

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

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APR 03 2019

WV Department of
Environmental Protection

API 47 - 051 - 01825 County Marshall District Clay
Quad Glen Easton Pad Name Taylor C Field/Pool Name E
Farm name Williams Ohio Valley Midstream LLC Well Number Taylor C 8H
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 494606.89 Easting 1632365.50
Landing Point of Curve Northing 494900.28 Easting 1633625.32
Bottom Hole Northing 487411.18 Easting 1639587.99

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 3/31/15 Date drilling commenced 8/29/15 Date drilling ceased 4/19/16
Date completion activities began 9/11/16 Date completion activities ceased 3/12/19
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:
James Underhill
5/25/19

API 47-051 01825 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 8H

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"	74'	New	X-52 / 78.70		Y
Surface	17 1/2"	13 3/8"	545'	New	J-55 / 54.50		Y
Coal	12 1/4"	9 5/8"	2220'	New	J-55 / 40		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	16838'	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	439'	15.6	1.20	532	Surface	8
Coal	Class A	773	15.6	1.19	919	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class H	3302	15.2	1.25	4127	Surface	8
Tubing							

Drillers TD (ft) 16875 Loggers TD (ft) 16875
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

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Kick off depth (ft) 5273'

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 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 _____

API: 47-051-01825

Farm Name: Williams Ohio Valley Midstream LLC

Well Number: Taylor C 8H

PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	11/24/16	16728	16278	10	Marcellus
2	11/17/18	16238	16078	47	Marcellus
3	11/17/18	16038	15878	47	Marcellus
4	11/17/18	15838	15678	47	Marcellus
5	11/18/18	15638	15478	47	Marcellus
6	11/18/18	15438	15278	47	Marcellus
7	11/18/18	15238	15078	47	Marcellus
8	11/19/18	15038	14878	47	Marcellus
9	11/19/18	14838	14678	47	Marcellus
10	11/19/18	14638	14478	47	Marcellus
11	11/20/18	14438	14278	47	Marcellus
12	11/20/18	14238	14078	47	Marcellus
13	11/20/18	14038	13878	47	Marcellus
14	11/21/18	13838	13678	47	Marcellus
15	11/21/18	13638	13478	47	Marcellus
16	11/21/18	13438	13278	47	Marcellus
17	11/22/18	13238	13078	47	Marcellus
18	11/22/18	13038	12878	47	Marcellus
19	11/22/18	12838	12678	47	Marcellus
20	11/23/18	12638	12478	47	Marcellus
21	11/24/18	12438	12278	47	Marcellus
22	11/24/18	12238	12078	47	Marcellus
23	11/24/18	12038	11878	47	Marcellus
24	11/24/18	11838	11678	47	Marcellus
25	11/25/18	11638	11478	47	Marcellus
26	11/25/18	11438	11278	47	Marcellus
27	11/25/18	11238	11078	47	Marcellus
28	11/26/18	11038	10878	47	Marcellus
29	11/26/18	10838	10678	47	Marcellus
30	11/26/18	10638	10478	47	Marcellus
31	11/27/18	10438	10278	47	Marcellus
32	11/27/18	10238	10078	47	Marcellus
33	11/27/18	10038	9878	47	Marcellus
34	11/28/18	9838	9678	47	Marcellus
35	11/28/18	9638	9478	47	Marcellus
36	11/29/18	9438	9278	47	Marcellus
37	11/29/18	9238	9078	47	Marcellus
38	11/29/18	9038	8878	47	Marcellus
39	11/30/18	8838	8678	47	Marcellus
40	11/30/18	8638	8478	47	Marcellus
41	11/30/18	8438	8278	47	Marcellus
42	12/1/18	8238	8078	47	Marcellus
43	12/1/18	8038	7878	47	Marcellus
44	12/1/18	7838	7678	47	Marcellus
45	12/2/18	7638	7478	47	Marcellus
46	12/2/18	7438	7278	47	Marcellus

