

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

API 47-051-01795 County Marshall District Clay  
Quad Glen Easton Pad Name Taylor B Field/Pool Name \_\_\_\_\_  
Farm name Williams Ohio Valley Midstream, LLC Well Number Taylor B 4H  
Operator (as registered with the OOG) Chevron Appalachia, LLC  
Address 700 Cherrington Parkway City Coraopolis State PA Zip 15108

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 496419.37 Easting 1635005.38  
Landing Point of Curve Northing 496475.72 Easting 1633898.48  
Bottom Hole Northing 503328.75 Easting 1628382.73

Elevation (ft) 1222' 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)  
Synthetic - Barite, fluid loss, emulsifiers, rheological control

Date permit issued 4/7/2015 Date drilling commenced 11/5/2015 Date drilling ceased 10/17/2017  
Date completion activities began 6/4/18 Date completion activities ceased 2/7/19  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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

Freshwater depth(s) ft 797' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft n/a Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 765' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) Y

**Reviewed** Reviewed by: J. Luboke  
3/28/19

WR-35  
Rev. 8/23/13

API 47-051 - 01795 Farm name Williams Ohio Valley Midstream, LLC Well number Taylor B 4H

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	26"	20"	119'	New			Y
Surface	17 1/2"	13 3/8"	546'	New	J-55 / 54.5#		Y
Coal	12 1/4"	9 5/8"	2194'	New	J-55 / 40#		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	15979'	New	P-110 / 20#		Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Bulk Cement	Bulk Cement				Surface	8
Surface	Class A	452	15.6	1.20	542.4	Surface	8
Coal	Class A	817	15.6	1.19	972.23	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class G/H	Lead - 1373 / Tail - 2035	Lead - 14.7 / Tail - 15.2	Lead - 1.13 / Tail - 1.15	Lead - 1551.49 / Tail - 2340.25		8
Tubing							

Drillers TD (ft) 15997' Loggers TD (ft) 15997'

Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5345'

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

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING A bow string centralizer every two joints on the water string and intermediate. The production string has two centralizers every joint in the lateral and curve, then one every joint from KOP to surface.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS SEE ATTACHED PERFORATION AND STIMULATION REPORT

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

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

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API 47- 051 - 01795 Farm name Williams Ohio Valley Midstream, LLC Well number Taylor B 4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6457'	TVD 7060' MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs  
 OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  
 Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
SEE	ATTACHED				

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company Stratagraph NE Inc  
 Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company SEE ATTACHED  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company Universal Pressure Pumping Inc  
 Address 18360 Technology Drive City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 412-865-3422  
 Signature \_\_\_\_\_ Title Regulatory Compliance Team Lead Date 2/14/19

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API: 47-051-01795	Farm Name: Williams Ohio Valley Midstream, LLC	Well Number: Taylor B 4H
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	10/5/18	15804	15644	47	Marcellus
2	10/6/18	15608	15444	47	Marcellus
3	10/6/18	15404	15244	47	Marcellus
4	10/6/18	15204	15044	47	Marcellus
5	10/6/18	15104	14844	47	Marcellus
6	10/7/18	14804	14644	47	Marcellus
7	10/7/18	14604	14444	47	Marcellus
8	10/7/18	14404	14244	47	Marcellus
9	10/8/18	14204	14044	47	Marcellus
10	10/8/18	14004	13844	47	Marcellus
11	10/8/18	13804	13644	47	Marcellus
12	10/9/18	13604	13444	47	Marcellus
13	10/9/18	13404	13244	47	Marcellus
14	10/9/18	13204	13044	47	Marcellus
15	10/10/18	13004	12844	47	Marcellus
16	10/10/18	12804	12644	47	Marcellus
17	10/10/18	12604	12444	47	Marcellus
18	10/11/18	12404	12244	47	Marcellus
19	10/11/18	12204	12044	47	Marcellus
20	10/11/18	12004	11844	47	Marcellus
21	10/11/18	11804	11644	47	Marcellus
22	10/12/18	11604	11444	47	Marcellus
23	10/12/18	11404	11244	47	Marcellus
24	10/12/18	11204	11044	47	Marcellus
25	10/13/18	11004	10844	47	Marcellus
26	10/13/18	10804	10644	47	Marcellus
27	10/13/18	10604	10444	47	Marcellus
28	10/13/18	10404	10244	47	Marcellus
29	10/14/18	10204	10044	47	Marcellus
30	10/14/18	10004	9844	47	Marcellus
31	10/14/18	9804	9644	47	Marcellus
32	10/15/18	9604	9444	47	Marcellus
33	10/15/18	9404	9244	47	Marcellus
34	10/15/18	9204	9044	47	Marcellus
35	10/16/18	9004	8844	47	Marcellus
36	10/16/18	8804	8644	47	Marcellus
37	10/16/18	8604	8444	47	Marcellus
38	10/16/18	8404	8244	47	Marcellus
39	10/17/18	8204	8044	47	Marcellus
40	10/17/18	8004	7844	47	Marcellus
41	10/18/18	7804	7644	47	Marcellus
42	10/18/18	7604	7444	47	Marcellus
43	10/18/18	7404	7244	47	Marcellus
44	10/18/18	7204	7044	47	Marcellus
45	10/18/18	7004	6844	47	Marcellus

