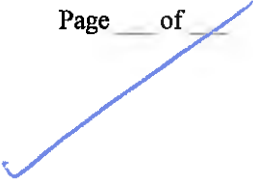


State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work



API 47-085-10217 County RITCHIE District UNION
Quad PULLMAN Pad Name PUL96 Field/Pool Name N/A
Farm name JAMES H. & WILMA J. WILSON Well Number 515886
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing N. 4,340,213.79 Easting 501,219.22
Landing Point of Curve Northing N. 4,339,418.86 Easting E. 500,299.68
Bottom Hole Northing N. 4,337,973.02 Easting E. 500,719.32

Elevation (ft) 1183' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)

Water base Mud 11.5 ppg, Synthetic Base Mud 11.5 ppg, barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 08/06/2015 Date drilling commenced 09/24/2015 Date drilling ceased 2/16/2016
Date completion activities began 9/3/2016 Date completion activities ceased 9/9/2016
Verbal plugging (Y/N) N Date permission granted N/A Granted by DEC 06 2016

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 342,368,399,556 Open mine(s) (Y/N) depths N
Salt water depth(s) ft No salt water shows Void(s) encountered (Y/N) depths N
Coal depth(s) ft No coal seams Cavern(s) encountered (Y/N) depths N

Is this submission accurate (Y/N) N
APPROVED

NAME: Michael Doff
DATE: 12-21-2016

Reviewed by: _____

API 47-085 10217

Farm name JAMES H. & WILMA J. WILSON Well number 515886

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40'	NEW	A-500	N/A	Y
Surface	17 1/2"	13 3/8"	670'	NEW	J-55	208'	Y
Coal							
Intermediate 1	12 3/8"	9 5/8"	2570'	NEW	A-500	716', 1557'	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	14,630'	NEW	P-110	N/A	N
Tubing							
Packer type and depth set							

Comment Details N/A

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	38	15.6	1.18	44.84	0	8
Surface	CLASS A	599	15.6	1.20	718.80	0	8
Coal							
Intermediate 1	CLASS A	988	15.6	1.18	1165.84	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS H / CLASS H	1,194 / 674	15.2 / 15.6	1.25 / 2.06	2880.94	2,310	72
Tubing							

Drillers TD (ft) 14,644' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 4,579'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

CONDUCTOR: NONE
 SURFACE: 2 CENTRALIZERS AT JOINTS 1 AND 10
 INTERMEDIATE: 6 CENTRALIZERS PLACED EVERY 500'
 PRODUCTION: 285 Spiral body composite centralizers placed every joint from bottom to 2,500 ftMD.

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 085 - 10217 Farm name JAMES H. & WILMA J. WILSON Well number 515886

Drilling Contractor Savanna Drilling (Rig 803)
Address 125 Industry Road City Waynesburg State PA Zip 15370

Logging Company Phoenix Technology Services
Address 1805 Brittmoore Road City Houston State TX Zip 77043

515886 Final Formations (API #47-08510217)

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
SAND/SHALE	1'	1'	1,060'	1,060'
MAXTON	1,060'	1,060'	1,086'	1,086'
SAND/SHALE	1,086'	1,086'	1,117'	1,117'
BIG LIME	1,117'	1,117'	1,242'	1,242'
SAND/SHALE	1,242'	1,242'	2,319'	2,319'
BIG INJUN	2,319'	2,319'	2,467'	2,467'
SAND/SHALE	2,467'	2,467'	2,672'	2,672'
GANTZ	2,672'	2,672'	2,754'	2,754'
50F	2,754'	2,754'	2,841'	2,841'
GORDON	2,841'	2,841'	3,054'	3,054'
5TH	3,054'	3,054'	3,111'	3,111'
BAYARD	3,111'	3,111'	3,513'	3,513'
WARREN	3,513'	3,513'	3,623'	3,623'
SPEECHLEY	3,623'	3,623'	3,961'	3,961'
BALLTOWN A	3,961'	3,961'	4,204'	4,204'
BALLTOWN B	4,204'	4,204'	4,351'	4,351'
BRADFORD	4,351'	4,351'	4,607'	4,607'
RILEY	4,607'	4,607'	4,948'	4,944'
BENSON	4,948'	4,944'	5,227'	5,182'
ALEXANDER	5,227'	5,182'	5,241'	5,191'
ANGOLA	5,241'	5,191'	5,999'	5,462'
RHINESTREET UPPER	5,999'	5,462'	6,097'	5,494'
RHINESTREET	6,097'	5,494'	8,185'	6,115'
SONYEA	8,185'	6,115'	8,512'	6,210'
MIDDLESEX	8,512'	6,210'	8,695'	6,262'
GENESSEE	8,695'	6,262'	8,883'	6,308'
GENESEO	8,883'	6,308'	9,072'	6,337'
TULLY	9,072'	6,337'	9,156'	6,349'
MARCELLUS	9,156'	6,349'	14,630'	6,368'

