



03/29/2019

Jackie M. Scholar
Regulatory Reporting Coordinator

API: 4705101874

March 12, 2019

CERTIFIED MAIL: 7016 0340 0000 4903 6102

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 2HA

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 2HA, (API 47-051-01801)**.

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

API: 4705101874

API 47 - 051 - 01801 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 2HA
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 494616.68 Easting 1632396.45
Landing Point of Curve Northing 493606.48 Easting 1632134.25
Bottom Hole Northing 488015.23 Easting 1636623.74

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 8/25/2015 Date drilling ceased 1/20/2018
Date completion activities began 9/12/18 Date completion activities ceased 2/27/19
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

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Freshwater depth(s) ft 732' Open mine(s) (Y/N) depths N WV Department of
Salt water depth(s) ft 2279' Void(s) encountered (Y/N) depths N Environmental Protection
Coal depth(s) ft 800' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by

Reviewed by:
Joe Keckler
3/23/19

WR-35
Rev. 8/23/13

API 47-051 - 01801 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 2HA

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	36"	20"	75'	New	X-52 / 78.70		Y
Surface	17 1/2"	13 3/8"	530'	New	J-55 / 54.50		Y
Coal	12 1/4"	9 5/8"	2221'	New	J-55 / 40		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	14333'	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	432	15.6	1.20	518	Surface	8
Coal	Class A	821	15.6	1.19	976	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class H	Lead: 1373 Tail: 1691	Lead: 14.7 Tail: 15.2	Lead: 1.13 Tail: 1.15	Lead: 1561 Tail: 1948	Surface	8
Tubing							

Drillers TD (ft) 14354' Loggers TD (ft) 14354'
 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. Vertical Production has a bow spring centralizer every other joint over coupling. In the curve and lateral there is a 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 - 01801 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 2HA

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					
								RECEIVED Office of Oil and Gas

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Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 051 - 01801 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 2HA

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6533'	TVD 6910' 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 DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	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 3/12/19

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API: 47-051-01801	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 2HA
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	12/19/18	14195	14035	47	Marcellus
2	12/19/18	13995	13835	47	Marcellus
3	12/19/18	13795	13635	47	Marcellus
4	12/20/18	13595	13435	47	Marcellus
5	12/20/18	13395	13235	47	Marcellus
6	12/20/18	13195	13035	47	Marcellus
7	12/20/18	12995	12835	47	Marcellus
8	12/20/18	12795	12635	47	Marcellus
9	12/21/18	12595	12435	47	Marcellus
10	12/21/18	12395	12235	47	Marcellus
11	12/21/18	12195	12035	47	Marcellus
12	12/21/18	11995	11835	47	Marcellus
13	12/21/18	11795	11635	47	Marcellus
14	12/21/18	11595	11435	47	Marcellus
15	12/22/18	11395	11235	47	Marcellus
16	12/22/18	11195	11035	47	Marcellus
17	12/22/18	10995	10835	47	Marcellus
18	12/22/18	10795	10635	47	Marcellus
19	12/22/18	10595	10435	47	Marcellus
20	12/22/18	10395	10235	47	Marcellus
21	12/23/18	10195	10035	47	Marcellus
22	12/23/18	9995	9835	47	Marcellus
23	12/23/18	9795	9635	47	Marcellus
24	12/23/18	9595	9435	47	Marcellus
25	12/23/18	9395	9235	47	Marcellus
26	12/23/18	9195	9035	47	Marcellus
27	12/24/18	8995	8835	47	Marcellus
28	12/24/18	8795	8635	47	Marcellus
29	12/26/18	8595	8435	47	Marcellus
30	12/26/18	8395	8235	47	Marcellus
31	12/26/18	8195	8035	47	Marcellus
32	12/26/18	7995	7835	47	Marcellus
33	12/27/18	7795	7635	47	Marcellus
34	12/27/18	7595	7435	47	Marcellus
35	12/27/18	7395	7235	47	Marcellus
36	12/27/18	7195	7035	47	Marcellus
37					
38					
39					
40					

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

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API: 47-051-01801	Well Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 2HA
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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	12/19/18	96.2	8849	5891	4373	399639	9593	n/a
2	12/19/18	96.7	8911	5740	4623	400351	9634	n/a
3	12/19/18	97.8	8760	6811	4727	399707	9497	n/a
4	12/20/18	99.1	8812	6847	4834	401255	9550	n/a
5	12/20/18	99.1	8608	7322	4659	400466	9580	n/a
6	12/20/18	100	8689	7417	4687	399890	9619	n/a
7	12/20/18	99.8	8685	6631	4688	400025	9646	n/a
8	12/20/18	99.9	8375	6382	4868	399024	9620	n/a
9	12/21/18	99.9	8305	6807	4920	399523	9578	n/a
10	12/21/18	98.1	8167	6784	4977	399034	9668	n/a
11	12/21/18	98.8	8294	6402	4731	399988	9491	n/a
12	12/21/18	98.8	8816	6465	4514	399581	9403	n/a
13	12/21/18	99.4	8320	6469	4841	399606	9466	n/a
14	12/21/18	99.8	8237	6628	4900	399034	9503	n/a
15	12/22/18	100.2	8337	6572	4819	399515	9482	n/a
16	12/22/18	99.7	8654	6540	4546	401502	9584	n/a
17	12/22/18	100.4	8299	6505	4695	400255	9412	n/a
18	12/22/18	99.8	8312	6293	4533	399982	9472	n/a
19	12/22/18	100.3	8199	6048	4974	399132	7412	n/a
20	12/22/18	99.8	7942	5976	4796	399189	9397	n/a
21	12/23/18	100.4	8094	6434	4921	400202	9374	n/a
22	12/23/18	100.1	7894	6416	4795	400050	9347	n/a
23	12/23/18	99.5	7827	5914	4687	399598	9176	n/a
24	12/23/18	99.9	7845	6072	4895	399568	9118	n/a
25	12/23/18	100.1	7816	6148	4729	399619	9271	n/a
26	12/23/18	100	7608	6229	4817	400533	9339	n/a
27	12/24/18	99.9	7754	5420	4850	399866	9283	n/a
28	12/24/18	99.5	7646	6060	4730	402807	9251	n/a
29	12/26/18	99.9	7887	4945	4811	399353	9216	n/a
30	12/26/18	99.3	7876	6772	4651	400257	9205	n/a
31	12/26/18	99.8	7778	6606	4957	400510	9225	n/a
32	12/26/18	99.8	7759	6466	4992	400266	9290	n/a
33	12/27/18	99.9	7524	6436	4660	401124	9299	n/a
34	12/27/18	99.9	7293	5956	4803	403066	9173	n/a
35	12/27/18	100	7188	5950	4666	401158	9112	n/a
36	12/27/18	100.2	7098	6447	4437	361516	8666	n/a
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API: 47-051-01801	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 2H
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Taylor 2H				
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	6315	6196	6511
MDLX	6315	6343	6511	6549
PYAN	6343	6372	6549	6595
BRKT	6372	6399	6595	6637
BRKT A	6399	6418	6637	6660
TLLY	6418	6451	6660	6721
S5	6451	6533	6721	6910
S3	6533	7810	6910	6971
STFD*	6556	7811	6971	6978
S2.B	6558	7820	6978	7018
S2.A	6565		7018	

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API: 47-051-01801	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 2H
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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: 47-051-01801	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 2H
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CEMENTING CONTRACTORS		
Name Baker Huges	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