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

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API: 47-051-01825	Well Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 8H
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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	11/24/16	95.2	8843	n/a	4932	997400	18910	n/a
2	11/17/18	85.1	8809	6688	5027	399029	12194	n/a
3	11/17/18	91.5	9062	6444	5107	401256	12308	n/a
4	11/17/18	94.9	8915	6907	5107	401168	12158	n/a
5	11/18/18	92.1	9003	7491	5101	401018	12081	n/a
6	11/18/18	93.2	9143	5965	5274	399720	12053	n/a
7	11/18/18	93.3	8684	6023	5040	401797	12102	n/a
8	11/19/18	92.4	8866	6652	5112	403169	11935	n/a
9	11/19/18	94.8	9182	6066	5115	401097	12110	n/a
10	11/19/18	98.3	8736	6458	5340	400207	11971	n/a
11	11/20/18	95.6	8985	5700	4988	399695	11948	n/a
12	11/20/18	92.3	9152	6067	5159	399932	11963	n/a
13	11/20/18	97.8	9088	6150	5126	402555	11865	n/a
14	11/21/18	99.5	9069	7100	5201	401961	12062	n/a
15	11/21/18	93.1	9046	5922	4964	400549	11976	n/a
16	11/21/18	94.3	8952	6230	5000	401234	11952	n/a
17	11/22/18	97.6	8734	6500	4989	399967	11812	n/a
18	11/22/18	91.5	8773	6124	4954	400378	11823	n/a
19	11/22/18	96.7	8946	6074	4880	401070	11999	n/a
20	11/23/18	97.6	8848	6331	4939	399943	11741	n/a
21	11/24/18	95	8909	6080	4900	401134	11864	n/a
22	11/24/18	93.6	8557	6063	4963	399831	11709	n/a
23	11/24/18	97.3	8778	6285	4749	399895	11707	n/a
24	11/24/18	99.4	8490	6186	5000	401387	11843	n/a
25	11/25/18	95.1	8187	6111	4924	400090	11819	n/a
26	11/25/18	97	8676	6660	4767	399782	11731	n/a
27	11/25/18	99.7	8559	6484	4934	400020	11768	n/a
28	11/26/18	100.4	8628	6484	4972	401766	11833	n/a
29	11/26/18	99.1	8749	6713	4687	399982	11544	n/a
30	11/26/18	100.3	8262	6297	4902	399504	11716	n/a
31	11/27/18	99.9	8249	6285	4813	400051	11730	n/a
32	11/27/18	98.8	8713	6194	4755	399414	11531	n/a
33	11/27/18	100.2	8297	5992	4943	401276	11908	n/a
34	11/28/18	100.8	8443	5745	5059	401049	11824	n/a
35	11/28/18	100.1	8472	5877	5008	400626	11872	n/a
36	11/29/18	99.8	8319	6028	4823	400039	11700	n/a
37	11/29/18	98	8506	5834	4812	400347	11543	n/a
38	11/29/18	100	8304	6439	5103	399323	11672	n/a
39	11/30/18	100.1	8239	5795	4977	400056	11679	n/a
40	11/30/18	99.5	8196	6289	5156	402622	11607	n/a
41	11/30/18	99.6	8263	6934	4942	399625	11606	n/a
42	12/1/18	99.8	8008	6242	5030	400672	11622	n/a
43	12/1/18	95.1	7765	6298	4986	401979	11629	n/a
44	12/1/18	99.8	7822	6127	5058	399725	11561	n/a
45	12/2/18	100.4	8006	6808	4998	400580	11535	n/a
46	12/2/18	100	7859	6614	4958	400706	11552	n/a

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API: 47-051-01825	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 8H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Nabors Drilling USA
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Oklahoma City, OK 73127

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API: 47-051-01825	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 8H
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Taylor 8H				
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	6333	6196	6745
MDLX	6333	6,418	6745	6842
BRKT A	6,418	6,431	6842	6870
TLLY	6,431	6,466	6870	6946
S5	6,466	6,540	6946	7162
S3	6,540	6,561	7162	7241
STFD*	6,561	6,562	7241	7245
S2.B	6,562	6,573	7245	7322
S2.A	6,573		7322	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/24/2016
Job End Date:	11/24/2016
State:	West Virginia
County:	Marshall
API Number:	47-051-01825-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 8H
Latitude:	39.85179400
Longitude:	-80.69729500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,695
Total Base Water Volume (gal):	794,220
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
Sand (Proppant)	Universal Well Services	Proppant		Listed Below			
Unislick ST50	Universal Well Services	Friction Reducer		Listed Below			



