



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, March 07, 2018
WELL WORK PERMIT
Horizontal 6A / Plugging

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for TAYLOR C 7H
47-051-01805-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: TAYLOR C 7H
Farm Name: WILLIAMS OHIO VALLEY MIDSTREAM LLC
U.S. WELL NUMBER: 47-051-01805-00-00
Horizontal 6A / Plugging
Date Issued: March 7, 2018

Promoting a healthy environment.

03/09/2018

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. The plugging affidavit (WR-38) must reflect the plugging work for both, the original well bore and the side-tracked well bore.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date 1/18, 2018
2) Operator's
Well No. Taylor C 7H
3) API Well No. 47-51 - 1805

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow

5) Location: Elevation 1257' Watershed Middle Grave Creek - Grave Creek
District Clay County Marshall Quadrangle Glen Easton, WV

6) Well Operator Chevron Appalachia, LLC 7) Designated Agent _____
Address 700 Cherrington Parkway Address _____
Coraopolis, PA 15108

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name James Nicholson Name _____
Address PO Box 44 Address _____
Moundsville, WV 26041

10) Work Order: The work order for the manner of plugging this well is as follows:

See Attached

WR-38 - PLUGGING AFFIDAVIT - MUST BE
COMPLETED TO REFLECT THE PLUGGING OF
THE ORIGINAL WELL BORE IN ADDITION TO
THE WORK APPROVED UNDER THIS WELL-WORK
PERMIT TO PLUG THE SIDE TRACK.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *James Nicholson* Date 1/18/2018

03/09/2018

Taylor C 7H P&A Procedure

Cement Plug Set from ~465' (Precision 560 KB) to a maximum TOC of ~10' below GL

1. Skid to Taylor C 7H
2. N/D nite cap
3. TIH with 5'' DP
4. RU Cementers
5. Pressure test lines
6. Pump ~65 bbls of Class A ~~or G cement~~ *gwm*
7. POOH slowly (<30'/min)
8. Skid rig

Offline

1. Cut off 20'' landing ring, 13-3/8'' hanger, and 13 5/8'' Wellhead.
2. Install permanent monument (pipe to surface)
 - Cement remaining wellbore to surface
 - Minimum diameter of 6''
 - Pipe shall extend to a depth of 10' below GL into well
 - Pipe shall extend to a depth of >30'' above GL
 - Monument shall be sealed with concrete
 - API well identification number shall be stamped on monument with lettering no smaller than 1/2''

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Taylor C 7H ST01 Proposed P&A Schematic									
Permit# 47-051-01805							Ground Level Elev. (ft above SL): 1235		
Clay Twp, Marshall Co, WV							Depth Meas. // Air KB (ft above GL): 17		Highlands 14
1/11/2018 8:11							Depth Meas. // Fluid KB (ft above GL): 25		PD 560
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN FMC UH-2 13 5/8"	HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)					
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	40	40		26	40	Conductor 20" 78.67# X-52 Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
Air DRL with Mist and additives / 17.5" Hammer	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	CIBP Pressure Tested to 1,000 psi for 15 min 13-3/8" Casing	465	465	Plan is to set additional cement plug to bring cement top to 10' belowground level 9.0 PPG SBM Top = 495'	17.5	693	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2730 Collapse (psi) 1130 Yield (Jt Strength 1,000 lbs) 853 Capacity (bbl/ft) 0.1545 Annulus (bbl/ft) 0.1237 lbs air weight w/ water 59,297 0 Minimum 50 ft past deepest known fresh water	Surface Blend (Class A) Weight (ppg) 15.6 Yield (cf/sk) 1.2 Mix Fluid (gal/sk) 5.24 30% Excess Total Job Vol. (bbls) 95.3 Quantity (sk) 445.9 Total Mix Fluid (bbls) 55.6 Displacement (bbls) 84.6 Shoe Track Vol. (bbls) 3.1
		Pittsburgh Coal Seam	825 831	825 831	Cement Plug 1.) Cement Top verified by tagging 2.) Pressure tested to 1,000 psi for 15 min. Bottom = 939'				
		Top of Fish	939	939					
		Bottom of Fish	1,217	1,217					
		12-1/4" TD	1,977	1,977	9.0 PPG SBM	12.25	1977		

