2018 8:00	11499	11500	7
Stg 24	3/21/2018 2:30	11529	11530	7
Stg 24	3/21/2018 2:30	11559	11560	7
Stg 24	3/21/2018 2:30	11589	11590	7
Stg 24	3/21/2018 2:30	11619	11620	7
Stg 24	3/21/2018 2:30	11649	11650	7
Stg 23	3/20/2018 13:30	11679	11680	7
Stg 23	3/20/2018 13:30	11709	11710	7
Stg 23	3/20/2018 13:30	11739	11740	7
Stg 23	3/20/2018 13:30	11769	11770	7
Stg 23	3/20/2018 13:30	11799	11800	7
Stg 22	3/20/2018 8:15	11829	11830	7
Stg 22	3/20/2018 8:15	11859	11860	7
Stg 22	3/20/2018 8:15	11889	11890	7
Stg 22	3/20/2018 8:15	11919	11920	7
Stg 22	3/20/2018 8:15	11949	11950	7
Stg 21	3/20/2018 2:30	11979	11980	7
Stg 21	3/20/2018 2:30	12009	12010	7
Stg 21	3/20/2018 2:30	12039	12040	7
Stg 21	3/20/2018 2:30	12069	12070	7
Stg 21	3/20/2018 2:30	12099	12100	7
Stg 20	3/19/2018 21:00	12129	12130	7
Stg 20	3/19/2018 21:00	12159	12160	7
Stg 20	3/19/2018 21:00	12189	12190	7
Stg 20	3/19/2018 21:00	12219	12220	7
Stg 20	3/19/2018 21:00	12249	12250	7
Stg 19	3/19/2018 15:30	12279	12280	7
Stg 19	3/19/2018 15:30	12309	12310	7
Stg 19	3/19/2018 15:30	12339	12340	7
Stg 19	3/19/2018 15:30	12369	12370	7
Stg 19	3/19/2018 15:30	12399	12400	7
Stg 18	3/19/2018 11:00	12429	12430	7
Stg 18	3/19/2018 11:00	12459	12460	7
Stg 18	3/19/2018 11:00	12489	12490	7
Stg 18	3/19/2018 11:00	12519	12520	7
Stg 18	3/19/2018 11:00	12549	12550	7
Stg 17	3/19/2018 4:00	12579	12580	7
Stg 17	3/19/2018 4:00	12609	12610	7

Stg 17	3/19/2018 4:00	12639	12640	7
Stg 17	3/19/2018 4:00	12669	12670	7
Stg 17	3/19/2018 4:00	12699	12700	7
Stg 16	3/18/2018 22:30	12729	12730	7
Stg 16	3/18/2018 22:30	12759	12760	7
Stg 16	3/18/2018 22:30	12789	12790	7
Stg 16	3/18/2018 22:30	12819	12820	7
Stg 16	3/18/2018 22:30	12849	12850	7
Stg 15	3/18/2018 16:30	12879	12880	7
Stg 15	3/18/2018 16:30	12909	12910	7
Stg 15	3/18/2018 16:30	12939	12940	7
Stg 15	3/18/2018 16:30	12969	12970	7
Stg 15	3/18/2018 16:30	12999	13000	7
Stg 14	3/18/2018 10:50	13029	13030	, 7
-	3/18/2018 11:10	13059	13060	, 7
Stg 14	• •	13089	13090	, 7
Stg 14	3/18/2018 11:10			, 7
Stg 14	3/18/2018 11:10	13119	13120	
Stg 14	3/18/2018 11:10	13149	13150	7
Stg 13	3/18/2018 5:45	13179	13180	7
Stg 13	3/18/2018 5:45	13209	13210	7
Stg 13	3/18/2018 5:45	13239	13240	7
Stg 13	3/18/2018 5:45	13269	13270	7
Stg 13	3/18/2018 5:45	13299	13300	7
Stg 12	3/17/2018 22:30	13329	13330	7
Stg 12	3/17/2018 22:30	13359	13360	7
Stg 12	3/17/2018 22:30	13389	13390	7
Stg 12	3/17/2018 22:30	13419	13420	7
Stg 12	3/17/2018 22:30	13449	13450	7
Stg 11	3/17/2018 16:00	13479	13480	7
Stg 11	3/17/2018 16:00	13509	13510	7
Stg 11	3/17/2018 16:00	13539	13540	7
Stg 11	3/17/2018 16:00	13569	13570	7
Stg 11	3/17/2018 16:00	13599	13600	7
Stg 10	3/17/2018 11:00	13629	13630	7
Stg 10	3/17/2018 11:00	13659	13660	7
Stg 10	3/17/2018 11:00	13689	13690	7
Stg 10	3/17/2018 11:00	13719	13720	7
Stg 10	3/17/2018 11:00	13749	13750	7
Stg 9	3/17/2018 2:00	13779	13780	7
Stg 9	3/17/2018 2:00	13809	13810	7
Stg 9	3/17/2018 2:00	13839	13840	7
Stg 9	3/17/2018 2:00	13869	13870	7
Stg 9	3/17/2018 2:00	13899	13900	7
Stg 8	3/16/2018 19:15	13929	13930	7
Stg 8	3/16/2018 19:15	13959	13960	7
Stg 8	3/16/2018 19:15	13989	13990	7
Stg 8	3/16/2018 19:15	14019	14020	7
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Stg 8	3/16/2018 19:15	14049	14050	7
=	3/16/2018 7:00	14079	14080	, 7
Stg 7	3/16/2018 7:00	14079	14110	, 7
Stg 7	3/16/2018 7:00		14110	, 7
Stg 7		14139		, 7
Stg 7	3/16/2018 7:00	14169	14170	
Stg 7	3/16/2018 7:00	14199	14200	7
Stg 6	3/16/2018 1:00	14229	14230	7
Stg 6	3/16/2018 1:00	14259	14260	7
Stg 6	3/16/2018 1:00	14289	14290	7
Stg 6	3/16/2018 1:00	14319	14320	7
Stg 6	3/16/2018 1:00	14349	14350	7
Stg 5	3/15/2018 1:00	14379	14380	6
Stg 5	3/15/2018 1:00	14409	14410	6
Stg 5	3/15/2018 1:00	14439	14440	6
Stg 5	3/15/2018 1:00	14469	14470	6
Stg 5	3/15/2018 1:00	14499	14500	6
Stg 4	3/14/2018 5:30	14529	14530	6
Stg 4	3/14/2018 5:30	14559	14560	6
Stg 4	3/14/2018 5:30	14589	14590	6
Stg 4	3/14/2018 5:30	<b>146</b> 19	14620	6
Stg 4	3/14/2018 5:30	14649	14650	6
Stg 3	3/13/2018 18:00	14679	14680	6
Stg 3	3/13/2018 18:00	14709	14710	6
Stg 3	3/13/2018 18:00	14739	14740	6
Stg 3	3/13/2018 18:00	14769	14770	6
Stg 3	3/13/2018 18:00	14799	14800	6
Stg 2	3/13/2018 9:45	14829	14830	6
Stg 2	3/13/2018 9:45	14859	14860	6
Stg 2	3/13/2018 9:45	14889	14890	6
Stg 2	3/13/2018 9:45	14919	14920	6
Stg 2	3/13/2018 9:45	14949	14950	6
Stg 1 (Sleeve)	2/16/2018	14975	14980	8
Stg 1 (Sleeve)	2/16/2018	15026	15031	8
Stg 1 (Sleeve)	2/16/2018	15076	15081	8

Formation(s) Marcellus Marcellus