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Submitted 12/13/16

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Water	Chevron Appalachia, LLC	Carrier/Base Fluid						
Scale Hib A	Universal Well Services	Scale Inhibitor		Listed Below				
Unihib G	Universal Well Services	Acid Inhibitor		Listed Below				
Hydrochloric Acid (7.5%)	Universal Well Services	Acidizing		Listed Below				
K-Bac 1020	Universal Well Services	Biocide		Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.								
			Water	7732-18-5	100.00000	86.71709		
			Silica	14808-60-7	99.90000	13.03684		
			Petroleum Distillates, Hydro-treated Light	64742-47-8	30.00000	0.02955		
			Ammonium Acetate	631-61-8	13.00000	0.01280		
			Hydrogen Chloride	7647-01-0	7.50000	0.00779		
			Triethanolamine Tri (Phosphate Ester), Sodium Salt	68171-29-9	30.00000	0.00604		
			Ethylene Glycol	107-21-1	30.00000	0.00604		
			Polyethylene Glycol	25322-68-3	50.00000	0.00512		
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00492		
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00492		
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00492		

	Water	7732-18-5	30.00000	0.00307	
	2,2-Dibromo-3-nitriopropanamide	10222-01-2	21.00000	0.00215	
	Butyl diglycol	112-34-5	75.00000	0.00023	
	Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00015	
	Methanol	67-56-1	5.00000	0.00002	
	Formaldehyde	50-00-0	1.00000		
	Thiourea	62-56-6	1.00000		

* 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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/17/2018
Job End Date:	12/2/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01825-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 8H
Latitude:	39.85179000
Longitude:	-80.69729500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,658
Total Base Water Volume (gal):	22,350,636
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	90.28026	None
Sand	JPP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	8.71708	None
HCL Acid (7.5%)	JPP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.06515	None
Unislick ST50	JPP	Friction reducer	Petroleum distillates, hydrotreated light	54742-47-8	30.00000	0.02421	None
			Ammonium acetate	531-61-8	13.00000	0.01049	None
			Alcohols, ethoxylated	38551-12-2	5.00000	0.00403	None
			Alcohols, ethoxylated	38002-97-1	5.00000	0.00403	None
			Alcohols, ethoxylated	38439-50-9	5.00000	0.00403	None
K-BAC 1020	JPP	Biocide	Polyethylene glycol	25322-68-3	50.00000	0.00566	None
			Water	7732-18-5	30.00000	0.00339	None
			2,2-Dibromo-3-nitriopropanamide	10222-01-2	21.00000	0.00238	None

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Scale Inhibitor E	JPP	Scale Inhibitor							
			Ethylene Glycol	107-21-1	40.00000	0.005600	None		
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.002800	None		
			Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.000700	None		
			DETA phosphonate	15827-60-8	5.00000	0.000700	None		
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.000700	None		
Iron Control A	JPP	Iron Control Agent							
			Ethylene Glycol	107-21-1	30.00000	0.005500	None		
Unhib G	JPP	Acid inhibitor							
			Butyl diglycol	112-34-5	75.00000	0.000500	None		
			Alcohol, C10-16, ethoxylated	58002-97-1	50.00000	0.000300	None		
			Methanol	67-56-1	5.00000	0.000000	None		
			Thiourea	52-56-6	1.00000	0.000000	None		
			Formaldehyde	50-00-0	1.00000	0.000000	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	0.01040			
			Polyethylene glycol	25322-68-3	50.00000	0.00560			
			Ethylene Glycol	107-21-1	40.00000	0.00560			
			Alcohol, ethoxylated	68551-12-2	5.00000	0.00400			
			Alcohol, ethoxylated	68439-50-9	5.00000	0.00400			
			Alcohol, ethoxylated	68002-97-1	5.00000	0.00400			
			Water	7732-18-5	30.00000	0.00330			
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00070			
			Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00070			
			DETA phosphonate	15827-60-8	5.00000	0.00070			
			Alcohol, C10-16, ethoxylated	58002-97-1	50.00000	0.00030			
			Methanol	67-56-1	5.00000	0.00000			
			Formaldehyde	50-00-0	1.00000	0.00000			
			Thiourea	52-56-6	1.00000	0.00000			

