

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

August 18, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10303111, issued to EQT PRODUCTION COMPANY, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Operator's Well No: 515949

Farm Name: DALLISON, RICHARD

API Well Number: 47-10303111

Permit Type: Horizontal 6A Well

Date Issued: 08/18/2015

API Number:	
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PERMIT CONDITIONS47 10 3 0 3 1 1 1

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. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 6B (4/15)

4710303111

API NO. <u>47</u> - <u>103</u>		03111
DPERATOR WELL NO.	515949	
Well Pad Name:		BIG192

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

1) Well Operator: EQT Production Company			306686	103	4	254			
· · ·				Operator ID	County	District	Quadrangle		
2) Operator's Well No	umber:		515949		Well Pad Name	IG192			
3) Farm Name/Surfac	ce Owner : _	Rig	chard Dallison	et al	Public Road Ad	RT 20			
4) Elevation, current	ground:	1,452.0	post-construction:	1,452.0					
5) Well Type: (a) Gas Oil Underground Storage									
Oth	er					_ 			
(b) If	Gas:	Shallow	•	Deep					
	ı	Horizontal	<u> </u>						
6) Existing Pad? Yes	or No:	yes				Dm	H		
	Marcellus at a		•		sociated Pressure be 53 feet and antic	• •	3-15 ire at 2620 PSI		
Marcellus top at 7631					7655				
8) Proposed Total Ve9) Formation at Total	-				Marcellus				
10) Proposed Total M		`			13732				
11) Proposed Horizon	•				4.483				
12) Approximate Fres					549, 581, 7	780			
13) Method to Determ		-	-		By offset we				
14) Approximate Salt					2257, 2370	-			
15) Approximate Coa	-				743, 804, 919, 1009, 1240				
16) Approximate Dep	-		nine, karst, oth	er):		None repo	rted		
17)Does proposed we	ell location co	ntain coal sea	ams directly ov	erlying or		- -			
adjacent to an ac			-		'es	_ No <u>x</u>			
(a) If Yes, provide	e Mine Info:	Name:							
-		Depth:							
		Seam:							
		Owner:							

Page 1 of 3

Received
Office of Oil & Gas
AUG 10 2015

WW - 6B (4/15)

4710303111

API NO.	<u>47</u>	٠.	103		03111
OPERATO	A WEL	515949			
Well Pac	Nan	ne:	`		BIG192

CASING AND TUBING PROGRAM

н	וס

TYPE	<u>Size</u>	New	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
8	<u>(in)</u>	<u>or</u>		(lb/ft)	<u>Drilling (ft)</u>	Left in Well	Fill- up (Cu.Ft.)
		Used		<u> </u>		<u>(ft)</u>	
Conductor	30	New	MC-50	77	40	40	49 C.T.S.
Fresh Water	17 1/2	New	J-55	54.5	974	974	847 C.T.S.
Coal			_		-	-	_
Intermediate	12 3/8	New	A-500	40	2,765	2,765	1,079 C.T.S.
Production	5 1/2	New	P-110	20	13,732	13,732	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' loss than TD
Liners							

DMH 8-7-15

				VMN 4-3-75					
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)		
Conductor	30	26	0.312	•	18	Construction	1.18		
Fresh Water	17 1/2	13 3/8	0.38	2,730	2184	* See Note 2	1.21		
Coal									
Intermediate	12 3/8	9 5/8	0.395	3,950	3160	* See Note 2	1.21		
Production	8 1/2	5 1/2	0.361	12,640	10112	•	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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Office of Oil & Gas
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(1	0/1	4)

4710303111

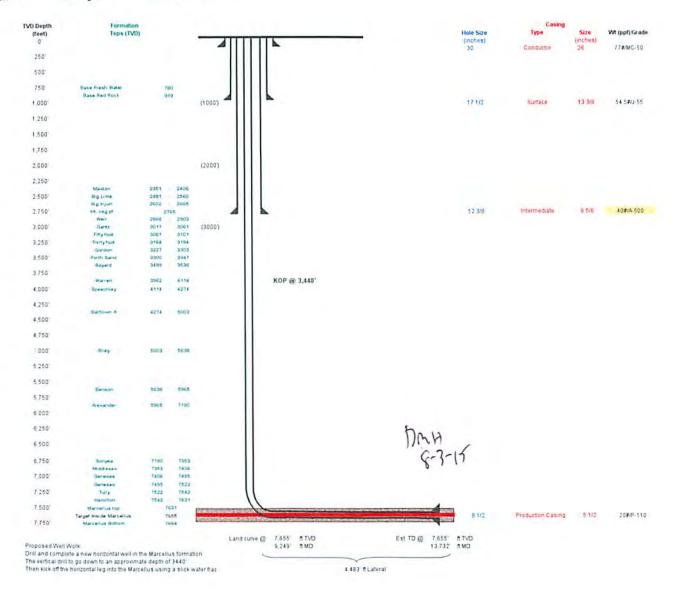
API NO.	<u>47</u>	٠.	103	·	03111
OPERATO	R WEI	LL NO			515949
Well Pag	d Nan	ne:			BIG192

19) Describe proposed well work, including the drilling and plugging bac	k of any pilot ho	le:
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill	to go down to an ap	proximate depth of 3440'.
Then kick off the horizontal leg into the Marcellus using a slick water frac.		
20) Describe fracturing/stimulating methods in detail, including anticipat	ed max pressure	e and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycle freshwater sources. This water is mixed with sand and a small percentage (less than 0.39).		
gelling agent, gel breaker, friction reducer, blocide, and scale inhibitor), referred to in the in		
anticipated internal casing pressure is expected to average approximately 8500 psi, maxing	 	
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per	•	water per stage. Sand sizes
valy from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sails per		
21) Total area to be disturbed, including roads, stockpile area, pits, etc,	(acres):	0.15
22) Area to be disturbed for well pad only, less access road (acres):		No Additional
23) Describe centralizer placement for each casing string.		
 Surface: Bow spring centralizers – One at the shoe and one spaced en Intermediate: Bow spring centralizers – One cent at the shoe and one spaced en 		00'
Production: One spaced every 1000' from KOP to Int csg shoe	opaced every oc	
24) Describe all cement additives associated with each cement type.	Surface (Typ	e 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the co	ement slurry to a	thief zone.
Intermediate (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	of whole drilling f	luid or cement slurry (not filtrate)
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.	Ŋ	MH 87-15
25) Proposed borehole conditioning procedures. <u>Surface: Circulate hole of the Condition of</u>	clean (Approximate	ly 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface	ce diminish, conti	nue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation	. If there is fill, brid	ng compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume	me likely indicates	s washouts that will not clean up.
intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprod	cating one full joint	until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an a	additional 5 minute	es. If foam drilling, to enhance
hole cleaning use a soap sweep or increase injection rate & foam concentration	n	
Production: Pump marker sweep with nut plug to determine actual hole washout. Ca	alculate a gauge ho	les bottoms up volume. Receiveu
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are cleanup	ean. Check volum	ne of cuttings coming across
Production: Pump marker sweep with nut plug to determine actual hole washout. Ca Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are cleanup cycle by pumping 3-5 bottoms.		Om 1 DUA