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Job Start Date:	12/19/2018
Job End Date:	12/27/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01874-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Taylor C 2HA
Latitude:	39.85182000
Longitude:	-80.69718600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,625
Total Base Water Volume (gal):	14,193,984
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	88.13372	None
Sand	UPP	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	10.67870	None
HCL Acid (7.5%)	UPP	Acidizing	Hydrochloric Acid	7647-01-0	7.50000	0.08003	None
Unislick ST50	UPP	Friction reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00000	0.01987	None
			Ammonium acetate	631-61-8	13.00000	0.00861	None
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00331	None
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00331	None
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00331	None
K-BAC 1020	UPP	Biocide	Polyethylene glycol	25322-68-3	50.00000	0.00558	None
			Water	7732-18-5	30.00000	0.00335	None
			2,2-Dibromo-3-nitripropionamide	10222-01-2	21.00000	0.00234	None

submitted 1/10/19

Scale Inhibitor E	UPP	Scale Inhibitor					
		Ethylene Glycol	107-21-1	40.00000	0.00546	None	
		Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00273	None	
		Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00068	None	
		Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00068	None	
		DETA phosphonate	15827-60-8	5.00000	0.00068	None	
Iron Control A	UPP	Iron Control Agent					
		Ethylene Glycol	107-21-1	30.00000	0.00537	None	
Unihib G	UPP	Acid inhibitor					
		Butyl diglycol	112-34-5	75.00000	0.00063	None	
		Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00042	None	
		Methanol	67-56-1	5.00000	0.00004	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	631-61-8	13.00000	0.00861		
		Polyethylene glycol	25322-68-3	50.00000	0.00558		
		Ethylene Glycol	107-21-1	40.00000	0.00546		
		Water	7732-18-5	30.00000	0.00335		
		Alcohols, ethoxylated	68551-12-2	5.00000	0.00331		
		Alcohols, ethoxylated	68002-97-1	5.00000	0.00331		
		Alcohols, ethoxylated	68439-50-9	5.00000	0.00331		
		Hexamethylene Triamine Penta (Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00068		
		Phosphino carboxylic acid polymer	71050-62-9	5.00000	0.00068		
		DETA phosphonate	15827-60-8	5.00000	0.00068		
		Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00042		
		Methanol	67-56-1	5.00000	0.00004		
		Formaldehyde	50-00-0	1.00000	0.00001		
		Thiourea	62-56-6	1.00000	0.00001		

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* 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)

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 5.1

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REFERENCE WELLPATH IDENTIFICATION

Operator CHEVRON APPALACHIA, LLC
Area Marshall County, WV
Field Marshall County
Facility Taylor C Pad
Slot Slot #02A
Well Taylor C 2H-A
Wellbore Taylor C 2H-A AWB
Wellpath Taylor C 2H-A AWP Proj: 14379'
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Refe TRUE
Scale 0.999948
Convergen 0.77° West
Software S WellArchitect® 5.1
User Edsaryar
Report Ger 23/Jan/2018 at 19:41
DataBase/S WA_MPL_EASTERNUS_Defn/ev4822.xml

WELLPATH	Local North [ft]	Local East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Locatic	5.36	79.83	1632396	494616.7	39°51'06.5"	80°41'49.866"W
Facility Ref			1632317	494612.4	39°51'06.5"	80°41'50.889"W
Field Refer			1644569	516963.8	39°54'48.9"	80°39'17.476"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Precision 560 (RKB)
MD Refere Precision 560 (RKB)
Field Vertic Mean Sea Level
Precision 5 25.00ft
Precision 5 1260.00ft

Precision 5 25.00ft
 Section Ori N 0.00, E 0.00 ft
 Section Azi 140.71°

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WELLPATH DATA † = interpolated/extrapolated station

	MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dis [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
†	0	0	41.16	0	0	0	0	1632396	494616.7	39°51'06.5	80°41'49.8	0	0	0	0	0
	25	0	41.16	25	0	0	0	1632396	494616.7	39°51'06.5	80°41'49.8	0	0	0	0	0
	58.33	0.34	41.16	58.33	-0.02	0.07	0.07	1632397	494616.8	39°51'06.5	80°41'49.8	0.1	41.16	1.02	1.02	123.49
	83.33	0.3	37.99	83.33	-0.04	0.18	0.15	1632397	494616.9	39°51'06.5	80°41'49.8	0.24	40.29	0.17	-0.16	-12.68
	108.33	0.27	57.65	108.33	-0.05	0.26	0.24	1632397	494616.9	39°51'06.5	80°41'49.8	0.36	42.668	0.41	-0.12	78.64
	133.33	0.22	81.2	133.33	-0.02	0.3	0.34	1632397	494617	39°51'06.5	80°41'49.8	0.46	48.334	0.45	-0.2	94.2
	158.33	0.29	159.85	158.33	0.07	0.25	0.41	1632397	494616.9	39°51'06.5	80°41'49.8	0.48	58.486	1.31	0.28	314.6
	183.33	0.44	184.04	183.33	0.19	0.1	0.43	1632397	494616.8	39°51'06.5	80°41'49.8	0.44	77.209	0.85	0.6	96.76
	208.33	0.68	195.58	208.33	0.35	-0.14	0.38	1632397	494616.5	39°51'06.5	80°41'49.8	0.4	110.537	1.06	0.96	46.16
	233.33	0.74	200.01	233.33	0.52	-0.44	0.28	1632397	494616.2	39°51'06.5	80°41'49.8	0.52	146.957	0.33	0.24	17.72
	258.33	0.69	199.39	258.32	0.68	-0.73	0.18	1632397	494616	39°51'06.5	80°41'49.8	0.75	166.244	0.2	-0.2	-2.48
	283.33	0.51	206.03	283.32	0.8	-0.97	0.08	1632397	494615.7	39°51'06.5	80°41'49.8	0.98	175.297	0.77	-0.72	26.56
	308.33	0.4	207.06	308.32	0.88	-1.15	-0.01	1632396	494615.5	39°51'06.5	80°41'49.8	1.15	180.426	0.44	-0.44	4.12
	333.33	0.27	190.83	333.32	0.96	-1.29	-0.06	1632396	494615.4	39°51'06.5	80°41'49.8	1.29	182.642	0.64	-0.52	-64.92
	358.33	0.23	186.92	358.32	1.03	-1.39	-0.08	1632396	494615.3	39°51'06.5	80°41'49.8	1.4	183.14	0.17	-0.16	-15.64
	383.33	0.21	166.28	383.32	1.11	-1.49	-0.07	1632396	494615.2	39°51'06.5	80°41'49.8	1.49	182.756	0.32	-0.08	-82.56
	408.33	0.21	183.16	408.32	1.18	-1.58	-0.06	1632396	494615.1	39°51'06.5	80°41'49.8	1.58	182.296	0.25	0	67.52
	433.33	0.17	165.97	433.32	1.25	-1.66	-0.06	1632396	494615	39°51'06.5	80°41'49.8	1.66	181.96	0.28	-0.16	-68.76
	458.33	0.08	31.59	458.32	1.28	-1.68	-0.04	1632396	494615	39°51'06.5	80°41'49.8	1.68	181.318	0.93	-0.36	-537.52
	483.33	0.19	9.92	483.32	1.24	-1.62	-0.02	1632396	494615.1	39°51'06.5	80°41'49.8	1.63	180.789	0.48	0.44	-86.68
	508.33	0.18	4.78	508.32	1.19	-1.54	-0.01	1632396	494615.1	39°51'06.5	80°41'49.8	1.54	180.444	0.08	-0.04	-20.56
	512.33	0.15	0.54	512.32	1.18	-1.53	-0.01	1632396	494615.2	39°51'06.5	80°41'49.8	1.53	180.426	0.81	-0.75	-106
	598.33	0.34	354.49	598.32	0.88	-1.17	-0.03	1632396	494615.5	39°51'06.5	80°41'49.8	1.17	181.71	0.22	0.22	-7.03
	630.33	0.33	343.33	630.32	0.72	-0.98	-0.07	1632396	494615.7	39°51'06.5	80°41'49.8	0.99	184.091	0.21	-0.03	-34.88
	661.33	0.4	354.24	661.32	0.54	-0.79	-0.11	1632396	494615.9	39°51'06.5	80°41'49.8	0.8	187.694	0.32	0.23	35.19
	692.33	0.17	29.03	692.32	0.44	-0.64	-0.1	1632396	494616	39°51'06.5	80°41'49.8	0.65	188.439	0.9	-0.74	112.23
	723.33	0.3	28.54	723.32	0.39	-0.53	-0.03	1632396	494616.2	39°51'06.5	80°41'49.8	0.53	183.693	0.42	0.42	-1.58
	754.33	0.44	21.38	754.32	0.3	-0.35	0.05	1632396	494616.3	39°51'06.5	80°41'49.8	0.35	172.2	0.47	0.45	-23.1
	786.33	0.36	52.4	786.32	0.24	-0.17	0.17	1632397	494616.5	39°51'06.5	80°41'49.8	0.24	135.222	0.71	-0.25	96.94
	817.33	0.38	98.96	817.31	0.32	-0.13	0.35	1632397	494616.6	39°51'06.5	80°41'49.8	0.37	110.356	0.95	0.06	150.19
	848.33	0.86	150.01	848.31	0.63	-0.35	0.57	1632397	494616.3	39°51'06.5	80°41'49.8	0.67	121.438	2.22	1.55	164.68