515886- 47-085-10217-0000- Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	3/4/2016	14,605	14,632	10	MARCELLUS
1	9/3/2016	14,484	14,576	32	MARCELLUS
2	9/3/2016	14,334	14,456	40	MARCELLUS
3	9/4/2016	14,187	14,306	40	MARCELLUS
4	9/4/2016	14,034	14,156	40	MARCELLUS
5	9/4/2016	13,884	14,006	40	MARCELLUS
6	9/4/2016	13,734	13,856	40	MARCELLUS
7	9/4/2016	13,584	13,701	40	MARCELLUS
8	9/4/2016	13,433	13,556	40	MARCELLUS
9	9/5/2016	13,134	13,256	40	MARCELLUS
10	9/5/2016	13,284	13,406	40	MARCELLUS
11	9/5/2016	12,984	13,106	40	MARCELLUS
12	9/5/2016	12,834	12,955	40	MARCELLUS
13	9/5/2016	12,684	12,806	40	MARCELLUS
14	9/5/2016	12,534	12,656	40	MARCELLUS
15	9/6/2016	12,384	12,506	40	MARCELLUS
16	9/6/2016	12,234	12,356	40	MARCELLUS
17	9/6/2016	12,084	12,206	40	MARCELLUS
18	9/6/2016	11,934	12,056	40	MARCELLUS
19	9/6/2016	11,784	11,902	40	MARCELLUS
20	9/6/2016	11,634	11,756	40	MARCELLUS
21	9/6/2016	11,484	11,606	40	MARCELLUS
22	9/7/2016	11,333	11,454	40	MARCELLUS
23	9/7/2016	11,184	11,306	40	MARCELLUS
24	9/7/2016	11,034	11,156	40	MARCELLUS
25	9/7/2016	10,884	11,006	40	MARCELLUS
26	9/7/2016	10,734	10,856	40	MARCELLUS
27	9/7/2016	10,584	10,706	40	MARCELLUS
28	9/8/2016	10,434	10,556	40	MARCELLUS
29	9/8/2016	10,283	10,406	40	MARCELLUS
30	9/8/2016	9,984	10,106	40	MARCELLUS
31	9/8/2016	10,134	10,256	40	MARCELLUS
32	9/8/2016	9,834	9,956	40	MARCELLUS
33	9/8/2016	9,684	9,806	40	MARCELLUS
34	9/8/2016	9,534	9,656	40	MARCELLUS
35	9/9/2016	9,384	9,506	40	MARCELLUS

515886-47-085-10217-0000- Stimulated Stages

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 (bbbls)	Amount of Nitrogen/other (units)
Initiation Sleeve	9/3/2016	12	6,229	7,663	4,293	0	921	0
1	9/3/2016	93	8,835	9,041	3,055	249,200	5,286	0
2	9/3/2016	95	8,356	8,810	3,199	249,499	5,270	0
3	9/4/2016	97	8,034	8,634	3,196	250,000	5,277	0
4	9/4/2016	98	8,081	8,320	3,334	250,000	5,182	0
5	9/4/2016	98	8,064	8,961	3,171	250,000	6,394	0
6	9/4/2016	96	8,186	8,554	3,235	250,000	4,985	0
7	9/4/2016	100	8,327	8,795	3,393	249,799	5,366	0
8	9/5/2016	89	8,422	8,732	3,263	249,799	5,260	0
9	9/5/2016	98	8,250	8,607	3,265	250,000	5,183	0
10	9/5/2016	100	8,070	8,265	3,286	249,001	5,068	0
11	9/5/2016	100	7,959	8,172	3,259	250,000	4,963	0
12	9/5/2016	98	7,972	8,396	3,267	250,000	4,932	0
13	9/5/2016	99	8,269	8,484	3,416	249,001	5,205	0
14	9/5/2016	98	7,776	8,119	3,318	250,000	5,112	0
15	9/6/2016	100	7,526	8,138	3,370	249,601	5,048	0
16	9/6/2016	100	7,858	8,066	3,784	250,000	4,974	0
17	9/6/2016	100	7,650	7,840	3,290	250,000	4,888	0
18	9/6/2016	101	7,701	7,823	3,574	250,300	4,839	0
19	9/6/2016	99	7,581	7,907	3,455	250,000	4,853	0
20	9/6/2016	100	7,824	8,063	3,341	248,000	4,871	0
21	9/7/2016	99	7,628	7,845	3,660	248,501	4,844	0
22	9/7/2016	99	7,563	8,136	3,357	249,001	4,843	0
23	9/7/2016	100	7,924	8,236	3,331	249,901	4,896	0
24	9/7/2016	100	7,440	7,697	3,319	249,901	4,893	0
25	9/7/2016	100	7,808	8,075	3,820	250,800	4,825	0
26	9/7/2016	96	7,331	7,660	3,811	250,600	4,771	0
27	9/7/2016	97	7,424	7,674	3,671	250,000	4,710	0
28	9/8/2016	95	7,235	7,549	3,462	248,000	4,720	0
29	9/8/2016	97	7,208	7,595	3,116	247,901	4,755	0
30	9/8/2016	100	7,339	7,764	3,263	250,000	4,752	0
31	9/8/2016	101	7,515	7,734	3,282	248,000	7,764	0
32	9/8/2016	101	7,589	7,762	3,980	250,200	7,728	0
33	9/8/2016	100	7,825	8,269	3,513	250,000	7,970	0
34	9/8/2016	100	7,346	7,575	3,906	257,701	7,670	0
35	9/9/2016	86	7,741	9,287	3,057	254,301	8,377	0