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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 47-051-01805 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 7H
Operator (as registered with the OOG) 49449935
Address 700 Cherrington Parkway City Coraopolis State PA Zip 15108

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4411357.60 Easting 525892.69
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

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)
Barite, fluid loss, emulsifiers, rheological control

Date permit issued 3/31/2015 Date drilling commenced 8/22/2015 Date drilling ceased 12/27/2017
Date completion activities began n/a Date completion activities ceased n/a
Verbal plugging (Y/N) Y Date permission granted 1/16/2018 Granted by James Nicholson

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

Freshwater depth(s) ft 765' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2248' 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

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API 47-051 - 01805 Farm name Williams Ohio Valley Midstream LLC Well number Taylor C 7H

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"	76'	N		N/A	Y
Surface	17 1/2"	13 3/8	542'	N	J-55 / 54.50#	N/A	N
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details Primary cement job on 13-3/8" casing no returns were seen during the job. CBL was run and determined Top of cement to be at 200'. DEP Inspector Jim Nielsen gave approval to cement remainder of annulus with pour string from surface. Utilized same Class A cement from 13-3/8" surface cement job. Pumped 34 bbls (191 ft3) with 5 bbls returned to surface.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)		Yield (ft ³ /sks)		Volume (ft ³)	Cement Top (MD)	WOC (hrs)
			Bulk Cement	Bulk Cement	Bulk Cement	Bulk Cement			
Conductor	Type 1							Surface	8
Surface	Class A	444	15.6	1.2	528			Surface	8+
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production									
Tubing									

Drillers TD (ft) 2,273 Loggers TD (ft) 2,273

Deepest formation penetrated Squaw Plug back to (ft) 465'

Plug back procedure Air rig drill to 2,273' and unable to run 9-5/8" casing 7H Temporarily abandoned until fluid rig arrive. Fluid rig attempt to cleanout to 2,273' and become stuck multiple times. Decision made to pump cement plug (2,060' - 960') and side track. Side track to 1,977' and bit trip. Pipe stuck at 1,217' unable to free run free point and back off at 938'. 200' of BHA lost in hole. Attempt to fix with jars, no success. Pump 444' cement plug from top of fish to 405'. Set C/BP at 465'.

Kick off depth (ft) N/A

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 Surface (1) on shoe track w/ stop collar & (1) per jt over coupling to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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 - 01805

Farm name Williams Ohio Valley Midstream LLC

Well number Taylor C 7H

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft	Perforated to MD ft	Number of Perforations	Formation(s)
	n/a				

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)
	n/a							

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
Dunkard	0	475'	0	475'	
Waynesburg Coal	475	800'	475	800'	
Pittsburgh Coal	800'	806'	800'	806'	
Conemaugh	806'	1289'	806'	1289'	Observed Red Rock in cuttings 950'-1000'
Allegheny	1289'	1499'	1289'	1499'	
Pottsville	1499'	1739'	1499'	1739'	Connection gas 600-1000 Units
Mauch Chunk	1739'	1846'	1739'	1846'	
Big Lime	1846'	1934'	1846'	1934'	
Burgoon	1934'	2154'	1934'	2154'	Hole produced 300 BBLS of water @ 2098'
Squaw	2154'	2273'	2154'	2273'	Hole produced 200 BBLS of water @ 2248'

Please insert additional pages as applicable.

