

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

RECEIVED
Office of Oil and Gas

APR 03 2019

WV Department of
Environmental Protection

API 47 - 051 - 01802 County Marshall District Clay
Quad Glen Easton Pad Name Taylor C Field/Pool Name _____
Farm name Williams Ohio Valley Midstream LLC Well Number Taylor C 3H
Operator (as registered with the OOG) Chevron Appalachia, LLC (49449935)
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 494616.90 Easting 1632330.86
Landing Point of Curve Northing 495608.63 Easting 1632381.75
Bottom Hole Northing 502696.96 Easting 1626933.83

Elevation (ft) 1257' 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 controls

Date permit issued 3/31/2015 Date drilling commenced 8/19/2015 Date drilling ceased 2/14/2018
Date completion activities began 9/12/18 Date completion activities ceased 3/27/19
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 732' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2279' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 800' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed

Reviewed by:
[Signature]
5/28/19

API 47- 051 - 01802 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 3H

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"	78'	New	X-52 / 78.70		Y
Surface	17 1/2"	13 3/8"	543'	New	J-55 / 54.50		Y
Coal	12 1/4"	9 5/8"	2211'	New	J-55 / 40		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	16034'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Bulk Cement	Bulk Cement				Surface	8
Surface	Class A	438	15.60	1.20	525	Surface	8
Coal	Class A	746'	15.60	1.19	887	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class H	Lead: 1373 Tail: 2055	Lead: 14.7 Tail: 15.2	Lead: 1.14 Tail: 15.2	Lead: 1565 Tail: 2363	Surface	8
Tubing							

Drillers TD (ft) 16054' Loggers TD (ft) 16054'
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5155'

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 There is a bow spring centralizer every two joints on the water and intermediate strings. The verticle production has a bow spring centralizer every other joint over coupling. In the curve and lateral there is solid composite, one per joint of casing to KOP.

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 - 01802 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 3H

PERFORATION 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)
		SEE	ATTACHED					

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Please insert additional pages as applicable.

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API 47- 051 - 01802 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 3H

PRODUCING FORMATION(S)	DEPTHS	
	DEPTH	DEPTH
Marcellus	6526' TVD	6892' 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 ₂ 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
 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 RECEIVED
 Signature [Signature] Title Regulatory Compliance Team Lead Date 3/29/19 Office of Oil and Gas
 APR 03 2019

API: 47-051-01802	Farm Name: Williams Ohio Valley Midstream LLC	Well Number:
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	10/23/18	15213	15053	47	Marcellus
2	10/24/18	15013	14853	47	Marcellus
3	10/24/18	147813	14653	47	Marcellus
4	10/25/18	14613	14453	47	Marcellus
5	10/26/18	14413	14253	47	Marcellus
6	10/26/18	14213	14053	47	Marcellus
7	10/27/18	14013	13853	47	Marcellus
8	10/27/18	13813	13653	47	Marcellus
9	10/28/18	13613	13453	47	Marcellus
10	10/28/18	13413	13253	47	Marcellus
11	10/29/18	13213	13053	47	Marcellus
12	10/31/18	13013	12853	47	Marcellus
13	10/31/18	12813	12653	47	Marcellus
14	11/1/18	12613	12453	47	Marcellus
15	11/1/18	12413	12253	47	Marcellus
16	11/2/18	12213	12053	47	Marcellus
17	11/2/18	12013	11853	47	Marcellus
18	11/3/18	11813	11653	47	Marcellus
19	11/3/18	11613	11453	47	Marcellus
20	11/4/18	11413	11253	47	Marcellus
21	11/4/18	11213	11053	47	Marcellus
22	11/5/18	11013	10853	47	Marcellus
23	11/5/18	10813	10653	47	Marcellus
24	11/5/18	10613	10453	47	Marcellus
25	11/6/18	10413	10253	47	Marcellus
26	11/6/18	10213	10053	47	Marcellus
27	11/7/18	10013	9853	47	Marcellus
28	11/7/18	9813	9653	47	Marcellus
29	11/8/18	9613	9453	47	Marcellus
30	11/8/18	9413	8253	47	Marcellus
31	11/9/18	9213	9053	47	Marcellus
32	11/9/18	9013	8853	47	Marcellus
33	11/9/18	8813	8653	47	Marcellus
34	11/10/18	8613	8453	47	Marcellus
35	11/10/18	8413	8253	47	Marcellus
36	11/11/18	8213	8053	47	Marcellus
37	11/12/18	8013	7853	47	Marcellus
38	11/13/18	7813	7653	47	Marcellus
39	11/13/18	7613	7453	47	Marcellus
40	11/14/18	7413	7253	47	Marcellus
41	11/14/18	7213	7053	47	Marcellus