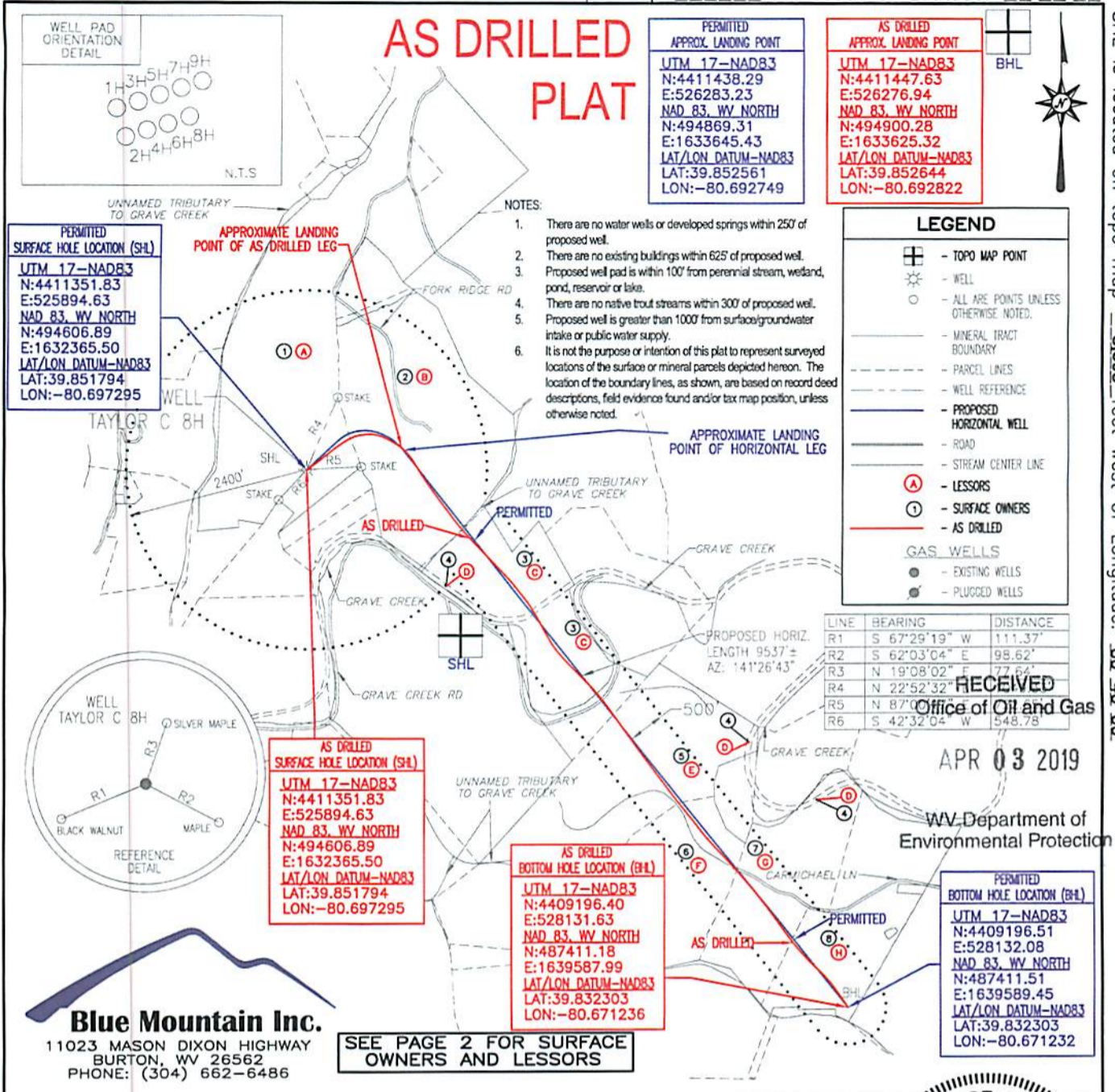
* Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%

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

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BHL is located on topo map 375 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 8,453 feet south of Latitude: 39° 52' 30"

BHL is located on topo map 1,282 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 8,595 feet west of Longitude: 80° 40' 00"



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

FILE #: TAYLOR C 8H-AS DRILLED
 DRAWING #: TAYLOR C 8H-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

(+) 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 8H-AS DRILLED
 API WELL #: 47 51 01825
 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: 777.784±

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: 6,555± TMD: 17,052.9±
 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

4H

PAGE 2 OF 2

AS DRILLED

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	ROBERT MORRIS SULLIVAN	4-10/22
3	DAVID SHAWN CONNER	4-10/16
4	MURRAY ENERGY	4-10/17
5	MURRAY ENERGY	4-10/23
6	CNX LAND RESOURCES INC.	9-2/3
7	GEORGE B. & MARY L. CROW	9-2/6
8	JAMES POMPEO	9-2/11