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

Logging Company n/a
 Address _____ City _____ State _____ Zip _____

Cementing Company SEE ATTACHED
 Address _____ City _____ State _____ Zip _____

Stimulating Company n/a
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Jackie M. Scholer Telephone 412-865-3422
 Signature _____ Title Regulatory Compliance Team Lead Date 1/16/2018

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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API: 47-051-01805	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 7H
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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: 47-051-01805	Farm Name: Williams Ohio Valley Midstream LLC	Well Number: Taylor C 7H
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CEMENTING CONTRACTORS		
Name Baker Hughes	Name BJ Services	Name
Address 5373 West Alabama, Suite 300	Address 3415 Millinnium Boulevard SE	Address
City - State - Zip Houston, TX 77056	City - State - Zip Massillon, OH 44646	City - State - Zip

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Actual Wellpath Report

Taylor C 7H ST01 AWP Proj:
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #07
Area	Marshall County, WV	Well	Taylor C 7H ST01
Field	Marshall County	Wellbore	Taylor C 7H ST01 AWB
Facility	Taylor C Pad	Sidetrack from	Taylor C 7H AWP Proj: 2265' at 790.33 MID

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Smitgre01
Scale	0.999948	Report Generated	31/Dec/2017 at 17:16
Convergence at slot	0.77° West	Database/Source file	WellArchitectDB/Taylor C 7H ST01 AWP Proj_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting(US ft)	Northing(US ft)	Latitude	Longitude
Slot Location	14.14	42.72	1632359.46	494625.95	39°51'06.645"N	80°41'50.342"W
Facility Reference Pt			1632316.56	494612.38	39°51'06.506"N	80°41'50.889"W
Field Reference Pt			1644569.15	516963.83	39°54'48.972"N	80°39'17.476"W

WELLPATH DATUM			
Calculation method	Minimum curvature		Precision 560 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot		Precision 560 (RKB) to Mean Sea Level
Vertical Reference Pt	Precision 560 (RKB)		Precision 560 (RKB) to Mud Line at Slot (Slot #07)
MD Reference Pt	Precision 560 (RKB)		Section Origin
Field Vertical Reference	Mean Sea Level		Section Azimuth
			25.00ft
			1260.00ft
			25.00ft
			N 0.00, E 0.00 ft
			320.41°



Actual Wellpath Report

Taylor C 7H ST01 AWP Proj:
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #07
Area	Marshall County, WV	Well	Taylor C 7H ST01
Field	Marshall County	Wellbore	Taylor C 7H ST01 AWB
Facility	Taylor C Pad	Sidetrack from	Taylor C 7H AWP Proj: 2265' at 790.33 MD

