

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 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Wednesday, November 09, 2016 WELL WORK PERMIT Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit approval for 513515 47-017-06753-00-00

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: 513515
Farm Name: HAYES, SHIRLEY J.

U.S. WELL NUMBER: 47-017-06753-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 11/9/2016

Promoting a healthy environment.

API Number: 17-06753

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO.	<u>47</u>	٠.	017	-	06753	0
OPERATO	R WEL	L NO			5135	15
Well Pad	l Nan	ie:			CPT	10

09/03

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

 Well Operator: EQT Product 	ction Company	*	200000	1 2:-		
	- On Company		306686 Operator ID	O17	5	286
			Operator ID	County	District	Quadrangle
2) Operator's Well Number:		513515		_Well Pad Name	. (CPT10
3) Farm Name/Surface Owner:	Shirley Ja	mes and Mar	orie Hayes	_ _Public Road Acc		Co. Rt. 4
4) Elevation, current ground:	977.0	Elevat	ion, proposed po	ost-construction:		
5) Well Type: (a) Gas	Oil		derground Stora	· ·		
Other						
(b) If Gas:	Shallow	•	Deep			
	Horizontal					Michael
6) Existing Pad? Yes or No:	no					10-1-
7) Proposed Target Formation(s)	Denth(s) Antici	inated Thister				10
7) Proposed Target Formation(s), Target formation is Marcellus at	a depth of 7020	haren Illicku	esses and Assoc	clated Pressure(s)):	
	2 200111 01 7020	Ton of	Marcellus 6998	50 feet and anticipa	ated target pressur	e of 2951 PSI
) Proposed Total Vertical Depth:			Warcellus 0396	7020		
) Formation at Total Vertical Dep	th:			Marcellus		
0) Proposed Total Measured Dep	oth:		•	10288		
1) Proposed Horizontal Leg Leng	jth			2,718		
Approximate Fresh Water Stra				48, 100		
Method to Determine Fresh W	ater Depth:			By offset wells		
Approximate Saltwater Depths				1212, 1442		
5) Approximate Coal Seam Depti			163, 202, 302, 3	07, 406, 607, 663	707 725	
6) Approximate Depth to Possible	Void (coal mine	e, karst, other) :	, , , , , , , , , , , , , , , , , , , ,	None report	
7)Does proposed well location co	ntain coal seam	s directly over	lying or		None report	
adjacent to an active mine?		-	Yes	Ν	No x	
(a) If Yes, provide Mine Info:	Name:		_	•		
	Depth:					
	Seam:					
	Owner:					

Page 1 of 3

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API NO.	<u>47</u>	-	017	 06753
OPERATO	R WE	LL NO		513515
Well Pag	d Nar	ne:		CPT10

CASING AND TUBING PROGRAM

18)

TYPE	Size	<u>New</u>	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u> Used		(lb/ft)	Drilling (ft)	Left in Well	Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	<u>(ft)</u> 40	38 C.T.S.
Fresh Water	13 3/8	New	MC-50	54.5	358	358	333 C.T.S.
Coal	-	-	_	T -	_	-	`_
Intermediate	9 5/8	New	A-500	40	3,031	3,031	1,205 C.T.S.
Production	5 1/2	New	P-110	20	10,288	10,288	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

MACO 10-1-15

TYPE	<u>Size (in)</u>	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2,184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3,160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10,112	•	1.27/1.86
Tubing							
Liners							

Packers

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

Note 2: Reference Variance 2014-17. (Attached)

Page 2 of 3

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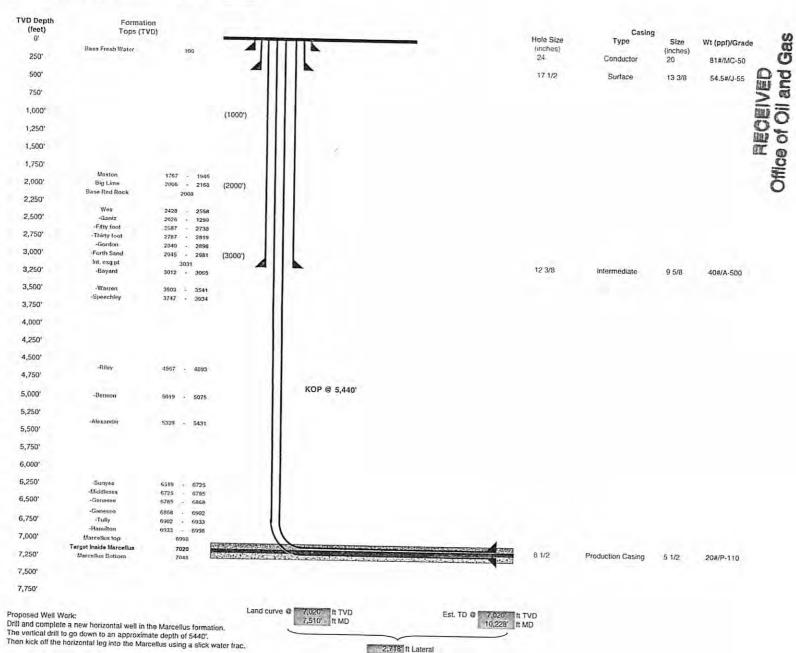
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API NO.	47		017	0
OPERATO	R WE	LL NO		513515
Well Pag	CPT10			

Describe proposed well work, including the drilling and plugging back	ck of any pilot I	nole:
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill	to go down to an	approximiate depth of 5440'
Then kick off the horizontal leg into the Marcellus using a slick water frac.		
 Describe fracturing/stimulating methods in detail, including anticipat 	ed max pressi	ure and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycle	ed from previously	fractured wells and obtained from
reshwater sources. This water is mixed with sand and a small percentage (less than 0.3)		
gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the i		
anticipated internal casing pressure is expected to average approximately 8500 psi, maxin approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximatel		And the second s
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per		of water per stage. Sand sizes
	11130	
21) Total area to be disturbed, including roads, stockpile area, pits, etc,	(acres):	29.06
22) Area to be disturbed for well pad only, less access road (acres):		24016
23) Describe centralizer placement for each casing string.	-	2.010
Surface: Bow spring centralizers - One at the shoe and one spaced e	very 500'.	
Intermediate: Bow spring centralizers- One cent at the shoe and one	spaced every !	500'.
Production: One spaced every 1000' from KOP to Int csg shoe		
24) Describe all cement additives associated with each cement type.	Surface (T)	pe 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries. 1.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the the	ement slurry to	a thief zone
ntermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low		
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss		
to a thief zone.		
Production:		
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening	time.	
0.3% CFR (dispersant). Makes cement easier to mix.		
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening	time.	
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.		
60 % Calcuim Carbonate. Acid solubility.		
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.		
25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole of	clean (Approximat	tely 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface	ce diminish, con	tinue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation.	. If there is fill, b	ring compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume	me likely indicat	es washouts that will not clean up.
ntermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciproc	cating one full join	nt until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an a	additional 5 minu	utes. If foam drilling, to enhance
nole cleaning use a soap sweep or increase injection rate & foam concentration	a.	
Production: Pump marker sweep with nut plug to determine actual hole washout. Ca	alculate a gauge h	oles bottoms up volume.
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are cle	ean. Check volu	me of cuttings coming across
the shakers every 15 minutes.		

^{*}Note: Attach additional sheets as needed.



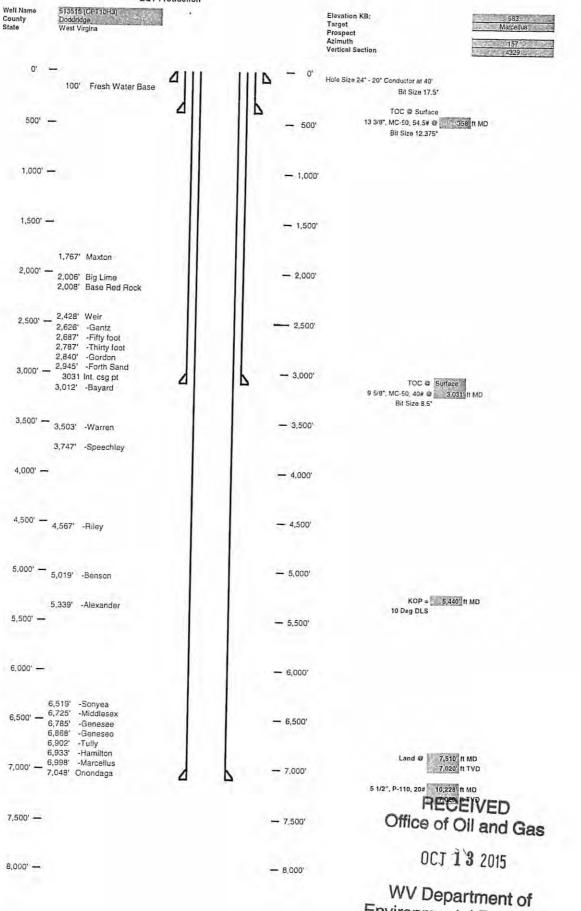


Environmental Protection

WV Department of

Gas

Well Schematic EQT Production



Environmental Protection
11/11/2016

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: CPT10

Doddridge County, WV

8/1/16

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WV Department of Environmental Protection Page 1 of 2

11/11/2016

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Doddridge County, WV prior to hydraulic fracturing at the following EQT wells on the CPT10 pad: 513513, 513514, 513515, 513516

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,900' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,300' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing. establishment of measures conventional well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