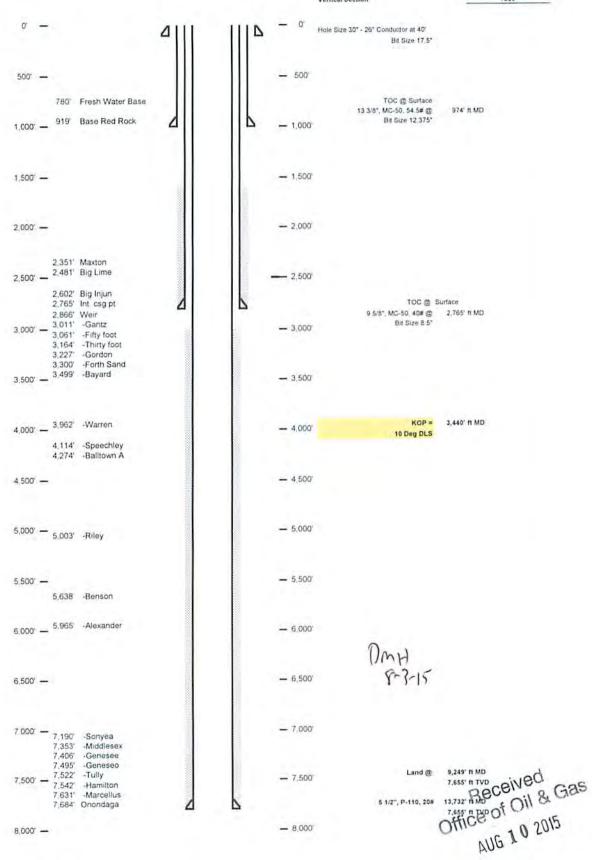
Well 515949 (BIG192H19)

EQT Production

Big Run Wetzel West Virgina Azimuth 136 Vertical Section 7009



Received Gas Office of Oil & Gas AUG 10 2015 Well Name County State 515949 (BIG192H19) Wetzel West Virgina Elevation KB: Target Prospect Azimuth Vertical Section 1465 Marcellus 136 7009





west virginia department of environmental protection

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

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

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701 4710303111

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type I (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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Office of Oil and Gas

APR 2 4 2015

WV Department 21/2015 Environmental Protection 15



west virginia department of environmental protection

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

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

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

IN THE MATTER OF A VARIANCE FROM)	ORDER NO.	2014 - 17	0 3	7	1	1
REGULATION 35 CSR § 4-11.4/11.5/14.1)						
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)						
THE OPERATIONAL)						
REGULATIONS OF CEMENTING OIL)						
AND GAS WELLS	j						

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Chief.

Gas may approve different cement blends upon the well operator providing satisfactory proof

3 0 3 1 1 1

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection easing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

> RECEIVED Office of Oil and Gas

> > APR 2 4 2015

WV Department 08/21/2015 Environmental Protection

WW-9 (2/15)

	Page		1	of	2
API No. 47	-	0	-		03111
Operator's !	Well N	10.			515949

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

Fluids/Cuttings Disposal & Reclamation Plan

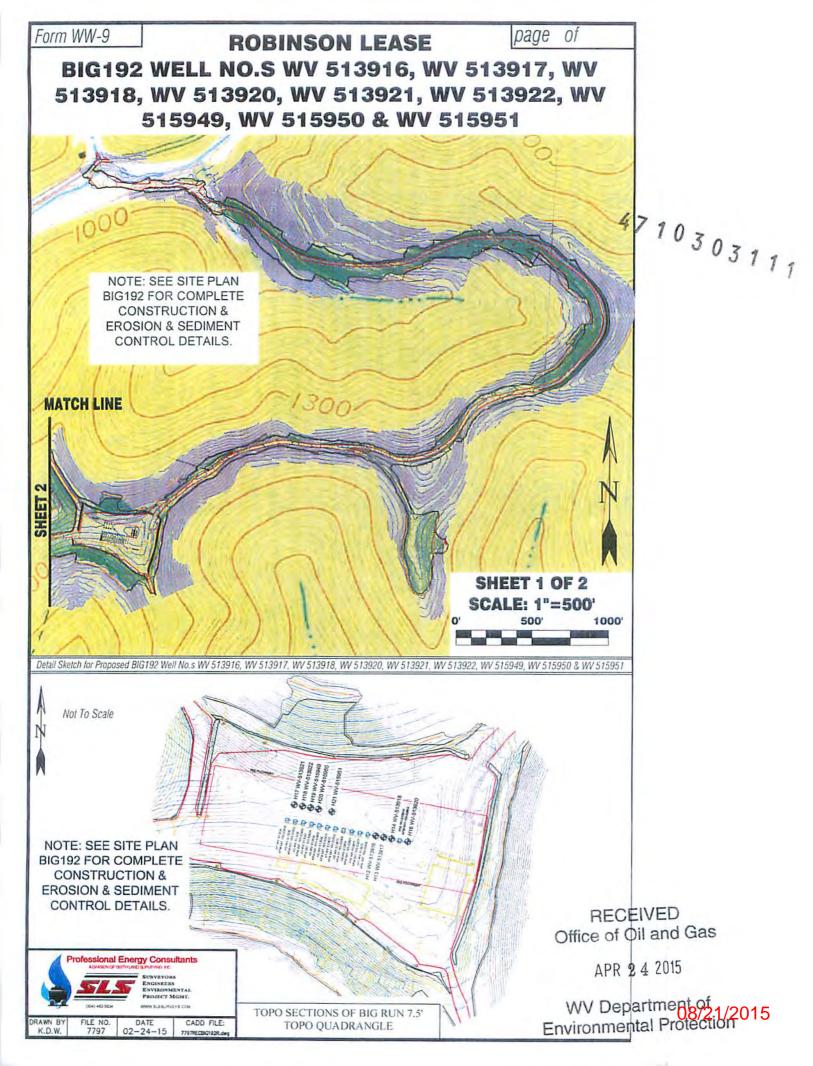
Operator Name	EQT Production Company	OP Code	306686	
	Aunty Run of South Fork Fishing Creek	Quadrangle	Big Run 7.5	
The state of the s	more than 5,000 bbls of water to compl		ork? Yes x No _	_
Will a pit be used ? Yes	: X No:			
If so please des	cribe anticipated pit waste:	flowback water & re	sidual solids	
Will a synthetic	liner be used in the pit? Yes X	NoIf so	o, what ml.?60	
Proposed Disp	Other (Explain	Various NWW-9 for disposal loc		<u>)</u>)
Will closed loop system fluid. The drill cuttings an	be used ? Yes, The closed loop system ethen prepared for transportation to an off-s		rom the drilling	
Drilling medium anticipa	ated for this well (vertical and horizontal)	? Air, freshwater, oil bas	ed, etc.	
	of the wellbore (surface, intermediate, and pilot). Water based of			_
and drill the intermediate section. The	pilot hole, curve, and lateral sections will be drilled with either air	, water based mud, or oil based mud		_
Additives to be used in alkalinity control, lime, filtratio	n control, deflocculates, biodegradable oil lubrican ase oil, emulsifier, salt, lime, viscosifer, alkalinity co	oncant, detergent, defoaming, water t, defoaming, walnut shell, sa	Water based mud - Bante, viscosife It, x-cide, carbonates.	<u>-</u>
Drill outtings disposal		offsite etc	Landfill	
	d plan to solidify what medium will be used? (Cen		n/a	3
A ALL AND A STATE OF THE STATE	site name/permit number?	See Attached	List	_
any West Virginia solid wa disclose where it was prop		nin 24 hours of rejection an	d the permittee shall also	
on August 1, 2005, by the Of	nd and agree to the terms and conditions of the G fice of Oil and Gas of the West Virginia Department inforceable by law. Violations of any term or condi- preement action.	nt of Environmental Protection	. I understand that the	
application form and all attact the information, I believe that	of law that I have personally examined and am fain himents thereto and that, based on my inquiry of the the information is true, accurate, and complete. I including the possibility of fine or imprisonment.	nose individuals immediately r	esponsible for obtaining	
Company Official Signa Company Official (Type Company Official Title	ed Name)	Victoria J. Roark		_ _ _
Subscribed and sworn My commission expires	(Juja	aus	20 / Re	OFFICIAL GEAL TATE OF WEST VIRIGINIA Pamela Syles EQT Production PO Box 280
			My Co	Bridgeport, WV 26330

