

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

API 47 - 051 - 01824 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 6H
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 494602.36 Easting 1632351.20
Landing Point of Curve Northing 494499.25 Easting 1633136.59
Bottom Hole Northing 487515.28 Easting 1638704.51

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 control

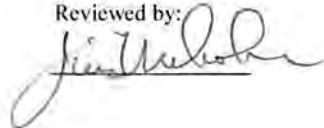
RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection

Date permit issued 3/31/15 Date drilling commenced 8/28/15 Date drilling ceased 4/10/16
Date completion activities began 9/11/16 Date completion activities ceased 3/15/19
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: 

WR-35
Rev. 8/23/13

API 47-051 - 01824 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 6H

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"	75'	New	X-52 / 78.70		Y
Surface	17 1/2"	13 3/8"	540'	New	J-55 / 54.50		Y
Coal	12 1/4"	9 5/8"	2222'	New	J-55 / 40		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	19527'	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	472	15.6	1.20	566	Surface	8
Coal	Class A	818	15.6	1.19	973	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class H	Lead:1396 Tail: 2035	Lead: 14.8 Tail: 15.2	Lead: 1.12 Tail: 1.15	Lead: 1563 Tail: 2340	Surface	8
Tubing							

Drillers TD (ft) 15941' Loggers TD (ft) 15941'
Deepest formation penetrated Marcellus Plug back to (ft) _____
Plug back procedure _____

Kick off depth (ft) 5328' _____

RECEIVED
Office of Oil and Gas

APR 9 2019

Check all wireline logs run caliper density deviated/directional induction neutron resistivity gamma ray temperature sonic
WV Department of Environmental Protection

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 _____

WR-35
Rev. 8/23/13

API 47- 051 - 01824 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 6H

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
Marcellus	6540'	6852'

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			

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
 Address _____ City _____ State _____ Zip _____
 Logging Company Stratagraph
 Address 116 Ellsworth Avenue City Marietta State OH Zip 45750
 Cementing Company Baker Hughes
 Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056
 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 4/1/19

API: 47-051-01824	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 6H
-------------------	---	--------------------------

PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	11/23/16	15821	15371	10	Marcellus
2	11/16/18	15331	15171	47	Marcellus
3	11/17/18	15131	14971	47	Marcellus
4	11/17/18	14931	14771	47	Marcellus
5	11/17/18	14731	14571	47	Marcellus
6	11/18/18	14531	14371	47	Marcellus
7	11/18/18	14331	14171	47	Marcellus
8	11/18/18	14131	13971	47	Marcellus
9	11/19/18	13931	13771	47	Marcellus
10	11/19/18	13731	13571	47	Marcellus
11	11/19/18	13531	13371	47	Marcellus
12	11/20/18	13331	13171	47	Marcellus
13	11/20/18	13131	12971	47	Marcellus
14	11/21/18	12931	12771	47	Marcellus
15	11/21/18	12731	12571	47	Marcellus
16	11/21/18	12531	12371	47	Marcellus
17	11/22/18	12331	12171	47	Marcellus
18	11/22/18	12131	11971	47	Marcellus
19	11/22/18	11931	11771	47	Marcellus
20	11/23/18	11731	11571	47	Marcellus
21	11/23/18	11531	11371	47	Marcellus
22	11/24/18	11331	11171	47	Marcellus
23	11/24/18	11131	10971	47	Marcellus
24	11/24/18	10931	10771	47	Marcellus
25	11/25/18	10731	10571	47	Marcellus
26	11/25/18	10531	10371	47	Marcellus
27	11/25/18	10331	10171	47	Marcellus
28	11/25/18	10131	9971	47	Marcellus
29	11/26/18	9931	9771	47	Marcellus
30	11/26/18	9731	9571	47	Marcellus
31	11/27/18	9531	9371	47	Marcellus
32	11/27/18	9331	9171	47	Marcellus
33	11/27/18	9131	8971	47	Marcellus
34	11/18/18	8931	8771	47	Marcellus
35	11/28/18	8731	8571	47	Marcellus
36	11/28/18	8531	8371	47	Marcellus
37	11/29/18	8331	8171	47	Marcellus
38	11/29/18	8131	7971	47	Marcellus
39	11/29/18	7931	7771	47	Marcellus
40	11/30/18	7731	7571	47	Marcellus
41	11/30/18	7531	7371	47	Marcellus
42	12/1/18	7331	7171	47	Marcellus
43	12/1/18	7131	6971	47	Marcellus