Office of Gill and Gas

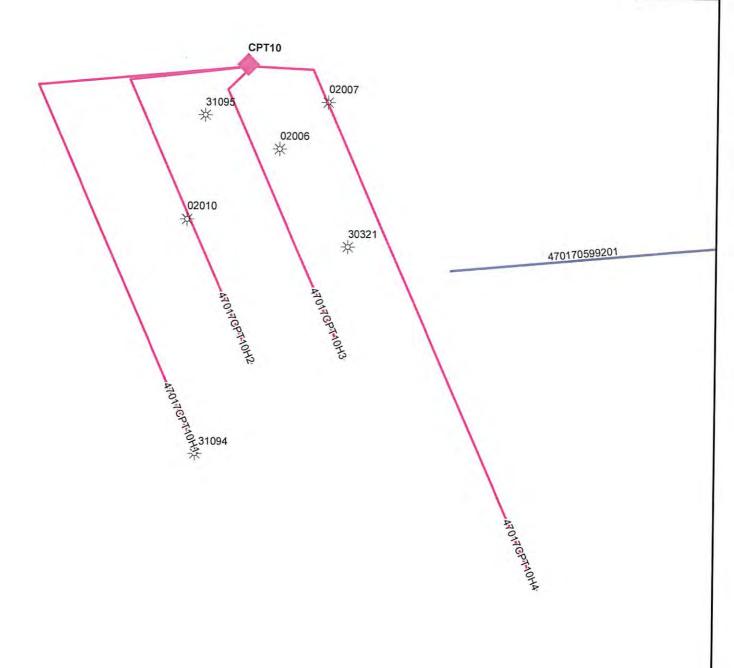
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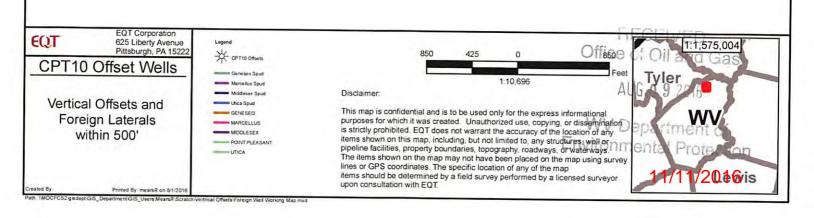
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Page 2 of 2

11/11/2016







WelliD	WellStatus	Comp Date	Permit	Operator	Longitude	Latitude	Datum Eleva	SS Depth	Total Depth 😙
4701702006	O&G	5/10/1919	02006	EPC	-80.6598	39.4114	0.0000	-2667.0000	2667.0000 🥳
4701702007	OIL	7/16/1920	02007	EPC	-80.6582	39.4126	0.0000	-1993.0000	1993.0000
4701702010	O&G	10/6/1925	02010	EPC	-80.6628	39.4096	0.0000	-1979.0000	1979.0000 🖫
4701730321	GAS		30321	WILLIAM MOSES	-80.6575	39.4089	925.0000	-1890.0000	2815.0000=
4701731094	OIL	3/21/1939	31094	CARNEGIE NAT GAS	-80.6625	39.4036	825.0000	-1216.0000	2041.0000
4701731095	OIL	6/25/1920	31095	CARNEGIE NAT GAS	-80.6622	39.4122	1133.0000	-1085.0000	2218.0000
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WV Department of Environmental Protection

625 Liberty Ave, Suite 1700 Pittsburgh PA 15222 www.eqt.com

TEL: (412) 395-3305 FAX: (412) 395-2156

John Centofanti Corporate Director, Environmental Affairs



(date)

[Conventional Well Operator] [address] [state]

RE: Doddridge County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (Centerpoint 10 pad) located in Doddridge County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,900' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,300' TVD).

EQT anticipates conducting hydraulic fracturing at the Centerpoint 10 pad during the [first, second, third, fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

- Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
- 3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

Sincerely, EQT Production

John Centofanti Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

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WV Department of Environmental Protection 11/11/2016n

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API No. 47 -	017	-		06753
Operator's W	ell No.			513515

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name EQT Production Company OP Code 306686
Watershed (HUC10) Broad Run of McElroy Creek Quadrangle Center Point
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes x No
Will a pit be used ? Yes: X No:
If so please describe anticipated pit waste: flowback water & residual solids
Will a synthetic liner be used in the pit? Yes X No If so, what ml.? 60
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037)
Reuse (at API Number Various)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used ? Yes, The closed loop system will remove drill cuttings from the drilling
fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize
and dnll the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based mud.
- If oil based, what type? Synthetic, petroleum, etc Synthetic mud
- If oil based, what type? Synthetic, petroleum, etc Synthetic mud Additives to be used in drilling medium? Air - biodegradable oil lubricant , detergent, defoaming, water. Water based mud - Bante, viscosifer.
alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates,
biodegradable oil lubricant, defoaming, carbonates.
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc Landfill
If left is sit and plan to calliffy what madium will be used? (Coment Line sawdust)
If left in pit and plan to solidify what medium will be used? (Cement, Line, sawdust) Landfill or offsite name/permit number? See Attached List
 If left in pit and plan to solidify what medium will be used? (Cement, Line, sawdust) n/a Landfill or offsite name/permit number? See Attached List
- Landfill or offsite name/permit number? See Attached List 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
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			Opera	tor's Well No.	513515
Proposed Revegetat	tion Treatm	ent: Acres Disturb	ed 40.46	_ Prevegetation pl	H <u>6.2</u>
Lime	3	Tons/acre	or to correct to pH	6.5	
Fertilize typ	e	Granular 10-2	20-20		
Fertilizer Ar	mount	1/3	lbs/acre (500 lbs minimum)		
Mulch		2	Tons/acre		
			Seed Mixtures		
	Temporary			Permanent	
Seed Type KY-31		lbs/acre 40	Seed Type Orchard Grass	! lb	s/acre
Alsike Clover		5	Alsike Clover	5	
Annual Rye		15			
Drawing(s) of road, lo Photocopied section of			• •		
Plan Approved by:	Mie seed 4	hael. Mulch	roff	,	
MNVZED	regula	Hiors,	Maintain & up	grade F	-N-5 as
Aerices	a cour	./		rations	ntrol
Fitle: C: 4 C	0.5	Inspecto	C Date: 10 -	1-/5	

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OCT 1 8 2015

WV Department of Environmental Protection Form WW-9

		Operato	513515	
Proposed Revegetation T	reatment: Acres Disturbed	40.46	Prevegetation pH	6.2
Lime	Lime 3 Tons/acre or to		correct to pH6.5	
Fertilize type	Granular 10-20-20			
Fertilizer Amoun	tlbs/acr	e (500 lbs minimum)		
Mulch	2	Tons/acre		
	Se	eed Mixtures		
Tem	porary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acr	е
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
	on,pit and proposed area for land			
Plan Approved by:	Daniel A.Fle	cle		
Comments: Prus	eed ind mulch	n only dis	turbed co	ias
IN WYDEP	Til pror de	ris buin	g bondut	ont
Diction, 1	containe upgradi	L leas 3 Co	trolsas	
necessay				
	. 0		-	
Title:	UN	Date: 6	1/16	
Field Reviewed? () Yes	1) No	

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JUN 2 8 2016

WV Department of Environment 11/2016 ection

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County/Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

BROAD STREET ENERGY LLC

37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

TRIAD ENERGY

P.O. Box 430
Reno, OH 45773
740-516-6021 Well
740-374-2940 Reno Office Jennifer
Nobel County/Jackson Township
Permit # 4037

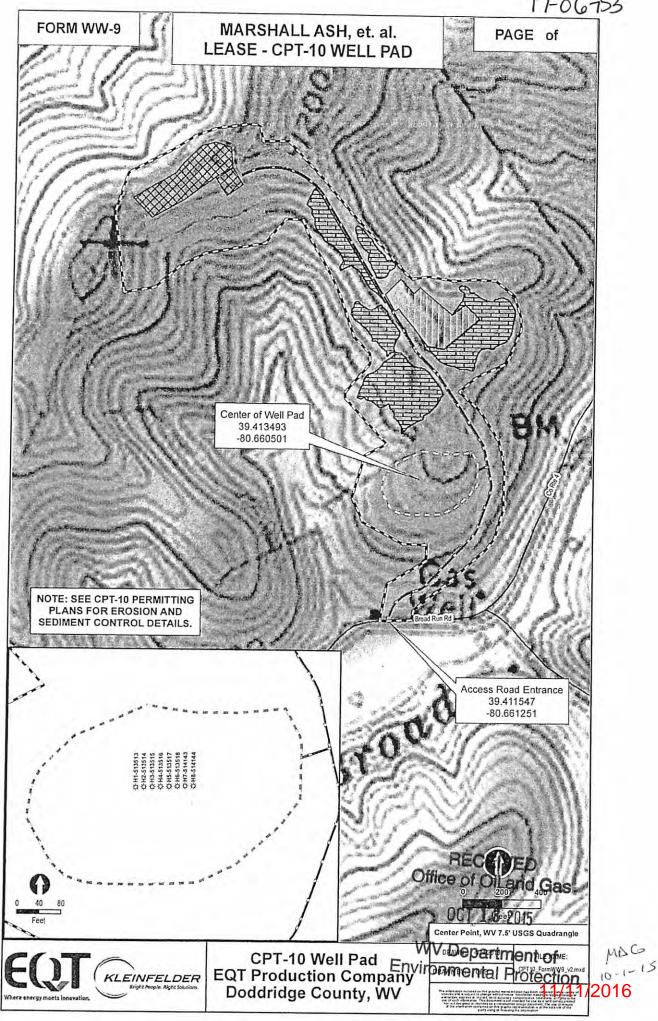
KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