WELLPATH DATA (40 stations) † = interpolated/extrapolated station

MID (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.001	0.000	323.730	0.001	0.00	0.00	0.00	1632359.46	494625.95	39°51'06.645"N	80°41'50.342"W	0.00	0.00	0.00
25.00	0.000	323.730	25.001	0.00	0.00	0.00	1632359.46	494625.95	39°51'06.645"N	80°41'50.342"W	0.00	0.00	0.00
58.33	0.300	323.730	58.333	0.09	0.07	-0.05	1632359.41	494626.02	39°51'06.646"N	80°41'50.342"W	0.90	0.90	-108.82
83.33	0.320	318.650	83.333	0.22	0.18	-0.14	1632359.33	494626.13	39°51'06.647"N	80°41'50.344"W	0.14	0.08	-20.32
108.33	0.140	310.930	108.333	0.32	0.25	-0.21	1632359.26	494626.20	39°51'06.648"N	80°41'50.344"W	0.73	-0.72	-30.88
133.33	0.090	344.350	133.333	0.38	0.28	-0.24	1632359.23	494626.25	39°51'06.648"N	80°41'50.345"W	0.31	-0.08	133.68
158.33	0.120	273.500	158.333	0.41	0.32	-0.26	1632359.20	494626.27	39°51'06.649"N	80°41'50.345"W	0.50	-0.12	-283.40
183.33	0.150	223.850	183.333	0.42	0.30	-0.30	1632359.16	494626.26	39°51'06.648"N	80°41'50.346"W	0.37	0.12	-198.60
208.33	0.080	192.720	208.333	0.40	0.25	-0.33	1632359.14	494626.21	39°51'06.648"N	80°41'50.346"W	0.31	0.12	-124.52
233.33	0.060	161.210	233.333	0.36	0.20	-0.31	1632359.14	494626.15	39°51'06.647"N	80°41'50.346"W	0.37	-0.28	-126.04
258.33	0.060	51.560	258.333	0.35	0.19	-0.31	1632359.15	494626.16	39°51'06.647"N	80°41'50.346"W	0.46	-0.08	-438.60
283.33	0.060	334.840	283.333	0.35	0.21	-0.31	1632359.16	494626.17	39°51'06.647"N	80°41'50.346"W	0.30	0.00	-308.88
308.33	0.070	31.260	308.333	0.38	0.24	-0.30	1632359.16	494626.19	39°51'06.648"N	80°41'50.346"W	0.25	0.04	-225.68
333.33	0.160	78.970	333.333	0.37	0.26	-0.26	1632359.20	494626.22	39°51'06.648"N	80°41'50.345"W	0.50	0.36	190.84
358.33	0.270	90.040	358.333	0.31	0.27	-0.17	1632359.29	494626.22	39°51'06.648"N	80°41'50.343"W	0.47	0.44	44.28
383.33	0.160	92.630	383.333	0.25	0.26	-0.08	1632359.45	494626.21	39°51'06.648"N	80°41'50.343"W	0.44	-0.44	10.36
408.33	0.140	98.540	408.333	0.20	0.26	-0.01	1632359.45	494626.21	39°51'06.648"N	80°41'50.343"W	0.10	-0.08	23.64
433.33	0.190	103.880	433.333	0.15	0.24	0.06	1632359.52	494626.19	39°51'06.648"N	80°41'50.341"W	0.21	0.20	21.36
458.33	0.210	74.190	458.333	0.10	0.25	0.14	1632359.51	494626.19	39°51'06.648"N	80°41'50.340"W	0.42	0.06	-118.76
483.33	0.150	71.180	483.333	0.07	0.27	0.22	1632359.68	494626.22	39°51'06.648"N	80°41'50.339"W	0.24	-0.24	-12.04
508.33	0.170	61.110	508.333	0.05	0.30	0.28	1632359.75	494626.24	39°51'06.648"N	80°41'50.338"W	0.14	0.08	-40.28
533.33	0.180	59.360	518.333	0.04	0.31	0.31	1632359.77	494626.26	39°51'06.648"N	80°41'50.338"W	0.11	0.10	-17.50
558.33	0.190	65.360	534.333	-0.11	0.60	0.89	1632360.36	494626.54	39°51'06.651"N	80°41'50.330"W	0.24	0.24	5.17
634.33	0.460	78.480	665.333	-0.16	0.66	1.05	1632360.52	494626.60	39°51'06.652"N	80°41'50.328"W	0.90	-0.87	42.32
665.33	0.440	33.850	696.333	-0.15	0.77	1.17	1632360.64	494626.71	39°51'06.655"N	80°41'50.325"W	1.07	-0.81	-143.97
696.33	0.380	29.300	728.32	-0.08	0.97	1.29	1632360.76	494626.90	39°51'06.655"N	80°41'50.323"W	0.21	-0.19	-14.22
728.33	0.270	23.780	790.32	0.06	1.28	1.45	1632360.93	494627.21	39°51'06.658"N	80°41'50.323"W	0.18	-0.18	-8.90
790.33	0.310	54.010	883.99	0.14	1.63	1.74	1632361.23	494627.56	39°51'06.661"N	80°41'50.319"W	0.17	0.04	32.27
884.00	0.690	14.090	975.99	0.46	2.31	2.08	1632361.57	494628.23	39°51'06.668"N	80°41'50.315"W	0.54	0.41	-43.39
976.00	2.560	20.730	1065.95	1.77	4.72	2.92	1632362.45	494630.63	39°51'06.692"N	80°41'50.304"W	2.08	2.08	7.38