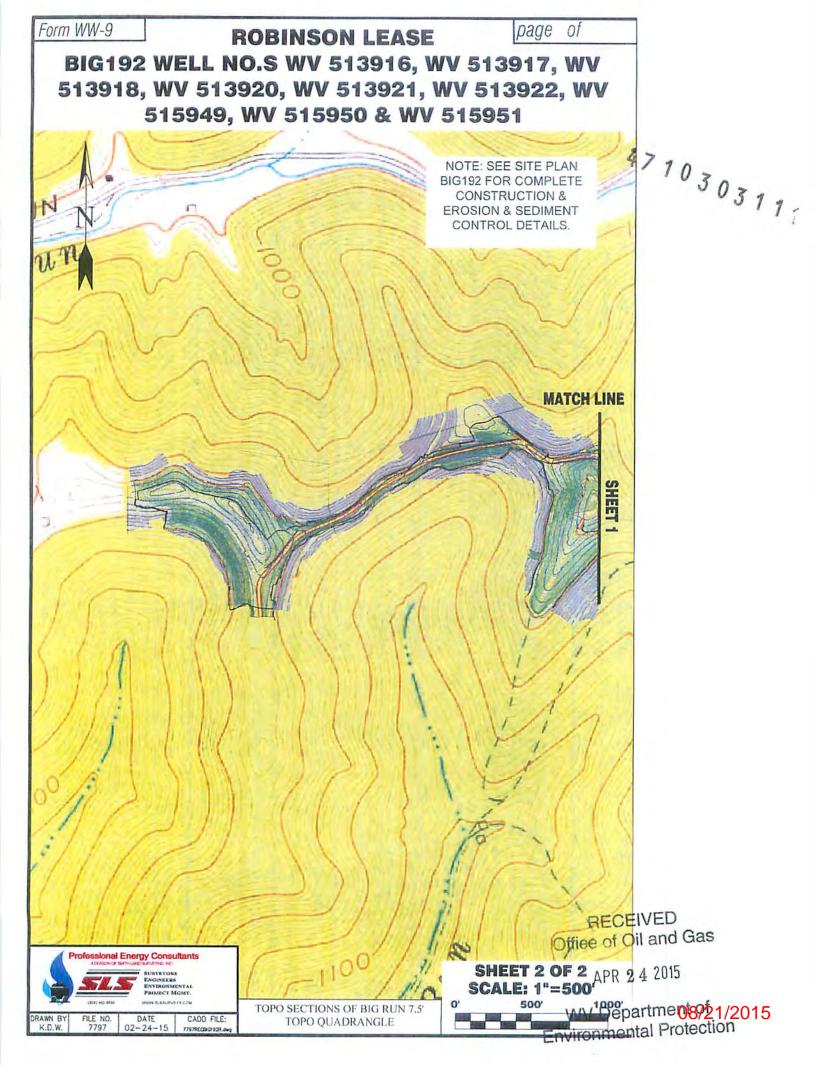
Proposed Revegetation	on Treatment: Acres Di	sturbed0.15	Prevegetation pH	6.5
Lime	3 Tons	/acre or to correct to pH	6.5	
Fertilize type	Granula	ir 10-20-20		
Fertilizer Am	ount1/3	Ibs/acre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
	Temporary	100	Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass		'e
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
	cation,pit and propose	d area for land application.		
Drawing(s) of road, lo	of involved 7.5' topogra	phic sheet.		
Drawing(s) of road, lo Photocopied section of Plan Approved by:	of involved 7.5' topogra	phic sheet.		
Drawing(s) of road, lo Photocopied section of Plan Approved by:	of involved 7.5' topogra	phic sheet.		
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Office of Oil and Gas

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WV Department of Environmenta 08/2/16/20015





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

BROADSTREET 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

/2041 440 440

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: EQT Production Company

LEASE NAME AND NUMBER: BIG-192 Well Pad

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

C:A											
Field Conta	ect Date: d by who _ <u>Northin</u>	cing 7250° ox 43, Jackson 09/08/2014 ong: 39.533458 ox: 80.605796	Owners burg, IVV 26 Located:	5377 Vur	0-1-1	Susan (1	<i>h</i> Ph:	(304)-98 Ource: Certified	9-2748 Water d (3rd)_	r Well N/A
Site: 2 Address: Field Contact If No, declined Comments:	P.O. Box of Date: by who	09/08/2014 L	burg. IVV 26 Ocated:	5377 V	0-4-1			h: 1014 Sc	(304)-XX9 ource: Certified)-2709 Water (3rd)_	Well N/A
Site: 3 Address:	P.O. Box	43, Jacksonhu 19/08/2014 1 a	rg. IVV 2637	77			wdrich Ph		<i>(304)-889-</i> ,	2748 Crees	
If No. declined t Comments:	Northing:	39.533745 80.606700	- SHOW MORE	o Dato: 1	st	42	nd	N/A	Certified (3rd)	N/A

Owner/Occupant Richard, Javnee, Thomas & Trenton Bullsung 5 Spacing Address: RT. I box 41 Folsom, WV 26348 Field Contact Date: N/A Located: No Date Located: N/A Source: Ph: If No, declined by who Rechard Halling Letter/Notice Date: 1st 19/08/2014 2nd N/A Certified (3rd) 18/15/2014 Comments. Tax Map 23, Parcel 14 Letter of refusal signed 08/16/2014 Site 6 Spacing Owner/Occupant. Thomas E. Wyatt Address. P.O. Box 14, Jacksonburg, WV 26377 Field Contact Date: N/A Located: No Date Located: Ph: N/A Source: If No. declined by who _ Letter/Notice Date: 1st 09/08/2014 2nd N/A Certified (3rd) 08/15/2014 Comments: Tax Map 23, Parcel 5 No response to certified letter as of 09/18/2014 Site: 7 Spacing Owner/Occupant. Arthur J. Fuch Address: 7625 orchard view DR. SE East Canton, Ohio 44730 Ph: If No, declined by who ___ Letter/Notice Date: 1st 09/04/2014 2nd N/A Certified (3rd) 04/15/2014 Comments. Tax Map 23, Parcel 16 No response to certified letter as of 09/18/2014 Site: s Spacing Owner/Occupant. Address: Field Contact Date ____Located:_____Date Located:___ Source: If No, declined by who ___ Letter/Notice Date: 1st _____ 2nd _____ Certified (3rd)_____ Comments. Spacing Owner/Occupant: Address: Field Contact Date: ____Located:_____Date Located:____ If No, declined by who _____ Letter/Notice Date: 1st _____ 2nd ____ Certified (3rd)____ Source: /// Spacing _____ Owner/Occupant. Site Address: Field Contact Date: _____Located: ____ Date Located.___ ___Source:____ If No, declined by who _____ Letter/Notice Date: 1st ____ 2nd ____ Certified (3rd)____ Comments:



SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

47 9 0 3 0 304) 462-5634 · FAX 462-5656

To Whom It May Concern:

Due to 1994 regulations set by the State of West Virginia Division of Environt Protection, Department of Oil and Gas, operators are required to offer water to water wells or other non-public water sources that fall within 1500 feet of the pwell. The operator is testing within 2500 feet of the well, if they are requested the resident or owner. This test will only help ensure the water quality control turn benefits you as the resident or landowner. Since your residence falls within the 2500 foot radius, you are entitled to have potable water source(s) sampled and analyzed at an independent lab. Your lab results would then be mailed to your home. This is done at no expense to you. Please notify Smith Land Surveying immediately if you are interested in havin potable water tested. Please have this letter with you at the time of contact so the client and well number may be referenced.	mental sting for proposed to do so by , which in
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potable water tested. Please have this letter with you at the time of contact so the	
Thank you for your cooperation in this matter. I look forward to hearing from your earliest convenience. If you have any questions, please feel free to contact	
Smith Land Surveying, Inc. Date: 8/15/14 PO Box 150	
Glenville, WV 26351 Left/sent by: Daniel McKee (304) 462-5634 (voice)	
(304) 462-5656 (fax) Well Number: <u>BIG-192</u>	
E-Mail DMcKee@slssurveys.com Site Number: N/A	
*If you do not have a water well or other non-public water source, please make note of it and i	neluda vous
name and address when you return this sheet. Please include your name in print as well as an a phone number.	

8-110-14

MAY 0 4 2015

WV Department of Environmenta 08/26/2015



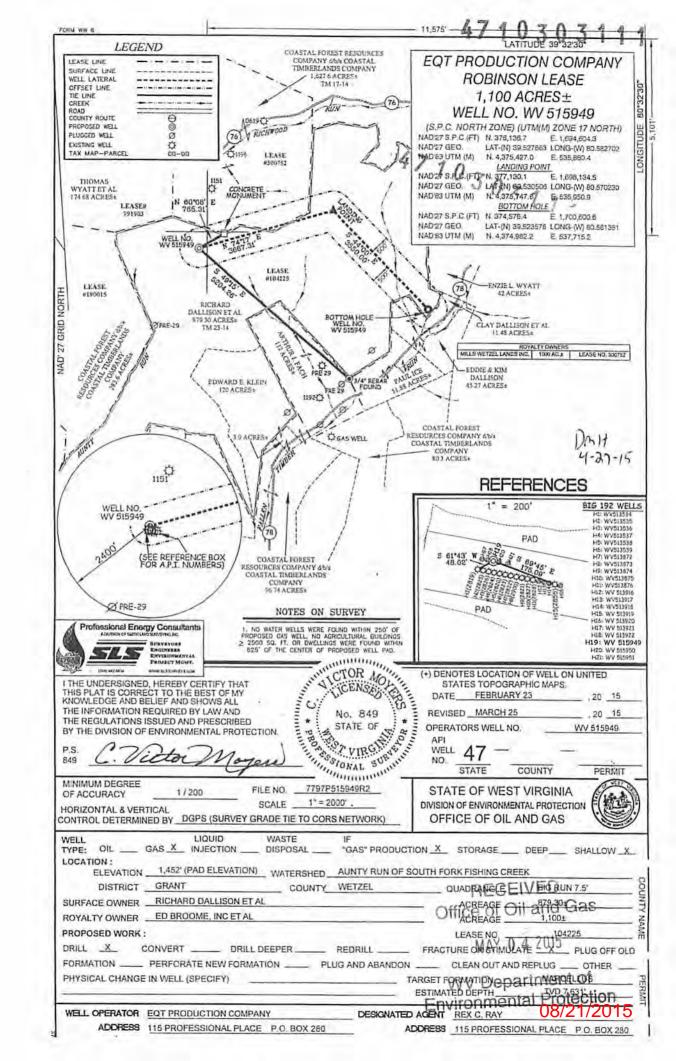
Site Specific Safety Plan

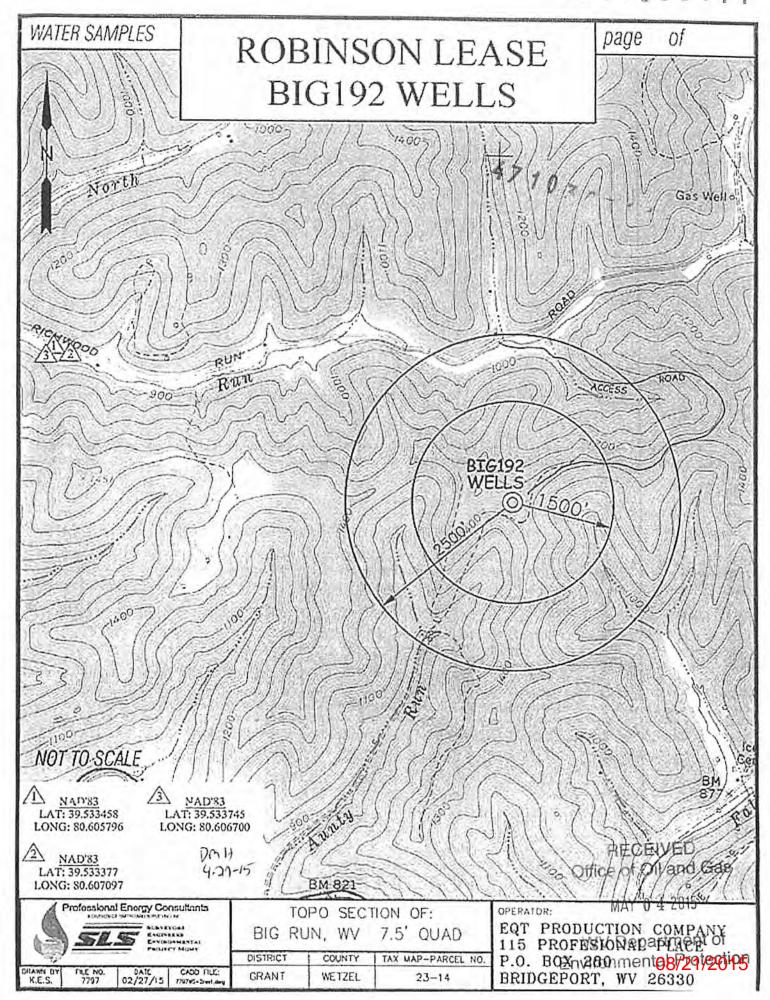
EQT BIG 192 Pad

<u>Jacksonburg</u>

Wetzel County, WV

515949	For Wells		
EQT Production	Date Prepared:	August 21, 2014 WV Oil and Gas Inspector	-1
Title 4-14-15	enusor	Title 4-27-15	
Date		Date RECEIVED Office of Oil and Ga	as





Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	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

DMH 4-27-15



471036

April 10, 2015

Mr. Gene Smith West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Casing on Wells (BIG192)

Dear Mr. Smith.