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Office of Oil & Gas

SEP 0 3 2015

17-06-153





Site Specific Safety Plan

EQT CPT 10 Pad

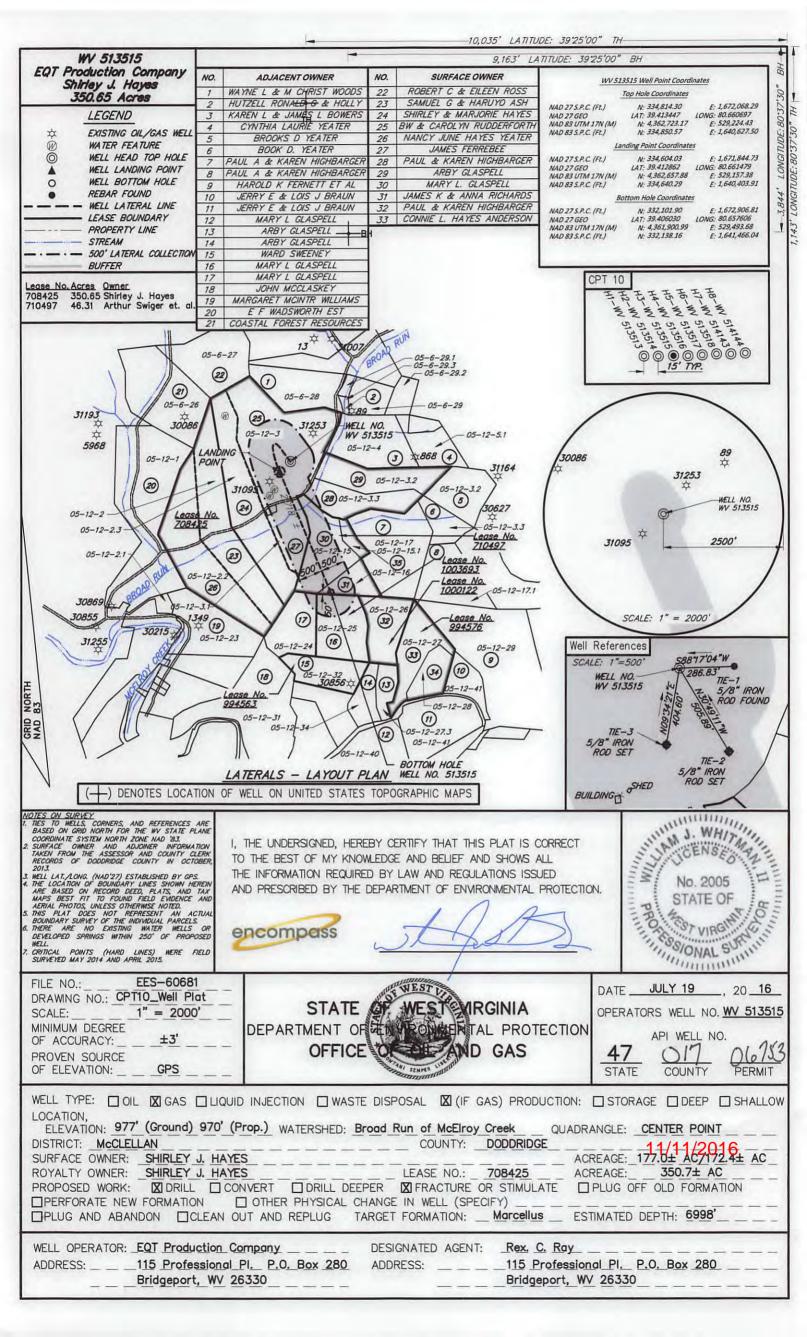
Center Point Quadrant

Doddridge County, WV

513515	For Wells:	
EQT Production Perent Hong Supercuss Title S-27-15 Date	Date Prepared:	August 11, 2015 WV Oil and Gas Inspector Title PECEIVED 10-Office of Oil and Gas Date OCT 1'3 2015

WV Department of

Environmental Protection /2016



WW-6A	1
(5/13)	

Operator's Well No.

513515

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
			Min 1/8 pd	
708425	Shirley J. Hayes	Carnegie Natural Gas Company		LB41/433
	Carnegie Natural Gas Company	Carnegie Production Company		LB186/61
Carnegie Prod	Carnegie Production Company/USX	Equitable Resources Inc.		See attached
	Equitable Resources Inc.	Equitable Production Company		DB274/471
	Equitable Production Company	EQT Production Company		DB281/346
			Min 1/8 pd	
710497	Arthur Swiger	EQT Production Company		LB256/340
E	Betty Joe Richardson	EQT Production Company		LB256/344
	Yvonne Skiles	EQT Production Company		LB256/348

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: Permitting Supervisor Page 1 of 1

PURCHASE AND SALE AGREEMENT

PURCHASE AND SALE AGREEMENT, dated as of May 27, 1999 (this "Agreement"), by and between USX CORPORATION, a Delaware corporation, ("USX") and EQUITABLE RESOURCES, INC., a Pennsylvania corporation (hereinafter referred to as "Buyer").

WHEREAS, USX owns directly or indirectly all of the outstanding capital stock or other evidence of an equity interest of the following companies (each a "Carnegie Company" and collectively the "Carnegie Companies"), which are involved in one or more of the production, gathering, transportation, treatment, distribution and sale of natural gas: (i) Carnegie Natural Gas Company, a Pennsylvania corporation, ("Carnegie"), (ii) Carnegie Interstate Pipeline Company, a Delaware corporation, ("CIPCO"), (iii) Carnegie Production Company, a Pennsylvania corporation, ("CPC"), (iv) Carnegie Natural Gas Sales, Inc., a Delaware corporation, ("CNGS") and (v) Carnegie Gas Storage, LLC, a Delaware limited liability company, ("CGS"); and

WHEREAS, USX desires to sell to Buyer and Buyer desires either for itself and/or one or more designated subsidiaries to purchase from USX one hundred percent (100%) of the capital stock and other evidence of equity interest in the Carnegie Companies;

NOW, THEREFORE, for and in consideration of the premises and the representations, warranties, covenants and agreements herein set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound, agree as follows:

· ARTICLE I DEFINITIONS

Unless otherwise specifically stated in the text of this Agreement, the following terms shall have the following meanings:

Section 1.1 The "1935 Act" shall mean the Public Utility Holding Company Act of 1935, as amended.

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SEP. 0 3 2015

Section 12.6 Names, Trademarks, Etc. USX and its Affiliates will discontinue use of the Carnegie and Apollo Names as promptly as practicable after the Closing.

IN WITNESS WHEREOF, the undersigned have cause this Agreement to be subscribed by their respective representatives duly authorized as of the date first above

USX CORPORATION

Deghini

Title: Vice Chairman - Marathon Group

EQUITABLE RESOURCES, INC.

Typed Name: David L. Forges
Title: Senior Vice President and Chief Financial Officer

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SEP 0 3 2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notice Certification:		301	Operator's Well No.	513515
			Well Pad Name:	CPT10
			-	
	s been given:	Code § 22-6A, the Operator has provided	d the required parties with t	the Netice Forms listed
	the provisions in West Virginia (Code § 22-6A, the Operator has provided	a the required parties with t	he Notice Forms listed
	WV	LITM NAD 92 Eastings		529,224.43
State:	Doddridge	UTM NAD 83 Easting: UTM NAD 83 Northing:	-	4,362,723.08
County: District:	McClellan	Public Road Access:		Co. Rt. 4
Quadrangle:	Center Point	Generally used farm name:	Shirley Jam	es and Marjorie Hayes
Watershed:	Broad Run of McElroy Cree		Stilley Jaine	as and Marjone Hayes
it has provide information of giving the	ded the owners of the surface de required by subsections (b) and e surface owner notice of entry to	d and shall contain the following informat escribed in subdivisions (1), (2) and (4), so (c), section sixteen of this article; (ii) that o survey pursuant to subsection (a), section of this article were waived in writing the subsection (but in the content of th	subsection (b), section ten of at the requirement was deer tion ten of this article six-a;	of this article, the med satisfied as a result or (iii) the notice
Pursuant to	그리고 얼마 얼마 있다면 그렇게 하면 하는 사람이 얼마를 살아 먹었다면 그렇다.	e Operator has attached proof to this Not equired parties with the following:	tice Certification	OOG OFFICE USE
*PLEASE	CHECK ALL THAT APPLY			ONLY
□ NOTICE	E OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECA		REQUIRED
□ NOTIC	E OF ENTRY FOR PLAT SU	URVEY or ▼ NO PLAT SURVEY N	WAS CONDUCTED	RECEIVED
NOTIC	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BEC NOTICE OF ENTRY FOR PLAT WAS CONDUCTED OR		RECEIVED/NOT REQUIRED
		WRITTEN WAIVER BY SURFA (PLEASE ATTACH)	ACE OWNER	
₩ NOTIC	E OF PLANNED OPERATION	NC	Received Office of Oil & Ga	RECEIVED
₩ PUBLI	C NOTICE		Office of Oil & Ga	RECEIVED
₩ NOTIC	E OF APPLICATION		SEP 0 3 2015	DECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of paragraph service the return receipt card or other postal receipt for certified mailing.

Certification	of	Notice is	hereby	given	:

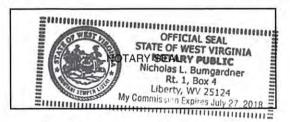
THEREFORE, I _________, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

 Well Operator:
 EQT Production Company
 Address:
 P.O. Box 280

 By:
 Victoria J. Roark
 Bridgeport, WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0040

 Telephone:
 304-848-0076
 Email:
 vroark@eqt.com



Subscribed and sworn before me this	day of	SENTENBER ,2015
#		Notary Public
My Commission Expires 7/27/2018		

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.