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	9/3/2016
Job End Date	9/9/2016
State	West Virginia
County	Ritchie
API Number	47-085-10217-00-00
Operator Name	EQT Production
Well Name and Number	515886
Latitude	39 21111500
Longitude	-80.98604600
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	6,349
Total Base Water Volume (gal)	8,038,589
Total Base Non Water Volume	0



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	Halburton Environmental Services, Inc. / Department of Environmental Protection	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.07512	None
Other Chemical (s)	See Above	See Trade Name					
				Listed Below			

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 Oil & Gas

					Calcium Nitrate.4H2O	13477-34-4	100.00000	0.10794	None
					Hydrochloric Acid	7647-01-0	15.00000	0.03253	None
					Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01986	
					Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01986	None
					Polyacrylate	Proprietary	30.00000	0.01986	
					Polyacrylate	Proprietary	30.00000	0.01986	None
					Contains no hazardous substances in concentrations above cut-off values according to the competent authority	Proprietary	100.00000	0.01400	
					Contains no hazardous substances in concentrations above cut-off values according to the competent authority	Proprietary	100.00000	0.01400	None
					Ethylene glycol	107-21-1	60.00000	0.01371	None
					Ethylene glycol	107-21-1	60.00000	0.01371	
					Sodium chloride	7647-14-5	100.00000	0.00969	None
					Ethoxylated alcohols	Proprietary	5.00000	0.00331	None
					Fatty nitrogen derived amides	Proprietary	5.00000	0.00331	
					Fatty nitrogen derived amides	Proprietary	5.00000	0.00331	None
					Ethoxylated alcohols	Proprietary	5.00000	0.00331	
					Polyacrylate	Proprietary	30.00000	0.00291	None
					Fatty nitrogen derived amides	Proprietary	5.00000	0.00048	None
					Sodium nitrate	7631-99-4	5.00000	0.00048	None
					Sodium chloride	7647-14-5	5.00000	0.00048	None
					Methanol	67-56-1	60.00000	0.00022	None
					Methanol	67-56-1	60.00000	0.00022	
					Ethoxylated alcohols	Proprietary	30.00000	0.00011	

			Ethoxylated alcohols	Proprietary	30.00000	0.00011	None
			Modified thiourea polymer	Proprietary	30.00000	0.00011	None
			Modified thiourea polymer	Proprietary	30.00000	0.00011	
			Propargyl alcohol	107-19-7	10.00000	0.00004	None
			Propargyl alcohol	107-19-7	10.00000	0.00004	

* 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

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)

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WV Department of
Environmental Protection



May 19, 2016

Mr. Gene Smith
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Modification of 47-085-10217

Dear Mr. Smith,

Enclosed is an updated WW-6B, schematics, WW-6A1, mylar plat and rec plan. The lateral bore was drilled shorter than what was permitted. EQT would like to submit this correction for your files.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Enc.

