Well Operator's Report of Well Work



Well Number:

515966

API:

47 - 085

- 10289

Submission:

1

Initial

Amended

Office of Oil and Gas

DEC 4 2017

WV Department of Environmental Protection

Notes: Initial report w/ Flowback

Reviewed

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

API <u>47</u> - 085 _	10289	County RITCHIE	=	District UNION	1	
Quad PULLMAN		Pad Name PUL9		Field/Pool Name		
Farm name JAMES H.	& WILMA J.	WILSON		Well Number _5		
Operator (as registered w			ompany	_		
Address 625 Liberty Ave				State PA	Zip	15222
	AD 83/UTM	Attach an as-drille	d plat, profile view,	and deviation surve	у	
Landing Point o	f Curve N	orthing N. 4,340,444.12	E	asting 501,474.13		
Botto	m Hole N	orthing N. 4,342,278.82	E	asting 501.023.19		
Elevation (ft) 1183'	GL	Type of Well	New Existing	Type of Rep	oort Interim	#Final RECEIVED
Permit Type 🛭 Devia	ated 🗆 Ho	rizontal 🗂 Horizon	tal 6A 🛭 🗅 Vertica	l Depth Type	e 🗆 Deep	Ofgrant Qil and Gas
Type of Operation □ Co	onvert 🗅 De	epen 🖺 Drill 🗆	Plug Back Re	drilling Rewo	rk 🖪 Stimula	te DEC 4 2017
Well Type □ Brine Disc	oosal 🗆 CBM	■ Gas □ Oil □ Sec	ondary Recovery	Solution Mining (⊐ Storage □ O	WV Department of the nvironmental Protect
						··· Litanommental-Protecti.
Type of Completion S	Single Mult	iple Fluids Produ	ced □ Brine B G	as ■ NGL □ O	il 🗆 Other	
Drilled with Cable	Rotary					
Drilling Media Surface	hole 🖪 Air	□ Mud □Fresh Wa	ter Intermedia	te hole	Mud □ Fresh V	Vater □ Brine
Production hole		Fresh Water Brine				
Mud Type(s) and Additi						
Water base Mud 11.5 ppg, Synthetic Base M	• •	o, sodium chloride, xanthan gum, polyan	ionic celluloso, modified starch, sodi	um hydroxide, phosphonates and alk	kyl phophates, glutaraldehyde	solution, calcium hydroxide,
partially hydrolyzed polyacrylamide/po	dyacrylate, potassium	chloride, sodium carbonate, groun-	d wainut shells, alcohol and mo	dified fatty acid, ferrochrome lig	gnosulfonate, calcium ca	rbonate, fibrous cellulose
					 	
Date permit issued0	7/26/2016	Date drilling comn	nenced04/17/20	Date drill	mg ccascu	7/28/2017
Date completion activitie	s began	8/15/2017	Date completion a	ctivities ceased	9/17/2017	
Verbal plugging (Y/N)	<u> </u>	ate permission granted	ıN/A	Granted by	N/A	
Please note: Operator is	required to sub	mit a plugging applica	ation within 5 days o	f verbal permission	to plug	
Freshwater depth(s) ft	345,37	1,402,559	Open mine(s) (Y/N) depths	N	
Salt water depth(s) ft		ater shows		d (Y/N) depths		
Coal depth(s) ft		seams		ered (Y/N) depths	N.I	
Is coal being mined in are		N	(c) 			
	()		·		Reviev	wed by:

API 47- 085	- 10289	Farm name_	JAMES H. 8	& WILMA	J. WIL	SON Well	number515	966	
CASING STRINGS		Casing Size	Depth	New or Used	Grade wt/ft		Basket epth(s)	_	nent circulate (Y/N) ide details below*
Conductor	30"	26"	40'	NEW	A.	-500	N/A		Y
Surface	17 1/2"	13 3/8"	655'	NEW	J	I-55	142'		Y
Coal									
Intermediate I	12 3/8"	9 5/8"	2563'	NEW	Α.	-500	710'		Y
Intermediate 2									
Intermediate 3									
Production	8 3/4" & 8 1/2"	5 1/2" 1	3,245'	NEW	p.	-110	N/A		N
Tubing									 -
Packer type and d	epth set	·						·	
Comment Details	N/A								
CEMENT	Class/Type	Number	Slurry		ield	Volume	Cemer		WOC
DATA Conductor	of Cement CLASS A	of Sacks 49	wt (ppg) 15.6		³ /sks) .18	(fl. ² .) 57.7	<u>Top (M</u> 0	ט)	(hrs) 8
Surface	CLASS A	601	15.6		.20	721.2	0		8
Coal	ODAGG A	001	15.0	- '	.20	721,2	+		
Intermediate I	CLASS A / CLASS A	201 / 778	15.6 / 15.6	111	3 / 1.2	1170.78	0		8
Intermediate 2	02.007.702.007	2017770	15.07 16.0	, , , , , ,	,,,,,	1170.70	 		-
Intermediate 3		 							
Production	CLASS H / CLASS H	329 / 793	15.2 / 15.6	1 25	/ 2.06	2044.83	5200)	72
Tubing		0207700	10.27 10.0	,0	7 =:00	2011.00			
Drillers TD (fl Deepest forma Plug back pro	tion penetrated Marc	ellus		Loggers Ti				ט	RECEIVED ce of Oil and Gas EC 4 2017
Kick off depth	(ft) 4953						<u>-</u>	Envir	V Depertment of onmental Protection
Check all wire		•	density resistivity	■ deviate		onal □ ind a tei	luction mperature	□soni	ic
Well cored	Yes No	□ Conventional	□ Sidewal	II	W	ere cuttings	collected =	Yes	□ No
DESCRIBE T	HE CENTRALIZEI	R PLACEMENT	USED FOR I	EACH CA	SING S	TRING			
	ALIZERS AT JOINTS 1 AND	11							
	ENTRALIZERS PLACED EV								
PRODUCTION: 197	Spiral body composite centralia	ers placed every joint from	опот 10 4,995 пм	<u></u>					
WAS WELL (COMPLETED AS S	HOT HOLE	Yes B N	o DE	TAILS				
WAS WELL	COMPLETED OPE	N HOLE? - Y	es ■ No	DETA	ILS				
WERE TRAC	ERS USED	B No T	YPE OF TRA	CER(S) L	ISED _				

Page	of	
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API 47- 085 -	10289	Farm name	JAMES H. & WILMA J. WILSON	Well number_	515966
API 4/		Farm name	· · · · · · · · · · · · · · · · · · ·	- well limitiner-	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please see attached
			ļ		

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)
								See Attached
								-
							Offic	RECEIVED e of Oil and Gas
				_		_	וט	C 4 2017
<u> </u>							10.7	/ Department of Inmental Protection
							Enviro	nmental Protection
		_						
				_				

Please insert additional pages as applicable.