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WW-6A
(9-13)

API NO.	47	+	017	6	06753
OPERATO	R WEL	L NO.			513515
Well Pad Name:					CPT10

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing Date of Notice: 9/2/2015 Date Permit Application Fi	
Date of Notice: 9/2/2015 Date Permit Application Fi	led: 9/2/2015
Notice of:	
PERMIT FOR ANY WELL WORK CONSTRUCTION OF AN	OVAL FOR THE IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
	IETHOD OF DELIVERY THAT REQUIRES A ECEIPT OR SIGNATURE CONFIRMATION
for the construction of an impoundment or pit as required by requires a receipt or signature confirmation, copies of the app plat to each of the following persons: (1) The owners of record the surface tract or tracts overlying the oil and gas leasehold disturbance as described in the erosion and sediment control lessee, in the event the tract of land on which the well propose record of the surface tract or tracts overlying the oil and gas I construction, enlargement, alteration, repair, removal or aban water purveyor who is known to the applicant to have a water which is used to provide water for consumption by humans of work activity is to take place. (c)(1) If more than three tenants in the lands, the applicant may serve the documents required article one, chapter eleven-a of this code. (2) Notwithstanding unless the lien holder is the landowner. W. Va. Code R. § 35-	ng date of the application, the applicant for a permit for any well work or for a this article shall deliver, by personal service or by registered mail or by any plication, the erosion and sediment control plan required by section seven of rd of the surface of the tract on which the well is or is proposed to be located; being developed by the proposed well work, if the surface tract is to be used plan submitted pursuant to subsection (c), section seven of this article; (3) The sed to be drilled is located [sic] is known to be underlain by one or more coal easehold being developed by the proposed well work, if the surface tract is to idonment of any impoundment or pit as described in section nine of this rewell, spring or water supply source located within one thousand five or domestic animals; and (6) The operator of any natural gas storage field is in common or other co-owners of interests described in subsection (b) of upon the person described in the records of the sheriff required to be going any provision of this article to the contrary, notice to a lien holder is not any provision of this article to the contrary, notice to a lien holder is not section 15 of this rule. Well Plat Notice is hereby provided to: Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE Name: The Winston Love Family Trust 801 Masonic Park Rd. Marietta OH 45750
Name: Address:	See attached for additional coal owners. COAL OPERATOR Name: Address:
SURFACE OWNERS(s) (Road and/or Other Disturbance Name: Shirley James Hayes and Marjorie Hayes Address: 881 Broad Run Rd. Center Point, WV 26339	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Samuel Glen Ash and Haruyo Ash	Name: Shirley James Hayes Address: 881 Broad Run Road Center Point WV 26339 See attached for additional Surface Owners with Water Wells
SURFACE OWNER(s) (Impoundments/Pits) Name: Shirley James Hayes and Marjorie Hayes Address: 881 Broad Run Rd. Center Point, WV 26339	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:
See attached for additional impoundment/pit owners	*Please attach additional forms if necessary

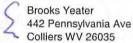
Additional Pit/Impoundment Owners

Samuel Glen Ash and Haruyo Ash 3616 Fox Glen PKWY Las Vegas, NV 89108

Coastal Forest Resources Company dba Coastal Timberlands Company 1772 Brushy Fork Road Buckhannon WV 26201

Additional Coal Owners

Marcella Ash 10854 Windham Parkman Road Garretsville OH 44231



Samuel G. Ash 3616 Fox Glen Parkway Las Vegas NV 89108

Betsy R. Faulkner 11919 Hickory Creek Dr. Fredericksburg VA 22407

Mildred J, Worstell 127 Bartley Road Burgettstown PA 15021-2255

Dawn Nelson, Heir of Martha Fife 121 Schwartz Street Weirton WV 26062

Shirley James Hayes 881 Broad Run Road Center Point WV 26339

Deetta E. Burris 256 Purdy Rd. Burgettstown, PA 15021

Rosemary Underwood 2365 Courtland Blvd Deltona, FL 32738-2539

Additional Surface Owners with Water Wells

Norman and Marilyn Ferrebee 152 Whipor Wheel Ln. Center Point WV 26339

Samuel G. Ash et ux 3616 Fox Glen Parkway Las Vegas NV 89108

June Hayes and Nancy Yeater 35 Ricks Dr. Center Point WV 26339 RECEIVED

THE SEP 18 110

Emission 11/11/2016

WW6-A

Additional Pit/Impoundment Owners

Samuel Glen Ash and Haruyo Ash 3616 Fox Glen PKWY Las Vegas, NV 89108

Coastal Forest Resources Company dba Coastal Timberlands Company 1772 Brushy Fork Road Buckhannon WV 26201

Additional Coal Owners

Marcella Ash 10854 Windham Parkman Road Garretsville OH 44231

Brooks Yeater 442 Harmon Creek Road Colliers WV 26035

Samuel G. Ash 3616 Fox Glen Parkway Las Vegas NV 89108

Betsy R. Faulkner 11919 Hickory Creek Dr. Fredericksburg VA 22407

Mildred J, Worstell 127 Bartley Road Burgettstown PA 15021-2255

Dawn Nelson, Heir of Martha Fife 121 Schwartz Street Weirton WV 26062

Shirley James Hayes 881 Broad Run Road Center Point WV 26339

Lawrence Underwood Jr. Address Unknown

Deeta E. Burris Address Unknown

Rosemary Underwood Address Unknown

Additional Water Purveyors

Norman and Marilyn Ferrebee 152 Whipor Wheel Ln. Center Point WV 26339

Samuel G. Ash et ux 3616 Fox Glen Parkway Las Vegas NV 89108

June Hayes and Nancy Yeater 35 Ricks Dr. Center Point WV 26339 ge addition man &

Office of Oil 8

WW-6A (8-13) API NO. 47 - 017 - 06153 0

OPERATOR WELL NO. 513515

Well Pad Name: CPT10

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section well well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the legislature of the legislature on the legislature on the legislature on the legislat volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding because dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47 - 017 - 017530

OPERATOR WELL NO. 513515

Well Pad Name: CPT10

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-bycase basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

| Received | Chief. Office of Oil and Gas | Chief. Office of Oil and Chief.

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

SEP 0 3 2015

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47 - 017 - 0 6753

OPERATOR WELL NO. 513515

Well Pad Name: CPT10

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Received
Office of Oil & Gas
SEP 0 3 2015

Notice is hereby given by:

Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-0041

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.

certify under penalty of law that I have personally examined and am familiar with the information submitted on this application
form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information
ballaya that the information is true accurate and complete

- Table	OFFICIAL SEAL STATE OF WEST VIRGINIA	By: Victoria Roark Its: Permitting Supervisor		
	Nicholas L. Bumgardner Rt. 1, Box 4	My Commission Expir	7/27/2018	Notary Public
EMy	Commission Expires July 27, 2	18	Te 17 - 10	

513515

STATE OF WEST VIRGINIA 17-66-153 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least	그리다 (이 아이지는 얼마나 아이는 사람이 아기에게			
Date of Notice: 8/12/2015 Date P	Permit Application Filed:	8/22/15		
Delivery method pursuant to West Virginia Code § 22-6A-	-16(b)			
HAND CERTIFIED MAIL	L RETURN			
DELIVERY RECEIPT REQU	ESTED			
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days p receipt requested or hand delivery, give the surface owner drilling a horizontal well: Provided, That notice given pursu of this subsection as of the date the notice was provided to subsection may be waived in writing by the surface owner and if available, facsimile number and electronic mail addr	r notice of its intent to enter upon uant to subsection (a), section ten o the surface owner: Provided, ho . The notice, if required, shall inclu	the surface owner's lar of this article satisfies t wever, That the notice ude the name, address,	nd for the purpose of he requirements requirements of this telephone number,	
Notice is hereby provided to the SURFACE OWNER(s):	7			
Name: Shirley James Hayes and Marjor	rie Hayes / Name:	Samuel Gl	en Ash and Haruyo Ash	
Address: 881 Broad	Run Rd. / Address:		3616 Fox Glen PKWY	
Center Point, W	/V 26339		Las Vegas NV 89108	
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2000	ontal well on the tract of land as f	follows:	529,224.43	
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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 processes or as proces