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

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API: 47-051-01802	Well Name: Williams Ohio Valley Midstream LLC	Well Number:
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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	10/23/18	85.5	8778	n/a	3669	400949	9727	n/a
2	10/24/18	88.1	8997	5600	4594	400341	9695	n/a
3	10/24/18	90.8	8434	6030	4483	398725	10200	n/a
4	10/25/18	93	9110	6007	4737	400443	9641	n/a
5	10/26/18	97.3	8873	5586	4848	401366	9629	n/a
6	10/26/18	99.7	8727	5785	4593	401435	9672	n/a
7	10/27/18	100	8532	6318	4755	400663	9585	n/a
8	10/27/18	100.4	8350	5543	4851	401144	9641	n/a
9	10/28/18	99.7	8399	5731	4841	402658	9568	n/a
10	10/28/18	100.1	8585	6507	4744	368680	10244	n/a
11	10/29/18	94.3	8968	6159	4734	400688	9625	n/a
12	10/31/18	100	8447	6303	4421	402709	9661	n/a
13	10/31/18	98.9	8281	6565	4735	400662	9461	n/a
14	11/1/18	99.9	8446	6242	4501	401024	9557	n/a
15	11/1/18	100.5	8375	6245	4682	401306	9642	n/a
16	11/2/18	98.3	8078	6708	4551	400068	9313	n/a
17	11/2/18	100.4	8482	6083	4545	397978	9810	n/a
18	11/3/18	100.1	8106	5927	4772	398742	9420	n/a
19	11/3/18	99.4	8670	6948	4567	400617	9516	n/a
20	11/4/18	100.4	8328	5743	4949	400158	9480	n/a
21	11/4/18	99.9	8610	5951	4583	400266	9461	n/a
22	11/5/18	100.6	8340	6475	4923	400179	9393	n/a
23	11/5/18	99.2	8281	5835	4792	400453	10292	n/a
24	11/5/18	100.4	8436	5719	4860	400363	9433	n/a
25	11/6/18	100.2	7885	6350	4855	400116	9304	n/a
26	11/6/18	99.6	8538	6116	4997	399134	9323	n/a
27	11/7/18	99.7	8280	5759	5038	400361	9378	n/a
28	11/7/18	100.4	8086	6219	4768	399939	9373	n/a
29	11/8/18	100	7839	6163	5006	400748	9319	n/a
30	11/8/18	99.9	7774	5935	4820	400799	9254	n/a
31	11/9/18	100	7852	n/a	4765	400729	9236	n/a
32	11/9/18	100.3	7724	6244	4848	400860	9252	n/a
33	11/9/18	99.7	7551	6360	4826	400086	9248	n/a
34	11/10/18	99.4	7774	6428	4786	400500	9193	n/a
35	11/10/18	100.1	7501	6153	4396	401089	9558	n/a
36	11/11/18	99.2	7414	6271	4837	401504	8996	n/a
37	11/12/18	99.7	7674	7707	4749	401069	9328	n/a
38	11/13/18	100	7347	5537	4770	401958	9201	n/a
39	11/13/18	100.1	7667	6689	4676	400800	9189	n/a
40	11/14/18	100.3	7414	6541	4697	400732	9312	n/a
41	11/14/18	100.3	8198	6249	4854	399986	9288	n/a

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API: 47-051-01802	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 3H
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Taylor 3H				
Formation	TVD	Base	MD	MD Base
Dunkard	0	475	0	475
Waynesburg/Monongahela	475	806	475	806
Pittsburgh Coal	800	806	800	806
Conemaugh	806	1289	806	1289
Salt Sands	1499	1739	1499	1739
Mauch Chunk	1739	1846	1739	1846
Big Lime	1846	1934	1846	1934
Burgoon	1934	2154	1934	2154
Squaw	2154	2279	2154	2279
Weir	2279	2479	2279	2479
Berea	2483	2499	2493	2509
Gordon	2729	2809	2739	2819
Upper Bayard	3082	3114	3092	3124
Rhinestreet	5889	6186	5899	6196
Sycamore	6186	6314	6196	6462
MDLX	6314	6341	6462	6502
PYAN	6341	6370	6502	6546
BRKT	6370	6397	6546	6590
BRKT A	6397	6411	6590	6615
TLLY	6411	6444	6615	6677
S5	6444	6526	6677	6891
S3	6526	6541	6891	6964
STFD*	6541	6543	6964	6976
S2.B	6543	6550	6976	7024
S2.A	6550		7024	