RECEIVED
Office of Oil and Gas

APR 9 2019

WV Department of
Environmental Protection

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

API: 47-051-01824	Well Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 6H
-------------------	---	--------------------------

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	11/23/16	90.5	8571	n/a	4791	1002894	20507	n/a
2	11/16/18	82.9	9037	5728	4593	400895	12101	n/a
3	11/17/18	91.5	8883	6562	4978	401515	12162	n/a
4	11/17/18	98.7	8948	5476	5013	400006	12261	n/a
5	11/17/18	97.5	8915	5937	5057	401085	12026	n/a
6	11/18/18	96.3	9102	5279	5204	399541	12378	n/a
7	11/18/18	99.4	9058	7030	5044	399725	11952	n/a
8	11/18/18	92.3	8427	6391	4884	403918	12063	n/a
9	11/19/18	94.8	8856	4560	4849	400477	12107	n/a
10	11/19/18	87.1	8854	5085	4700	400390	12026	n/a
11	11/19/18	93.6	9148	5919	4888	401552	11940	n/a
12	11/20/18	96.6	9053	6540	5039	400182	11975	n/a
13	11/20/18	86.3	8993	5447	4618	401441	11937	n/a
14	11/21/18	99.8	9713	6484	4960	401183	9512	n/a
15	11/21/18	94.4	8832	5989	4771	400696	11954	n/a
16	11/21/18	94	8819	6598	4720	401706	11557	n/a
17	11/22/18	97.5	8744	6717	4780	402254	11869	n/a
18	11/22/18	79.4	8678	6821	4694	399728	12972	n/a
19	11/22/18	89.4	8424	5881	4730	400297	11730	n/a
20	11/23/18	99.5	8723	6430	5100	399931	11738	n/a
21	11/23/18	95.8	8239	6774	4749	400163	11661	n/a
22	11/24/18	99.4	8474	6250	4670	400575	11862	n/a
23	11/24/18	97.9	8289	6561	4600	400248	11626	n/a
24	11/24/18	98.3	8452	6650	4650	401642	11774	n/a
25	11/25/18	97.4	8520	6838	4792	401189	11724	n/a
26	11/25/18	99.1	8487	6441	4796	400659	11740	n/a
27	11/25/18	99.1	8221	6775	4741	402302	11586	n/a
28	11/25/18	99.1	8556	6763	4762	401179	11760	n/a
29	11/26/18	98.9	8129	6920	4604	400352	11475	n/a
30	11/26/18	99.4	8162	7048	4623	419620	11671	n/a
31	11/27/18	100	8078	6309	4712	400902	11683	n/a
32	11/27/18	99.1	8213	6745	4460	400115	11449	n/a
33	11/27/18	99.1	8115	6074	4539	400070	11569	n/a
34	11/18/18	99.9	8135	6965	4559	401525	11778	n/a
35	11/28/18	99.1	8434	4867	4558	400006	11511	n/a
36	11/28/18	99.8	8277	6600	4816	402378	11664	n/a
37	11/29/18	100	7795	5794	4666	400528	11438	n/a
38	11/29/18	99.3	7650	6193	4525	400001	11517	n/a
39	11/29/18	99.9	8159	6760	4530	400030	11712	n/a
40	11/30/18	99.9	8003	6820	4558	400838	12476	n/a
41	11/30/18	100.1	7898	6391	4738	400127	12057	n/a
42	12/1/18	99.9	7752	6542	4649	400272	11532	n/a
43	12/1/18	99.6	7879	8049	4652	402261	11580	n/a

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of Environmental Protection

API: 47-051-01824	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 6H
-------------------	---	--------------------------

Taylor 6H (51-01824)				
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	6,329	6196	6461
MDLX	6,329	6,413	6,461	6586
BRKT A	6,413	6,428	6,586	6612
TLLY	6,428	6,462	6,612	6671
S5	6,462	6,540	6,671	6852
S3	6,540	6,560	6,852	6909
STFD*	6,560	6,562	6,909	6935
S2.B	6,562	6,570	6,935	6935
S2.A	6,570		6,935	

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection

API: 47-051-01824	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 6H
-------------------	---	--------------------------