Please insert additional copies of this page if additional rows/stages are needed.

API: 47-051-01795	Well Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor B 4H
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STIMULATION INFORMATION / STAGE								
Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).								
Stg No.	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)
1	10/5/18	91	9296	6466	4596	401013	9929	n/a
2	10/6/18	96.9	8927	5709	4803	400872	9597	n/a
3	10/6/18	94.8	8528	5533	4697	400486	9769	n/a
4	10/6/18	96.4	8473	5755	4920	400077	10512	n/a
5	10/6/18	100.4	8473	5792	5027	400460	9716	n/a
6	10/7/18	98.8	8350	5253	4986	400245	9588	n/a
7	10/7/18	99.4	8394	5262	4882	401151	9458	n/a
8	10/7/18	99.8	8379	5383	5041	401461	9623	n/a
9	10/8/18	100	8429	5729	4846	400972	9714	n/a
10	10/8/18	98.9	8483	5548	4898	402285	9679	n/a
11	10/8/18	100.1	8403	5677	4977	400747	9566	n/a
12	10/9/18	99.8	8648	5814	4895	402052	9772	n/a
13	10/9/18	98.8	8351	6093	4859	400617	10501	n/a
14	10/9/18	100.4	8936	5745	5049	399546	9644	n/a
15	10/10/18	99.7	8563	5581	5079	399547	9642	n/a
16	10/10/18	98.2	7819	5945	4819	401152	9591	n/a
17	10/10/18	100.7	8429	5579	5039	401297	9617	n/a
18	10/11/18	100.1	8366	5990	5026	405181	9623	n/a
19	10/11/18	99.9	7998	6022	4811	399823	9447	n/a
20	10/11/18	99.3	8122	6022	4817	399765	9513	n/a
21	10/11/18	99.8	8337	5873	4980	399870	9534	n/a
22	10/12/18	100.6	8207	6359	5013	401567	9421	n/a
23	10/12/18	99.7	7979	5709	4928	400072	9106	n/a
24	10/12/18	99.6	8387	5449	4870	399616	9145	n/a
25	10/13/18	100.2	8356	5986	5013	399086	10158	n/a
26	10/13/18	100.2	8165	6411	5116	400545	9319	n/a
27	10/13/18	100	7991	5535	5000	399998	9361	n/a
28	10/13/18	99.9	8090	6928	5134	399549	9353	n/a
29	10/14/18	100.1	7907	6309	4855	401682	9343	n/a
30	10/14/18	99.6	7570	6216	4904	401804	9320	n/a
31	10/14/18	99.8	7814	6595	4974	401102	9460	n/a
32	10/15/18	99.9	8146	6300	5110	401557	9381	n/a
33	10/15/18	99.9	7849	5977	4876	400662	9253	n/a
34	10/15/18	100	8210	6356	5076	402667	9248	n/a
35	10/16/18	100.1	8491	6475	5108	399464	9298	n/a
36	10/16/18	100.2	7410	5555	5011	401568	9264	n/a
37	10/16/18	100.5	7271	6794	4911	401518	9287	n/a
38	10/16/18	100.2	7457	5956	5007	399580	9203	n/a
39	10/17/18	100	7443	6348	5108	399994	9171	n/a
40	10/17/18	100.6	7659	6221	5045	400784	9148	n/a
41	10/18/18	100.2	7871	6450	4996	401332	9287	n/a
42	10/18/18	100.3	7666	6151	5009	403451	9183	n/a
43	10/18/18	100.2	7638	6526	5054	402248	9169	n/a
44	10/18/18	99.2	7689	6980	4895	401326	9052	n/a
45	10/18/18	100.9	6836	6789	4027	461083	10354	n/a