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API: 47-051-01802	Farm Name: Williams Ohio Valley Midstream	Well Number: Taylor C 3H
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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: 47-051-01802	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 3H
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CEMENTING CONTRACTORS		
Name Baker Hughes	Name BJ Services	Name
Address 5373 West Alabama, Suite 300	Address 3415 Mellennium 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:	10/23/2018
Job End Date:	11/14/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01802-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 3H
Latitude:	39.85182000
Longitude:	-80.69741900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,531
Total Base Water Volume (gal):	16,355,556
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	88.22888	None
Sand	JPP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	10.58564	None
HCL Acid (7.5%)	JPP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.07919	None
Unislick ST50	JPP	Friction reducer	Petroleum distillates, hydrotreated light Ammonium acetate	54742-47-8	30.00000	0.02225	None
			Alcohols, ethoxylated	531-61-8	13.00000	0.00978	None
			Alcohols, ethoxylated	58439-50-9	5.00000	0.00376	None
			Alcohols, ethoxylated	58002-97-1	5.00000	0.00376	None
			Alcohols, ethoxylated	58551-12-2	5.00000	0.00376	None
K-BAC 1020	JPP	Biocide	Polyethylene glycol	25322-68-3	50.00000	0.00548	None
			Water	7732-18-5	30.00000	0.00329	None
			2,2-Dibromo-3-nitriopropanamide	10222-01-2	21.00000	0.00230	None



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Submitted 12/11/18

Iron Control A	Upp	Iron Control Agent	Ethylene Glycol	107-21-1	30.00000	0.00546	None
Scale Inhibitor E	Upp	Scale Inhibitor	Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00277	None
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00069	None
Uninh G	Upp	Acid Inhibitor	DETA phosphonate	15827-60-8	5.00000	0.00069	None
			Buyl diglycol	112-34-5	75.00000	0.00062	None
			Alcohol, C10-16, ethoxylated	38002-97-1	50.00000	0.00041	None
			Methanol	37-56-1	5.00000	0.00004	None
			Formaldehyde	50-00-0	1.00000	0.00001	None
			Thiourea	32-56-6	1.00000	0.00001	None
Ingredients shown above are subject to 29 CFR 1910.1200(f) 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	531-61-8	13.00000	0.00978	
			Polyethylene glycol	25322-68-3	50.00000	0.00548	
			Alcohol, ethoxylated	38439-50-9	5.00000	0.00376	
			Alcohol, ethoxylated	38551-12-2	5.00000	0.00376	
			Alcohol, ethoxylated	38002-97-1	5.00000	0.00376	
			Water	7732-18-5	30.00000	0.00329	
			DETA phosphonate	15827-60-8	5.00000	0.00069	
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00069	
			Alcohol, C10-16, ethoxylated	38002-97-1	50.00000	0.00041	
			Methanol	37-56-1	5.00000	0.00004	
			Formaldehyde	50-00-0	1.00000	0.00001	
			Thiourea	32-56-6	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%

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(f) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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 Environmental Protection



Jackie M. Scholar
Regulatory Reporting Coordinator

March 28, 2019

CERTIFIED MAIL: 7016 0340 0000 4903 6157

WV DEP
Office of Oil and Gas
601 – 57th Street
Charleston, WV 25304

RECEIVED
Office of Oil and Gas
APR 3 2019
WV Department of
Environmental Protection

RE: Well Operator's Report of Well Work WR-35
Taylor C 3H

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 C 3H, (API 47-051-01802)**.