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879.33	1.38	145.03	879.31	1.23	-0.86	0.9	1632397	494615.8	39°51'06.5	80°41'49.8	1.24	133.565	1.7	1.68	-16.06
910.33	2.07	151.19	910.29	2.15	-1.65	1.38	1632398	494615	39°51'06.5	80°41'49.8	2.15	140.062	2.3	2.23	19.87
942.33	2.79	158.15	942.26	3.47	-2.88	1.95	1632398	494613.8	39°51'06.5	80°41'49.8	3.48	145.89	2.43	2.25	21.75
973.33	3.5	153.45	973.22	5.11	-4.43	2.65	1632399	494612.2	39°51'06.5	80°41'49.8	5.16	149.052	2.43	2.29	-15.16
1004.33	4.09	155.48	1004.15	7.1	-6.28	3.54	1632400	494610.4	39°51'06.4	80°41'49.8	7.21	150.613	1.95	1.9	6.55
1035.33	4.7	156.52	1035.06	9.39	-8.45	4.5	1632401	494608.2	39°51'06.4	80°41'49.8	9.57	151.956	1.98	1.97	3.35
1067.33	4.8	157.07	1066.95	11.94	-10.89	5.55	1632402	494605.7	39°51'06.4	80°41'49.7	12.22	153.005	0.34	0.31	1.72
1098.33	4.84	158.17	1097.84	14.43	-13.29	6.54	1632403	494603.3	39°51'06.4	80°41'49.7	14.81	153.816	0.32	0.13	3.55
1129.33	5.11	158.13	1128.72	16.99	-15.79	7.54	1632404	494600.8	39°51'06.4	80°41'49.7	17.5	154.481	0.87	0.87	-0.13
1160.33	5.21	159.1	1159.6	19.65	-18.39	8.55	1632405	494598.2	39°51'06.3	80°41'49.7	20.28	155.05	0.43	0.32	3.13
1191.33	5.26	159.2	1190.47	22.33	-21.03	9.56	1632406	494595.5	39°51'06.3	80°41'49.7	23.1	155.551	0.16	0.16	0.32
1222.33	5.36	160.74	1221.33	25.04	-23.72	10.54	1632407	494592.8	39°51'06.3	80°41'49.7	25.96	156.04	0.56	0.32	4.97
1254.33	5.13	158.81	1253.2	27.8	-26.47	11.55	1632408	494590.1	39°51'06.2	80°41'49.7	28.88	156.42	0.91	-0.72	-6.03
1285.33	5.54	158.64	1284.07	30.54	-29.16	12.6	1632409	494587.4	39°51'06.2	80°41'49.7	31.76	156.629	1.32	1.32	-0.55
1316.33	5.53	155.11	1314.92	33.41	-31.9	13.77	1632410	494584.6	39°51'06.2	80°41'49.6	34.75	156.65	1.1	-0.03	-11.39
1347.33	5.75	155.95	1345.77	36.36	-34.68	15.03	1632411	494581.8	39°51'06.2	80°41'49.6	37.8	156.561	0.76	0.71	2.71
1378.33	6.08	153.4	1376.61	39.46	-37.56	16.4	1632412	494578.9	39°51'06.1	80°41'49.6	40.99	156.411	1.36	1.06	-8.23
1410.33	6.03	153.04	1408.43	42.75	-40.58	17.92	1632414	494575.9	39°51'06.1	80°41'49.6	44.36	156.168	0.2	-0.16	-1.13
1441.33	5.86	154.29	1439.26	45.88	-43.45	19.35	1632415	494573	39°51'06.1	80°41'49.6	47.57	155.999	0.69	-0.55	4.03
1472.33	4.68	155.81	1470.13	48.64	-46.03	20.55	1632416	494570.4	39°51'06.1	80°41'49.6	50.41	155.94	3.83	-3.81	4.9
1503.33	4.07	156.55	1501.04	50.92	-48.2	21.51	1632417	494568.2	39°51'06.0	80°41'49.5	52.78	155.95	1.98	-1.97	2.39
1534.33	3.97	157.01	1531.96	53.01	-50.19	22.37	1632418	494566.2	39°51'06.0	80°41'49.5	54.95	155.983	0.34	-0.32	1.48
1566.33	4.01	160.06	1563.88	55.13	-52.26	23.18	1632419	494564.1	39°51'06.0	80°41'49.5	57.17	156.082	0.67	0.13	9.53
1597.33	4.13	162.74	1594.81	57.19	-54.35	23.88	1632420	494562	39°51'06.0	80°41'49.5	59.36	156.28	0.73	0.39	8.65
1628.33	4.27	163.29	1625.72	59.29	-56.52	24.54	1632420	494559.8	39°51'06.0	80°41'49.5	61.62	156.528	0.47	0.45	1.77
1659.33	4.57	161.51	1656.63	61.51	-58.8	25.27	1632421	494557.6	39°51'05.9	80°41'49.5	64	156.745	1.06	0.97	-5.74
1691.33	4.71	161.29	1688.53	63.93	-61.25	26.09	1632422	494555.1	39°51'05.9	80°41'49.5	66.58	156.926	0.44	0.44	-0.69
1722.33	4.82	161.92	1719.42	66.33	-63.69	26.91	1632423	494552.6	39°51'05.9	80°41'49.5	69.14	157.1	0.39	0.35	2.03
1753.33	5.08	162.9	1750.3	68.82	-66.24	27.71	1632423	494550.1	39°51'05.9	80°41'49.5	71.81	157.298	0.88	0.84	3.16
1785.33	5	162.31	1782.18	71.43	-68.93	28.55	1632424	494547.4	39°51'05.8	80°41'49.5	74.61	157.498	0.3	-0.25	-1.84
1816.33	5.18	162.15	1813.06	73.99	-71.55	29.39	1632425	494544.8	39°51'05.8	80°41'49.4	77.35	157.666	0.58	0.58	-0.52
1847.33	5.07	160.66	1843.93	76.58	-74.17	30.28	1632426	494542.1	39°51'05.8	80°41'49.4	80.11	157.795	0.56	-0.35	-4.81
1878.33	4.94	166.73	1874.82	79.06	-76.76	31.04	1632426	494539.5	39°51'05.8	80°41'49.4	82.8	157.986	1.76	-0.42	19.58
1910.33	4.42	178.96	1906.71	81.27	-79.34	31.37	1632427	494536.9	39°51'05.7	80°41'49.4	85.31	158.423	3.51	-1.62	38.22
1941.33	4.26	192.2	1937.62	82.93	-81.66	31.15	1632427	494534.6	39°51'05.7	80°41'49.4	87.4	159.118	3.27	-0.52	42.71
1972.33	4.48	201.39	1968.53	84.23	-83.91	30.47	1632426	494532.4	39°51'05.7	80°41'49.4	89.27	160.044	2.36	0.71	29.65
2003.33	4.61	208.34	1999.43	85.3	-86.13	29.43	1632425	494530.2	39°51'05.7	80°41'49.4	91.02	161.133	1.82	0.42	22.42
2034.33	4.46	217	2030.34	86.06	-88.19	28.12	1632423	494528.1	39°51'05.6	80°41'49.5	92.57	162.316	2.26	-0.48	27.94
2066.33	4.02	226.53	2062.25	86.44	-89.96	26.56	1632422	494526.4	39°51'05.6	80°41'49.5	93.79	163.554	2.59	-1.38	29.78