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Taylor B 4H (51-01795)				
Top	Top MD	Base MD	TVD	TVD
Dunkard	0	472	0	472
Waynesburg/Monongahela	472	771	472	771
Pittsburgh Coal	765	771	765	771
Conemaugh	771	1109	771	1109
Salt Sands	1489	1729	1488	1728
Mauch Chunk	1729	1836	1728	1835
Big Lime	1836	1924	1835	1923
Burgoon	1924	2144	1923	2143
Squaw	2144	2269	2143	2268
Weir	2269	2469	2268	2468
Berea	2483	2499	2482	2498
Gordon	2729	2809	2728	2808
Upper Bayard	3082	3114	3081	3113
Rhinestreet	5889	6186	5885	6164
Sycamore	6186	6281	6164	6248
Middlesex	6,507	6,659	6,319	6,405
BRKT	6,659	6,678	6,405	6,415
TLLY	6,678	6,745	6,415	6,447
S5	6,745	6,980	6,447	6,529
S3	6,980	7,047	6,529	6,544
STFD*	7,047	7,060	6,544	6,547
S2.B	7,060	7,096	6,547	6,552
S2.A	7,096		6,552	

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API: 47-051-01795	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor B 4H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Precision Drilling Holdings Company
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10350 Richmond Avenue, Suite 700
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Houston, TX 77042



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API: 47-051-01795	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor B 4H
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CEMENTING CONTRACTORS		
Name Baker Hughes	Name BJ Services	Name
Address 5373 West Alabama, Suite 300	Address 3415 Millennium Boulevard SE	Address
City - State - Zip Houston, TX 77056	City - State - Zip Massillon, OH 44646	City - State - Zip

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/5/2018
Job End Date:	10/18/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01795-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor B 4H
Latitude:	39.85686500
Longitude:	-80.68797800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,559
Total Base Water Volume (gal):	17,989,398
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	Chevron	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.23716	None
Sand	UPP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	10.62854	None
HCL Acid (7.5%)	UPP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.07636	None
Unislick ST50	UPP	Friction reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00000	0.01844	None
			Ammonium acetate	631-61-8	13.00000	0.00799	None
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00307	None
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00307	None
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00307	None
EC6116A	UPP	Biocide	Polyethylene glycol	7732-18-5	60.00000	0.00402	None
			2,2-Dibromo-3-nitripropionamide	10222-01-2	30.00000	0.00201	None
			Dibromoacetone	3252-43-5	5.00000	0.00034	None

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Iron Control A	UPP	Iron Control Agent					
		Ethylene Glycol	107-21-1		30.00000		0.00544 None
K-BAC 1020	UPP	Biocide					
		Polyethylene glycol	25322-68-3		50.00000		0.00221 None
		Water	7732-18-5		30.00000		0.00133 None
		2,2-Dibromo-3-nitropropionamide	10222-01-2		21.00000		0.00093 None
Scale Inhibitor E	UPP	Scale Inhibitor					
		Copolymer of Maleic and Acrylic Acid	52255-49-9		20.00000		0.00278 None
		Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1		5.00000		0.00069 None
		DETA phosphonate	15827-60-8		5.00000		0.00069 None
Unihib G	UPP	Acid inhibitor					
		Butyl diglycol	112-34-5		75.00000		0.00060 None
		Alcohols, C10-16, ethoxylated	68002-97-1		50.00000		0.00040 None
		Methanol	67-56-1		5.00000		0.00004 None
		Formaldehyde	50-00-0		1.00000		0.00001 None
		Thiourea	62-56-6		1.00000		0.00001 None
AP Breaker	UPP	Gel Breaker					
		Ammonium Persulfate	7727-54-0		100.00000		0.00002 None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
		Ammonium acetate	631-61-8		13.00000		0.00798
		Polyethylene glycol	7732-18-5		60.00000		0.00402
		Alcohols, ethoxylated	68002-97-1		5.00000		0.00307
		Alcohols, ethoxylated	68551-12-2		5.00000		0.00307
		Alcohols, ethoxylated	68439-50-9		5.00000		0.00307
		Polyethylene glycol	25322-68-3		50.00000		0.00221
		Water	7732-18-5		30.00000		0.00133
		DETA phosphonate	15827-60-8		5.00000		0.00069
		Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1		5.00000		0.00069
		Alcohols, C10-16, ethoxylated	68002-97-1		50.00000		0.00040
		Dibromoacetonitrile	3252-43-5		5.00000		0.00034
		Methanol	67-56-1		5.00000		0.00004
		Thiourea	62-56-6		1.00000		0.00001
		Formaldehyde	50-00-0		1.00000		0.00001