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

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/16/2018
Job End Date:	12/1/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01824-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 6H
Latitude:	39.85178000
Longitude:	-80.69734600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,663
Total Base Water Volume (gal):	20,794,410
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical 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	90.22151	None
Sand	UFP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	8.75372	None
HCL Acid (7.5%)	UFP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.06662	None
Unislick ST50	UFP	Friction reducer	Petroleum distillates, hydroreated light Ammonium acetate	84742-47-8	30.00000	0.02409	None
			Alcohols, ethoxyiated	831-61-8	13.00000	0.01044	None
			Alcohols, ethoxyiated	88439-50-9	5.00000	0.00402	None
			Alcohols, ethoxyiated	88002-97-1	5.00000	0.00402	None
			Alcohols, ethoxyiated	88551-12-2	5.00000	0.00402	None
K-BAC 1020	UFP	Bioicide	Polyethylene glycol	25322-68-3	50.00000	0.00566	None
			Water	7732-18-5	30.00000	0.00340	None
			2,2-Dibromo-3-nitropropionamide	10222-01-2	21.00000	0.00239	None

RECEIVED
Office of Oil and Gas
APR 9 2019

WV Department of
Environmental Protection



Submitted 1/10/19

APR 9 2019
Department of Environmental Protection

Scale Inhibitor E	UPP	Scale Inhibitor							
			Ethylene Glycol	107-21-1	40.00000		0.00561	None	
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000		0.00281	None	
			DETA phosphonate	15827-60-8	5.00000		0.00070	None	
			Phosphino carboxylic acid polymer	71050-62-9	5.00000		0.00070	None	
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000		0.00070	None	
Iron Control A	UPP	Iron Control Agent							
Unitib G	UPP	Acid Inhibitor	Ethylene Glycol	107-21-1	30.00000		0.00560	None	
			Buyl diglycol	112-34-5	75.00000		0.00052	None	
			Alcohol, C10-16, ethoxylated	88002-97-1	50.00000		0.00035	None	
			Methanol	67-56-1	5.00000		0.00003	None	
			Thiourea	62-56-6	1.00000		0.00001	None	
			Formaldehyde	50-00-0	1.00000		0.00001	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	631-81-8	13.00000		0.01044		
			Polyethylene glycol	25322-68-3	50.00000		0.00566		
			Ethylene Glycol	107-21-1	40.00000		0.00561		
			Alcohol, ethoxylated	68439-50-9	5.00000		0.00402		
			Alcohol, ethoxylated	68002-97-1	5.00000		0.00402		
			Alcohol, ethoxylated	68551-12-2	5.00000		0.00402		
			Water	7732-18-5	30.00000		0.00340		
			DETA phosphonate	15827-60-8	5.00000		0.00070		
			Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000		0.00070		
			Phosphino carboxylic acid polymer	71050-62-9	5.00000		0.00070		
			Alcohol, C10-16, ethoxylated	68002-97-1	50.00000		0.00035		
			Methanol	67-56-1	5.00000		0.00003		
			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%

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)

05/03/2019

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/23/2016
Job End Date:	11/23/2016
State:	West Virginia
County:	Marshall
API Number:	47-051-01824-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 6H
Latitude:	39.85178100
Longitude:	-80.69734600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,683
Total Base Water Volume (gal):	861,294
Total Base Non Water Volume:	

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection



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
Unislick ST50	Universal Well Services	Friction Reducer		Listed Below			
Sand (Proppant)	Universal Well Services	Proppant		Listed Below			

Submitted 12/13/16

05/03/2019

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection

K-Bac 1020	Universal Well Services	Biocide		Listed Below				
Unhib G	Universal Well Services	Acid Inhibitor		Listed Below				
Hydrochloric Acid (7.5%)	Universal Well Services	Acidizing		Listed Below				
Water	Chevron Appalachia, LLC	Carrier/Base Fluid		Listed Below				
Scale Hib A	Universal Well Services	Scale Inhibitor		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		86.79536
		Silica		14808-60-7		99.90000		12.09872
		Hydrogen Chloride		7647-01-0		7.50000		0.07196
		Petroleum Distillates, Hydrotreated Light		64742-47-8		30.00000		0.03025
		Ammonium Acetate		631-61-8		13.00000		0.01311
		Ethylene Glycol		107-21-1		30.00000		0.00716
		Triethanolamine Tri (Phosphate Ester), Sodium Salt		68171-29-9		30.00000		0.00716
		Alcohols, ethoxylated		68439-50-9		5.00000		0.00504
		Alcohols, ethoxylated		68002-97-1		5.00000		0.00504
		Alcohols, ethoxylated		68551-12-2		5.00000		0.00504
		Polyethylene Glycol		25322-68-3		50.00000		0.00466