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	ROBERT MORRIS SULLIVAN
C	DAVID SHAWN CONNER
D	CONSOL
E	CONSOL
F	OKEY D. & JANINA A. BURTON
G	ROSS AVENUE MINERALS, 2012 LLC
	BELMONT ROYALTY AND MINERALS, 2012 LLC
H	FREDDIE C. & VIOLET L. WHITE

PERMITTED SURFACE HOLE LOCATION (SH)
UTM 17-NAD83 N:4411348.92 E:525885.96 NAD 83 WY NORTH N:494597.83 E:1632336.89 LAT/LON DATUM-NAD83 LAT:39.851768 LON:-80.697396

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83 N:4411195.79 E:525975.08 NAD 83 WY NORTH N:494090.43 E:1632620.96 LAT/LON DATUM-NAD83 LAT:39.850385 LON:-80.696360

PERMITTED BOTTOM HOLE LOCATION (BH)
UTM 17-NAD83 N:4409389.00 E:527458.07 NAD 83 WY NORTH N:488080.13 E:1637388.25 LAT/LON DATUM-NAD83 LAT:39.834060 LON:-80.679101

AS DRILLED SURFACE HOLE LOCATION (SH)
UTM 17-NAD83 N:4411348.92 E:525885.96 NAD 83 WY NORTH N:494597.83 E:1632336.89 LAT/LON DATUM-NAD83 LAT:39.851768 LON:-80.697396

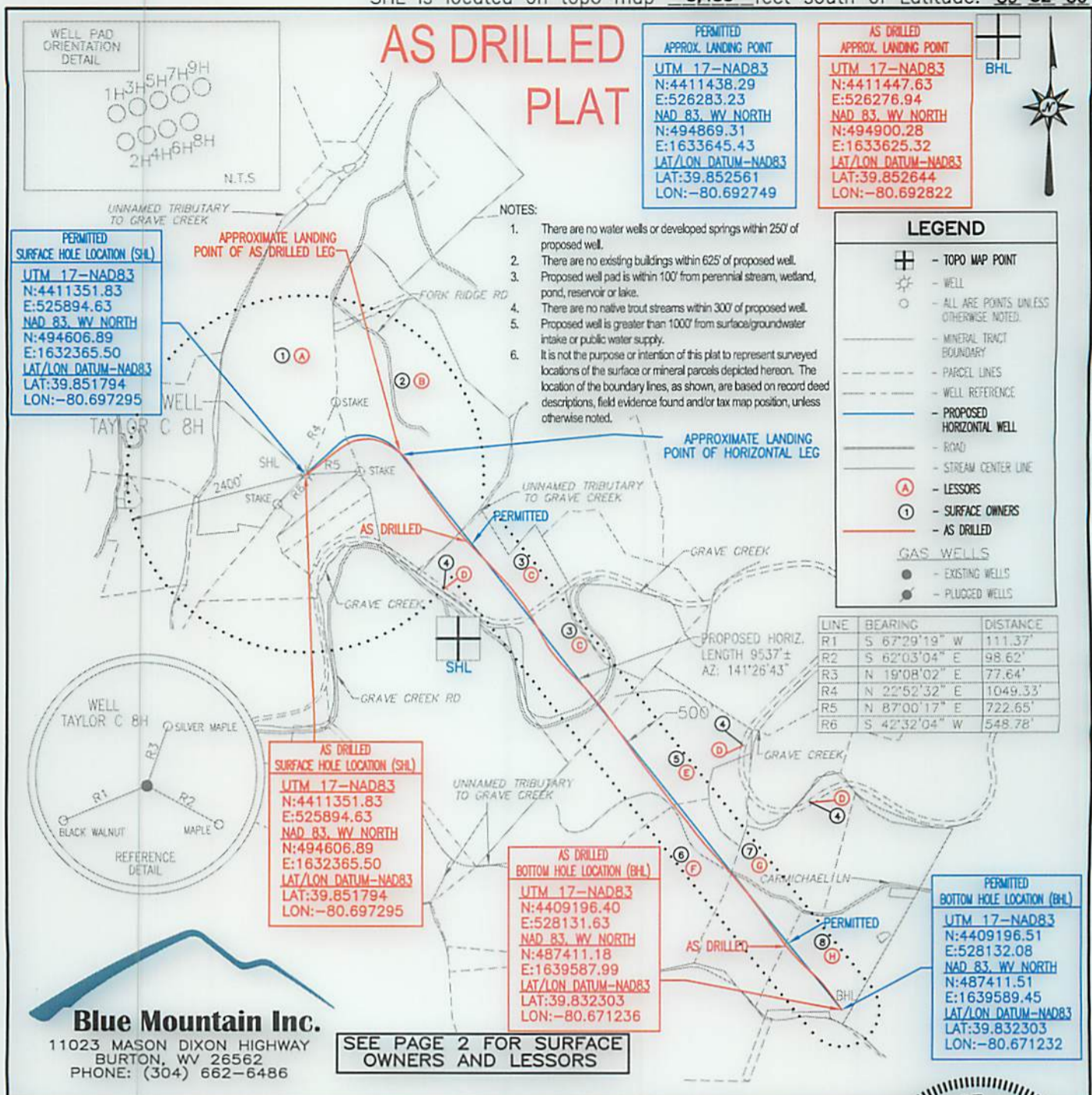
AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83 N:4411203.59 E:525971.06 NAD 83 WY NORTH N:494116.25 E:1632608.18 LAT/LON DATUM-NAD83 LAT:39.850456 LON:-80.696408