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2097.33	3.47	240.68	2093.18	86.36	-91.16	24.95	1632420	494525.2	39°51'05.6"80°41'49.5"	94.52	164.695	3.46	-1.77	45.65
2128.33	3.31	252.01	2124.13	85.87	-91.9	23.28	1632419	494524.5	39°51'05.6"80°41'49.5"	94.8	165.785	2.22	-0.52	36.55
2159.33	3.29	266.55	2155.08	85.02	-92.23	21.54	1632417	494524.2	39°51'05.6"80°41'49.5"	94.71	166.854	2.69	-0.06	46.9
2191.33	3.02	277.49	2187.03	83.87	-92.18	19.79	1632415	494524.3	39°51'05.6"80°41'49.6"	94.28	167.884	2.06	-0.84	34.19
2292	2.9	289.32	2287.57	79.76	-90.99	14.76	1632410	494525.5	39°51'05.6"80°41'49.6"	92.18	170.789	0.62	-0.12	11.75
2381	2.38	286.35	2376.47	76.32	-89.72	10.86	1632406	494526.8	39°51'05.6"80°41'49.7"	90.38	173.1	0.6	-0.58	-3.34
2471	2.04	291.88	2466.41	73.37	-88.6	7.58	1632403	494528	39°51'05.6"80°41'49.7"	88.92	175.111	0.45	-0.38	6.14
2560	1.66	282.78	2555.36	70.97	-87.72	4.85	1632400	494528.9	39°51'05.6"80°41'49.8"	87.86	176.835	0.54	-0.43	-10.22
2649	1.14	285.32	2644.33	69.23	-87.2	2.74	1632398	494529.5	39°51'05.6"80°41'49.8"	87.25	178.201	0.59	-0.58	2.85
2738	0.67	253.86	2733.32	68.3	-87.12	1.39	1632397	494529.6	39°51'05.6"80°41'49.8"	87.13	179.089	0.75	-0.53	-35.35
2827	0.46	300.23	2822.32	67.76	-87.08	0.58	1632396	494529.6	39°51'05.6"80°41'49.8"	87.08	179.62	0.54	-0.24	52.1
2917	0.3	328.13	2912.32	67.19	-86.7	0.14	1632395	494530	39°51'05.7"80°41'49.8"	86.7	179.907	0.27	-0.18	31
3006	0.44	264.48	3001.32	66.77	-86.53	-0.32	1632395	494530.2	39°51'05.7"80°41'49.8"	86.53	180.213	0.46	0.16	-71.52
3095	1.51	232.92	3090.3	66.53	-87.27	-1.6	1632394	494529.4	39°51'05.6"80°41'49.8"	87.29	181.049	1.3	1.2	-35.46
3185	1.3	199.47	3180.28	67.02	-88.95	-2.88	1632392	494527.8	39°51'05.6"80°41'49.9"	89	181.857	0.93	-0.23	-37.17
3274	1.17	163.75	3269.26	68.38	-90.77	-2.97	1632392	494526	39°51'05.6"80°41'49.9"	90.82	181.872	0.86	-0.15	-40.13
3364	0.43	170.13	3359.25	69.52	-91.99	-2.65	1632393	494524.7	39°51'05.6"80°41'49.9"	92.03	181.651	0.83	-0.82	7.09
3453	0.4	186.02	3448.24	70.03	-92.63	-2.63	1632393	494524.1	39°51'05.6"80°41'49.9"	92.66	181.625	0.13	-0.03	17.85
3542	0.54	199.9	3537.24	70.46	-93.33	-2.8	1632392	494523.4	39°51'05.6"80°41'49.9"	93.37	181.72	0.2	0.16	15.6
3631	0.25	169.86	3626.24	70.84	-93.92	-2.91	1632392	494522.8	39°51'05.6"80°41'49.9"	93.96	181.775	0.39	-0.33	-33.75
3721	0.25	346.54	3716.24	70.84	-93.92	-2.92	1632392	494522.8	39°51'05.6"80°41'49.9"	93.96	181.782	0.56	0	196.31
3810	0.03	147.73	3805.24	70.69	-93.75	-2.95	1632392	494523	39°51'05.6"80°41'49.9"	93.8	181.805	0.31	-0.25	181.11
3900	0.34	319.2	3895.24	70.44	-93.57	-3.12	1632392	494523.2	39°51'05.6"80°41'49.9"	93.62	181.908	0.41	0.34	190.52
3989	0.32	236.71	3984.24	70.15	-93.5	-3.5	1632392	494523.2	39°51'05.6"80°41'49.9"	93.57	182.142	0.49	-0.02	-92.69
4078	0.19	320.92	4073.24	69.98	-93.53	-3.8	1632391	494523.2	39°51'05.6"80°41'49.9"	93.6	182.325	0.4	-0.15	94.62
4168	0.42	14.98	4163.24	69.64	-93.09	-3.81	1632391	494523.7	39°51'05.6"80°41'49.9"	93.17	182.342	0.38	0.26	60.07
4257	0.57	357.78	4252.23	69.09	-92.33	-3.74	1632391	494524.4	39°51'05.6"80°41'49.9"	92.41	182.319	0.24	0.17	-19.33
4346	0.33	278.98	4341.23	68.55	-91.85	-4.01	1632391	494524.9	39°51'05.6"80°41'49.9"	91.94	182.5	0.67	-0.27	-88.54
4436	0.26	317.31	4431.23	68.15	-91.66	-4.4	1632391	494525.1	39°51'05.6"80°41'49.9"	91.77	182.751	0.23	-0.08	42.59
4525	0.17	184.94	4520.23	68.04	-91.64	-4.55	1632391	494525.1	39°51'05.6"80°41'49.9"	91.76	182.844	0.44	-0.1	-148.73
4614	0.23	186.12	4609.23	68.26	-91.95	-4.58	1632391	494524.8	39°51'05.6"80°41'49.9"	92.07	182.853	0.07	0.07	1.33
4703	0.29	227.24	4698.23	68.4	-92.28	-4.77	1632390	494524.5	39°51'05.6"80°41'49.9"	92.41	182.957	0.21	0.07	46.2
4793	0.68	262.51	4788.22	68.14	-92.51	-5.46	1632390	494524.3	39°51'05.6"80°41'49.9"	92.67	183.38	0.53	0.43	39.19
4882	0.3	256.29	4877.22	67.76	-92.63	-6.21	1632389	494524.1	39°51'05.6"80°41'49.9"	92.84	183.838	0.43	-0.43	-6.99
4971	0.29	256.68	4966.22	67.56	-92.74	-6.66	1632389	494524	39°51'05.6"80°41'49.9"	92.98	184.107	0.01	-0.01	0.44
5060	0.65	270.19	5055.22	67.14	-92.79	-7.38	1632388	494524	39°51'05.6"80°41'49.9"	93.08	184.55	0.42	0.4	15.18
5155	0.52	266.8	5150.21	66.54	-92.81	-8.35	1632387	494524	39°51'05.6"80°41'49.9"	93.19	185.143	0.14	-0.14	-3.57
5227	2.7	254.65	5222.18	65.66	-93.28	-10.31	1632385	494523.6	39°51'05.6"80°41'49.9"	93.85	186.31	3.05	3.03	-16.87
5317	7.96	259.33	5311.76	61.81	-94.99	-18.49	1632377	494522	39°51'05.6"80°41'50.1"	96.78	191.014	5.86	5.84	5.2