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

Notes: 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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03/29/2019

**Jackie M. Scholar**  
Regulatory Reporting Coordinator

February 13, 2019

**CERTIFIED MAIL: 7016 0340 0000 4903 6065**

WV DEP  
Office of Oil and Gas  
601 – 57<sup>th</sup> Street  
Charleston, WV 25304

RE: Well Operator's Report of Well Work WR-35  
**Taylor B 4H**

Dear Sir/Madam,

Enclosed here within please find one (1) Well Operator's Report of Well Work WR-35, one (1) copy of the Plat on Mylar, one (1) copy of the FracFocus report, and one (1) copy of the Directional Survey for **Taylor B 4H, (API 47-051-01795)**.

If you have any questions, please contact me at (412) 865-3422. Thank you.

Sincerely,  
Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

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# AS DRILLED PLAT

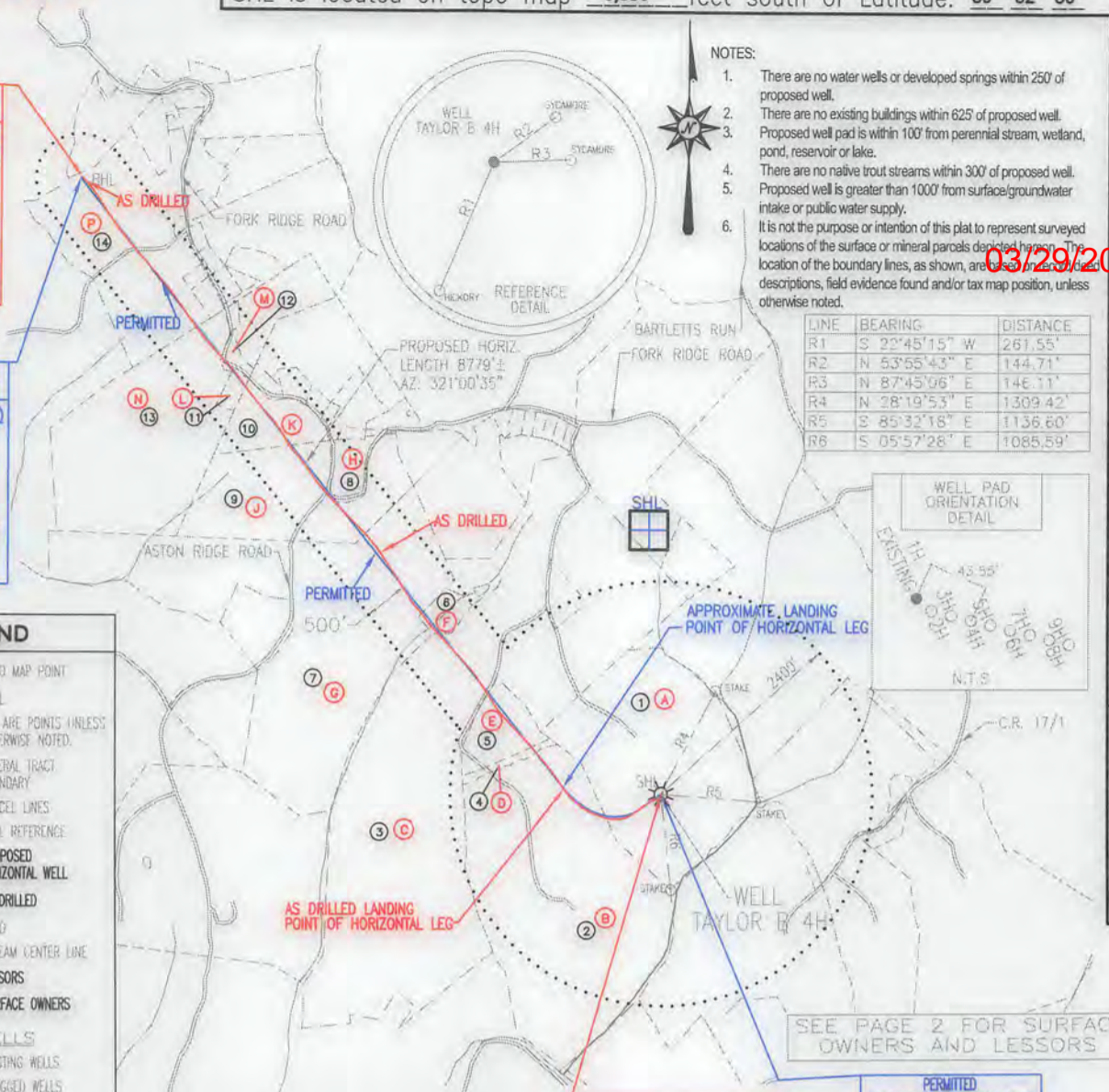
BHL is located on topo map 14,977 feet south of Latitude: 39° 55' 00"  
 SHL is located on topo map 6,606 feet south of Latitude: 39° 52' 30"