Actual Wellpath Report

Taylor C 7H ST01 AWP Proj:
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #07
Area	Marshall County, WV	Well	Taylor C 7H ST01
Field	Marshall County	Wellbore	Taylor C 7H ST01 AWB
Facility	Taylor C Pad	Sidetrack from	Taylor C 7H AWP Proj: 2265' at 790.33 MD

WELLPATH DATA (40 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft/100ft)	(ft/100ft)	(ft/100ft)
1155.00	4.720	13.700	1154.76	4.951	10.14	4.49	1632364.09	494636.02	39°51'06.746"N	80°41'50.284"W	2.47	2.43	-7.90
1245.00	5.310	13.930	1244.42	9.64	17.78	6.37	1632366.07	494643.64	39°51'06.821"N	80°41'50.260"W	0.66	0.66	0.26
1334.00	5.510	12.780	1333.02	14.69	25.94	8.31	1632368.12	494651.77	39°51'06.902"N	80°41'50.235"W	0.26	0.22	-1.29
1423.00	4.550	15.400	1421.68	19.33	33.51	10.19	1632370.10	494659.32	39°51'06.977"N	80°41'50.211"W	1.11	-1.08	2.94
1513.00	2.760	22.490	1511.49	22.39	38.95	11.97	1632371.95	494664.74	39°51'07.030"N	80°41'50.188"W	2.05	-1.99	7.88
1602.00	1.970	20.540	1600.42	24.16	42.37	13.33	1632373.35	494670.73	39°51'07.064"N	80°41'50.171"W	0.89	-0.89	-2.19
1692.00	1.680	28.370	1690.37	25.42	44.98	14.50	1632374.55	494676.13	39°51'07.090"N	80°41'50.156"W	0.42	-0.32	8.70
1781.00	1.010	43.220	1779.35	26.01	46.70	15.65	1632375.73	494672.43	39°51'07.107"N	80°41'50.141"W	0.84	-0.75	16.69
1870.00	0.720	12.140	1868.34	26.45	47.81	16.31	1632376.40	494673.54	39°51'07.118"N	80°41'50.133"W	0.61	-0.33	-34.92
1937.00	0.720	12.140	1935.33	26.97	48.64	16.49	1632376.59	494674.36	39°51'07.126"N	80°41'50.130"W	0.00	0.00	0.00

TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
	(ft)	(ft)	(ft)	(US ft)	(US ft)			
Taylor C 7H BHL Rev-2	64/1.22	8294.74	-4658.57	1627812.09	502981.59	39°52'28.614"N	80°42'50.093"W	point
Taylor C 7H LP Rev-2	6575.00	1749.58	755.15	1633137.82	496365.22	39°51'23.936"N	80°41'40.659"W	point
Taylor C LL1	7008.33	-14.14	-42.72	1632316.56	494612.38	39°51'06.506"N	80°41'50.889"W	polygon
Taylor C LL2	7008.33	-14.14	-42.72	1632316.56	494612.38	39°51'06.506"N	80°41'50.889"W	polygon
Taylor C LL3	7008.33	-14.14	-42.72	1632316.56	494612.38	39°51'06.506"N	80°41'50.889"W	polygon



Actual Wellpath Report

Taylor C 7H ST01 AWP Proj:
Page 4 of 4

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #07
Area	Marshall County, WV	Well	Taylor C 7H ST01
Field	Marshall County	Wellbore	Taylor C 7H ST01 AWB
Facility	Taylor C Pad	Sidetrack from	Taylor C 7H AWP Proj: 2265' at 790.33 MD