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5406	13.67	256.6	5399.14	54.26	-98.58	-34.79	1632360	494518.6	39°51'05.5	80°41'50.3	104.53	199.438	6.44	6.42	-3.07
5495	19.84	251.72	5484.33	44.25	-105.76	-59.38	1632336	494511.7	39°51'05.5	80°41'50.6	121.29	209.315	7.1	6.93	-5.48
5585	25.88	247.9	5567.22	32.95	-117.95	-92.12	1632303	494500	39°51'05.3	80°41'51.0	149.66	217.989	6.91	6.71	-4.24
5674	30.82	245.69	5645.53	21.31	-134.65	-130.92	1632264	494483.8	39°51'05.2	80°41'51.5	187.81	224.194	5.67	5.55	-2.48
5764	35.15	244.5	5721	9.17	-155.31	-175.33	1632219	494463.7	39°51'05.0	80°41'52.1	234.23	228.466	4.86	4.81	-1.32
5853	35.1	243.77	5793.8	-2.72	-177.65	-221.41	1632173	494442	39°51'04.8	80°41'52.7	283.87	231.258	0.48	-0.06	-0.82
5943	35.69	243.59	5867.16	-14.42	-200.76	-268.13	1632126	494419.5	39°51'04.5	80°41'53.3	334.96	233.177	0.67	0.66	-0.2
6032	36.22	242.23	5939.21	-25.45	-224.56	-314.65	1632079	494396.3	39°51'04.3	80°41'53.9	386.57	234.485	1.08	0.6	-1.53
6121	36.22	237.45	6011.02	-33.79	-250.96	-360.09	1632033	494370.6	39°51'04.0	80°41'54.4	438.92	235.126	3.17	0	-5.37
6211	36.26	224.88	6083.71	-34.21	-284.18	-401.34	1631991	494337.9	39°51'03.7	80°41'55.0	491.77	234.699	8.25	0.04	-13.97
6300	37.64	210.56	6154.97	-22.15	-326.31	-433.8	1631958	494296.2	39°51'03.3	80°41'55.4	542.82	233.049	9.78	1.55	-16.09
6390	39.67	197.78	6225.36	2.97	-377.41	-456.58	1631935	494245.4	39°51'02.8	80°41'55.7	592.37	230.422	9.14	2.26	-14.2
6479	43.22	187.53	6292.14	39.32	-434.76	-469.27	1631921	494188.2	39°51'02.2	80°41'55.8	639.71	227.186	8.59	3.99	-11.52
6568	48.37	179.94	6354.22	86.01	-498.32	-473.23	1631917	494124.7	39°51'01.6	80°41'55.9	687.22	223.52	8.41	5.79	-8.53
6658	53.96	171.79	6410.7	143.33	-568.1	-467.99	1631921	494054.9	39°51'00.9	80°41'55.8	736.04	219.481	9.39	6.21	-9.06
6747	59.5	165.11	6459.54	209.17	-640.88	-452.97	1631935	493981.9	39°51'00.2	80°41'55.6	784.8	215.253	8.83	6.22	-7.51
6837	66.26	158.21	6500.58	283.92	-716.76	-427.67	1631959	493905.7	39°50'59.4	80°41'55.3	834.66	210.823	10.14	7.51	-7.67
6926	72.26	152.9	6532.1	364.32	-792.44	-393.19	1631993	493829.6	39°50'58.7	80°41'54.9	884.62	206.389	8.75	6.74	-5.97
7015	80.1	147.38	6553.36	449.49	-867.26	-350.15	1632035	493754.2	39°50'57.9	80°41'54.3	935.28	201.986	10.67	8.81	-6.2
7105	85.29	144.43	6564.81	538.35	-941.14	-300.12	1632084	493679.7	39°50'57.2	80°41'53.7	987.84	197.687	6.62	5.77	-3.28
7194	89.17	144.92	6569.11	627.02	-1013.66	-248.73	1632134	493606.5	39°50'56.5	80°41'53.0	1043.73	193.787	4.39	4.36	0.55
7283	89.51	140.24	6570.13	715.94	-1084.32	-194.67	1632187	493535.1	39°50'55.8	80°41'52.3	1101.65	190.178	5.27	0.38	-5.26
7373	89.35	135.66	6571.03	805.81	-1151.13	-134.4	1632247	493467.5	39°50'55.1	80°41'51.5	1158.95	186.66	5.09	-0.18	-5.09
7462	89.85	135.25	6571.65	894.43	-1214.56	-71.98	1632308	493403.3	39°50'54.5	80°41'50.7	1216.69	183.391	0.73	0.56	-0.46
7552	89.91	137.69	6571.84	984.18	-1279.8	-9.99	1632369	493337.2	39°50'53.9	80°41'49.9	1279.84	180.447	2.71	0.07	2.71
7641	90.09	140.97	6571.84	1073.14	-1347.3	48	1632426	493268.9	39°50'53.2	80°41'49.2	1348.15	177.96	3.69	0.2	3.69
7731	90.15	144.6	6571.65	1163.06	-1418.96	102.42	1632480	493196.6	39°50'52.5	80°41'48.5	1422.65	175.871	4.03	0.07	4.03
7820	89.63	143.05	6571.82	1251.93	-1490.8	154.95	1632532	493124	39°50'51.8	80°41'47.8	1498.83	174.066	1.84	-0.58	-1.74
7909	89.54	141.13	6572.46	1340.9	-1561.01	209.63	1632585	493053.1	39°50'51.1	80°41'47.1	1575.03	172.351	2.16	-0.1	-2.16
7999	89.42	141.25	6573.28	1430.89	-1631.14	266.04	1632641	492982.2	39°50'50.4	80°41'46.4	1652.69	170.737	0.19	-0.13	0.13
8088	89.51	141.96	6574.11	1519.87	-1700.89	321.31	1632695	492911.8	39°50'49.7	80°41'45.7	1730.97	169.302	0.8	0.1	0.8
8178	89.66	141.5	6574.76	1609.86	-1771.55	377.05	1632750	492840.4	39°50'49.0	80°41'45.0	1811.23	167.985	0.54	0.17	-0.51
8267	89.57	140.28	6575.36	1698.85	-1840.6	433.19	1632805	492770.6	39°50'48.3	80°41'44.3	1890.89	166.756	1.37	-0.1	-1.37
8357	89.48	137.4	6576.11	1788.79	-1908.35	492.42	1632863	492702	39°50'47.6	80°41'43.5	1970.86	165.531	3.2	-0.1	-3.2
8446	89.35	136.6	6577.02	1877.6	-1973.44	553.11	1632923	492636.2	39°50'47.0	80°41'42.7	2049.49	164.343	0.91	-0.15	-0.9
8536	89.45	135.57	6577.96	1967.3	-2038.27	615.53	1632985	492570.5	39°50'46.4	80°41'41.9	2129.18	163.196	1.15	0.11	-1.14
8625	89.23	136.61	6578.98	2056.01	-2102.38	677.25	1633046	492505.6	39°50'45.7	80°41'41.1	2208.77	162.144	1.19	-0.25	1.17
8715	87.6	139.95	6581.47	2145.87	-2169.52	737.11	1633105	492437.7	39°50'45.1	80°41'40.4	2291.32	161.234	4.13	-1.81	3.71
8804	89.29	143.46	6583.89	2234.81	-2239.33	792.23	1633159	492367.1	39°50'44.4	80°41'39.7	2375.34	160.517	4.38	1.9	3.94