EQT is requesting the 13-3/8" surface casing be set at 930' KB, 150' below the deepest fresh water. The previous wells drilled on this pad set 13-3/8" casing at approximately 1000' KB. This will cover up red rock formations that have given EQT drilling issues in the past. We will set the 9-5/8" intermediate string at 2765' KB, below the porosity zone in the Big Injun formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.

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Office of Oil and Gas

APR 2 4 2015

Horizontal Well 515949 (BIG192H19)

Marcellus **Drilling Objectives:**

County: Wetzel Quad: Big Run

Northing: Surface location Northing: Landing Point Toe location Northing: Recommended Azimuth

1465 KB

376136.67 377130.11 373906.04 136 Degrees

Easting: Easting: Easting:

1452 GL 1694604.33 1698134.52

1701247.97

Recommended LP to TD:

471030311

TVD: TVD: 7655 4,482

> Base RR 919

Proposed Logging Suite:

Elevation:

Formation top depths based on open hole log run on pilot hole well 513538 Mudloggers to be on location at kickoff point to run samples and measure gas

thru both the curve and lateral sections

Recommended Gas Tests:

1800, 2050, 2600, Intm Csg. Pt., 3400, 4900, 5250, KOP, (Gas test at any mine void) Gas test during any trip or significant downtime while drilling the lateral section.

ESTIMATED FORMATION TOPS

	Top (TVD) 1 743 804 919	Base (TVD) 780 745 Coa 814 Coa	Lithology	Comments FW @ 549,581,780	Top R
Washington Coal Coal Coal	804 919	745 Coa	1	FW @ 549,581,780	7.3
Coal Coal Coal	804 919		I		
Coal Coal	919	814 Cos			
Coal					1
Coal Pittsburgh		924 Coa			
Pittsburgh	1009	1019 Coa			
	1240	1245 Coa		No past, active, or planned mining in Pittsburgh seam	
Maxton	2351	2406 San		SW @ 2257,2370, ,	
Big Lime	2481	2560 Lim			
Big Injun	2602	2665 San	dstone	Storage is not of concern	
Int. csg pt	2765				
Weir	2866	2903 San	dstone		
Top Devonian	3011				
-Gantz	3011	3061 Silty	y Sand		
-Fifty foot	3061	3101 Silt	y Sand		
-Thirty foot	3164	3194 Silty	y Sand		
-Gordon	3227	3303 Silt	y Sand		
-Forth Sand	3300	3347 Silty	y Sand		
-Bayard	3499	3538 Silty	y Sand		
-Warren	3962	4114 Silty	y Sand		
-Speechley	4114	4274 Silty	y Sand		
-Balltown A	4274	5003 Silty	y Sand		
-Riley	5003	5638 Silty	y Sand		
-Benson	5638	5965 Silt	y Sand		
-Alexander	5965	7190 Silt	y Sand		
-Elks	7190	7190 Gra	y Shales and Silts		
-Sonyea	7190	7353 Gra	y shale		
-Middlesex	7353	7406 Sha	le		
-Genesee	7406	7495 with	black shale		
-Geneseo	7495	7522 Blac	ck Shale		
-Tully	7522	7542 Lim	estone		
-Hamilton	7542		arcous shales		
-Marcellus	7631	7684 Bla	ck Shale		
-Purcell	7641	7644 Lim			
-Lateral Zone	7655	7655		Start Lateral at 7655 ft, drill to 7655 ft	
-Cherry Valley	7660	7664 Lim	estone		
Onondaga	7684		estone		

Comments:

Target Thickness

Max Anticipated Rock Pressure

Note that this is a TVD prog for a horizontal well (azimuth of 136 degrees, target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data

Intermediate casing point is recommended 100' beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per

CSG DEPTH:

CSG DEPTH:

CSG DEPTH.

The estimated TD is the TVD landing point for the horizontal section of well, with the plan to then drill to a final TVD of 7655' at the toe of the lateral. The geologic structure is unknown at this time

Red rock information updated using offseting wells in addition to subsea red rock encountered while drilling nearby laterals of the BIG190 pad.

LATERAL DRILLING TOLERANCES

Deviate as little as possible left to remain on lease Mapview - Left of borehole:

CSG OD

CSG OD

Deviate as little as possible right to avoid planned lateral 513922 Mapview - Right of borehole: DO NOT EXTEND beyond recommended wellbore to avoid leaseline Mapview - TD;

9.5/8

53 feet

2620 PSI

RECOMMENDED CASING POINTS

Fresh Water/Coal

Intermediate 1:

Production:	CSG OD	5 1/2	_	
J. Dereume/ E. Glick	Author	Date Created	Plat Date	
Prog created:	JMD	2/3/20	15	9/7/2014
updated	EVG	3/5/20	15	2/23/2015
surface casing revised to 15	0' belo EVG	4/21/20	15	
Revised surface casing to 5	0' belovEVG	7/8/20	15	
revised TD	EVG	7/21/20	15	7/16/2015