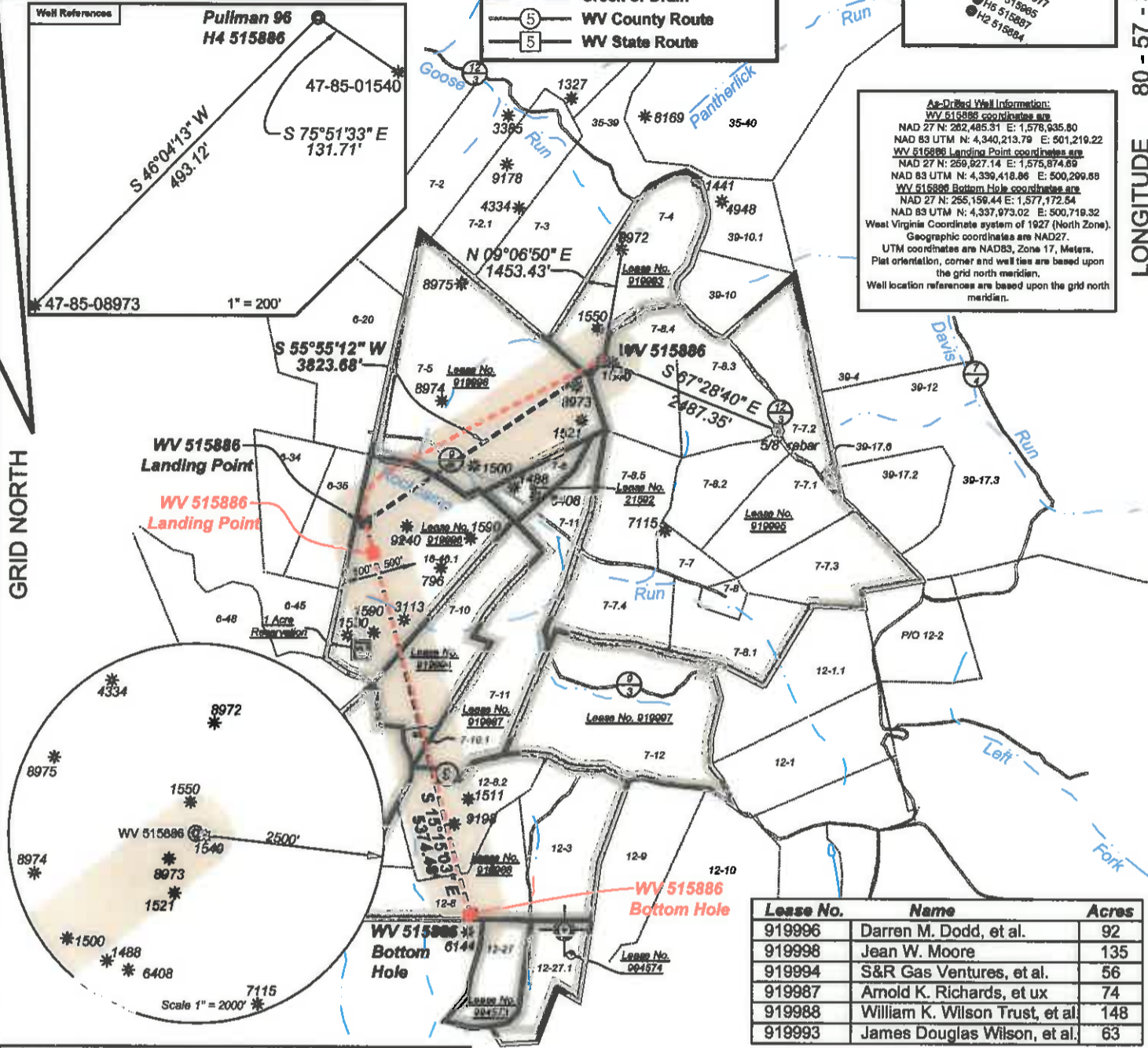
WV 515886
EQT Production Company
Laurie Ann Haddox, et al
360 Acres

- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑤ WV State Route

LATITUDE 39 - 15 - 00

- Pullman 96**
- H9 515867
 - H8 515866
 - H4 515865
 - H3 515864
 - H1 515863
 - H10 515862
 - H7 515861
 - H5 515860
 - H2 515859

As-Drilled Well Information:
WV 515886 coordinates are
NAD 27 N: 282,485.31 E: 1,578,935.80
NAD 83 UTM N: 4,340,213.79 E: 501,219.22
WV 515886 Landing Point coordinates are
NAD 27 N: 259,827.14 E: 1,575,874.69
NAD 83 UTM N: 4,339,418.86 E: 500,209.89
WV 515886 Bottom Hole coordinates are
NAD 27 N: 255,156.44 E: 1,577,172.54
NAD 83 UTM N: 4,337,973.02 E: 500,719.32
West Virginia Coordinate system of 1927 (North Zone).
Geographic coordinates are NAD27.
UTM coordinates are NAD83, Zone 17, Meters.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.



Lease No.	Name	Acres
919996	Darren M. Dodd, et al.	92
919998	Jean W. Moore	135
919994	S&R Gas Ventures, et al.	56
919987	Arnold K. Richards, et ux	74
919988	William K. Wilson Trust, et al.	148
919993	James Douglas Wilson, et al.	63

(-♦-) Denotes Location of Well on United States Topographic Maps



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.

Dwayne A. Hall
P.S. 2089SU



FILE NO: 243-14
DRAWING NO: 243-14 Pullman 96 H4.dwg
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: May 18 20 16
OPERATOR'S WELL NO. 515886
API WELL NO
47 - 85 - 10217
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As Built: 1182.6' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman
DISTRICT: Union COUNTY: Ritchie
SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD 6,396

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
ADDRESS: PO Box 280 / 115 Professional Place ADDRESS: PO Box 280 / 115 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330