Title Dir Completions

Signature

Date 11/30/2017

WR-35
Rev. 8/23/13
API 47- 085 - 10289

Page __ of __

Drilling Contractor Savanna Drilling (Rig 655)
Address 125 Industry Road

City Wavnesburg

State PA __ zip 15370

Logging Company Baker Hughes
Address 4000 Town Center Blvd

City Canonsburg

State PA __ zip 15317

	Well #515966	Final Formations Al	PI # 47-085-10289	
Formation Name	Drilling Top MD	Drilling Top (TVD)	Drilling Bottom MD	Drilling Btm (TVD)
FRESH WATER ZONE	1	1	559	559
SAND/SHALE	1	1	1,833.00	1,832.80
MAXTON	1,833.00	1,832.80	1,873.00	1,872.70
SAND/SHALE	1,873.00	1,872.70	2,053.00	2,052.60
BIG LIME	2,053.00	2,052.60	2,142.00	2,141.60
BIG INJUN	2,142.00	2,141.60	2,207.00	2,206.60
SAND/SHALE	2,207.00	2,206.60	2,450.00	2,448.90
WEIR	2,450.00	2,448.90	2,495.00	2,493.80
SAND/SHALE	2,495.00	2,493.80	2,665.00	2,663.60
GANTZ	2,665.00	2,663.60	2,668.00	2,666.60
SAND/SHALE	2,668.00		2,747.00	2,745.60
50F	2,747.00	2,745.60	2,781.00	2,779.50
SAND/SHALE	2,781.00	2,779.50	2,796.00	2,794.50
THIRTY FOOT	2,796.00	2,794.50	2,817.00	2,815.50
SAND/SHALE	2,817.00		2,834.00	2,832.50
GORDON	2,834.00			
SAND/SHALE	2,894.00	2,892.50		
FOURTH SAND	2,954.00	2,952.50		
SAND/SHALE	2,962.00			
5TH	3,047.00	3,045.50	3,067.00	3,065.50
SAND/SHALE	3,067.00	3,065.50	3,105.00	3,103.50
BAYARD	3,105.00	3,103.50	3,136.00	3,134.50
SAND/SHALE	3,136.00	3,134.50	3,506.00	3,504.50
WARREN	3,506.00	3,504.50	3,552.00	3,550.50
SAND/SHALE	3,552.00	3,550.50		
SPEECHLEY	3,616.00	3,614.50	3,743.00	
SAND/SHALE	3,743.00	3,741.50	3,954.00	3,952.50
BALLTOWN A	3,954.00	3,952.50	4,005.00	
SAND/SHALE	4,005.00	4,003.50	4,601.00	4,599.50
RILEY	4,601.00	4,599.50	4,622.00	4,620.50
SAND/SHALE	4,622.00	4,620.50	4,942.00	4,940.50
BENSON	4,942.00	4,940.50	4,982.00	4,980.40
SAND/SHALE	4,982.00	4,980.40	5,221.00	5,213.00
ALEXANDER	5,221.00	5,213.00	5,246.00	5,236.00
ELKS	5,246.00	5,236.00	6,400.00	6,135.10
SONYEA	6,400.00	6,135.10	6,535.00	6,224.70
MIDDLESEX	6,535.00	6,224.70	6,634.00	6,277.20
GENESSEE	6,634.00	6,277.20	6,756.00	6,329.00
GENESEO	6,756.00	6,329.00	6,830.00	6,356.80
TULLY	6,830.00	6,356.80	6,852.00	6,364.40
HAMILTON	6,852.00	6,364.40	6,862.00	6,367.70
MARCELLUS	6,862.00	6,367.70	13,259.00	02/48/20

515966 47-085-10289-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	8/9/2017	13,219	13,245	10	MARCELLUS
1	8/16/2017	13,058	13,180	32	MARCELLUS
2	8/16/2017	12,858	13,020	40	MARCELLUS
2	8/17/2017	12,878	12,960	24	MARCELLUS
3	8/18/2017	12,658	12,820	40	MARCELLUS
4	8/19/2017	12,458	12,620	40	MARCELLUS
5	8/20/2017	12,258	12,420	40	MARCELLUS
6	8/21/2017	11,996	12,078	40	MARCELLUS
6	8/21/2017	12,058	12,220	24	MARCELLUS
7	8/21/2017	11,796	11,958	40	MARCELLUS
8	8/22/2017	11,596	11,758	40	MARCELLUS
9	8/22/2017	11,396	11,558	40	MARCELLUS
10	8/23/2017	11,196	11,358	40	MARCELLUS
11	8/24/2017	10,996	11,158	40	MARCELLUS
12	8/24/2017	10,796	10,958	40	MARCELLUS
13	8/25/2017	10,596	10,758	40	MARCELLUS
14	8/26/2017	10,396	10,558	40	MARCELLUS
15	8/26/2017	10,196	10,358	40	MARCELLUS
16	8/27/2017	9,996	10,158	40	MARCELLUS
17	8/29/2017	9,796	9,958	40	MARCELLUS
18	8/29/2017	9,596	9,758	40	MARCELLUS
19	8/29/2017	9,396	9,558	40	MARCELLUS
20	8/30/2017	9,196	9,358	40	MARCELLUS
21	8/31/2017	8,996	9,158	40	MARCELLUS
22	9/1/2017	8,796	8,958	40	MARCELLUS
23	9/2/2017	8,596	8,758	40	MARCELLUS
24	9/2/2017	8,396	8,558	40	MARCELLUS
25	9/5/2017	8,196	8,358	40	MARCELLUS
26	9/7/2017	9, 7,996	8,158	40	MARCELLUS
27	9/8/2017	F 8 2 7,796	7,958	40	MARCELLUS
28	9/10/2017	007,596	7,758	40	MARCELLUS
29	9/13/2017	2 4 元 396	7,558	40	MARCELLUS
30	9/15/2017	67,196	7,358	40	MARCELLUS
31	9/15/2017	6,996	7,158	40	MARCELLUS