513515

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

	8/12/2015	Pate Permit Application F	ieu.	8/22/19		
Delivery metho	od pursuant to West Virginia Code § 2	22-6A-16(b)				
- HAND	CERTIFIED	MAIL RETURN				
DELIVE	RY RECEIPT R	MAIL RETURN EQUESTED				
Pursuant to W	. Va. Code § 22-6A-16(b), at least ten d	ays prior to filing a permi	application, ar	n operator shall,	by certified mail return	
receipt reques	ted or hand delivery, give the surface o	owner notice of its intent	o enter upon t	he surface owne	r's land for the purpose	of
drilling a horizo	ontal well: Provided, That notice given	pursuant to subsection (a	, section ten o	f this article satis	sfies the requirements	
of this subsect	ion as of the date the notice was provi	ded to the surface owner:	Provided, how	ever, That the no	otice requirements of th	is
subsection ma	y be waived in writing by the surface o	wner. The notice, if requi	ed, shall includ	le the name, add	lress, telephone number	,
and if available	e, facsimile number and electronic mai	address of the operator	ind the operato	or's authorized re	epresentative.	
		/				
	by provided to the SURFACE OWNER(s	/				
Name:	Coastal Forest Resources Compa	the state of the s				_
Address:	Coastal Timberl	ands Company Addre	ss:			_
	1771 Day	shy Fork Road				_
totali da Tari	Buckhannor					
Notice is herel	Buckhannor by given:	1 WV 26201	n Al-Sanna a			
Pursuant to W	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice	n WV 26201 is hereby given that the u			n intent to enter upon	
Pursuant to W	Buckhannor by given:	n WV 26201 is hereby given that the u			n intent to enter upon	
Pursuant to Wo	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice	n WV 26201 is hereby given that the unit horizontal well on the tra		llows:	n intent to enter upon	
Pursuant to Wo	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice ner's land for the purpose of drilling a	is hereby given that the thorizontal well on the tra		llows: Easting	n intent to enter upon	529,215.29
Pursuant to Wo the surface ow State: County:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice ner's land for the purpose of drilling a Doo	is hereby given that the chorizontal well on the tra WV ddridge	ct of land as fol	Easting	n intent to enter upon	4,362,722.93
Pursuant to Wi the surface ow State: County: District:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice oner's land for the purpose of drilling a Doo Me	is hereby given that the chorizontal well on the tra WV ddridge CClellan	ct of land as fol M NAD 83 Public	Easting Northing Road Access:		4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice oner's land for the purpose of drilling a Doo Mo Cente	is hereby given that the chorizontal well on the tra WV ddridge	ct of land as fol M NAD 83 Public	Easting		4,362,722.93
Pursuant to Wi the surface ow State: County: District:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice oner's land for the purpose of drilling a Doo Me	is hereby given that the chorizontal well on the tra WV ddridge CClellan	ct of land as fol M NAD 83 Public	Easting Northing Road Access:		4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice mer's land for the purpose of drilling a Doo Mo Cente Broad Run of McElroy Creek	is hereby given that the chorizontal well on the tra WV ddridge CClellan	ct of land as fol M NAD 83 Public	Easting Northing Road Access:		4,362,722.93 Co. Rt. 4
Pursuant to We the surface ow State: County: District: Quadrangle: Watershed: This Notice Sh	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice oner's land for the purpose of drilling a Doo Mo Cente Broad Run of McElroy Creek	www.dishereby given that the chorizontal well on the trawddridge cclellan	ct of land as fol M NAD 83 Public Generally use	Easting Northing Road Access: ed farm name:	Shirley James a	4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Shares	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice oner's land for the purpose of drilling a Doc Mo Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this no	wv 26201 is hereby given that the chorizontal well on the tra wv ddridge cclellan er Point	TM NAD 83 Public Generally use	Easting Northing Road Access: d farm name:	Shirley James a and if available,	4,362,722.93 Co. Rt. 4
Pursuant to Wood the surface own State: County: District: Quadrangle: Watershed: This Notice Shop Pursuant to Wood facsimile number to Wood facsim	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doo Mo Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the o	is hereby given that the chorizontal well on the tra WV ddridge cClellan er Point otice shall include the nanoperator and the operator	TM NAD 83 Public Generally use le, address, tele 's authorized re	Easting Northing : Road Access: ed farm name: ephone number, epresentative. A	Shirley James a and if available, dditional information	4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Sh. Pursuant to Wifacsimile numbrelated to hori	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice mer's land for the purpose of drilling a Doc Mo Cente Broad Run of McElroy Creek est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the control of the con	wv 26201 is hereby given that the chorizontal well on the tra wv ddridge cclellan er Point otice shall include the name operator and the operator at the WV Decretary, at the WV Decretary, at the WV Decretary.	TM NAD 83 Public Generally use le, address, tele 's authorized re	Easting Northing Road Access: d farm name: ephone number, epresentative. An	Shirley James a and if available, dditional information otection headquarters,	4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Sh. Pursuant to Wifacsimile numbrelated to hori	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doo Mo Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the o	wv 26201 is hereby given that the chorizontal well on the tra wv ddridge cclellan er Point otice shall include the name operator and the operator at the WV Decretary, at the WV Decretary.	TM NAD 83 Public Generally use le, address, tele 's authorized re	Easting Northing Road Access: d farm name: ephone number, epresentative. An	Shirley James a and if available, dditional information otection headquarters,	4,362,722.93 Co. Rt. 4
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Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Sh. Pursuant to Wifacsimile numbrelated to hori	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doc Mic Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the contact of the con	wv ddridge cClellan er Point cotice shall include the name operator and the operator in Secretary, at the WV Dd (304-926-0450) or by vis	TM NAD 83 Public Generally use le, address, tele 's authorized re	Easting	Shirley James a and if available, dditional information otection headquarters,	4,362,722.93 Co. Rt. 4 and Marjorie Hayes
Pursuant to Withe surface own State: County: District: Quadrangle: Watershed: This Notice Shipersuant to Wifacsimile number related to horiolocated at 601 Notice is herel	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doc Mic Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the control of the con	wv ddridge cClellan er Point core shall include the name operator and the operator in e Secretary, at the WV Dd (304-926-0450) or by visuan Company Authorites	Public Generally use 's authorized repartment of Eting www.dep.	Easting	Shirley James a and if available, dditional information otection headquarters, gas/pages/default.aspx	4,362,722.93 Co. Rt. 4
Pursuant to Withe surface ow State: County: District: Quadrangle: Watershed: This Notice Shipursuant to Wifacsimile numbered to horious at 601 Notice is here! Well Operator:	Buckhannon by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Dou Mo Cente Broad Run of McElroy Creek est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the or zontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 by given by: EQT Production 115 Professional Place,	wv ddridge cClellan er Point core shall include the name operator and the operator in e Secretary, at the WV Dd (304-926-0450) or by visuan Company Authorites	Public Generally use 's authorized repartment of Eting www.dep.	Easting	Shirley James a and if available, dditional information otection headquarters, gas/pages/default.aspx	4,362,722.93 Co. Rt. 4 Ind Marjorie Hayes Victoria Roa
Pursuant to Withe surface own State: County: District: Quadrangle: Watershed: This Notice Shipursuant to Wifacsimile number related to horious located at 601 Notice is here! Well Operator:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doc Mic Cente Broad Run of McElroy Creek est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and electronic mail address of the virginia Code § 25-6A-16(b), this not ber and el	wv ddridge cClellan er Point otice shall include the nan operator and the operator he Secretary, at the WV Dd (304-926-0450) or by vison Company Authorized Address	Public Generally use se, address, tele se, address, tele se partment of Elting www.dep.	Easting	Shirley James a and if available, dditional information otection headquarters, gas/pages/default.aspx	4,362,722.93 Co. Rt. 4 Ind Marjorie Hayes Victoria Roa Place, P.O Box 2
Pursuant to Withe surface own State: County: District: Quadrangle: Watershed: This Notice Shipersuant to Wifacsimile number related to horious located at 601 Notice is herely Well Operator: Address:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doo Mic Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the electr	wv ddridge cclellan er Point company Authority (304-926-0450) or by vis on Company Authority (WV 26330)	Public Generally use se, address, tele se, address, tele se partment of Elting www.dep.	Easting	Shirley James a and if available, dditional information otection headquarters, gas/pages/default.aspx	Victoria Roa Place, P.O Box 26 ridgeport, WV 263 304-848-00 vroark@eqt.co
Pursuant to Withe surface own State: County: District: Quadrangle: Watershed: This Notice Shipersuant to Wifacsimile numbershed to horiolocated at 601 Notice is herely Well Operator: Address: Telephone:	Buckhannor by given: est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a Doc Mic Cente Broad Run of McElroy Creek all Include: est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the or zontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 by given by: EQT Production 115 Professional Place, Bridgeport 3 vroarh	wv ddridge cClellan er Point core shall include the name operator and the operator in ESecretary, at the WV Data (304-926-0450) or by vision Company Authority, WV 26330 core shall include the name operator and the operator in ESecretary, at the WV Data (304-926-0450) or by vision Company Authority, WV 26330 core shall include the name operator and the operator in ESecretary, at the WV Data (304-926-0450) or by vision Company Authority, WV 26330 core in ESECRETARY Address (2014-848-0076) Telephological Telephological Core in the	Public Generally use se, address, tele s's authorized repartment of Etting www.dep.	Easting	Shirley James a and if available, dditional information otection headquarters, gas/pages/default.aspx	Victoria Roa Place, P.O Box 26 ridgeport, WV 263 304-848-00 Vroark@eqt.co

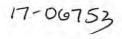
duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact 11/2016

RECEIVED Office of Oil and Gas

SEP 0,4 2015



WW-6A5 (1/12)

WV Department of

Operator Well No.