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8893	89.63	143.55	6584.73	2323.7	-2310.88	845.17	1633211	492294.9	39°50'43.7	80°41'39.0	2460.58	159.911	0.4	0.38	0.1
8983	89.54	144.09	6585.38	2413.57	-2383.52	898.29	1633263	492221.5	39°50'43.0	80°41'38.3	2547.17	159.35	0.61	-0.1	0.6
9073	89.6	146.43	6586.06	2503.27	-2457.47	949.57	1633313	492146.9	39°50'42.2	80°41'37.6	2634.55	158.873	2.6	0.07	2.6
9162	89.51	145.63	6586.75	2591.89	-2531.28	999.3	1633362	492072.5	39°50'41.5	80°41'37.0	2721.39	158.457	0.9	-0.1	-0.9
9252	89.38	144.77	6587.62	2681.61	-2605.17	1050.66	1633412	491997.9	39°50'40.8	80°41'36.3	2809.06	158.036	0.97	-0.14	-0.96
9342	89.38	144.8	6588.59	2771.37	-2678.7	1102.56	1633463	491923.7	39°50'40.0	80°41'35.7	2896.73	157.628	0.03	0	0.03
9431	89.6	144.13	6589.39	2860.18	-2751.12	1154.28	1633514	491850.6	39°50'39.3	80°41'35.0	2983.46	157.239	0.79	0.25	-0.75
9521	89.78	139.75	6589.87	2950.13	-2821.97	1209.75	1633568	491779	39°50'38.6	80°41'34.3	3070.34	156.796	4.87	0.2	-4.87
9610	90.15	132.6	6589.93	3038.8	-2886.13	1271.34	1633629	491714	39°50'38.0	80°41'33.5	3153.74	156.227	8.04	0.42	-8.03
9699	89.32	133.94	6590.34	3127.04	-2947.13	1336.14	1633693	491652.2	39°50'37.4	80°41'32.7	3235.87	155.612	1.77	-0.93	1.51
9789	89.54	141.62	6591.24	3216.85	-3013.73	1396.57	1633753	491584.8	39°50'36.7	80°41'31.9	3321.6	155.137	8.54	0.24	8.53
9878	89.57	145.54	6591.93	3305.72	-3085.33	1449.4	1633805	491512.5	39°50'36.0	80°41'31.2	3408.82	154.837	4.4	0.03	4.4
9967	89.54	142.22	6592.62	3394.57	-3157.21	1501.85	1633856	491439.9	39°50'35.3	80°41'30.6	3496.22	154.56	3.73	-0.03	-3.73
10057	89.51	138.42	6593.37	3484.55	-3226.47	1559.31	1633913	491369.9	39°50'34.6	80°41'29.8	3583.51	154.206	4.22	-0.03	-4.22
10146	89.42	133.75	6594.2	3573.23	-3290.56	1621.02	1633973	491305	39°50'34.0	80°41'29.0	3668.17	153.774	5.25	-0.1	-5.25
10236	89.29	131.27	6595.21	3662.3	-3351.36	1687.35	1634039	491243.3	39°50'33.4	80°41'28.2	3752.17	153.276	2.76	-0.14	-2.76
10325	89.51	134.04	6596.14	3750.41	-3411.66	1752.8	1634104	491182.2	39°50'32.8	80°41'27.3	3835.59	152.807	3.12	0.25	3.11
10415	89.38	133.69	6597.01	3839.76	-3474.02	1817.68	1634168	491118.9	39°50'32.2	80°41'26.5	3920.82	152.381	0.41	-0.14	-0.39
10504	89.2	135.62	6598.12	3928.25	-3536.57	1880.98	1634230	491055.6	39°50'31.6	80°41'25.7	4005.67	151.993	2.18	-0.2	2.17
10593	88.37	139.65	6600	4017.09	-3602.3	1940.93	1634289	490989	39°50'30.9	80°41'24.9	4091.91	151.684	4.62	-0.93	4.53
10683	88.83	145.1	6602.21	4106.99	-3673.53	1995.84	1634343	490917.1	39°50'30.2	80°41'24.2	4180.69	151.485	6.08	0.51	6.06
10772	89.35	147.23	6603.62	4195.57	-3747.45	2045.38	1634392	490842.5	39°50'29.5	80°41'23.6	4269.3	151.374	2.46	0.58	2.39
10862	89.45	146.02	6604.56	4285.08	-3822.6	2094.89	1634440	490766.7	39°50'28.7	80°41'23.0	4358.99	151.276	1.35	0.11	-1.34
10951	89.23	143.23	6605.59	4373.86	-3895.15	2146.4	1634491	490693.5	39°50'28.0	80°41'22.3	4447.39	151.143	3.14	-0.25	-3.13
11041	89.48	142.43	6606.6	4463.79	-3966.87	2200.78	1634544	490621.1	39°50'27.3	80°41'21.6	4536.46	150.979	0.93	0.28	-0.89
11130	89.63	141.33	6607.29	4552.77	-4036.88	2255.72	1634598	490550.3	39°50'26.6	80°41'20.9	4624.35	150.805	1.25	0.17	-1.24
11220	89.29	141.14	6608.14	4642.76	-4107.05	2312.06	1634653	490479.4	39°50'25.9	80°41'20.2	4713.12	150.623	0.43	-0.38	-0.21
11309	89.35	145.75	6609.2	4731.63	-4178.52	2365.05	1634705	490407.2	39°50'25.2	80°41'19.5	4801.41	150.49	5.18	0.07	5.18
11399	89.48	146.74	6610.12	4821.2	-4253.34	2415.06	1634754	490331.8	39°50'24.5	80°41'18.9	4891.16	150.412	1.11	0.14	1.1
11488	89.38	146.06	6611	4909.76	-4327.47	2464.31	1634803	490257	39°50'23.7	80°41'18.2	4979.94	150.34	0.77	-0.11	-0.76
11577	89.57	143.03	6611.82	4998.55	-4399.95	2515.93	1634853	490183.8	39°50'23.0	80°41'17.6	5068.48	150.239	3.41	0.21	-3.4
11667	89.38	138.59	6612.64	5088.52	-4469.69	2572.78	1634909	490113.3	39°50'22.3	80°41'16.8	5157.26	150.075	4.94	-0.21	-4.93
11756	89.35	140.03	6613.63	5177.49	-4537.17	2630.8	1634966	490045.1	39°50'21.7	80°41'16.1	5244.71	149.893	1.62	-0.03	1.62
11846	89.57	141.21	6614.48	5267.48	-4606.73	2687.9	1635023	489974.8	39°50'21.0	80°41'15.4	5333.55	149.738	1.33	0.24	1.31
11935	89.72	137.24	6615.03	5356.43	-4674.11	2746.01	1635080	489906.6	39°50'20.3	80°41'14.6	5421.06	149.566	4.46	0.17	-4.46
12025	88.83	132.48	6616.17	5445.93	-4737.57	2809.78	1635143	489842.3	39°50'19.7	80°41'13.8	5508.13	149.328	5.38	-0.99	-5.29
12114	88.55	135.29	6618.2	5534.27	-4799.25	2873.9	1635206	489779.8	39°50'19.1	80°41'13.0	5593.93	149.086	3.17	-0.31	3.16
12204	89.11	139.96	6620.04	5624.09	-4865.7	2934.53	1635266	489712.6	39°50'18.4	80°41'12.2	5682.12	148.906	5.22	0.62	5.19
12294	89.17	140	6621.39	5714.07	-4934.62	2992.4	1635323	489642.9	39°50'17.7	80°41'11.5	5771.04	148.767	0.08	0.07	0.04