Stage Number	Stimulation 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)
Initiation Sleeve		1						
1	8/15/2017	92	8,590	9,460	8,321	450,535	3,725	0
2	8/17/2017	11	7,016	8,802	4,669	31,269	3,698	0
2	8/18/2017	43	8,363	9,342	5,161	18,896	2,325	0
3	8/19/2017	11	7,691	8,975	5,697	598,487	3,491	0
4	8/20/2017	98	7,712	8,584	2,638	446,940	10,501	0
5	8/21/2017	88	7,222	8,765	2,566	443,860	7,283	0
6	8/21/2017	100	8,176	8,573	2,556	461,801	7,712	0
7	8/22/2017	94	7,861	9,929	2,776	447,419	9,914	0
8	8/22/2017	88	7,997	9,579	2,579	449,695	8,383	0
9	8/23/2017	95	7,617	8,415	2,711	448,803	7,376	0
10	8/24/2017	98	7,139	8,959	2,930	450,798	7,448	0
11	8/24/2017	90	6,947	8,073	2,872	450,084	7,057	0
12	8/25/2017	98	7,405	7,797	2,824	447,406	7,229	0
13	8/26/2017	99	7,618	9,468	2,945	449,853	7,248	0
14	8/26/2017	97	7,281	7,640	3,027	450,230	7,241	0
15	8/27/2017	100	7,729	8,967	2,690	447,738	7,142	0
16	8/28/2017	94	7,908	8,732	2,811	450,127	7,881	0
17	8/29/2017	47	7,784	8,805	5,912	449,044	1,305	0
18	8/29/2017	99	7,619	8,218	2,904	450,409	2,507	0
19	8/30/2017	96	7,286	7,895	2,749	451,477	8,780	0
20	8/31/2017	98	7,224	7,898	2,863	449,873	7,008	0
21	9/1/2017	94	7,020	7,606	3,050	450,672	7,041	0
22	9/2/2017	100	7,150	8,196	3,160	450,184	6,964	0
23	9/2/2017	99	7,077	8,454	3,917	451,606	6,907	0
24	9/5/2017	100	7,304	7,731	3,038	451,117	6,826	0
25	9/7/2017	99	7,325	7,679	2,638	453,309	7,864	0
26	9/8/2017	97	7,482	8,412	2,908	451,995	6,893	0
27	9/10/2017	101	7,280	8,350	2,556	453,095	6,492	0
28	9/13/2017	100	7,070	9,280	2,647	449,065	6,995	0
29	9/15/2017	100	7,519	7,869	3,213	449,170	7,215	0
30	9/15/2017	100 O	7,654	9,035	2,712	449,433	6,937	0
31	9/17/2017	100	6,969	7,186	2,912	454,536	7,297	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

8/15/2017	Job Start Date:
9/17/2017	Job End Date:
West Virginia	State:
Ritchie	County:
47-085-10289-00-00	API Number:
EQT Production	Operator Name:
515966	Well Name and Number:
39.21118800	Latitude:
-80.98599700	Longitude:
NAD83	Datum:
NO	Federal Well:
NO	Indian Well:
6,368	True Vertical Depth:
9,921,534	Total Base Water Volume (gal):
0	Total Base Non Water Volume:







Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTS International	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	85.43776	None
HVG-1	FTS International	Gelling Agent					
	DEC NW Departm	A 20		Listed Below			