**AS DRILLED  
BOTTOM HOLE LOCATION (BHL)**  
 UTM 17-NAD83(M)  
 N:4413988.70  
 E:524636.85  
 NAD 83, WV NORTH  
 N:503328.75  
 E:1628382.73  
 LAT/LON DATUM-NAD83  
 LAT:39.875589  
 LON:-80.711900

**PERMITTED  
BOTTOM HOLE LOCATION (BHL)**  
 UTM 17-NAD83(M)  
 N:4413984.33  
 E:524631.51  
 NAD 83, WV NORTH  
 N:503314.71  
 E:1628364.97  
 LAT/LON DATUM-NAD83  
 LAT:39.875550  
 LON:-80.711961

LEGEND	
	- TOPO MAP POINT
	- WELL
	- ALL ARE POINTS UNLESS OTHERWISE NOTED.
	- MINERAL TRACT BOUNDARY
	- PARCEL LINES
	- WELL REFERENCE
	- PROPOSED HORIZONTAL WELL
	- AS DRILLED
	- ROAD
	- STREAM CENTER LINE
	- LESSORS
	- SURFACE OWNERS
<b>GAS WELLS</b>	
	- EXISTING WELLS
	- PLUGGED WELLS

**Blue Mountain Inc.**  
 10125 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486



**NOTES:**

- There are no water wells or developed springs within 250' of proposed well.
- There are no existing buildings within 625' of proposed well.
- Proposed well pad is within 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on recorded descriptions, field evidence found and/or tax map position, unless otherwise noted.

BHL is located on topo map 1,018 feet west of Longitude: 80° 42' 30"  
 SHL is located on topo map 5,983 feet west of Longitude: 80° 40' 00"

**AS DRILLED  
APPROX. LANDING POINT**  
 UTM 17-NAD83(M)  
 N:4411928.98  
 E:526352.14  
 NAD 83, WV NORTH  
 N:496475.72  
 E:1633898.48  
 LAT/LON DATUM-NAD83  
 LAT:39.856981  
 LON:-80.691922

**PERMITTED  
APPROX. LANDING POINT**  
 UTM 17-NAD83(M)  
 N:4411933.71  
 E:526349.05  
 NAD 83, WV NORTH  
 N:496491.42  
 E:1633888.59  
 LAT/LON DATUM-NAD83  
 LAT:39.857022  
 LON:-80.691958

**AS DRILLED  
SURFACE HOLE LOCATION (SHL)**  
 UTM 17-NAD83(M)  
 N:4411917.45  
 E:526689.65  
 NAD 83, WV NORTH  
 N:496419.37  
 E:1635005.38  
 LAT/LON DATUM-NAD83  
 LAT:39.856867  
 LON:-80.687978

**PERMITTED  
SURFACE HOLE LOCATION (SHL)**  
 UTM 17-NAD83(M)  
 N:4411917.45  
 E:526689.65  
 NAD 83, WV NORTH  
 N:496419.37  
 E:1635005.38  
 LAT/LON DATUM-NAD83  
 LAT:39.856867  
 LON:-80.687978

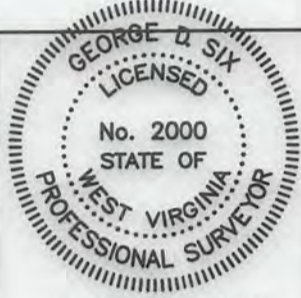
SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: TAYLOR B 4H-AS DRILLED  
 DRAWING #: TAYLOR B 4H-AS DRILLED  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.