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12384	89.08	140.92	6622.77	5804.06	-5004.01	3049.69	1635379	489572.7	39°50'17.1	80°41'10.7	5860.1	148.64	1.03	-0.1	1.02
12473	89.05	142.58	6624.22	5893.03	-5073.9	3104.78	1635433	489502.1	39°50'16.4	80°41'10.0	5948.45	148.537	1.87	-0.03	1.87
12563	88.98	143.4	6625.77	5982.95	-5145.75	3158.94	1635486	489429.6	39°50'15.7	80°41'09.3	6038.02	148.455	0.91	-0.08	0.91
12653	89.2	142.22	6627.2	6072.87	-5217.44	3213.34	1635540	489357.2	39°50'14.9	80°41'08.6	6127.58	148.372	1.33	0.24	-1.31
12742	89.08	139.7	6628.53	6161.86	-5286.55	3269.38	1635595	489287.3	39°50'14.3	80°41'07.9	6215.83	148.266	2.83	-0.13	-2.83
12832	89.14	138.34	6629.93	6251.8	-5354.49	3328.4	1635653	489218.6	39°50'13.6	80°41'07.1	6304.66	148.135	1.51	0.07	-1.51
12921	89.05	138.43	6631.33	6340.72	-5421.02	3387.5	1635711	489151.3	39°50'12.9	80°41'06.4	6392.38	147.999	0.14	-0.1	0.1
13011	88.15	141.59	6633.53	6430.67	-5489.94	3445.31	1635768	489081.6	39°50'12.3	80°41'05.7	6481.48	147.889	3.65	-1	3.51
13100	89.02	144.35	6635.73	6519.57	-5560.96	3498.89	1635821	489009.9	39°50'11.6	80°41'05.0	6570.12	147.822	3.25	0.98	3.1
13190	89.08	143.98	6637.22	6609.39	-5633.92	3551.57	1635872	488936.2	39°50'10.8	80°41'04.3	6659.93	147.773	0.42	0.07	-0.41
13279	89.35	141.61	6638.44	6698.32	-5704.79	3605.38	1635925	488864.7	39°50'10.1	80°41'03.6	6748.58	147.707	2.68	0.3	-2.66
13369	89.26	141.18	6639.54	6788.3	-5775.12	3661.53	1635981	488793.6	39°50'09.4	80°41'02.9	6838.04	147.625	0.49	-0.1	-0.48
13458	89.23	140.8	6640.71	6877.29	-5844.27	3717.55	1636036	488723.7	39°50'08.7	80°41'02.2	6926.44	147.54	0.43	-0.03	-0.43
13548	89.17	140.36	6641.97	6967.29	-5913.79	3774.69	1636092	488653.4	39°50'08.1	80°41'01.4	7015.78	147.45	0.49	-0.07	-0.49
13638	89.26	139.1	6643.2	7057.26	-5982.45	3832.86	1636149	488584	39°50'07.4	80°41'00.7	7104.96	147.353	1.4	0.1	-1.4
13727	88.98	138.86	6644.57	7146.21	-6049.59	3891.26	1636207	488516.1	39°50'06.7	80°40'59.9	7193.02	147.25	0.41	-0.31	-0.27
13817	88.95	139.4	6646.19	7236.16	-6117.64	3950.14	1636265	488447.3	39°50'06.0	80°40'59.2	7282.11	147.15	0.6	-0.03	0.6
13907	89.11	140.21	6647.71	7326.14	-6186.37	4008.22	1636322	488377.8	39°50'05.4	80°40'58.4	7371.37	147.06	0.92	0.18	0.9
13996	89.11	140.01	6649.1	7415.12	-6254.65	4065.29	1636378	488308.8	39°50'04.7	80°40'57.7	7459.71	146.978	0.22	0	-0.22
14086	89.14	140.03	6650.47	7505.1	-6323.61	4123.11	1636435	488239	39°50'04.0	80°40'57.0	7549.04	146.895	0.04	0.03	0.02
14176	88.98	139.04	6651.95	7595.07	-6392.07	4181.51	1636492	488169.8	39°50'03.3	80°40'56.2	7638.3	146.808	1.11	-0.18	-1.1
14265	89.32	139.01	6653.27	7684.02	-6459.26	4239.86	1636550	488101.9	39°50'02.7	80°40'55.5	7726.48	146.719	0.38	0.38	-0.03
14354	89.35	138.49	6654.3	7772.97	-6526.17	4298.54	1636607	488034.2	39°50'02.0	80°40'54.7	7814.62	146.629	0.59	0.03	-0.58
14379	89.35	138.49	6654.58	7797.94	-6544.89	4315.11	1636624	488015.2	39°50'01.8	80°40'54.5	7839.37	146.603	0	0	0

HOLE AND CASING SECTIONS Ref Wellbore: Taylor C 2H-A AWB Ref Wellpath: Taylor C 2H-A AWP Proj: 14379'

String/Dian	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
17.5in Ope	25	558.34	533.34	25	558.33	0	0	-1.37	-0.02
13.375in C	25	558.34	533.34	25	558.33	0	0	-1.37	-0.02
12.25in Op	558.34	2278.33	1719.99	558.33	2273.92	-1.37	-0.02	-91.21	15.41
9.625in Cas	25	2212.66	2187.66	25	2208.33	0	0	-92.01	18.68
8.5in Open	2278.33	14379	12100.67	2273.92	6654.58	-91.21	15.41	-6544.89	4315.11
5.5in Casin	25	14379	14354	25	6654.58	0	0	-6544.89	4315.11

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TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			
Taylor C 2H	6575	-989.57	-247.79	1632136	493630.6	39°50'56.7	80°41'53.0	point	

Taylor C 2H-	6662.84	-6553.44	4305.12	1636614	488006.8	39°50'01.7"	80°40'54.6"	point
Taylor C 2H-	7000	-3771.51	2028.66	1634375	490818.7	39°50'29.2"	80°41'23.8"	rectangle
Taylor C LL	7008.33	-5.36	-79.83	1632317	494612.4	39°51'06.5"	80°41'50.8"	polygon
Taylor C LL	7008.33	-5.36	-79.83	1632317	494612.4	39°51'06.5"	80°41'50.8"	polygon
Taylor C LL	7008.33	-5.36	-79.83	1632317	494612.4	39°51'06.5"	80°41'50.8"	polygon

API: 4705101874

WELLPATH COMPOSITION Ref Wellbore: Taylor C 2H-A AWB Ref Wellpath: Taylor C 2H-A AWP Proj: 14379'

Log Name/	Start MD	End MD	Pos Unc	Model
	[ft]	[ft]		
01_Gyroda	25	512.33		BHI Generic gyro - northseeking (Standard)
02_APS EM	512.33	2191.33		BHI NaviTrak (Axial)
03_BH MW	2191.33	5060		NaviTrak (Magcorr+IFR1)
04_BH AT C	5060	14354		BHI AutoTrak Curve (IFR1, Short)
Projection	14354	14379		Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-051-01801-0000

BH Job #: 8957515

Rig: Precision 560

Duration: 1/12/2018-1/20/2018

Gyrodata MS Gyro <17-1/2> (50'-504')"

APS EM <12-1/4> (504')(590'-2183')"

BH MWD+IFR1 <8-1/2> (2191.3')(2292'-5060')"

BH AT Curve+IFR1 <8-1/2> (5060')(5155'-14354')"

Projected MD at TD: 14379'

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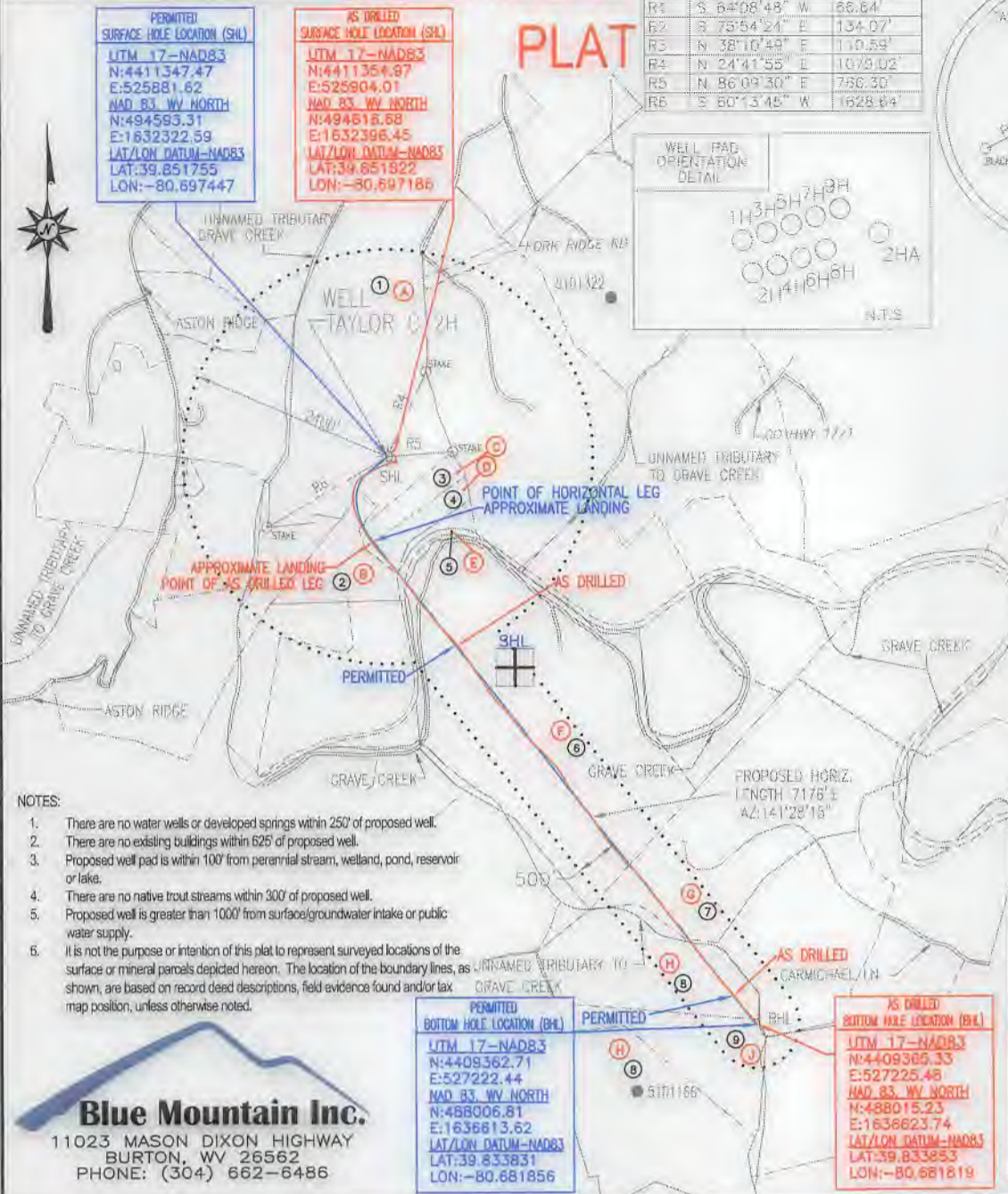
SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