05/03/2019

			Water	7732-18-5	30.00000	0.00280	
			2,2-Dibromo-3-nitriopropanamide	10222-01-2	21.00000	0.00196	
			Butyl diglycol	112-34-5	75.00000	0.00021	
			Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00014	
			Methanol	67-56-1	5.00000	0.00001	
			Thiourea	62-56-6	1.00000		
			Formaldehyde	50-00-0	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)

RECEIVED
Office of Oil and Gas
APR 9 2019
WV Department of
Environmental Protection



05/03/2019

Jackie M. Scholar
Regulatory Reporting Coordinator

April 1, 2019

CERTIFIED MAIL: 7016 0340 0000 4903 6164

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

RE: Well Operator's Report of Well Work WR-35
Taylor C 6H

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 6H, (API 47-051-01824)**.

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

Sincerely,
Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

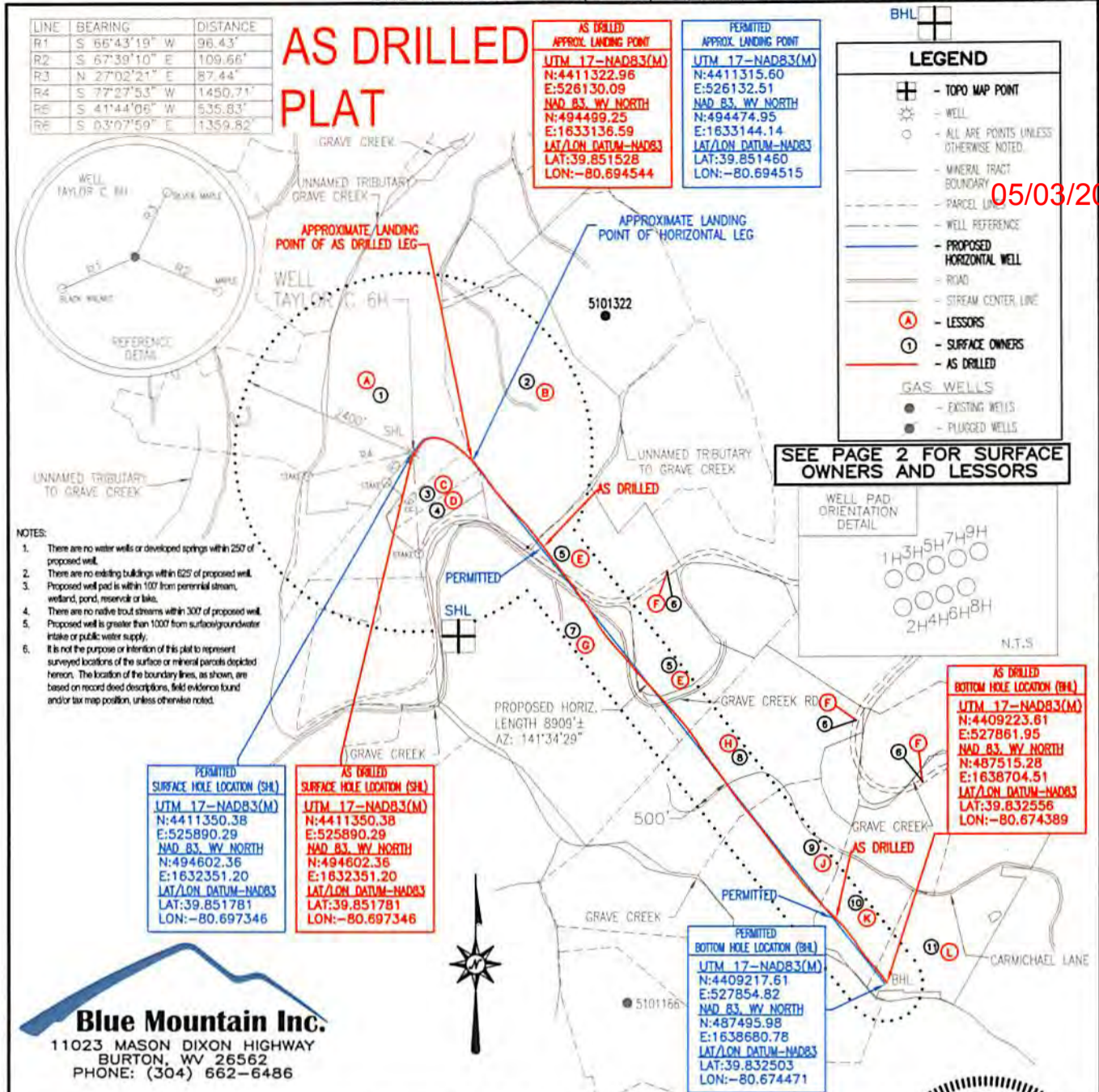
RECEIVED
Office of Oil and Gas

APR 9 2019

WV Department of
Environmental Protection

BHL is located on topo map 302 feet south of Latitude: 39°50'00"
 SHL is located on topo map 8,458 feet south of Latitude: 39°52'30"