513515

Environmental Protection

		VIAL PROTEC	CTION, OFFICE OF C	JIL AND GAS
	NOTICE OF	PLANNED O	PERATION	
Notice Time R	Requirement: notice shall be provided no	later than the	filing date of permit a	application.
Date of Notice	EF 0 2 2015	Date Permit	Application Filed:	SEP 0 2 2015
Delivery meth	nod pursuant to West Virginia Code § 22-	-6A-16(c)		02. 0 2 20.0
		IAND ELIVERY		
return receipt re the planned ope required to be p drilling of a hori damages to the (d) The notices r of notice.	Va. Code § 22-6A-16(c), no later than the date equested or hand delivery, give the surface of eration. The notice required by this subsection provided by subsection (b), section ten of this izontal well; and (3) A proposed surface use are surface affected by oil and gas operations to required by this section shall be given to the supposed by this section shall be given to the supposed by the section shall be given to the section shall be given	wher whose land or shall include: (: article to a surfa nd compensation the extent the d	d will be used for the dri 1) A copy of this code so the owner whose land we the nagreement containing amages are compensab	illing of a horizontal well notice of ection; (2) The information will be used in conjunction with the gan offer of compensation for all little in the state of this chapter.
	y provided to the SURFACE OWNER(s) listed in the records of the sheriff at the time of	of notice).		
Name:	Shirley James Hayes and Marj		Name:	Samuel Glenn and Haruyo Ash
Address			Address:	3616 Fox Glen Pkwy.
	Center Point,			Las Vegas NV 89108
Notice is hereby Pursuant to Wes	st Virginia Code § 22-6A-16(c), notice is hereb	y given that the	undersigned well opera	ator has developed a planned
Pursuant to Wes operation on the State: County: District:	st Virginia Code § 22-6A-16(c), notice is hereb e surface owner's land for the purpose of drill W Doddridg McClella	ing a horizontal of the control of t	well on the tract of land 83 Easting: Northing: ad Access:	d as follows: 529,224.430000 4,362,723.080000 Co. Rt. 4
Pursuant to Wes	st Virginia Code § 22-6A-16(c), notice is hereb e surface owner's land for the purpose of drill W Doddridg	ing a horizontal of the control of t	well on the tract of land 83 Easting: Northing:	d as follows: 529,224.430000 4,362,723.080000
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relations.	st Virginia Code § 22-6A-16(c), notice is herebe surface owner's land for the purpose of drill MY Doddridge McClellai Center Point Broad Run of McElroy Creek I Include: It Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensately oil and gas operations to the extent the dated to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV.	ing a horizontal of UTM NAD of the Public Roat of the Generally of the William of the William of the William of the Secretary, of the William	well on the tract of land 83 Easting: Northing: ad Access: used farm name: ppy of this code section will be used in conjunct: containing an offer of opensable under article is at the WV Department	t as follows: 529,224.430000 4,362,723.080000 Co. Rt. 4 Shirley James and Marjorie Hayes (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional to f Environmental Protection
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided b horizontal well; a surface affected information relat headquarters, lo pages/default.as	st Virginia Code § 22-6A-16(c), notice is herebe surface owner's land for the purpose of drill MY Doddridge McClellan Center Point Broad Run of McElroy Creek I Include: It Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensate by oil and gas operations to the extent the dated to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV 1904.	UTM NAD Public Roa Generally Linclude: (1)A coner whose land witten agreement images are compart the Secretary, 25304 (304-926-	well on the tract of land 83 Easting: Northing: ad Access: used farm name: ppy of this code section will be used in conjunct containing an offer of of pensable under article s , at the WV Department -0450) or by visiting www	tas follows: 529,224.430000 4,362,723.080000 Co. Rt. 4 Shirley James and Marjorie Hayes ; (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional tof Environmental Protection ww.dep.wv.gov/oil-and-gas/
Pursuant to Wes operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to Wes to be provided be horizontal well; a surface affected information relatheadquarters, lo	st Virginia Code § 22-6A-16(c), notice is herebe surface owner's land for the purpose of drill MY Doddridge McClellai Center Point Broad Run of McElroy Creek I Include: It Virginia Code § 22-6A-16(c), this notice shall by W. Va. Code § 22-6A-10(b) to a surface own and (3) A proposed surface use and compensately oil and gas operations to the extent the dated to horizontal drilling may be obtained from cated at 601 57th Street, SE, Charleston, WV.	ung a horizontal volume to the company of the compa	well on the tract of land 83 Easting: Northing: ad Access: used farm name: ppy of this code section will be used in conjunct containing an offer of opensable under article section at the WV Department -0450) or by visiting www. ss: 115 Professiona	t as follows: 529,224.430000 4,362,723.080000 Co. Rt. 4 Shirley James and Marjorie Hayes (2) The information required ion with the drilling of a compensation for damages to the six-b of this chapter. Additional to f Environmental Protection
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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.

17-06753

RECEIVED Office of Oil and Gas

SEP 0,4 2015

WW-6A5 (1/12)

WV Department of Environmental Protection

Operator Well No.

513515

STATE OF WEST VIRGINIA

	DEPARTMENT OF ENVIRONM	LIVIAL PROTECTIO	IN, OFFICE OF U	IL AND GAS
	NOTICE O	F PLANNED OPER	ATION	
Notice Ti	ime Requirement: notice shall be provided n	o later than the filin	g date of permit a	pplication.
Date of N	Notice: <u>SEP 0 2 2015</u>	Date Permit App	olication Filed:	SEP 0 2 2015
Delivery	method pursuant to West Virginia Code § 2	2-6A-16(c)		021 0 2 277
30	ERTIFIED MAIL	HAND		
	ETURN RECEIPT REQUESTED	DELIVERY		
	to W. Va. Code § 22-6A-16(c), no later than the da			All and the second second
return reco the planned required to drilling of a damages to (d) The not of notice.	eipt requested or hand delivery, give the surface of operation. The notice required by this subsection be provided by subsection (b), section ten of the ahorizontal well; and (3) A proposed surface use to the surface affected by oil and gas operations thices required by this section shall be given to the mereby provided to the SURFACE OWNER(s)	owner whose land will on shall include: (1) A is article to a surface o and compensation agrothe extent the dama; surface owner at the	be used for the dril copy of this code se wner whose land wi eement containing ges are compensabl	ling of a horizontal well notice of ction; (2) The information ill be used in conjunction with the an offer of compensation for e under article six-b of this chapter.
at the add	Janua Banad ta aka amanada af aka aka difir akaka aka atau			
int the but	dress listed in the records of the sheriff at the tim	e of notice):		
Name: Co	astai Forest Resources Company dba Coastal Timberlar		e;	
Name: Co	astai Forest Resources Company dba Coastal Timberlar 1772 Bru	ds Co. Name shy Fork Rd. Addr		
Name: Co Address:	astai Forest Resources Company dba Coastal Timberlar 1772 Bru	ds Co. Name		
Name: Co: Address: Notice is h Pursuant to operation o	astai Forest Resources Company dba Coastal Timberlar 1772 Bru Buckhanno ereby given: o West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of dr	ds Co. Name Addrois No. WV 26201 by given that the under thing a horizontal well VV UTM NAD 83	ersigned well operat on the tract of land Easting:	as follows: 529,224.43000
Name: Co: Address: Notice is h Pursuant to operation o State: County:	astai Forest Resources Company dba Coastal Timberlar 1772 Bro Buckhanno ereby given: o West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of dr	ds Co. Name shy Fork Rd. Addr in WV 26201 by given that the unde illing a horizontal well VV UTM NAD 83	ersigned well operat on the tract of land Easting: Northing:	as follows: 529,224.43000 4,362,723.08000
Name: Co: Address: Notice is h Pursuant to operation of State: County: District:	nastai Forest Resources Company dba Coastal Timberlar 1772 Bro Buckhanno ereby given: o West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of dr	ds Co. Name shy Fork Rd. Addr in WV 26201 by given that the unde illing a horizontal well VV UTM NAD 83 ge an Public Road Ac	ersigned well operat on the tract of land Easting: Northing: cess:	as follows: 529,224.43000 4,362,723.08000 Co. Rt.
Name: Co: Address: Notice is h Pursuant to operation o State: County: District: Quadrangle	nastai Forest Resources Company dba Coastal Timberlar 1772 Bro Buckhanno Buckhanno Doddrio McClel e: Center Po	ds Co. Name shy Fork Rd. Addr on WV 26201 by given that the under illing a horizontal well VV UTM NAD 83 ge an Public Road Ac	ersigned well operat on the tract of land Easting: Northing: cess:	as follows: 529,224.43000 4,362,723.08000
Name: Co: Address: Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed This Notice Pursuant to to be provi horizontal v surface affe information headquarte	Buckhanno dereby given: o West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land lind lind for the surface owner's land lind gray be obtained for the surface owner's land for the purpose owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving land lind lind lind lind lind lind lind li	ds Co. Name Addrois Name V V V V V V V V V V V V V V V V V V V	ersigned well operate on the tract of land Easting: Northing: cess: farm name: If this code section; e used in conjunction taining an offer of coable under article sine WV Department	as follows: 529,224.43000 4,362,723.08000 Co. Rt. Shirley James and Marjorle Haye (2) The information required on with the drilling of a compensation for damages to the x-b of this chapter. Additional of Environmental Protection
Name: Co: Address: Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed This Notice Pursuant to to be provi horizontal v surface affe	Buckhanno dereby given: o West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land lind lind for the surface owner's land lind gray be obtained for the surface owner's land for the purpose owner's land for the purpose of driving the surface owner's land for the purpose of driving the surface owner's land for the purpose of driving land lind lind lind lind lind lind lind li	ds Co. Name Addrois Name V V V V V V V V V V V V V V V V V V V	ersigned well operate on the tract of land Easting: Northing: cess: farm name: If this code section; e used in conjunction taining an offer of coable under article sine WV Department	as follows: 529,224.43000 4,362,723.08000 Co. Rt. Shirley James and Marjorle Haye (2) The information required on with the drilling of a compensation for damages to the x-b of this chapter. Additional of Environmental Protection
Name: Co: Address: Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed This Notice Pursuant to to be provi horizontal v surface affe information headquarte	astai Forest Resources Company dba Coastal Timberlar 1772 Bro Buckhanno Buckhanno Doddric McClel E: Center Po d: Broad Run of McElroy Creek Broad Run of McElroy Creek Shall Include: O West Virginia Code § 22-6A-16(c), this notice shaded by W. Va. Code § 22-6A-10(b) to a surface of well; and (3) A proposed surface use and comperected by oil and gas operations to the extent the n related to horizontal drilling may be obtained for ers, located at 601 57th Street, SE, Charleston, Wault.aspx.	ds Co. Name Addrois Name V V V V V V V V V V V V V V V V V V V	ersigned well operation the tract of land Easting: Northing: cess: I farm name: If this code section; e used in conjunctic taining an offer of coable under article sine WV Department I) or by visiting www	as follows: 529,224.43000 4,362,723.08000 Co. Rt. Shirley James and Marjorle Haye (2) The information required on with the drilling of a compensation for damages to the x-b of this chapter. Additional of Environmental Protection
Name: Co: Address: Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed This Notice Pursuant to to be provi horizontal v surface affer information headquarte oages/defa	astai Forest Resources Company dba Coastal Timberlar 1772 Bro Buckhanno Dereby given: O West Virginia Code § 22-6A-16(c), notice is here on the surface owner's land for the purpose of dr McClel e: Center Po Broad Run of McElroy Creek Shall Include: O West Virginia Code § 22-6A-16(c), this notice shaded by W. Va. Code § 22-6A-10(b) to a surface of well; and (3) A proposed surface use and comperected by oil and gas operations to the extent the in related to horizontal drilling may be obtained for ers, located at 601 57th Street, SE, Charleston, Wellt.aspx.	ds Co. Name shy Fork Rd. Address: Name WV 26201 Shy given that the under shy given that the under shy gean and public Road Action Generally used shift Generally used shown agreement considerable are compensually and the Secretary, at the short of the short	ersigned well operation the tract of land Easting: Northing: cess: I farm name: If this code section; e used in conjunctic taining an offer of coable under article sine WV Department I) or by visiting www	as follows: 529,224.43000 4,362,723.08000 Co. Rt. Shirley James and Marjorie Haye (2) The information required on with the drilling of a compensation for damages to the x-b of this chapter. Additional of Environmental Protection w.dep.wv.gov/oil-and-gas/