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

Sincerely,
Chevron Appalachia, LLC

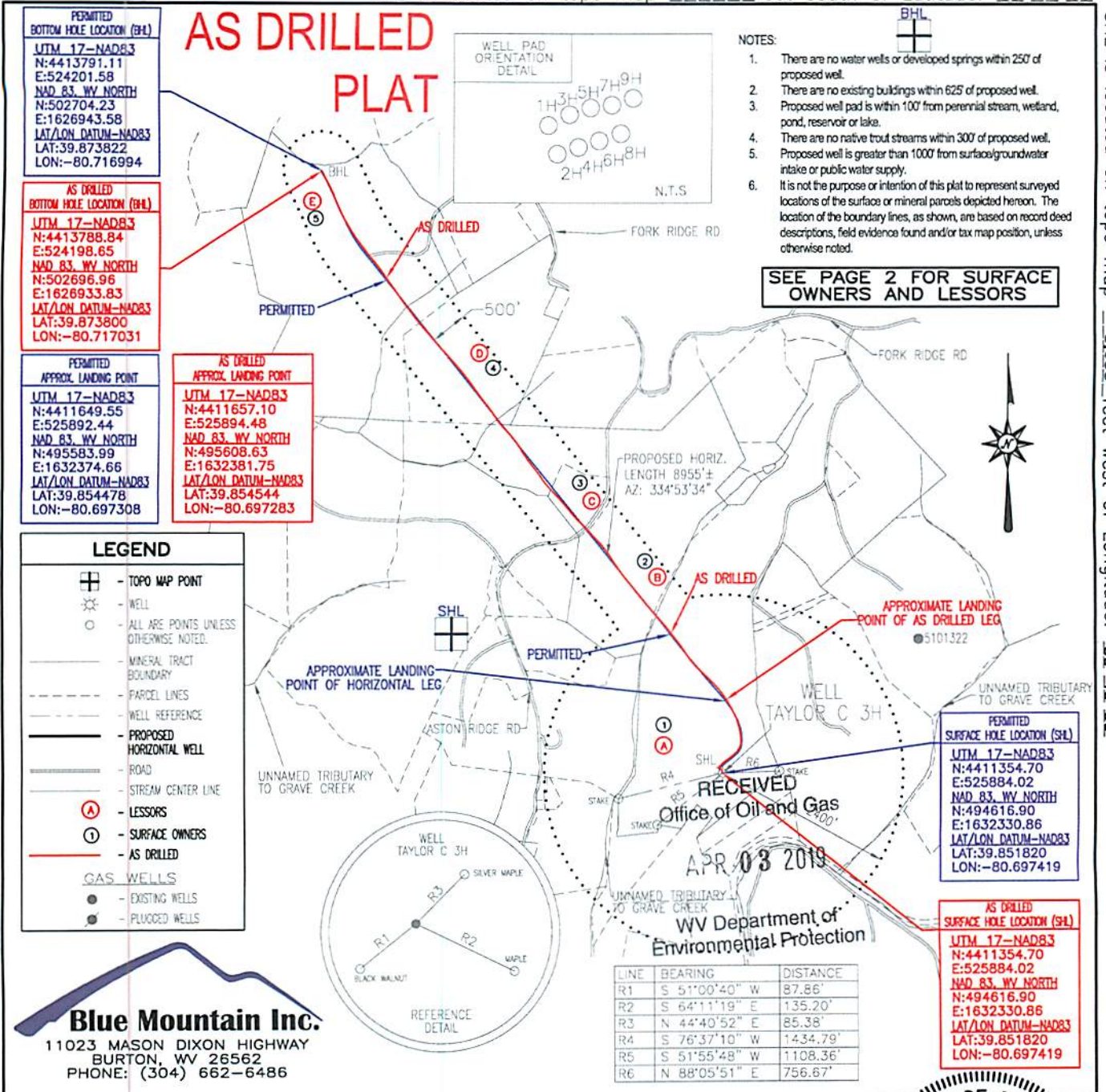
Jackie M. Scholar

Enclosures

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BHL is located on topo map 427 feet south of Latitude: 39°52'30"
 SHL is located on topo map 8,441 feet south of Latitude: 39°52'30"

BHL is located on topo map 2,441 feet west of Longitude: 80°42'30"
 SHL is located on topo map 8,633 feet west of Longitude: 80°40'00"



Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: TAYLOR C 3H-AS DRILLED
 DRAWING #: TAYLOR C 3H-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

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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

DATE: MARCH 13, 2018
 OPERATOR'S WELL #: TAYLOR C 3H-AS DRILLED
 API WELL #: 47 51 01802
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1257.00'
 COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'
 SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 265.439±
 OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 643.246±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,465.23' ± TMD 16,102.55' ±
 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 C

3H

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AS DRILLED

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	LEWIS A. ASTON JR. ET UX	4-10/6
3	GEORGE K. HOWARD ET UX	4-10/6.1
4	MARNIE KAY BUCHANAN EST	4-9/11
5	THOMAS E. HICKS	4-8/37