BHL is located on topo map 2,192 feet west of Longitude: 80°40'00"
 SHL is located on topo map 8,613 feet west of Longitude: 80°40'00"



FILE #: TAYLOR C 6H-AS DRILLED
 DRAWING #: TAYLOR C 6H-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 6H-AS DRILLED
 API WELL #: 47 STATE 51 COUNTY 01824 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: 986.881±

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: 15,974.6±
 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

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

TAYLOR C 6H PAGE 2 OF 2 AS DRILLED

05/03/2019

	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	ROBERT MORRIS SULLIVAN	4-10/22
4	DAVID SHAWN CONNER	4-10/16
5	PHILIP L. KUHN EST - LIFE	3-12/1
6	MURRAY ENERGY	3-12/28
7	CNX LAND RESOURCES INC.	9-2/3
8	GEORGE B. & MARY L. CROW	9-2/6
9	JAMES POMPEO	9-2/11
10	JAMES POMPEO	9-2/8
11	WILLIAM E. & AMANDA N. TOLAND	9-2/9

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

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4411350.38
E:525890.29
NAD 83, WV NORTH
N:494602.36
E:1632351.20
LAT/LON DATUM-NAD83
LAT:39.851781
LON:-80.697346

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411315.60
E:526132.51
NAD 83, WV NORTH
N:494474.95
E:1633144.14
LAT/LON DATUM-NAD83
LAT:39.851460
LON:-80.694515

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4409217.61
E:527854.82
NAD 83, WV NORTH
N:487495.98
E:1638680.78
LAT/LON DATUM-NAD83
LAT:39.832503
LON:-80.674471

AS DRILLED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4411350.38
E:525890.29
NAD 83, WV NORTH
N:494602.36
E:1632351.20
LAT/LON DATUM-NAD83
LAT:39.851781
LON:-80.697346

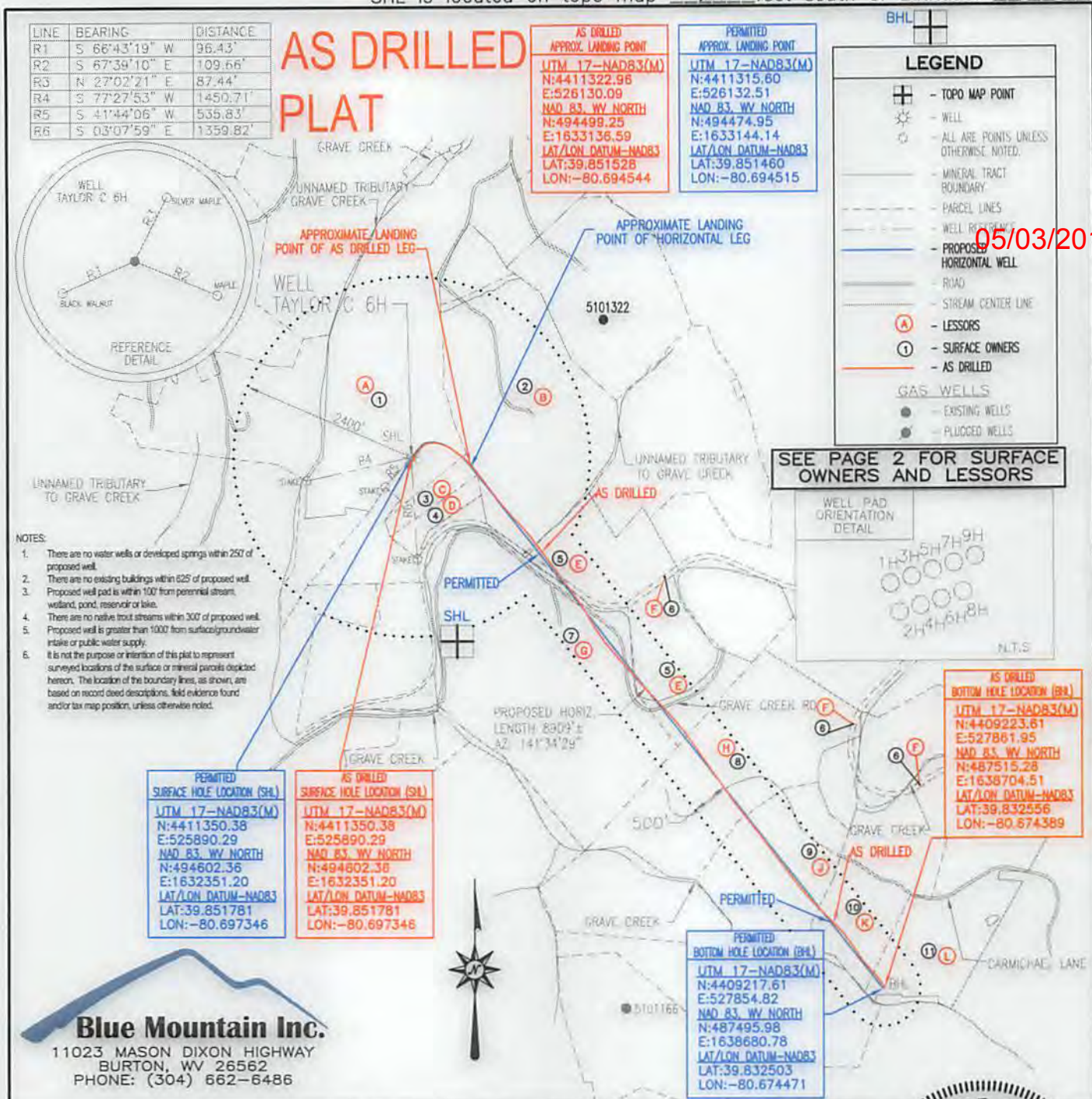
AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411322.96
E:526130.09
NAD 83, WV NORTH
N:494499.25
E:1633136.59
LAT/LON DATUM-NAD83
LAT:39.851528
LON:-80.694544