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

September 1, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the CPT10 Well Site, Doddridge County

513513 CPT10H1 513514 CPT10H2 513515 CPT10H3 513516 CPT10H4 513517 CPT10H5 513518 CPT10H6 514143 CPT10H7 514144 CPT10H8 514145 CPT10H9 514146 CPT10H10 516403 CPT10H11 516404 CPT10H12

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from Permit # 04-2015-0842 applied for by EQT Production Company for access to the State Road for a well site located off of Doddridge County Route 4 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

EQT Production Company

CH, OM, D-4

File

Received
Office of Oil & Gas

SEP 0 3 2015

17-06753

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	Ingredient	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7

Received
Office of Oil & Gas

SEP 0 3 2015



CPT-10 WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

EQT PRODUCTION COMPANY

PLAN REPRODUCTION WARNING

WY STATE PLANE NAD 83 (FT)

334850.57

334850 57

334850 57

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134850 57

334514 30

134814 30

154514 10

234814.30

334814 30

334814 30

334514 30

Z4 - 25 RECLAMATION PLAN

EASTING

1840597 50

164061250

1640627 50

1640642 50

1640657.5

1640672 50

1640687.50

1640702.50

1672038 20

1672053 29

1672068 29

1672083.29

1672098.29

1672126.29

1672143 29

WELL HEAD LAYOUT

WELL HEAD

H1-513513

H2-513514

H3-513515

H4-513516

H5 513517

H6 513518

H7 514141

HB-514144

WELL HEAD H1-513513

H2-513514

H3-513515

H4-513518

HS-513518

H7-514143

H8.514144

CENTER POINT QUAD

LATITUDE (N)

39 413529

39.413530

39 413530

39.413531

39.413532

39 413532

39 413533

436272111

4362723 15

4362723 17

4362723 18

4362723 20

4362723 22

4362723 46

4362723 47

LONGITUDE IN

80 660625

80 550572

80 6605191

80 860466

80 860359

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	SHEET INDEX
PAGE NO.	DESCRIPTION
1	COVER PAGE & LOCATION MAP
2	SCHEDULE OF QUANTITIES
3	NOTES AND MASTER LEGEND
4	EXISTING CONDITIONS
- 5	TAX MAP
6 - 2	GEOTECH NOTES & DETAILS
9-10	SITE PLAN
11	WELL PAD CROSS SECTIONS & PROFILE
12	WATER CONTAINMENT FAD 1 CROSS SECTIONS & PROFILE
13	WATER CONTAINMENT PAD 2 CROSS SECTIONS & PROFILE
14 15	MAIN ACCESS ROAD CROSS SECTIONS AND PROFILE
16	TOPSOIL SPOIL AREA & MATERIAL SPOIL AREA CROSS SECTIONS & PROFILE
47	CULVERT PROFILES
15	CONSTRUCTION DETAILS
19	BERM DETAILS
20 - 21	STORMWATER DETAILS
22-23	EROSION AND SEDIMENT DETAILS

LIMIT OF	DISTURBANCE	
DESCRIPTION	AREA (ACRES)	AFFECTED TAX PARCELS
WELL PAD	7.94	
WATER CONTAINMENT PAD 1	2.38	
WATER CONTAINMENT PAD 2	2.42	
MAIN ACCESS ROAD	4.60	
WELL PAD ACCESS ROAD	0.30	HAVES SHIRLEY JAMES & MA
WATER CONTAINMENT PAD ACCESS ROAD	0.94	PARCEL ID 422909859
MATERIAL SPOIL AREA 1	2.98	
MATERIAL SPOIL AREA 2	2.57	
MATERIAL SPOIL AREA 1	2.69	
TOPSOIL SPOIL AREA 1	224	
TOTAL	29 06	
TOTAL WOODED AREA	19 10	
TOTAL LINEAR FOOTAGE OF MAIN ACCESS ROAD	1553	
TOTAL LINEAR FOOTAGE OF WELL PAD ACCESS ROAD	104	
TOTAL LINEAR FOOTAGE OF WATER CONTAINMENT PAD ACCESS ROAD	361	



PONED BY	JOSHUAD FREGOSI	WALE	# 20201
	REVISIONS		

12532	80 6602531
LITM ZONE 1	7N NAD 83 (M)
THING	EASTING
2721 13	529215.29
2723 15	529219.86
2721 17	529224 43
723 18	529229.00
2723 20	529232 57
7723 22	529238 14
2723.46	529242 71
2723.47	529247.26

	SHEET INDEX
PAGE NO.	DESCRIPTION
1	COVER PAGE & LOCATION MAP
- 2	SCHEDULE OF QUANTITIES
3	NOTES AND MASTER LEGEND
4	EXISTING CONDITIONS
- 5	TAX MAP
6.8	GEOTECH NOTES & DETAILS
9-10	SITE PLAN
11	WELL PAD CROSS SECTIONS & PROFILE
12	WATER CONTAINMENT FAD 1 CROSS SECTIONS & PROFILE
13	WATER CONTAINMENT PAD 2 CROSS SECTIONS & PROFILE
14-15	MAIN ACCESS ROAD CROSS SECTIONS AND PROFILE
16	TOPSOIL SPOIL AREA & MATERIAL SPOIL AREA CROSS SECTIONS & PROFILE
47	CULVERT PROFILES
16	CONSTRUCTION DETAILS
19	BERM DETAILS
20 - 21	STORMWATER DETAILS
22-23	EROSION AND SEDIMENT DETAILS

LIMIT OF	DISTURBANCE	
DESCRIPTION	AREA (ACRES)	AFFECTED TAX PARCELS
WELL PAD	7.94	
WATER CONTAINMENT PAD 1	2 38	
WATER CONTAINMENT PAD 2	2 42	
MAIN ACCESS ROAD	4.60	
WELL PAD ACCESS ROAD	0.30	HAVES SHIPLEY JAMES & MA
WATER CONTAINMENT PAD ACCESS ROAD	0.94	PARCEL ID 422909859
MATERIAL SPOIL AREA 1	2.98	
MATERIAL SPOIL AREA 2	2.57	1
MATERIAL SPOIL AREA 1	2.69	
TOPSOIL SPOIL AREA 1	224	
TOTAL	29 06	
TOTAL WOODED AREA	19 10	
TOTAL LINEAR FOOTAGE OF MAIN ACCESS ROAD	1553	
TOTAL LINEAR FOOTAGE OF WELL PAD ACCESS ROAD	104	
TOTAL LINEAR FOOTAGE OF WATER CONTAINMENT PAD ACCESS ROAD	361	

REVISIONS			
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ISSUED FOR CONSTRUCTION

SCALE VERIFICATION

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DUALE	1 - 500	SCALE	
	RIGHAL DRAW	NO SEE 6 22 + 3	4

COVER PAGE & LOCATION MAP

CPT-10 WELL PAD DODDRIDGE COUNTY WEST VIRGINIA



CONST	DII	CTI	ON

13185	NO.EST.NO.	
8-2516	TRUE DATE DE-	
0	WEENT REVISION.	
AER	ESCNED BY	
CRH	RAWN BY	
404	HECKED BY	ľ
MAG	DEMOVED BY	

PROJECT OWNER EQT PRODUCTION COMPANY CONTACT CHRIS METZGAR 113 PROFESSIONAL PLACE BRIDGEPORT, WV 26330 304 846,0075 CFFICE

PROJECT CONTACTS

LOCATION SURVEYOR

ENCOMPASS ENERGY SERVICES LLC CONTACT TYLER HASTINGS 1370 WASHINGTON PIKE SUITE 308 BRIDGEVILLE PA 15017 412 564 5215 OFFICE

ENGINEER OF RECORD

ENVIRONMENTAL/ **DELINEATION BOUNDARY**

TOPO SURVEYOR

BLUE MOUNTAIN AERIAL MAPPING CONTACT CRAIG FRY 11023 MASON DIXON HIGHWAY BURTON W 25552 304 662 2626 OFFICE 304 815 4890 CELL

		SITE LOCATION			
DESCRIPTION	NAD 63 (DEGREES)		UTM ZONE 17N NAD 83 (M)		
DESCRIPTION	LATITUDE IN	LONGITUDE (W)	NORTHING	EASTING	
CENTER OF WELL PAD	39 413548	89 660677	529210 80	4362725 00	
CENTER OF WATER CONTAINMENT PAD 1	29 4148441	80 661147	529169.80	4362868 68	
CENTER OF WATER CONTAINMENT PAD 2	39 4157421	80 660074	529261 79	4362968 66	
MAIN ACCESS ROAD ENTRANCE	39 411553	80 661248	529162.48	4362503.41	
WELL PAD ACCESS ROAD ENTRANCE	39 413704"	80 659463	529315 24	4362742 71	
WATER CONTAINMENT PAD ACCESS ROAD	39.414530	80 660394	529234.75	4352834 07	

FLOOD CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	NA
FLOODPLAIN SHOWN ON DRAWINGS	NO
FIRM MAP NUMBER FOR SITE	54017000450
ACREAGE OF CONSTRUCTION IN FLOCOPLAIN	NA:

ACCESS ROAD LENGTH (FI	EET)
DESCRIPTION	FEET
MAIN ACCESS FOAD	1.553
WELL PAD ACCESS ROAD	104
WATER CONTAINMENT PAD ACCESS ROAD	361
TOTAL	2.015

DESIGN CERTIFICATION

DESIGN CENTIFICATION
THE DRAWNOS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS
ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST
VIRGINAL CODE OF STATE RULES, DEPARTMENT OF ENVIRONMENTAL
PROTECTION OFFICE OF DIL AND GAS \$35.4-21 AND \$35.8.