Other Chemical (s)	Listed Above	See Trade Name (s) List		
			Listed Below	
FRW-1450	FTS International	Friction Reducer		
			Listed Below	
Hydrochloric Acid 15%)	FTS International	Acidizing		
			Listed Below	
Sand (Proppant)	FTS International	Proppant		
			Listed Below	
CS-500-SI	FTS International	Scale Inhibitor		
			Listed Below	
CI-150	FTS International	Acid Corrosion Inhibitor		
			Listed Below	
MX-5-3886	Multi-Chem	Bacteria Treatment		
			Listed Below	
MX-8-2544	Multi-Chem	Bacteria Treatment		
			Listed Below	
ABP-1	FTS International	Breaker		
	FTS International A Company of Protection of	Oil and Gas		

		Listed Below			
above are Trade Names with the exception	of Base Water I Items below are the indi	ividual ingredients			
above are trade names with the exception	Silica Substrate	14808-60-7	100.00000	14.14647	None
	Calcium Nitrate.4H2O	13477-34-4	100.00000	0.11272	None
	Calcium Nitrate.4H2O	13477-34-4	100.00000	0.11272	
	Hydrochloric Acid	7647-01-0	15.00000	0.02972	None
	Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00000	0.02046	
	Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00000	0.02046	None
	Sodium Chloride	7647-14-5	100.00000	0.01003	
	Sodium Chloride	7647-14-5	100.00000	0.01003	None
	Alcohols, C11-14- iso-,C13-rich, ethoxylated	78330-21-9	5.00000	0.00341	None
	Alcohols, C11-14- iso-,C13-rich, ethoxylated	78330-21-9	5.00000	0.00341	
	Ethylene Glycol	107-21-1	10.00000	0.00251	None
	Ethylene Glycol	107-21-1	10.00000	0.00251	
	Petroleum Distillate	64742-47-8	55.00000	0.00058	
	Petroleum Distillate	64742-47-8	55.00000	0.00058	None
	Guar Gum	9000-30-0	50.00000	0.00052	
	Guar Gum	9000-30-0	50.00000	0.00052	None
	Sodium Nitrate	7631-99-4	5.00000	0.00050	None
	Sodium Nitrate	7631-99-4	5.00000	0.00050	1
	Ammonium Persulfate	7727-54-0	95.00000	0.00021	None
	Isopropanol	67-63-0	30.00000	0.00011	None
	Organic Amine Resin Salt	Proprietary	30.00000	0.00011	None
DE DE	Ethylene Glycol	107-21-1	30.00000	0.00011	None
OF OFFI	Aromatic Aldehyde	Proprietary	10.00000	0.00004	None
PECENED Gas Ciffice of Cili and Gas DEC 4 2017 DEC 4 2017 DEC 6 100 100 100 100 100 100 100 100 100 1	Quaternary Ammonium Compound	Proprietary	10.00000	0.00004	None

Dimethylformamide	68-12-2	10.00000	0.00004	None
Clay	14808-60-7	2.00000	0.00002	
Clay	14808-60-7	2.00000	0.00002	None
Surfactant	68439-51-0	2.00000	0.00002	
Surfactant	68439-51-0	2.00000	0.00002	None