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	LEWIS A. ASTON JR. & CATHY ASTON
C	LEWIS A. ASTON JR. & CATHY ASTON
D	JAMES & MARNIE BUCHANAN
E	CHRISTA D. HICKS & LESLIE M. HICKS

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83 N:4411354.70 E:525884.02 NAD 83, WV NORTH N:494616.90 E:1632330.86 LAT/LON DATUM-NAD83 LAT:39.851820 LON:-80.697419

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83 N:4411649.55 E:525892.44 NAD 83, WV NORTH N:495583.99 E:1632374.66 LAT/LON DATUM-NAD83 LAT:39.854478 LON:-80.697308

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413791.11 E:524201.58 NAD 83, WV NORTH N:502704.23 E:1626943.58 LAT/LON DATUM-NAD83 LAT:39.873822 LON:-80.716994

AS DRILLED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83 N:4411354.70 E:525884.02 NAD 83, WV NORTH N:494616.90 E:1632330.86 LAT/LON DATUM-NAD83 LAT:39.851820 LON:-80.697419

AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83 N:4411657.10 E:525894.48 NAD 83, WV NORTH N:495608.63 E:1632381.75 LAT/LON DATUM-NAD83 LAT:39.854544 LON:-80.697283

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413788.84 E:524198.65 NAD 83, WV NORTH N:502696.96 E:1626933.83 LAT/LON DATUM-NAD83 LAT:39.873800 LON:-80.717031