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4409223.61
E:527861.95
NAD 83, WV NORTH
N:487515.28
E:1638704.51
LAT/LON DATUM-NAD83
LAT:39.832556
LON:-80.674389

BHL is located on topo map 302 feet south of Latitude: 39°50'00"
 SHL is located on topo map 8,458 feet south of Latitude: 39°52'30"

BHL is located on topo map 2,192 feet west of Longitude: 80°40'00"
 SHL is located on topo map 8,613 feet west of Longitude: 80°40'00"

05/03/2018



FILE #: TAYLOR C 6H-AS DRILLED
 DRAWING #: TAYLOR C 6H-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 6H-AS DRILLED
 API WELL #: 47 51 01824
 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: 986.881±

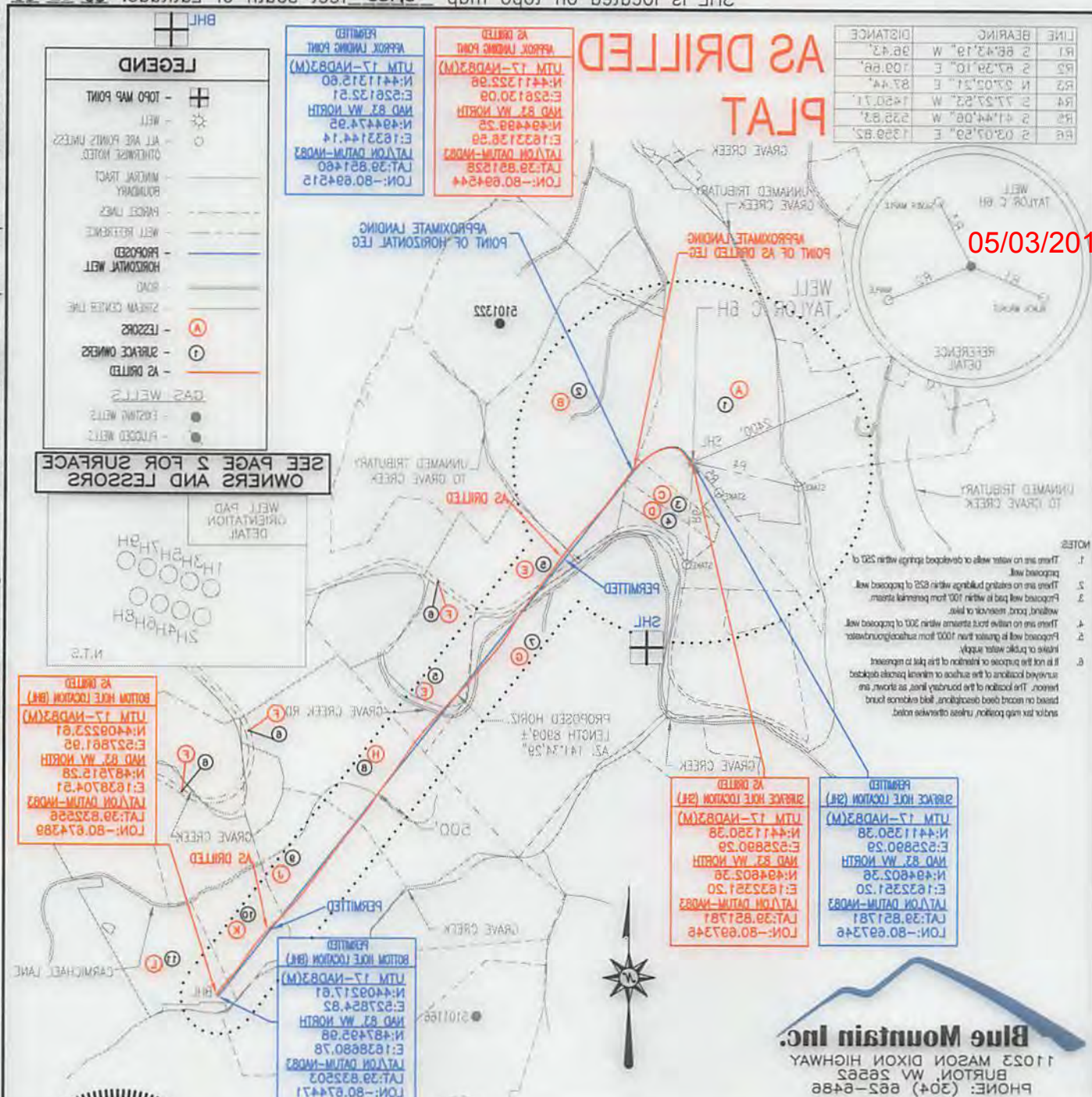
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,555'± TMD: 15,974.6'±
 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

LINE	BEARING	DISTANCE
R1	2 88°43'19" W	98.43
R2	2 87°29'10" E	109.88
R3	N 07°02'11" E	87.44
R4	2 77°27'22" W	148.71
R5	2 41°44'08" W	258.83
R6	2 03°07'29" E	139.85

AS DRILLED PLAT

05/03/2019



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.

Signature: *George D. Six*

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

FILE #: TAYLOR C 6H-AS DRILLED