AS DRILLED BOTTOM HOLE LOCATION (BH)
UTM 17-NAD83 N:4409389.05 E:527457.99 NAD 83 WY NORTH N:488080.31 E:1637387.99 LAT/LON DATUM-NAD83 LAT:39.834061 LON:-80.679103

MARCH 13, 2018

BHL is located on topo map 375 feet south of Latitude: 39° 50' 00"
 SHL is located on topo map 8,453 feet south of Latitude: 39° 52' 30"

BHL is located on topo map 1,282 feet west of Longitude: 80° 40' 00"
 SHL is located on topo map 8,595 feet west of Longitude: 80° 40' 00"



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

FILE #: TAYLOR C 8H-AS DRILLED
 DRAWING #: TAYLOR C 8H-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

(+) 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 8H-AS DRILLED
 API WELL #: 47 51 01825
 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: 777.784±

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: 6,555± TMD: 17,052.9±
 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 City CHARLESTON State WV Zip Code 25301-3502

Address 700 CHERINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600

WELL OPERATOR CHEVRON APALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD: 6,252'± TMD: 17,025'±

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: 777.78±

SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 262.43±

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1257.00'

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

CHARLESTON, WV 25304 OFFICE OF OIL & GAS 601 27TH STREET

WVDEP UNITED STATES TOPOGRAPHIC MAPS (+) DENOTES LOCATION OF WELL ON

OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81

PROVEN SOURCE: U.S.G.S. MONUMENT THOMAS 1498.81

OF ACCURACY: 1 \ 2500

MINIMUM DEGREE: 1 \ 2500

SCALE: 1" = 2000'

DRAWING #: TAYLOR C 8H-AS DRILLED

FILE #: TAYLOR C 8H-AS DRILLED

R.P.E.: L.I.S.: P.S. No. 2000

Signed: *George Blair*

PLATE SEAL HERE

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

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

LINE	BEARING	DISTANCE
R1	S 87°39'19" W	111.37'
R2	S 67°03'04" E	98.62'
R3	N 19°08'02" E	77.64'
R4	N 32°52'32" E	104.33'
R5	N 87°00'17" E	73.25'
R6	S 45°32'04" W	248.75'

PROPOSED HORIZ. LENGTH 937.1 ±

AS: 141°28'42"