RECEIVED
Office of Oil and Gas

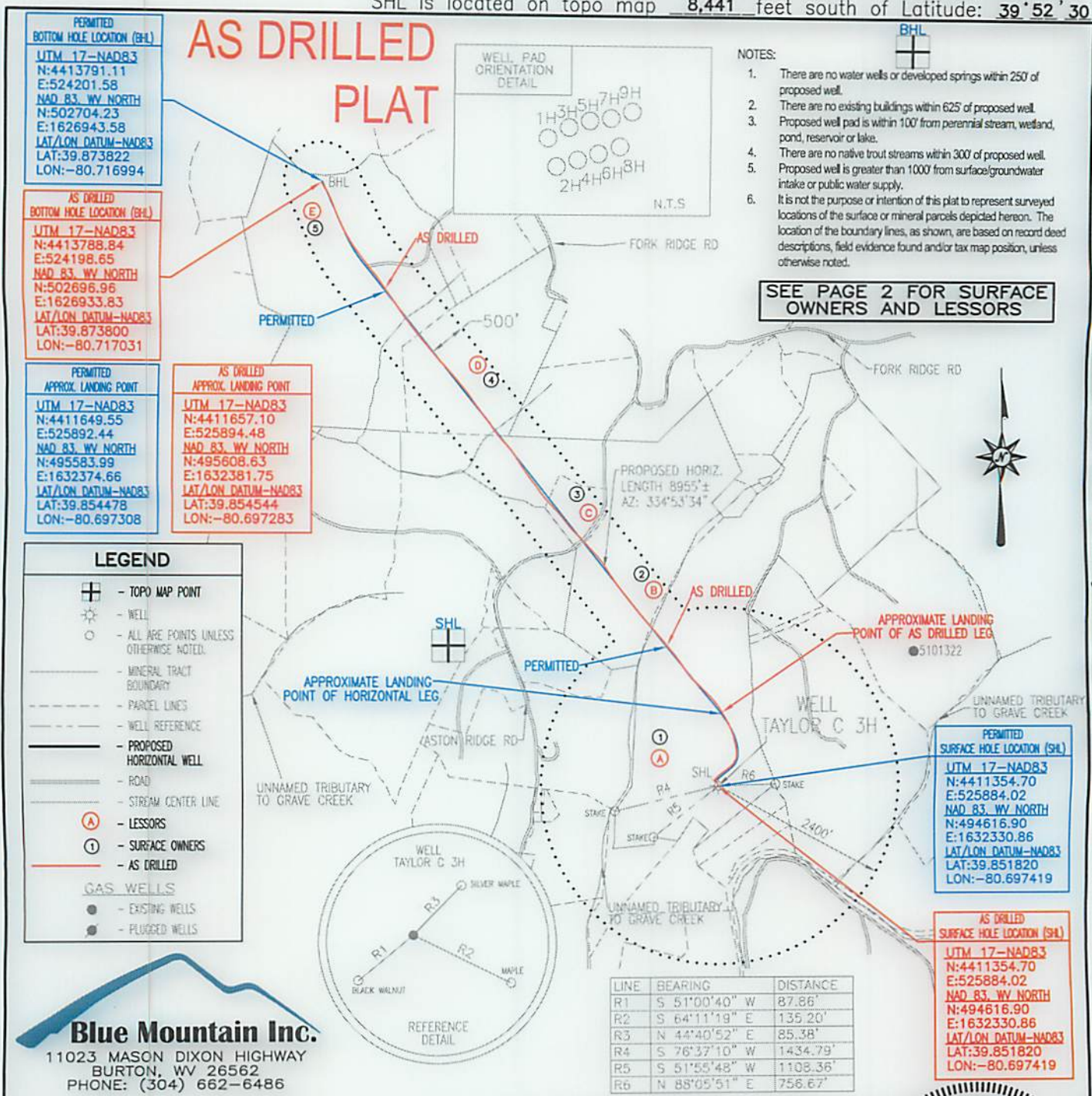
APR 03 2019

WV Department of
Environmental Protection

MARCH 13, 2018

BHL is located on topo map 427 feet south of Latitude: 39°52'30"
 SHL is located on topo map 8,441 feet south of Latitude: 39°52'30"

BHL is located on topo map 2,441 feet west of Longitude: 80°42'30"
 SHL is located on topo map 8,633 feet west of Longitude: 80°40'00"



Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: TAYLOR C 3H-AS DRILLED
 DRAWING #: TAYLOR C 3H-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 A. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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

DATE: MARCH 13, 2018
 OPERATOR'S WELL #: TAYLOR C 3H-AS DRILLED
 API WELL #: 47 51 01802
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1257.00'
 COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'
 SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 265.439±
 OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 643.246±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,465.23'± TMD 16,102.55'±
 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

City CORAOPOLIS State PA Zip Code 15108
 WELL OPERATOR CHEVRON APPALACHIA, LLC
 Address 700 CHERINGTON PARKWAY
 500 LEE STREET, EAST SUITE 1600
 DESIGNATED AGENT KENNETH E. TAWNEY

CITY CHARLESTON State WV Zip Code 25301-3205
 ADDRESS 500 LEE STREET, EAST SUITE 1600
 DESIGNATED AGENT KENNETH E. TAWNEY

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TMD 16,105.25' ±
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS DRILLED
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 643.246±
 SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 268.43±
 COUNTY/DISTRICT: MARSHALL \ CLAY QUADRANGLE: GLEN EASTON, W. 75'
 WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1257.00'

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

CHARLESTON, WV 25304
 601 27TH STREET
 OFFICE OF OIL & GAS
 WADEP
 UNITED STATES TOPOGRAPHIC MAPS
 (+) DENOTES LOCATION OF WELL ON