Signed: *George D. Six*

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: JANUARY 08, 2018  
 OPERATOR'S WELL #: TAYLOR B 4H-AS DRILLED  
 API WELL #: 47 51 **01795**  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1222.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 91.93±

OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 836.923±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORM NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,533'± TMD: 16,078.81'±

WELL OPERATOR: CHEVRON APPALACHIA, LLC DESIGNATED AGENT: KENNETH E. TAWNEY  
 Address: 700 CHERRINGTON PARKWAY Address: 500 LEE STREET, EAST SUITE 1600  
 City: CORAOPOLIS State: PA Zip Code: 15108 City: CHARLESTON State: WV Zip Code: 25301-3202

# TAYLOR B 4H PAGE 2 OF 2

03/29/2019

## AS DRILLED PLAT

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/20
2	BRENDAN J. MCCARTHY & JOSEPH E. BOJALAD III	4-10/19
3	LEE R. TAYLOR, ET UX	4-10/21
4	CARY B. & TRUDY J. WILSON	4-10/19.2
5	CARY B. & TRUDY J. WILSON	4-10/19.1
6	LEWIS A. ASTON, JR., ET UX	4-9/23
7	LEWIS A. ASTON, JR., ET UX	4-10/6
8	*WILLIAM R. & LINDA L. STANDIFORD	4-9/14
9	LEWIS A. ASTON, JR., ET UX	4-9/13
10	GARY M. BONAR ET UX	4-9/12
11	MARNIE KAY BUCHANAN	4-9/11.1
12	ROBERT D. & NAOMI L. MILLER-LIFE	4-9/10
13	MARNIE KAY BUCHANAN	4-9/11
14	JEFFREY L. RYAN	4-9/2.5

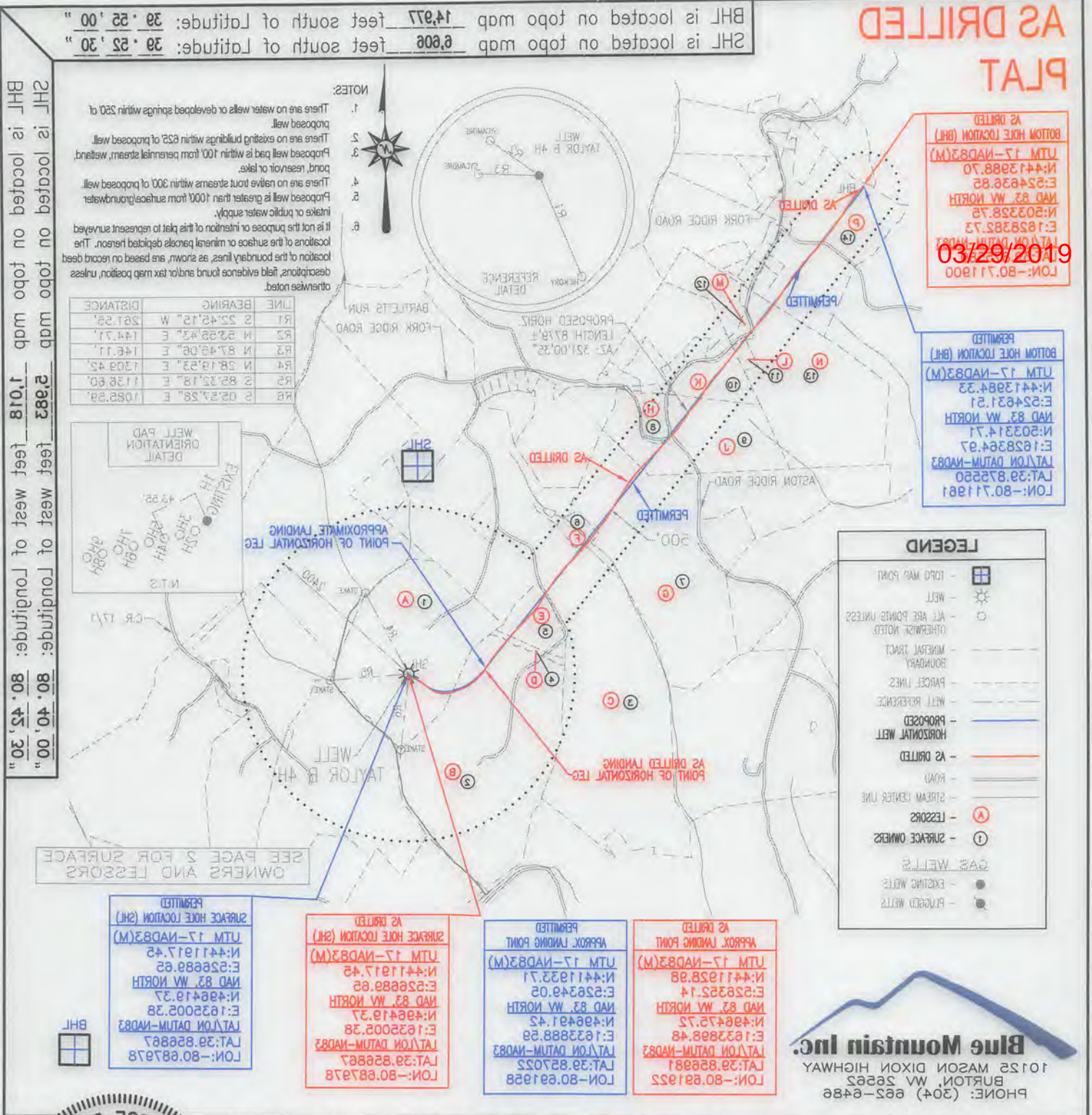
	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	ROBERT S. & BETTY J. BIRD
C	LEE R. & SHERRI L. TAYLOR
D	CARY & TRUDY WILSON
E	CARY & TRUDY WILSON
F	LEWIS A. JR. & CATHY ASTON
G	LEWIS A. JR. & CATHY ASTON
H	*WILLIAM ROGER STANDIFORD
J	LEWIS A. JR. & CATHY ASTON
K	GARY M. & ELLEN L. BONAR HEIRS OF W.E. ALLEN
L	JAMES R. & MARNIE K. BUCHANAN
M	CATHY KAY MCCRACKEN
N	JAMES R. & MARNIE K. BUCHANAN
P	JEFFREY L. RYAN