revised TD COAL PILOT HOLE 0 CASING PROGRAM STORAGE

Received no past the base of the Office of Oil 8 Gas 2765 AUG 10 2015

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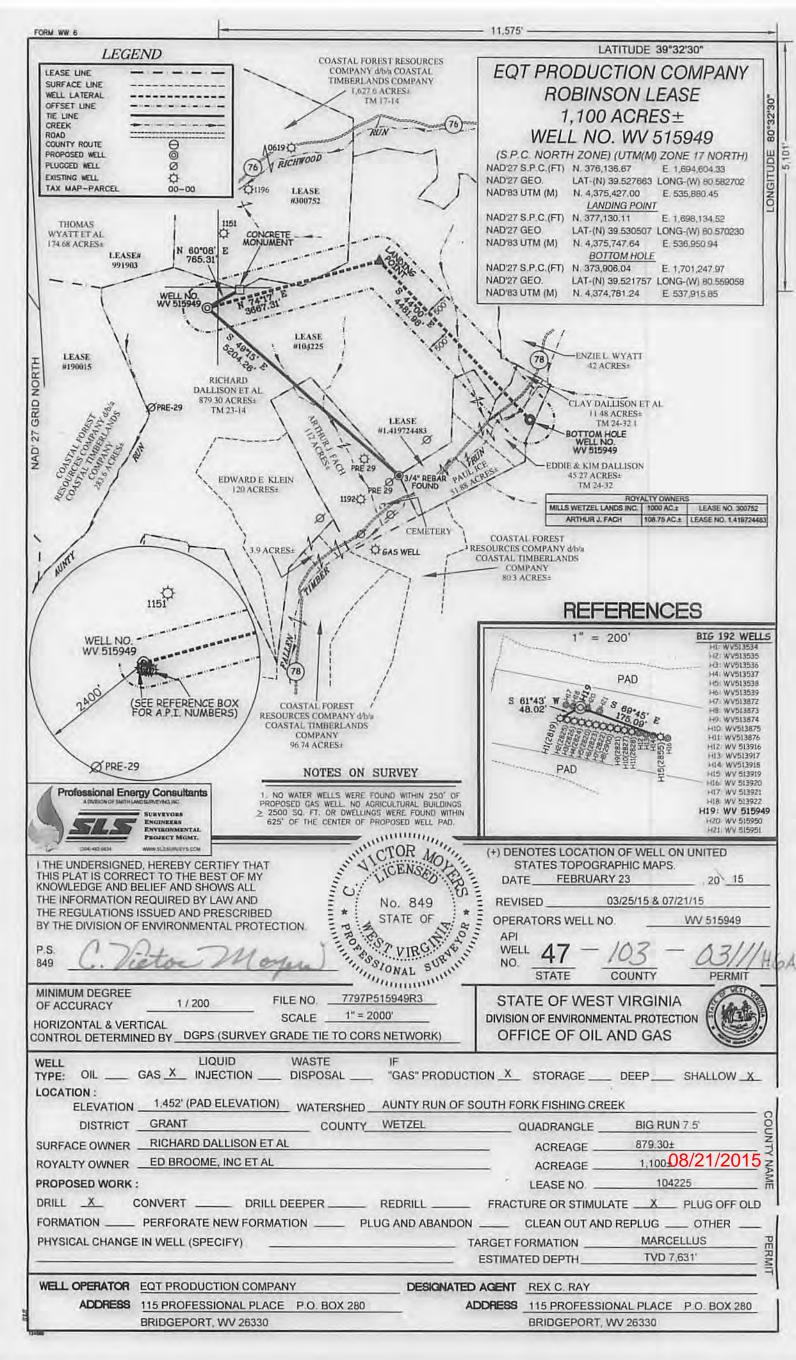
08/21/201

Well Number: 515949 (BIG192H19)

Casing and Cementing Deepest Fresh Water: 780'					
Туре	Conductor	Surface	Intermediate	Production	
Hole Size, In.	30	17 1/2	12 3/8	8 1/2	
Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2	
Casing Wall Thickness, In.	0.312	0.380	0.395	0.361	
Depth, MD	40'	974'	2,765'	13,732'	
Depth, TVD	40'	974'	2,765'	7,655'	
Centralizers Used	Yes	Yes	Yes	Yes	
Weight/Grade	77#/MC-50	54.5#/J-55	40#/A-500	20#/P-110	
New or Used	New	New	New	New	
Pressure Testing	-	20% Greater than exp. Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure	
After Fracture Pressure Testing			-	20% greater than exp. shut pressure	
ID, in	25.376	12.615	8.835	4.778	
Burst (psi)		2,730	3,950	12,640	
Collapse (psi)		1,130	2,570	11,100	
Tension (mlbs)	1-0	514	493	587	
Cement Class	-		-	Н	
Cement Type	Construction	1	1		
Cement Yield	1.18	1.21	1.21	1.27/1.86	
Meets API Standards	-	Yes	Yes	Yes	
WOC Time	-	Min. 8 hrs	Min. 8 hrs	Min. 8 hrs	
Top of Cement (Planned)	Surface	Surface	Surface	2,965'	
Fill (ft.)	40'	974'	2,765'	10,767'	
Percent Excess	-	20	20	10	
Est. Volume (cu ft)	49	847	1,079	2,725	
Est. Volume (BBLS)	9	151	192	485	

DAH 8-3-15

Received Gas
Office of Oil & Gas



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. Roya	alty	Book/Page
		Min 1	/8 pd	
Lease No.				
104225	L G. Robinson, etal	H. L. Smith		LB111/452
	H. L. Smith	Philadelphia Company		LB47A/287
	Philadelphia Company	Pittsburgh & West Virginia Gas (Company	DB146/98
	Pittsburgh & West Virgina Gas Company	y Equitable Gas Company		DB187/321
	Equitable Gas Company	Equitrans, Inc.		CB71A/453
	Equitrans, LLC	EQT Production Company		DB192/19 Doddridge
1.419724483		Min 1/8 p	d	
	Arthur J. Fach	EQT Production Company		LB 166A/3
	Eddie D. Dallison & Kim L. Dallison	EQT Production Company		LB 166A/22
	Clay D.C. Dallison	EQT Production Company		LB 166A/24

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

Well Operator: EOT Production Company

By:

Its: Permitting Supervisor

Permitting Supervisor

AUG 10 2015

471030311

WW-6A (9-13)

API NO.	47	140	103	12	0
OPERATO	R WEL		515949		
Well Pad	Nam		BIG192		

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

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 4710303111 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.

> EQT Production Company Well Operator: By: Permitting Supervisor Its: Page 1 of 1

> > RECEIVED Office of Oil and Gas

> > > APR 88/20152015

WV Department of Environmental Protection WW-6A (8-13)

API NO. <u>47</u> - <u>103</u>		0
OPERATOR WELL NO.		515949
Well Pad Name:	RIG192	

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 appropriate United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in the Economy The 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 permitted price as effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise light, dust and 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 occupied dwelling structures are inadequate or otherwise require alteration to address the items

Environmental Protection

WW-6A (8-13) API NO. 47 · 103 · 0

OPERATOR WELL NO. 515949

Well Pad Name: BIG192

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-by-case 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:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

JUN 1 0 2015

Charleston, WV 25304
(304) 926-0450

WV Department of Submitting written comments, notice of the permit decision of persons quantities of the persons may request, at the time of submitting written comments, notice of the permit decision of the persons quantities water.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

API NO.	<u>47</u>	-	103 -	0
OPERATOR	R WEL	L NO.		515949
Well Pad N	lame:			BIG192

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 and Gas

JUN 1 0 2015

WV Department of Environmental Protection

4710303111

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.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, 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.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. HEATER EQT PRODUCTION COMPANY PO BOX 280
BRIDGEPORT, WV 28330
My commission expires April 07, 2020

By: Victoria Roark

Its: Permitting Supervisor
Subscribed and sworn before n

ay of June

2015

My Commission Expir 4-7-2070

RECEIVED
Office of Oil and Gas

JUN 1 0 2015

WV Department of Environmental Protection WW6-A
Additional Surface Owners
Trenton Dallison
2975 Barker Run Road
Pine Grove, WV 26419-8325

Additional Surface Owner, Pit/ Impoundment

Thomas P. Dallison 452 Trader Fork Road Folsom, WV 26348-6021

Trenton Dallison 2975 Barker Run Road Pine Grove, WV 26419-8325

Additional Surface Owner Access Road

Trenton Dallison 2975 Barker Run Road Pine Grove, WV 26419-8325

Coastal Forest Resources dba Coastal Timberlands Company P.O. Box 709 Buckhannon, WV 26201

Additional Coal Owners

Consol Mining Company LLC CNX Center 1000 Consol Energy Dr. Canonsburg PA 15318-6506

CNX Land LLC
Engineer Operations Support Dept.
Coal
1000 Consol Energy Dr.
Canonsburg PA 15318-6506