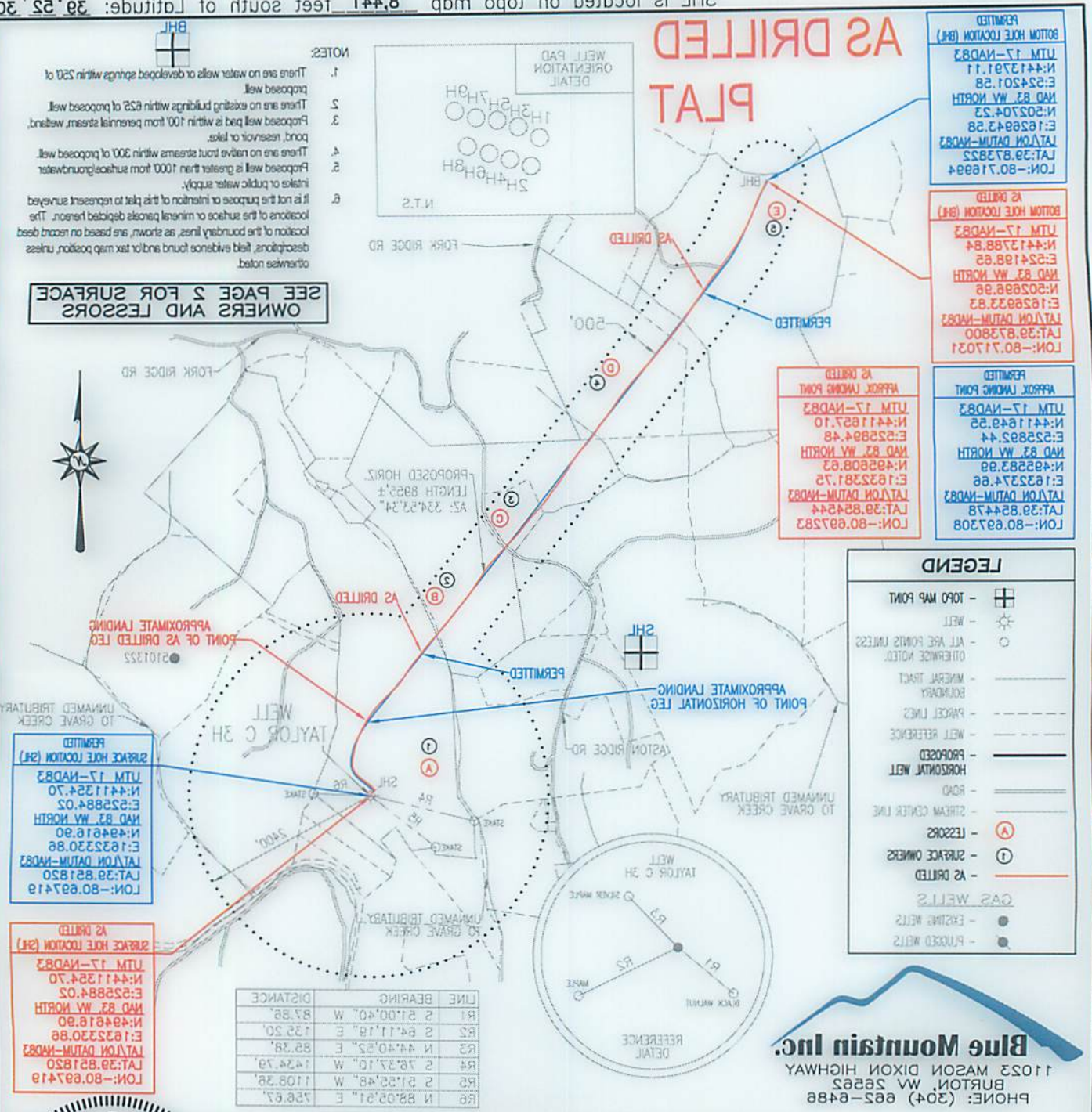
OF ELEVATION: THOMAS 1498.81'
 PROVEN SOURCE: U.S.G.S. MONUMENT
 OF ACCURACY: 1/2500
 MINIMUM DEGREE
 SCALE: 1" = 2000'
 DRAWING #: TAYLOR C 3H-AS DRILLED
 FILE #: TAYLOR C 3H-AS DRILLED

R.P.E.: _____ L.L.S.: P.S. No. 2000
 Signed: *George Davis*
 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY
 BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY
 PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
 I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS

Blue Mountain Inc.
 1103 MASON DIXON HIGHWAY
 BURTON, WV 25622
 PHONE: (304) 682-6486

LEGEND

- TOPO MAP POINT
- WELL
- ALL WELLS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE TO GRAVE CREEK
- LESSORS
- SURFACE OWNERS
- AS DRILLED
- GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS



BHL is located on topo map 8'441 feet west of Longitude: 80° 43' 30" BHL is located on topo map 30' 52' 30" feet south of Latitude: 39' 52' 30"

TAYLOR C

3H

PAGE 2 OF 2

AS DRILLED

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	LEWIS A. ASTON JR. ET UX	4-10/6
3	GEORGE K. HOWARD ET UX	4-10/6.1
4	MARNIE KAY BUCHANAN EST	4-9/11
5	THOMAS E. HICKS	4-8/37

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	LEWIS A. ASTON JR. & CATHY ASTON
C	LEWIS A. ASTON JR. & CATHY ASTON
D	JAMES & MARNIE BUCHANAN
E	CHRISTA D. HICKS & LESLIE M. HICKS

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83 N:4411354.70 E:525884.02 NAD 83, WY NORTH N:494616.90 E:1632330.86 LAT/LON DATUM-NAD83 LAT:39.851820 LON:-80.697419

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83 N:4411649.55 E:525892.44 NAD 83, WY NORTH N:495583.99 E:1632374.66 LAT/LON DATUM-NAD83 LAT:39.854478 LON:-80.697308