LEGEND

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

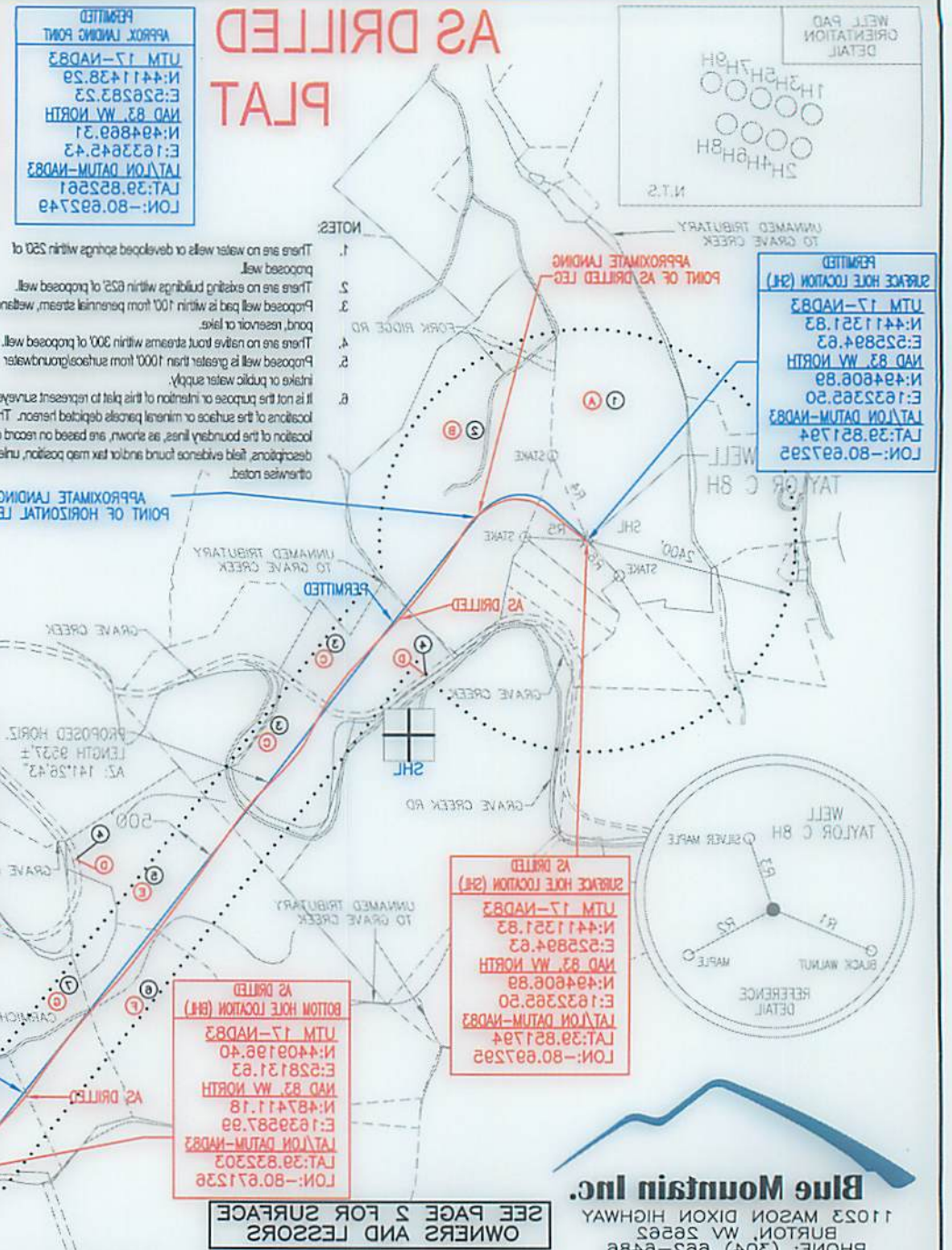
AS DRILLED

APPROX. LANDING POINT

UTM 17-NAD83
N: 4411351.83
E: 252884.83
NAD 83 W. NORTH
N: 494808.89
E: 1632382.50
LAT: 39.823203
LON: -80.627236

APPROX. LANDING POINT

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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 is within 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no active flood streams within 300' of proposed well.
- Proposed well is greater than 1000' from subglacial water table or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels delineated hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

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SHL is located on topo map 8,453 feet south of latitude: 39.52, 30

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BHL is located on topo map 375 feet south of latitude: 3

TAYLOR C

8H

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AS DRILLED

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	BRENDAN J. MCCARTHY & JOSEPH E. BOJALAD, III	4-10/19
3	PHILIP L. KUHN EST - LIFE	3-12/1
4	MURRAY ENERGY	3-12/28
5	GEORGE B. & MARY L. CROW	9-2/6
6	JAMES POMPEO	9-2/11
7	JAMES POMPEO	9-2/8
8	WILLIAM E. & AMANDA N. TOLAND	9-2/9