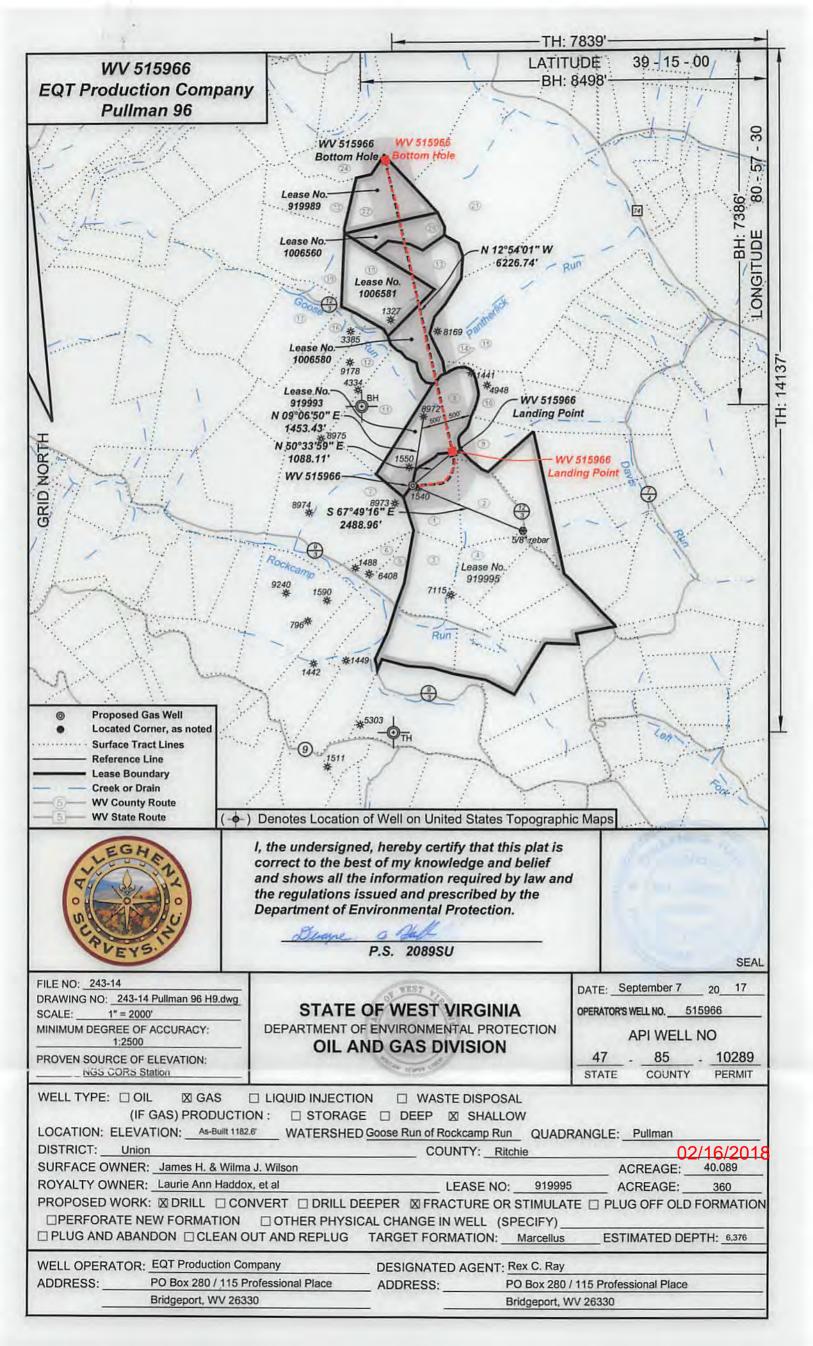
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

WV Department of Environmental Protection DEC

^{*} Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

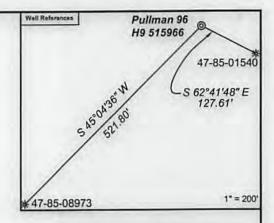
** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