AS DRILLED PLAT

LINE	BEARING	DISTANCE
R1	S 64°08'48" W	66.64'
R2	S 75°54'24" E	134.07'
R3	N 38°10'40" E	110.59'
R4	N 24°41'55" E	1078.02'
R5	N 86°09'30" E	756.30'
R6	S 60°13'46" W	1628.64'



03/29/2018



AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4411045.87
 E:525829.27
 NAD 83, WV NORTH
 N:493606.48
 E:1632134.25
 LAT/LON DATUM-NAD83
 LAT:39.849039
 LON:-80.698072

PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83
 N:4411053.21
 E:525829.53
 NAD 83, WV NORTH
 N:493630.55
 E:1632135.51
 LAT/LON DATUM-NAD83
 LAT:39.849105
 LON:-80.698067

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4409362.71
 E:527222.44
 NAD 83, WV NORTH
 N:488006.81
 E:1636613.62
 LAT/LON DATUM-NAD83
 LAT:39.833831
 LON:-80.681856

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4409365.33
 E:527225.48
 NAD 83, WV NORTH
 N:488015.23
 E:1636623.74
 LAT/LON DATUM-NAD83
 LAT:39.833853
 LON:-80.681819

- 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 pererals depicted 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.

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

LEGEND

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

FILE #: TAYLOR C 2H-AS DRILLED
 DRAWING #: TAYLOR C 2H-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



(+) 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 2H-AS DRILLED
 API WELL #: 47 51 01801
 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: 741.135±

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: 14,376.3'±

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

API: 4705101874

TAYLOR C 2H PAGE 2 OF 2 AS DRILLED

03/29/2019

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	ROBERT MORRIS SULLIVAN	4-10/15
3	ROBERT MORRIS SULLIVAN	4-10/22
4	DAVID SHAWN CONNER	4-10/16
5	MURRAY ENERGY	4-10/23
6	CNX LAND RESOURCES INC.	9-2/3
7	GEORGE B. & MARY L. CROW	9-2/6
8	CNX LAND, LLC	9-2/12.1
9	HARRY J. CRAWFORD ET UX - LIFE	9-2/12

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	ROBERT MORRIS SULLIVAN
C	ROBERT MORRIS SULLIVAN
D	DAVID SHAWN CONNER
E	CONSOL
F	OKEY D. & JANINA A. BURTON
G	ROSS AVENUE MINERALS 2012, LLC BELMONT ROYALTY AND MINERALS 2012, LLC
H	HARRY J. CRAWFORD ET AL
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PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83 N:4411347.47 E:525881.62 NAD 83, WV NORTH N:494593.31 E:1632322.59 LAT/LON DATUM-NAD83 LAT:39.851755 LON:-80.697447

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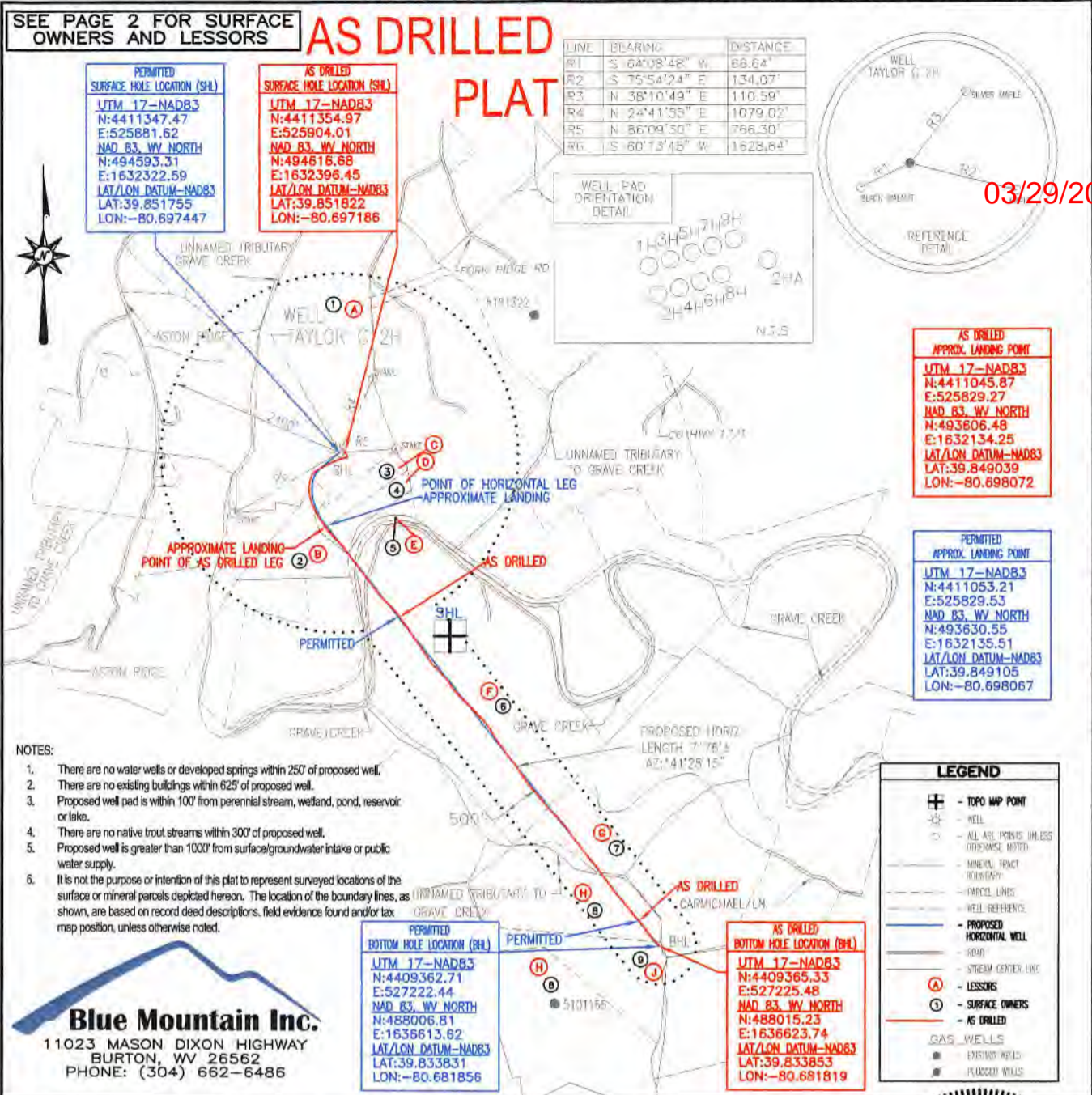
MARCH 13, 2018

API: 4705101874

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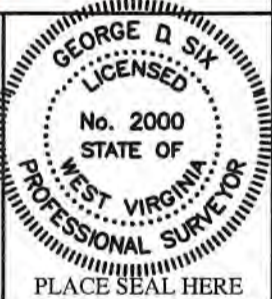
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Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600
City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

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