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413791.11 E:524201.58 NAD 83, WY NORTH N:502704.23 E:1626943.58 LAT/LON DATUM-NAD83 LAT:39.873822 LON:-80.716994

AS DRILLED SURFACE HOLE LOCATION (SHL)
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AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83 N:4411657.10 E:525894.48 NAD 83, WY NORTH N:495608.63 E:1632381.75 LAT/LON DATUM-NAD83 LAT:39.854544 LON:-80.697283

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413788.84 E:524198.65 NAD 83, WY NORTH N:502696.96 E:1626933.83 LAT/LON DATUM-NAD83 LAT:39.873800 LON:-80.717031

MARCH 13, 2018

AS DRILLED
PAGE 2 OF 2
3H
TAYLOR C

5	THOMAS E. HICKS	4-8\37
4	MARNIE KAY BUCHANAN EST	4-9\11
3	GEORGE K. HOWARD ET UX	4-10\6.1
2	LEWIS A. ASTON JR. ET UX	4-10\6
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10\21
	SURFACE OWNER	DIST-TM\PAR

E	CHRISTA D. HICKS & LESLIE M. HICKS
D	JAMES & MARNIE BUCHANAN
C	LEWIS A. ASTON JR. & CATHY ASTON
B	LEWIS A. ASTON JR. & CATHY ASTON
A	LEE R. & SHERRI L. TAYLOR
	LESSOR

PERMITTED
 SURFACE HOLE LOCATION (SH)
 UTM 17-NAD83
 N:4411324.70
 E:525884.02
 NAD 83 WY NORTH
 N:494818.90
 E:163230.88
 LAT:39.851820
 LON:-80.697419

PERMITTED
 APPROX LANDING POINT
 UTM 17-NAD83
 N:4411849.25
 E:525892.44
 NAD 83 WY NORTH
 N:495833.99
 E:163237.66
 LAT:39.854478
 LON:-80.697308

PERMITTED
 BOTTOM HOLE LOCATION (BH)
 UTM 17-NAD83
 N:4413791.11
 E:524201.28
 NAD 83 WY NORTH
 N:502704.23
 E:1628943.28
 LAT:39.873822
 LON:-80.71694

AS DRILLED
 SURFACE HOLE LOCATION (SH)
 UTM 17-NAD83
 N:4411324.70
 E:525884.02
 NAD 83 WY NORTH
 N:494818.90
 E:163230.88
 LAT:39.851820
 LON:-80.697419

AS DRILLED
 APPROX LANDING POINT
 UTM 17-NAD83
 N:4411857.10
 E:525894.48
 NAD 83 WY NORTH
 N:495808.93
 E:1632381.75
 LAT:39.854544
 LON:-80.697283

AS DRILLED
 BOTTOM HOLE LOCATION (BH)
 UTM 17-NAD83
 N:4413788.84
 E:524198.95
 NAD 83 WY NORTH
 N:502699.98
 E:1628933.83
 LAT:39.873800
 LON:-80.717031

AS DRILLED
 SURFACE HOLE LOCATION (SH)
 UTM 17-NAD83
 N:4411324.70
 E:525884.02
 NAD 83 WY NORTH
 N:494818.90
 E:163230.88
 LAT:39.851820
 LON:-80.697419

AS DRILLED
 APPROX LANDING POINT
 UTM 17-NAD83
 N:4411857.10
 E:525894.48
 NAD 83 WY NORTH
 N:495808.93
 E:1632381.75
 LAT:39.854544
 LON:-80.697283

AS DRILLED
 BOTTOM HOLE LOCATION (BH)
 UTM 17-NAD83
 N:4413788.84
 E:524198.95
 NAD 83 WY NORTH
 N:502699.98
 E:1628933.83
 LAT:39.873800
 LON:-80.717031

MARCH 13, 2018

API 47- 051 - 01802 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 3H

PRODUCING FORMATION(S)	DEPTHS			
		TVD		MD
Marcellus	6526'		6892'	

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2600 psi Bottom Hole 4600 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2760 mcfpd Oil 425 bpd NGL 149 bpd Water 264 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 ₂ S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	NAME TVD	TVD	MD	MD	
	0		0		
	SEE	ATTACHED			

Please insert additional pages as applicable.

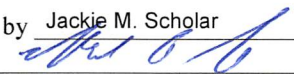
Drilling Contractor SEE ATTACHED
Address _____ City _____ State _____ Zip _____

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
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 8/6/19