 DRAWING #: TAYLOR C 6H-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE: U.S.G.S. MONUMENT THOMAS 14881
 OF ELEVATION: THOMAS 14881

DATE: MARCH 13, 2018

OPERATOR'S WELL #: TAYLOR C 6H-AS DRILLED

API WELL #: 47 STATE COUNTY PERMIT 01824

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK

COUNTY/DISTRICT: MARSHALL \ CLAY

SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC

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

AGREEMENT: 988.881±

AGREEMENT: 285.43±

AGREEMENT: 285.43±

WELL OPERATOR: CHEVRON APPALACHIA, LLC

DESIGNATED AGENT: KENNETH E. TAWNEY

Address: 700 CHERINGTON PARKWAY, BURTON, WV 25825

City: CHARLESTON State: WV Zip Code: 25301-3505

Address: 1023 MASON DIXON HIGHWAY, BURTON, WV 25825

City: CHARLESTON State: PA Zip Code: 15108

WELL TYPE: Oil Gas Liquid Injection WASTE DISPOSAL PRODUCTION DEEP SHALLOW

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 1257.00' ±

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

BHL is located on topo map 8.458 feet south of latitude: 39.52.30
 SHL is located on topo map 302 feet south of latitude: 39.50.00

BHL is located on topo map 8.458 feet south of latitude: 39.52.30
 SHL is located on topo map 302 feet south of latitude: 39.50.00