David Bowyer RT. 1 Box 4598 Salem, WV 26426-5217

Murray American Energy, Inc 1 Bridge Street Monongah, WV 26554

Murray American Energy Inc c/o Murray Energy Corporation 46226 National Road St. Clairsville, OH 43950

Office of Oil and Gas

APR 2 4 2015

WV Department of 08/21/2015 Environmental Protection

CBM Only

CNX Gas Company, LLC CNX Center 1000 Consol Energy Drive Cannonsburg, PA 15317-6506

Office of Oil and Gas

APR 2 4 2015

WV Department of Environmental Protection 08/21/2015

David Bowyer 12088 Middle Island Rd Alma WV 26320-7211

Murray American Energy, Inc 1 Bridge Street Monongah, WV 26554

Murray American Energy Inc c/o Murray Energy Corporation 46226 National Road St. Clairsville, OH 43950

CBM Only

CNX Gas Company, LLC CNX Center 1000 Consol Energy Drive Cannonsburg, PA 15317-6506

RECEIVED
Office of Oil and Gas

JUN 1 0 2015

WV Department of Environmental Protection

08/21/2015

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.

facsimile number a related to horizont located at 601 57th Notice is hereby given Well Operator: Address: Telephone: Email: Facsimile: Oil and Gas Privacy	EQT Production Company 115 Professional Place, P.O Box 280 Bridgeport, WV 26330 304-848-0076 vroark@eqt.com 304-848-0041	coperator's authorized the WV Department of or by visiting www.de Authorized Represent Address: Telephone: Email: Facsimile:	d representative. Addition of Environmental Protection of Environmental Protection of Environmental Protection of Environmental Protection of Office Of Office Of Office O	nal information on headquarters, iges/default.aspx 115 Professional Plans Bridge VED	Victoria Roark ace, P.O Box 280 geport, WV 26330 304-848-0076 oark@eqt.com 304-848-0041
Pursuant to West V facsimile number a related to horizont located at 601 57th Notice is hereby giv Well Operator: Address: Telephone: Email:	nd electronic mail address of the operator and the all drilling may be obtained from the Secretary, at to Street, SE, Charleston, WV 25304 (304-926-0450) Ven by: EQT Production Company 115 Professional Place, P.O Box 280 Bridgeport, WV 26330 304-848-0076 Vroark@eqt.com	operator's authorized the WV Department of or by visiting www.de Authorized Represent Address: Telephone: Email:	d representative. Addition f Environmental Protection f Environmental Prote	nal information on headquarters, iges/default.aspx 115 Professional Pla Brid	ace, P.O Box 280 geport, WV 26330 304-848-0076 oark@eqt.com
Pursuant to West V facsimile number a related to horizont located at 601 57th Notice is hereby giv Well Operator: Address: Telephone: Email:	nd electronic mail address of the operator and the all drilling may be obtained from the Secretary, at to Street, SE, Charleston, WV 25304 (304-926-0450) Ven by: EQT Production Company 115 Professional Place, P.O Box 280 Bridgeport, WV 26330 304-848-0076 Vroark@eqt.com	operator's authorized the WV Department of or by visiting www.de Authorized Represent Address: Telephone: Email:	d representative. Addition f Environmental Protection f Environmental Prote	nal information on headquarters, iges/default.aspx 115 Professional Pla Brid	ace, P.O Box 280 geport, WV 26330 304-848-0076 oark@eqt.com
Pursuant to West V facsimile number a related to horizont located at 601 57th Notice is hereby giv Well Operator: Address: Telephone:	nd electronic mail address of the operator and the all drilling may be obtained from the Secretary, at to Street, SE, Charleston, WV 25304 (304-926-0450) ven by: EQT Production Company 115 Professional Place, P.O Box 280 Bridgeport, WV 26330 304-848-0076	coperator's authorized the WV Department of or by visiting www.de Authorized Represent Address:	d representative. Addition f Environmental Protection f Environmental Prote	nal information on headquarters, iges/default.aspx 115 Professional Pla Brid	ace, P.O Box 280 geport, WV 26330 304-848-0076
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Pursuant to West V facsimile number a related to horizont	nd electronic mail address of the operator and the al drilling may be obtained from the Secretary, at t	operator's authorized the WV Department of	d representative. Addition f Environmental Protection	nal information on headquarters,	
Pursuant to West V					
	irginia Code § 22-6A-16(b), this notice shall includ				
This Nation Challe	ciude:	e the name address t	telephone number, and if	f available	
1					_
	unty Run of South Fork Fishing Creek	Generally (used farm name:	Richar	d Dallison et al
Quadrangle:	Big Run 7.5		blic Road Access:	BL-C	RT 20
District:	Grant	nt	Northing		4,375,427.00
State:	WV	UTM NAD 83	Easting		535,880.40
Pursuant to West V the surface owner'	Firginia Code § 22-6A-16(b), notice is hereby given s land for the purpose of drilling a horizontal well of		follows:	ent to enter upon	
Notice is hereby gi	ven:				
	Folsom, WV 26348-6021		Fo	lsom, WV 26348-6021	
Address:	28855 Shortline Hwy	Address:		452 Trader Fork Road	
Name:	rovided to the SURFACE OWNER(s): Richard B. and Jaynee C Dallison	Name:		Thomas P. Dallison	
	simile number and electronic mail address of the				
	waived in writing by the surface owner. The notice				
	s of the date the notice was provided to the surface				
receipt requested of	Code § 22-6A-16(b), at least ten days prior to filing or hand delivery, give the surface owner notice of well: Provided, That notice given pursuant to sub	ts intent to enter upo	n the surface owner's lar	nd for the purpose of	
HAND DELIVERY	CERTIFIED MAIL RETUF RECEIPT REQUESTED	IN			
Delivery method p	ursuant to West Virginia Code § 22-6A-16(b)				
mall and a set and a					
	3/10/2013 Date Permit App	lication Filed:	3/20/15		
Date of Notice:					
	rement: Notice shall be provided at least TEN (10)	days prior to filing a p	ermit application		