WELLPATH COMPOSITION - Ref Wellbore: Taylor C 7H ST01 AWB				Ref Wellpath: Taylor C 7H ST01 AWP Proj:	
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore	
25.00	518.33	BH Generic gyro - northseeking (Standard)	01 Gyrodala MS Gyro <17-1/2"> (50'-510')	Taylor C 7H AWB	
518.33	790.33	BH Navittrak (Axial)	02 APS EM <12-1/4"> (510')(626'-2190') Proj:2265'	Taylor C 7H AWB	
790.33	1870.00	BH Navittrak (Axial)	03 BH Navittrak (1358.33)'xxxxx-	Taylor C 7H ST01 AWB	
1870.00	1937.00	Blind Drilling (std)	Projection to bit	Taylor C 7H ST01 AWB	

WW-4A
Revised 6-07

1) Date: 1/18/18
2) Operator's Well Number
Taylor C 7H

3) API Well No.: 47 - 51 - 01805

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Williams Ohio Valley Midstream LLC W</u>	Name <u>Consolidated Coal Company W</u>
Address <u>100 Teletech Drive, Suite 2</u>	Address <u>1000 Consol Energy Drive</u>
<u>Moundsville, WV 26041</u>	<u>Canonsburg, PA 15317</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 44</u>	Name _____
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Chevron Appalachia, LLC
 By: Jenny Hayes
 Its: Permitting Team Lead
 Address 700 Cherrington Parkway
Coraopolis, PA 15108
 Telephone 412-865-1533

Jenny Hayes
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 JAN 31 2018
 WV Department of Environmental Protection

Commonwealth of Pennsylvania
County of Allegheny

Notary Seal
 Commonwealth of Pennsylvania - Notary Seal
 Laura Savage, Notary Public
 Allegheny County
 My commission expires September 17, 2018
 Commission number 1285773
 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 18th day of January, 2018
Laura Savage Notary Public
 My Commission Expires September 17, 2018

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SURFACE OWNER WAIVER

Operator's Well
Number

Taylor C 7H

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received a copy of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____	_____	Date _____
Signature		By <u>Nicholas E. Minor</u>	Signature	Date <u>1/23/18</u>
		Its <u>Mgr of Ops Sr.</u>		

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JAN 31 2018
WV Department of
Environmental Protection

SI-01805P

WW-6AW
(1-12)

API NO. 47-051 - 01805
OPERATOR WELL NO. 7H
Well Pad Name: Taylor C

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Casey V. Saunders, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTAH	Easting:	<u>WV North State Plane - 1,663,795.975</u>
County:	<u>Marshall</u>		Northing:	<u>WV North State Plane - 494,589.279</u>
District:	<u>Clay</u>		Public Road Access:	<u>CR 17 Fork Ridge Rd</u>
Quadrangle:	<u>Glen Easton, WV 7.5'</u>		Generally used farm name:	<u>Taylor C</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Energy, Inc.</u></p> <p>By: <u>Casey V. Saunders</u></p> <p>Its: <u>Manager Coal-Gas Coordination</u></p> <p>Signature: <u>Casey V. Saunders</u></p> <p>Date: <u>01/10/2018</u></p>

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Office of Oil and Gas
JAN 31 2018
WV Department of Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

03/09/2018

51-01805F

WW-6AW
(1-12)

API NO. 47-51-01805
OPERATOR WELL NO. Taylor C 7H
Well Pad Name: Taylor C

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

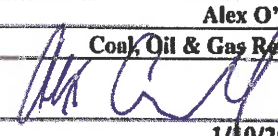
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Alex O'Neill, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	West Virginia	East:	<u>1,663,795.975 ft</u>
County:	<u>Marshall</u>	North State Plane	North:	<u>494,589.279 ft</u>
District:	<u>Clay</u>	NAD 27	Public Road Access:	_____
Quadrangle:	<u>GLEN EASTON</u>	Generally used farm name:	<u>TAYLOR</u>	_____
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that Chevron U.S.A. Inc. drills the well on West Virginia North State Plane NAD 27 coordinates of North 494,589.279 ft, East 1,663,795.975 ft in accordance with the Agreement between Consolidation Coal Company, Murray American Energy and Chevron U.S.A. Inc. dated 2014-11-19.**