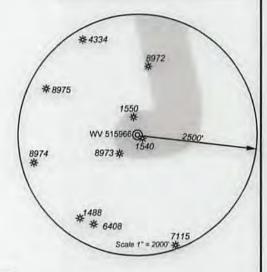


WV 515966 EQT Production Company Pullman 96

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	7	8.4	Ritchie	Union	Wilma J. Wilson	40.09
2	7	8,3	Ritchie	Union	James D. Wilson	39.87
3	7	8.5	Ritchie	Union	Robert & Oleta Jane Wilson	37.23
4	7	8.2	Ritchie	Union	Ian David Wilson	30.10
5	7	11.0	Ritchie	Union	Arnold K. Richards (Life)	43.84
6	7	6.0	Ritchie	Union	Eva L. Riffle	14.75
7	7	5.0	Ritchie	Union	Jean W. Moore	134.70
8	7	4.0	Ritchie	Union	James D. Wilson, et al.	63.00
9	39	10.0	Ritchie	Clay	Charlie Ray & Lori Ann Amos	24.64
10	39	10.1	Ritchie	Clay	Pierce Okla & Suzanne Denise Amos	25.36
11	7	3.0	Ritchie	Union	Earl Wilson Jr., et al.	61.00
12	7	2.1	Ritchie	Union	Michael W. Elder	46.20
13	35	39.0	Ritchie	Clay	Chester D. Riddle, et al.	49.50
14	7	17.0	Ritchie	Union	Max D. & Laura B. Dodd	1.00
15	35	40.0	Ritchie	Clay	Max D. & Laura B. Dodd	211.60
16	7	2.0	Ritchie	Union	Michael W. Elder	66.00
17	7	1.0	Ritchie	Union	Randall K. Woods	55.20
18	35	39.1	Ritchie	Clay	Chester D. Riddle, et al.	47.50
19	35	38.0	Ritchie	Clay	James L. Crouse, et al.	50.00
20	35	39.2	Ritchie	Clay	Howard E. Todd	22.50
21	35	31.0	Ritchie	Clay	Max D. & Laura B. Dodd	93.33
22	35	30.0	Ritchie	Clay	Hothem Family Properties LP	38.75
23	35	29.0	Ritchie	Clay	James L. Crouse, et al.	38.50
24	35	14.0	Ritchie	Clay	Earl Wilson Jr., et al.	293.36



As-Drilled Well Information;
WV 515966 coordinates are
NAD 27 N: 262,511.67 E: 1,578,950.12
NAD 83 UTM N: 4,340,221.89 E: 501,223.44
WV 515966 Landing Point coordinates are
NAD 27 N: 263,227.18 E: 1,579,784.95
NAD 83 UTM N: 4,340,444.12 E: 501,474.13
WV 515966 Bottom Hole coordinates are
NAD 27 N: 269,272.65 E: 1,578,405.70
NAD 83 UTM N: 4,342,278.82 E: 501,023.19
West Virginia Coordinate system of 1927 (North Zone).
Geographic coordinates are NAD27.
UTM coordinates are NAD83, Zone 17, Meters.
Plat orientation, corner and well files are based upon the grid north meridian.
Well location references are based upon the grid north meridian.



Pullman 96
9 14 5 9 14 5 9 14 5 5 7
@ H10 5155 @ H7 51556 @ H5 515965
72 515887

Lease No.	Name	Acres
919993	lan David Wilson, et al.	63
1006580	Eagle Ridge L.P., et al.	49.5
1006581	Eagle Ridge L.P., et al.	47.5
1006560	E. Howard Todd	22.5
919989	Sandra Kay Reed, et al.	38



Proposed Gas Well
Located Corner, as noted
Surface Tract Lines
Reference Line
Lease Boundary
Creek or Drain
WV County Route
WV State Route

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

P.S. 2089SU

SEAL

FILE NO: 243-14

DRAWING NO: 243-14 Pullman 96 H9.dwg

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1:2500

PROVEN SOURCE OF ELEVATION:

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: September 7 20 17

OPERATOR'S WELL NO. 515966

API WELL NO

47 - 85 - 10289

STATE COUNTY PERMIT

NGS CORS Station	STATE CO.		STA	TE COUNTY	PERMIT
	LIQUID INJECTION WASTE				
LOCATION: ELEVATION: As-Built 1182.	WATERSHED Goose Run of Roc	kcamp Run	QUADRANG	LE: Pullman	
DISTRICT: Union	COU	NTY: Ritchi	e	02	716/2018
SURFACE OWNER: James H. & Wilma	J. Wilson			ACREAGE:	40.089
ROYALTY OWNER: Laurie Ann Haddox	, et al LI	EASE NO: _	919995	ACREAGE:	360
PROPOSED WORK: ☑ DRILL ☐ CON☐ PERFORATE NEW FORMATION				PLUG OFF OLD	FORMATION
□ PLUG AND ABANDON □ CLEAN O	JT AND REPLUG TARGET FORM	ATION:N	Marcellus	ESTIMATED DEF	PTH: 6,376
WELL OPERATOR: EQT Production Con	npany DESIGNATED	AGENT: Re	x C. Ray		
ADDRESS: PO Box 280 / 115 Pr	ofessional Place ADDRESS:	PO	PO Box 280 / 115 Professional Place		
Bridgeport, WV 2633	0	Bric	dgeport, WV 263	30	