TAYLOR C 6H PAGE 2 OF 2 AS DRILLED

05/03/2019

	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	ROBERT MORRIS SULLIVAN	4-10/22
4	DAVID SHAWN CONNER	4-10/16
5	PHILIP L. KUHN EST - LIFE	3-12/1
6	MURRAY ENERGY	3-12/28
7	CNX LAND RESOURCES INC.	9-2/3
8	GEORGE B. & MARY L. CROW	9-2/6
9	JAMES POMPEO	9-2/11
10	JAMES POMPEO	9-2/8
11	WILLIAM E. & AMANDA N. TOLAND	9-2/9

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

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4411350.38
E:525890.29
NAD 83, WV NORTH
N:494602.36
E:1632351.20
LAT/LON DATUM-NAD83
LAT:39.851781
LON:-80.697346

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411315.60
E:526132.51
NAD 83, WV NORTH
N:494474.95
E:1633144.14
LAT/LON DATUM-NAD83
LAT:39.851460
LON:-80.694515

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4409217.61
E:527854.82
NAD 83, WV NORTH
N:487495.98
E:1638680.78
LAT/LON DATUM-NAD83
LAT:39.832503
LON:-80.674471

AS DRILLED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4411350.38
E:525890.29
NAD 83, WV NORTH
N:494602.36
E:1632351.20
LAT/LON DATUM-NAD83
LAT:39.851781
LON:-80.697346

AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411322.96
E:526130.09
NAD 83, WV NORTH
N:494499.25
E:1633136.59
LAT/LON DATUM-NAD83
LAT:39.851528
LON:-80.694544

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4409223.61
E:527861.95
NAD 83, WV NORTH
N:487515.28
E:1638704.51
LAT/LON DATUM-NAD83
LAT:39.832556
LON:-80.674389

MARCH 13, 2018

TAYLOR C 6H PAGE 2 OF 2 AS DRILLED

05/03/2019

11	WILLIAM E. & AMANDA N. TOLAND	9-2\9
10	JAMES POMPEO	9-2\8
9	JAMES POMPEO	9-2\11
8	GEORGE B. & MARY J. CROW	9-2\8
7	CIX LAND RESOURCES INC.	9-2\3
6	MURRAY ENERGY	3-12\28
5	PHILIP L. KUHN EST - LIFE	3-12\1
4	DAVID SHAWN CONNER	4-10\16
3	ROBERT MORRIS SULLIVAN	4-10\22
2	BRENDAN J. MCCARTHY & JOSEPH E. BOLAJAD, III	4-10\19
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10\21
	SURFACE OWNER	DIST-TM\PAR

L	FREDIE C. & VIOLET L. WHITE ET AL
K	FREDIE C. & VIOLET L. WHITE
J	FREDIE C. & VIOLET L. WHITE
H	CHARLES R. KERMAN ET UX
G	OKY D. & JANINA A. BURTON
F	CIX GAS COMPANY, LLC
E	HOWARD L. KUHN ET AL; HOWARD LEE KUHN ET AL
D	DAVID SHAWN CONNER
C	ROBERT MORRIS SULLIVAN
B	ROBERT S. BIRD & BETTY J. BIRD
A	LEE R. & SHERRI L. TAYLOR
	LESSOR

PERMITTED
BOTTOM HOLE LOCATION (SH)

UTM 17-ND83(M)
N:440821.761
E:527884.82
NAD 83, W. NORTH
N:487498.98
E:1638880.78
LAT:39.832503
LON:-80.674471

PERMITTED
APPROX. LANDING POINT

UTM 17-ND83(M)
N:4411312.80
E:526132.21
NAD 83, W. NORTH
N:494474.92
E:1633144.14
LAT:39.821460
LON:-80.694212

PERMITTED
SURFACE HOLE LOCATION (SH)

UTM 17-ND83(M)
N:4411350.38
E:525890.29
NAD 83, W. NORTH
N:494602.36
E:1632351.20
LAT:39.821781
LON:-80.692346

AS DRILLED
BOTTOM HOLE LOCATION (SH)

UTM 17-ND83(M)
N:440823.61
E:527881.95
NAD 83, W. NORTH
N:487512.28
E:1638704.21
LAT:39.832556
LON:-80.674389

AS DRILLED
APPROX. LANDING POINT

UTM 17-ND83(M)
N:4411322.96
E:526130.09
NAD 83, W. NORTH
N:494499.22
E:1633136.29
LAT:39.821528
LON:-80.694244

AS DRILLED
SURFACE HOLE LOCATION (SH)

UTM 17-ND83(M)
N:4411350.38
E:525890.29
NAD 83, W. NORTH
N:494602.36
E:1632351.20
LAT:39.821781
LON:-80.692346

MARCH 13, 2018