*Please check the box that applies <input type="checkbox"/> SURFACE OWNER <input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance) <input type="checkbox"/> SURFACE OWNER (Impoundments/Pits) <input type="checkbox"/> COAL OWNER OR LESSEE <input checked="" type="checkbox"/> COAL OPERATOR <input type="checkbox"/> WATER PURVEYOR <input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD	FOR EXECUTION BY A NATURAL PERSON Signature: _____ Print Name: _____ Date: _____ FOR EXECUTION BY A CORPORATION, ETC. Company: <u>Consolidation Coal Company</u> By: <u>Alex O'Neill</u> Its: <u>Coal, Oil & Gas Relations Manager</u> Signature:  _____ Date: <u>1/10/2018</u> JAN 31 2018
---	--

WV Department of Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

03/09/2018

WW-9
(5/16)

API Number 47 - 51 - 01805
Operator's Well No. Taylor C 7H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Glen Easton, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes. The system will remove remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an offsite disposal facility. _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. air, oil based

-If oil based, what type? Synthetic, petroleum, etc. synthetic

Additives to be used in drilling medium? barite, fluid loss, emulsifiers, rheological control

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. removed offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Arden Landfill - Permit # - PA DEP 100172

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jenny Hayes
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

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JAN 31 2018

Subscribed and sworn before me this 18th day of January, 2018, 20

Laura Savage

Notary Public

WV Department of Environmental Protection
Commonwealth of Pennsylvania
County of Allegheny

Commonwealth of Pennsylvania - Notary Seal
Laura Savage, Notary Public
Allegheny County
My commission expires September 17, 2018
Commission number 1285773
Member, Pennsylvania Association of Notaries

My commission expires September 17, 2018

03/09/2018

Proposed Revegetation Treatment: Acres Disturbed 22.01 Prevegetation pH 5.5-6.3
 Lime Soil Test Tons/acre or to correct to pH 5.0-7.5
 Fertilizer type 10-20-20
 Fertilizer amount 1,000 lbs/acre
 Mulch Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Winter Rye - 170		Birdsfoot Trefoil - 15	
Plant - 8/15 - 2/28		Weeping Lovegrass - 45	
		Perennial Ryegrass - 10	
		Plant - 3/1 - 6/15 8/15 - 9/15	

Attach:
 Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nilsen
 Comments:

The engineering plans for this site have already been provided, and other wells on this site are currently being drilled.

Title: Oil & Gas Inspector Date: 1/18/2018

Field Reviewed? () Yes () No

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03/09/2018





Susan Laird
Permitting Assistant, HES Permitting

January 29, 2018

West Virginia DEP
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

RE: Taylor C 7H Plugging Application

Dear Mr. Brewer,

Enclosed is the Application for A Permit to Plug and Abandon for Taylor Pad C 7H. If you have any question please contact me at (412) 865-2504 or slaird@chevron.com

Sincerely,

Susan Laird

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Enclosures

Appalachian Mountain Business Unit
Chevron North America Exploration and Production Company
700 Cherrington Parkway
Coraopolis, PA 15108
Tel 412-865-2504
slaird@chevron.com

03/09/2018



Jackie M. Scholar
Regulatory Reporting Coordinator

January 15, 2018

CERTIFIED MAIL: 7016 0340 0000 4903 5464

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 7H

Dear Sir/Madam,

Enclosed here within please find one (1) Well Operator's Report of Well Work WR-35 and one (1) copy of the Directional Survey for **Taylor C 7H, (API 47-051-01805)**. The Taylor C 7H was not drilled to TD therefore no FracFocus or As Drilled Plat are attached.