PERMITTED SURFACE HOLE LOCATION (SHL)	PERMITTED APPROX. LANDING POINT	PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4411917.45 E:526689.65 NAD 83, WV NORTH N:496419.37 E:1635005.38 LAT/LON DATUM-NAD83 LAT:39.856867 LON:-80.687978	UTM 17-NAD83(M) N:4411933.71 E:526349.05 NAD 83, WV NORTH N:496491.42 E:1633888.59 LAT/LON DATUM-NAD83 LAT:39.857022 LON-80.691958	UTM 17-NAD83(M) N:4413984.33 E:524631.51 NAD 83, WV NORTH N:503314.71 E:1628364.97 LAT/LON DATUM-NAD83 LAT:39.875550 LON:-80.711961

AS DRILLED SURFACE HOLE LOCATION (SHL)	AS DRILLED APPROX. LANDING POINT	AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4411917.45 E:526689.65 NAD 83, WV NORTH N:496419.37 E:1635005.38 LAT/LON DATUM-NAD83 LAT:39.856867 LON:-80.687978	UTM 17-NAD83(M) N:4411928.98 E:526352.14 NAD 83, WV NORTH N:496475.72 E:1633898.48 LAT/LON DATUM-NAD83 LAT:39.856981 LON:-80.691922	UTM 17-NAD83(M) N:4413988.70 E:524636.85 NAD 83, WV NORTH N:503328.75 E:1628382.73 LAT/LON DATUM-NAD83 LAT:39.875589 LON:-80.711900

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

JANUARY 08, 2018



**Blue Mountain Inc.**  
 1025 MASON DIXON HIGHWAY  
 BURTON, WV 26522  
 PHONE: (204) 682-6486

**FILE #:** TAYLOR B 4H-AS DRILLED  
**DRAWING #:** TAYLOR B 4H-AS DRILLED  
**SCALE:** 1" = 2000'  
**MINIMUM DEGREE OF ACCURACY:** 1/2500  
**PROVEN SOURCE OF ELEVATION:** U.S.G.S. MONUMENT THOMAS 14881  
**R.P.E.:** L.I.S.: P.S. No. 2000  
**Signed:** *George Davis*

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.