MM-109 PERMIT ET PRODUCTION COMPANY WILL OBTAIN AN ENCROACHMENT PERMIT (MAI 109) FROM THE WEST VINGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

NORTH MERIDIAN REFERENCED TO NAD83 WEST VIRGINIA STATE PLANE NORTH ZONE

WELL LOCATION RESTRICTIONS
WELL PAD IS TO COMPLY WITH WELL LOCATION RESTRICTIONS OF MY CODE 22-64-12. THE PADS COMPLY WITH THE FOLLOWING.

3160-INDA AN EXETING WELL OR DÉVELOPED SPRING USED FOR HUMAN ON DOMESTIC ANNOLS 10. THE LESSURED FROM THE ESS FROM AN OCCUMED DINELLING OR BANN GREATER THAN 2005 FUED FOR FOLL TRY OR DURINY BESSURED FROM THE ESSURED FOR DESIZURANCE TO VERTANDE, PERSONNAL STEEMAN, ANTIFAN, OR ARTHRICAL LAKE, POND OR RESERVOIR 500 FROM EDGE OF DISTURBANCE TO NATURALLY REPRODUCING TROUT STREAMS 1000 FROM EDGE OF DISTURBANCE TO NATURALLY REPRODUCING TROUT STREAMS 1000 FROM EDGE OF DISTURBANCE TO ANY SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY

HEID .



PROJECT CONTACTS

PROJECT OWNER

EQT PRODUCTION COMPANY

CONTACT: CHRIS METZGAL

CPT-10 WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

EQT PRODUCTION COMPANY

PLAN REPRODUCTION WARNING THE PLANS HAVE BEEN CREATED ON ANSI D (22" x 34") SHEETS FOR REDUCTIONS, REFER TO GRAPHIC SCALE

THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING, ANY BET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

API# 1706751, 1706752, 1706753, 1706754

EASTING

1640597 50

1640612.50

1640627.50

1640642.50

1640657.50

1640672 50

1640687.50

1640702.50

EASTING

1672038.29

1672053.29

1672068.29

1672083.29

1672098.29

1672113.29

1672128.29

1672143.29

WELL HEAD LAYOUT

WV STATE PLANE NAD 83 (FT)

WV STATE PLANE NAD 27 (FT)

NORTHING

334850.57

334850.57

334850.57

334850.57

334850.57

334850.57

334850.57

334850 57

NORTHING

334814.30

334814.30

334814.30

334814 30

334814.30

334814.30

334814.30

WELL

HEAD

H1-513513

H2-513514

H3-513515

H4-513516

H5-513517

H6-513518

H7-514143

H8-514144

WELL

HEAD

H1-513513

H2-513514

H3-513515

H4-513516

H5-513517

H6-513518

H7-514143

H8-514144 334814.30

WELL HEAD LAYOUT

"WARNING": INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING

NAD 83 (DEGREES)

LATITUDE (N) LONGITUDE (W)

39.413533° N 80.660253° W

UTM ZONE 17N NAD 83 (M)

80.660625° W

80.660572° W

80.660519° W

80.660466" W

80 660413° W

80 660359° W

80.660306* W

EASTING

529215 29

529219.86

529224.43

529229.00

529233.57

529238.14

529242.71

529247.28

39.413529° N

39.413530° N

39,413530° N

39.413531° N

39.413531° N

39.413532° N

39.413532° N

NORTHING

4362723,13

4362723.15

4362723.17

4362723.18

4362723.20

4362723.22

4362723.46

4362723.47





	REVISIONS			
REV	DESCRIPTION	DSN	CHK	5.4
1000	DESCRIPTION	DWN	APP	DATE
,	09-22-2015 WYDEP COMMENTS	SAM	OWF	09-30-15
1,	ACTUAL MADE COMMENTS	SAM	24F	09-30-15
		-		
- 1		-	_	

ISSUED FOR PERMITTING NOT RELEASED FOR CONSTRUCTION



COVER PAGE & LOCATION MAP

CPT-10 WELL PAD DODDRIDGE COUNTY WEST VIRGINIA



Where energy meets innovation.

99/28/2015

RAWN BY AER

APPROVED WVDEP OOG 1/14/2016



PROPOSED COMPLETION PIT PROPOSED TOPSOIL STOCKPILE 3 ROPOSED FLOWBACK PIT PROPOSED SPOIL STOCKPILE 2 UR DOSSMINE ROPOSED SPOIL ROPOSED TOPSOIL STOCKPILE 2 STOCKPILE 1 PROPOSED TOPSOIL STOCKPILE 1 550 SEC # 18780 PROPOSED SPOIL STOCKPILE 3 THAT WILLIAM NO ARREST PROPOSED TOPSOIL STOCKPILE 4 808 PROPOSED WELL P. PROPOSED MAIN ACCESS ROAD

	ACCESS ROAD
PROPOSED W	ELL PAD
	900
NORTH MERIDIAN REFERENCED TO NADAS	AFFECTED TAY OF

WEST VIRGINIA STATE

PROPOSED COMPLETION PIT

PROPOSED SPOIL STOCKPILE 2

PROPOSED TOPSOIL STOCKPILE 2 PROPOSED SPOIL STOCKPILE 3



100

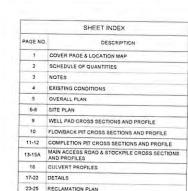
PROPOSED TOPSOIL STOCKPILE 3

PROPOSED FLOWBACK PIT

ROPOSED TOPSOIL STOCKPILE !

STOCKPILE 1

PROPOSED MAIN ACCESS ROAD



304,848,0075 OFFICE ENGINEER OF RECORD

KLEINFELDER
CONTACT: JOSH FARLEY, PE
W PE 6020711
230 EXECUTIVE DRIVE. SUITE 122
CRANBERRY TOWNSHIP, PA 16066
724.772.7072 OFFICE
724.772.7079 FAX

ENVIRONMENTAL/ **DELINEATION BOUNDARY**

KLEINFELDER CONTACT: MATTHEW ALBRIGHT 230 EXECUTIVE DRIVE SUITE 122 CRANBERRY TOWNSHIP, PA 16065 724.772,7072 OFFICE 724.772,7079 FAX

LOCATION SURVEYOR

ENCOMPASS ENERGY SERVICES, LLC CONTACT: TYLER HASTINGS 1370 WASHINGTON PIKE, SUITE 308 BRIDGEVILLE, PA 15017 412 564,5215 OFFICE

TOPO SURVEYOR

BLUE MOUNTAIN AERIAL MAPPING CONTACT: CRAIG FRY 11023 MASON DIXON HIGHWAY BURTON, WY 28562 304.682,2626 OFFICE 304.815.4890 CELL

	SI	TE LOCATION		
DESCRIPTION	NAD 83 (DEGREES)		UTM ZONE 17N NAD 83 (M)	
7.5 8.5 1.5 1.5	LATITUDE (N)	LONGITUDE (W)	NORTHING EASTING	
CENTER OF WELL PAD	39.413493° N	80.660501° W	4362718.95	529225.97
CENTER OF COMPLETION PIT	39.417796° N	80.664784° W	4363195.12	528855.49
CENTER OF FLOWBACK PIT	39.415813° N	80.660713° W	4362976,36	529206,76
MAIN ACCESS ROAD ENTRANCE	39.411547° N	80.661251° W	4362502,75	529162.22
WELL PAD ACCESS ROAD ENTRANCE	39.413638° N	80.659453° W	4362735,39	529316.13

FLOOD CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED	N/A
FLOODPLAIN SHOWN ON DRAWINGS	NO.
FIRM MAP NUMBER FOR SITE	54017000450

Call total prodis

CALL PA ONE CALL

SYSTEM TOLL FREE 811

1-800-242-1776

ACCESS ROAD)
LENGTH (FEET)
DESCRIPTION	FEET
MAIN ACCESS ROAD	3,100
PAD ACCESS ROAD	24
TOTAL	3,124

DESIGN CERTIFICATION

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE
DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN
ACCORDANCE WITH THE WEST VIRGINA CODE OF STATE RULES,
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS \$35-4-21 AND \$35-8.

MM-109 PERMIT

MM-109 PERMIT EQT PRODUCTION COMPANY WILL OBTAIN AN ENGROAGHMENT PERMIT (MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

WELL LOCATION RESTRICTIONS

WELL DAD IT OF RESTRICTIONS

WELL PAD IS TO COMPLY MITH WELL LOCATION RESTRICTIONS OF W. CODE 22-8A-12. THE PADS COMPLY WITH THE FOLLOWING RESTRICTIONS:

250 FROM AN EXISTING WELL OR DEVELOPED SPRING USED FOR HUMAN OR DOMESTIC ANIMALS TO WELL BEING DRILLED

825 FROM AN OCCUPIED DWELLING OR BARN GREATER THAN 2500 SF USED FOR POULTRY OR DAIRY MEASURED FROM THE CENTER OF

THE PAD

100 FROM EDGE OF DISTURBANCE TO WETLANDS, PERENNIAL STREAMS, NATURAL OR ARTIFICIAL LAKE, POND OR RESERVOIR

300 FROM EDGE OF DISTURBANCE TO NATURALLY REPRODUCING TROUT STREAMS

1000 FROM EDGE OF DISTURBANCE TO ANY SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY