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

Sincerely,
Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

Appalachian/Mountain Business Unit
Chevron North America Exploration & Production Company (a division of Chevron U.S.A. Inc.)
700 Cherrington Parkway, Coraopolis, PA 15108
Tel 412-865-3422
jscholar@chevron.com

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JAN 31 2018
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03/09/2018

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application *Signed by inspector*
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- ~~N/A~~ CHECK FOR \$100 IF PIT IS USED

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JAN 31 2018
WV Department of
Environmental Protection

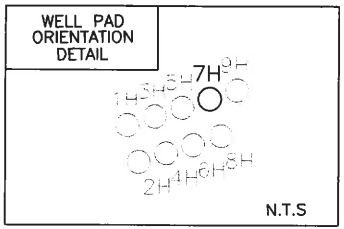
03/09/2018

BHL is located on topo map 109 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 8,434 feet south of Latitude: 39° 52' 30"

51-01805P

BHL is located on topo map 1,592 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 8,605 feet west of Longitude: 80° 40' 00"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS



LINE	BEARING	DISTANCE
R1	S 57°29'52" W	114.82'
R2	S 54°58'43" E	113.76'
R3	N 30°06'52" E	62.76'
R4	N 59°47'18" E	2490.97'
R5	N 75°28'03" E	2850.74'
R6	S 59°53'12" W	1676.88'

LEGEND

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

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4411357.60
 E:525892.69
 NAD 83, WV NORTH
 N:494625.95
 E:1632359.46
 LAT/LON DATUM-NAD83
 LAT:39.851846
 LON:-80.697317

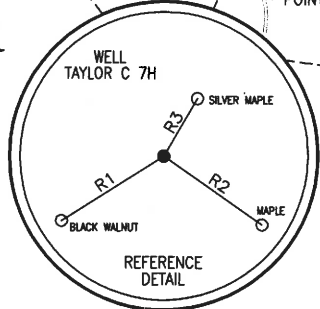
APPROX. LANDING POINT

UTM 17-NAD83(M)
 N:4411891.44
 E:526120.96
 NAD 83, WV NORTH
 N:496365.22
 E:1633137.82
 LAT/LON DATUM-NAD83
 LAT:39.856649
 LON:-80.694627

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 N:4413889.46
 E:524456.91
 NAD 83, WV NORTH
 N:503012.96
 E:1627786.84
 LAT/LON DATUM-NAD83
 LAT:39.874700
 LON:-80.714006

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well pad is within 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted 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

FILE #: TAYLOR C 7H
 DRAWING #: TAYLOR C 7H
 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: JANUARY 16, 2018
 OPERATOR'S WELL #: TAYLOR C 7H
 API WELL #: 47 51 01805P
 STATE COUNTY RECEIVED
 PERMIT

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

JAN 31 2018
 WV Department of Environmental Protection

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: 910.242±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,555'± TMD: 16,428.8'±
 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

03/09/2018

TAYLOR C

7H

PAGE 2 OF 2

	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	CARY B. & TRUDY J. WILSON	4-10/19.2
4	CARY B. & TRUDY J. WILSON	4-10/19.1
5	LEWIS A. ASTON JR. ET UX	4-10/6
6	LEWIS A. ASTON JR. ET UX	4-9/13
7	GARY M. BONAR ET UX	4-9/12
8	MARNIE KAY BUCHANAN	4-9/11
9	LUCILLE E. HICKS	4-8/37.1
10	THOMAS E. & LESLIE M. HICKS	4-8/37
11	JEFFREY L. RYAN	4-9/2.5

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	BRENDAN J. McCARTHY & JOSEPH E. BOJALAD, III
C	CARY & TRUDY WILSON
D	CARY & TRUDY WILSON
E	LEWIS A. ASTON & CATHY ASTON
F	LEWIS A. ASTON & CATHY ASTON
G	GARY M. & ELLEN L. BONAR HEIRS OF W. E. ALLEN
H	JAMES & MARNIE BUCHANAN
J	CHRISTA DAWN HICKS & LESLIE MAE HICKS
K	CHRISTA DAWN HICKS & LESLIE M. HICKS
L	JEFFREY L. RYAN

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RECEIVED
Office of Oil and Gas

JAN 31 2018

03/09/2018
WV Department of
Environmental Protection

JANUARY 16, 2018