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	ROBERT S. BIRD & BETTY J. BIRD
C	HOWARD L. KUHN ET AL; HOWARD LEE KUHN ET AL
D	CNX GAS COMPANY, LLC
E	CHARLES R. KERNAN ET UX
F	FREDDIE C. & VIOLET L. WHITE
G	FREDDIE C. & VIOLET L. WHITE
H	FREDDIE C. & VIOLET L. WHITE ET AL

PERMITTED SURFACE HOLE LOCATION (SHL)	PERMITTED APPROX. LANDING POINT	PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4411351.83 E:525894.63 NAD 83, WV NORTH N:494606.89 E:1632365.50 LAT/LON DATUM-NAD83 LAT:39.851794 LON:-80.697295	UTM 17-NAD83 N:4411438.29 E:526283.23 NAD 83, WV NORTH N:494869.31 E:1633645.43 LAT/LON DATUM-NAD83 LAT:39.852561 LON:-80.692749	UTM 17-NAD83 N:4409196.51 E:528132.08 NAD 83, WV NORTH N:487411.51 E:1639589.45 LAT/LON DATUM-NAD83 LAT:39.832303 LON:-80.671232

AS DRILLED SURFACE HOLE LOCATION (SHL)	AS DRILLED APPROX. LANDING POINT	AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4411351.83 E:525894.63 NAD 83, WV NORTH N:494606.89 E:1632365.50 LAT/LON DATUM-NAD83 LAT:39.851794 LON:-80.697295	UTM 17-NAD83 N:4411447.63 E:526276.94 NAD 83, WV NORTH N:494900.28 E:1633625.32 LAT/LON DATUM-NAD83 LAT:39.852644 LON:-80.692822	UTM 17-NAD83 N:4409196.40 E:528131.63 NAD 83, WV NORTH N:487411.18 E:1639587.99 LAT/LON DATUM-NAD83 LAT:39.832303 LON:-80.671236

MARCH 13, 2018

TAYLOR C 8H PAGE 2 OF 2 AS DRILLED

8	WILLIAM E. & AMANDA N. TOLAND	9-29
7	JAMES POMPEO	9-28
6	JAMES POMPEO	9-27
5	GEORGE B. & MARY L. GROW	9-26
4	MURRAY ENERGY	3-12\28
3	PHILIP L. KUHN EST - LIFE	3-12\1
2	BRENDAN J. MCCARTHY & JOSEPH E. BOJALAD, III	4-10\19
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10\21
	SURFACE OWNER	DIST-TM\PAR

H	FREDDIE C. & VIOLET L. WHITE ET AL
G	FREDDIE C. & VIOLET L. WHITE
F	FREDDIE C. & VIOLET L. WHITE
E	CHARLES R. KERNAN ET UX
D	CIX GAS COMPANY, LLC
C	HOWARD L. KUHN ET AL; HOWARD LEE KUHN ET AL
B	ROBERT S. BIRD & BETTY J. BIRD
A	LEE R. & SHERRI L. TAYLOR
	LESSOR

SURFACE HOLE LOCATION (SH) UTM 17-NAD83 N:4411351.83 E:252884.63 MAD 83 W/ NORTH N:49488.89 E:183285.50 LAT:39.85294 LON:-80.89295	APPROX LANDING POINT UTM 17-NAD83 N:4411438.29 E:252883.23 MAD 83 W/ NORTH N:49488.21 E:183284.43 LAT:39.85281 LON:-80.89279	BOTTOM HOLE LOCATION (BH) UTM 17-NAD83 N:4409188.51 E:2528132.08 MAD 83 W/ NORTH N:487411.21 E:183288.45 LAT:39.83230 LON:-80.87122
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SURFACE HOLE LOCATION (SH) UTM 17-NAD83 N:4411351.83 E:252884.63 MAD 83 W/ NORTH N:49488.89 E:183285.50 LAT:39.85294 LON:-80.89295	APPROX LANDING POINT UTM 17-NAD83 N:4411447.63 E:252878.94 MAD 83 W/ NORTH N:49488.28 E:183285.32 LAT:39.85244 LON:-80.89282	BOTTOM HOLE LOCATION (BH) UTM 17-NAD83 N:4409188.40 E:2528131.63 MAD 83 W/ NORTH N:487411.18 E:183287.99 LAT:39.83230 LON:-80.87122
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MARCH 13, 2018