**PROFESSIONAL SURVEYOR**  
 STATE OF WEST VIRGINIA  
 LICENSED  
 No. 2000  
 GEORGE DAVIS  
 PLACE SEAL HERE

**DATE:** JANUARY 08, 2018  
**OPERATOR'S WELL #:** TAYLOR B 4H-AS DRILLED  
**API WELL #:** 47  
**STATE:** COUNTY PERMIT

**WELL TYPE:**  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

**WATERSHED:** MIDDLE GRAVE CREEK-GRAVE CREEK  
**ELEVATION:** 1225.00'

**COUNTY/DISTRICT:** MARSHALL \ CLAY  
**QUADRANGLE:** GLEN EASTON, W. 75'

**SURFACE OWNER:** WILLIAMS OHIO VALLEY MIDSTREAM LLC  
**ACREAGE:** 91.93±

**OIL & GAS ROYALTY OWNER:** LEE R. & SHERRI L. TAYLOR  
**ACREAGE:** 836.923±

**PERFORM NEW FORMATION**  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE   
**DRILL**  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

**TARGET FORMATION:** MARCELLUS  
**ESTIMATED DEPTH:** LVD: 6233± TMD: 16078.81±  
**(SPECIFY):** AS DRILLED

**WELL OPERATOR:** CHEVRON APPALACHIA, LLC  
**Address:** 700 CHERINGTON PARKWAY  
**City:** CHARLESTON **State:** WV **Zip Code:** 25301-3202

**DESIGNATED AGENT:** KENNETH E. TAWNEY  
**Address:** 500 LEE STREET, EAST SUITE 1600  
**City:** CHARLESTON **State:** WV **Zip Code:** 25301-3202

TAYLOR B  
4H  
PAGE 2 OF 2

03/29/2019

AS DRILLED PLAT

14	JEFFREY L. RYAN	4-9\25
13	MARNIE KAY BUCHANAN	4-9\11
12	ROBERT D. & NAOMI L. MILLER-LIFE	4-9\10
11	MARNIE KAY BUCHANAN	4-9\11.1
10	GARY M. BONAR ET UX	4-9\12
9	LEWIS A. ASTON, JR., ET UX	4-9\13
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6	LEWIS A. ASTON, JR., ET UX	4-9\23
5	CARY B. & TRUDY J. WILSON	4-10\19.1
4	CARY B. & TRUDY J. WILSON	4-10\19.2
3	LEE R. TAYLOR, ET UX	4-10\21
2	BRENDAN J. MCCARTHY & JOSEPH E. BOLJAD III	4-10\19
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10\20
	SURFACE OWNER	DIST-TM\PAR

P	JEFFREY L. RYAN
N	JAMES R. & MARNIE K. BUCHANAN
M	CATHY KAY MCCrackEN
L	JAMES R. & MARNIE K. BUCHANAN
	HEIRS OF W.E. ALLEN
K	GARY M. & ELLEN L. BONAR
J	LEWIS A. JR. & CATHY ASTON
H	*WILLIAM ROGER STANDIFORD
G	LEWIS A. JR. & CATHY ASTON
F	LEWIS A. JR. & CATHY ASTON
E	CARY & TRUDY WILSON
D	CARY & TRUDY WILSON
C	LEE R. & SHERRI L. TAYLOR
B	ROBERT S. & BETTY J. BIRD
A	LEE R. & SHERRI L. TAYLOR
	LESSOR

PERMITTED	SURFACE HOLE LOCATION (SH)
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441933.71
E:26689.85	E:26349.05
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:46491.42
E:163005.38	E:163388.59
LAT:39.85887	LAT:39.85022
LONG:-80.87378	LONG:-80.91928
PERMITTED	APPROX LANDING POINT
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441933.71
E:26689.85	E:26349.05
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:46491.42
E:163005.38	E:163388.59
LAT:39.85887	LAT:39.85022
LONG:-80.87378	LONG:-80.91928
PERMITTED	BOTTOM HOLE LOCATION (BH)
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441398.33
E:26689.85	E:224631.51
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:50314.71
E:163005.38	E:162836.97
LAT:39.85887	LAT:39.82550
LONG:-80.87378	LONG:-80.71981

AS DRILLED	SURFACE HOLE LOCATION (SH)
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441928.98
E:26689.85	E:26352.14
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:46475.72
E:163005.38	E:163398.48
LAT:39.85887	LAT:39.85681
LONG:-80.87378	LONG:-80.91922
AS DRILLED	APPROX LANDING POINT
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441928.98
E:26689.85	E:26352.14
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:46475.72
E:163005.38	E:163398.48
LAT:39.85887	LAT:39.85681
LONG:-80.87378	LONG:-80.91922
AS DRILLED	BOTTOM HOLE LOCATION (BH)
UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:441917.45	N:441398.70
E:26689.85	E:224639.85
NAD 83, W/ NORTH	NAD 83, W/ NORTH
N:46419.37	N:50325.72
E:163005.38	E:162837.73
LAT:39.85887	LAT:39.82558
LONG:-80.87378	LONG:-80.71900

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

JANUARY 08, 2018