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-

Notice Time Requirem	CIL. NOTICE SHall be blow					
Date of Notice:	3/10/2015	Date Permit App		3/20/15		
Delivery method purs	uant to West Virginia Co	de § 22-6A-16(b)				
receipt requested or h drilling a horizontal we of this subsection as o subsection may be wa	de § 22-6A-16(b), at least and delivery, give the su ell: Provided, That notice the date the notice was ved in writing by the sur ile number and electron	rface owner notice of given pursuant to sul provided to the surfa face owner. The notice	its intent to enter upor bsection (a), section ten ace owner: Provided, ho ce, if required, shall incl	n the surface owner of this article satist owever, That the no ude the name, addr	's land for the purpo fies the requiremen tice requirements o ress, telephone num	ose of ts of this
Notice is hereby provi	ded to the SURFACE OW	NER(s):				
Name:		Trenton D. Dallison	Name: Coastal For	est Resources dba Co	astal Timberlands Con	npany
Address:	2	975 Barker Run Road	/ Address:		P.O. Bo	ox 709
	Pine Gr	rove, WV 26419-8325			Buckhannon, WV	26201
	: nia Code § 22-6A-16(b), nd for the purpose of dri				n intent to enter upo	on
Pursuant to West Virgi	nia Code § 22-6A-16(b),	lling a horizontal well WV Wetzel	on the tract of land as to UTM NAD 83	follows: Easting Northing	n intent to enter upo	535,880.40 4,375,427.00
Pursuant to West Virgi the surface owner's la State: County: District:	nia Code § 22-6A-16(b),	WV Wetzel Grant	on the tract of land as to UTM NAD 83	Follows: Easting Northing	n intent to enter upo	535,880.40 4,375,427.00 RT 20
Pursuant to West Virgi the surface owner's la State: County: District: Quadrangle:	nia Code § 22-6A-16(b),	WV Wetzel Grant Big Run 7.5'	on the tract of land as to UTM NAD 83	follows: Easting Northing	n intent to enter upo	535,880.40 4,375,427.00
Pursuant to West Virgi the surface owner's la State: County: District: Quadrangle: Watershed: Aunt This Notice Shall Inclu Pursuant to West Virgi facsimile number and related to horizontal d	nia Code § 22-6A-16(b), nd for the purpose of dri y Run of South Fork Fis	WV Wetzel Grant Big Run 7.5' shing Creek this notice shall include the operator and the rom the Secretary, at	On the tract of land as to UTM NAD 83 Pub Generally u de the name, address, to be operator's authorized the WV Department of	Easting Northing lic Road Access: used farm name: elephone number, a I representative. Ad Environmental Pro	and if available, Iditional information tection headquarte	535,880,40 4,375,427.00 RT 20 Richard Dallison et al
Pursuant to West Virgi the surface owner's la State: County: District: Quadrangle: Watershed: Aunt This Notice Shall Inclu Pursuant to West Virgi facsimile number and related to horizontal d located at 601 57th Sti	y Run of South Fork Fishers of drilling may be obtained for the purpose of drilling may be obtained for the fishers.	WV Wetzel Grant Big Run 7.5' shing Creek this notice shall include the operator and the rom the Secretary, at	On the tract of land as to UTM NAD 83 Pub Generally u de the name, address, to be operator's authorized the WV Department of	Easting Northing lic Road Access: used farm name: elephone number, a I representative. Ad Environmental Pro	and if available, Iditional information tection headquarte	535,880,40 4,375,427.00 RT 20 Richard Dallison et al
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WW-6A4 (1/12)

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.

Notice Time Require	ement: Notice shall be provid	ien ar isast i sia (10)	days prior to filing a peri	mit application.	
Date of Notice:	6/8/2015	Date Permit App	lication Filed:	TBD	
Delivery method pu	rsuant to West Virginia Code	≘ § 22-6A-16(b)			
HAND DELIVERY	CERTIFIE RECEIPT	ED MAIL RETUF FREQUESTED	RN	4710	303111
receipt requested or drilling a horizontal v of this subsection as subsection may be v	code § 22-6A-16(b), at least to hand delivery, give the surface givel: Provided, That notice gire of the date the notice was provided in writing by the surface in least to the number and electronic	ace owner notice of ven pursuant to sub rovided to the surfa ce owner. The notic	its intent to enter upon t section (a), section ten o ce owner: Provided, how e, if required, shall includ	n operator shall, by cert he surface owner's land f this article satisfies th ever, That the notice ro le the name, address, t	tified mail return d for the purpose of se requirements equirements of this elephone number,
	ovided to the SURFACE OWN		••		
Name:	Kichard and	Roxanne Funk	Name:	4277011	Larry Larew
Add	403	1 Calaman Dand		12750 W	V Middletown Road
Address:		2 Fairport Road Fails OH 44444	Address:		Salem OH 44460
Notice is hereby give	Newton en: rginia Code § 22-6A-16(b), no	Fails OH 44444 otice is hereby given	that the undersigned we	II operator has an inter	
Notice is hereby give Pursuant to West Vithe surface owner's	Newton	Fails OH 44444 otice is hereby given	that the undersigned we on the tract of land as fo	II operator has an inter	
Notice is hereby give Pursuant to West Vir the surface owner's State:	Newton en: rginia Code § 22-6A-16(b), no	Falls OH 44444 otice is hereby givening a horizontal well	that the undersigned we	II operator has an inter	nt to enter upon
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Notice is hereby given Pursuant to West Virthe surface owner's State: County: District: Quadrangle:	Newton en: rginia Code § 22-6A-16(b), no land for the purpose of drillin	Falls OH 44444 otice is hereby givening a horizontal well of the	that the undersigned we on the tract of land as fol UTM NAD 83 Public	Il operator has an inter lows: Easting Northing Road Access:	535,880.40 4,375,427.00 RT 20
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Notice is hereby given Pursuant to West Virthe surface owner's State: County: District: Quadrangle: Watershed: Au This Notice Shall Ince Pursuant to West Virthe sumile number an related to horizontal located at 601 57th. Notice is hereby given Well Operator: Address:	Newton en: rginia Code § 22-6A-16(b), no land for the purpose of drillin Enty Run of South Fork Fish clude: rginia Code § 22-6A-16(b), th ad electronic mail address of a I drilling may be obtained fro Street, SE, Charleston, WV 25 en by: EQT Produ 115 Professional Place	Falls OH 44444 potice is hereby givening a horizontal well of the well of the operator and the modern the Secretary, at 15304 (304-926-0450) action Company Ce, P.O Box 280 Dort, WV 26330	that the undersigned we on the tract of land as follows the tract of land as follows the UTM NAD 83 Public Generally used the name, address, telder operator's authorized rethe WV Department of Electric or by visiting www.dep.	Easting	S35,880.40 4,375,427.00 RT 20 Richard Dallison et al RECEIVED available il and Gas nal information njheadquarters, s ges/default.aspx Department of mental Protection pria Roa 115 Professional Place, P.O Box 28 Bridgeport, WV 263
Notice is hereby given Pursuant to West Virthe surface owner's State: County: District: Quadrangle: Watershed: Au This Notice Shall Inc. Pursuant to West Virthesimile number and related to horizontal located at 601 57th. Notice is hereby given Well Operator: Address: Telephone:	Newton en: rginia Code § 22-6A-16(b), no land for the purpose of drillin Enty Run of South Fork Fish clude: rginia Code § 22-6A-16(b), th d electronic mail address of of I drilling may be obtained fro Street, SE, Charleston, WV 25 en by: EQT Produ 115 Professional Place Bridger	rails OH 44444 ptice is hereby given ing a horizontal well of the well of the operator and	that the undersigned we on the tract of land as follows the tract of land as follows the tract of land as Public Generally used the name, address, teles operator's authorized rethe WV Department of E or by visiting www.dep. Authorized Representation Address: Telephone:	Easting	S35,880.40 4,375,427.00 RT 20 Richard Dallison et al RECEIVED availabili and Gas hal information hal information Department of mental Protection pria Roa 115 Professional Place, P.O Box 28 Bridgeport, WV 2633 304-848-007
Notice is hereby given Pursuant to West Virthe surface owner's State: County: District: Quadrangle: Watershed: Au This Notice Shall Incention Pursuant to West Virthe facsimile number and related to horizontal located at 601 57th. Notice is hereby given Well Operator:	Newton en: rginia Code § 22-6A-16(b), no land for the purpose of drillin Enty Run of South Fork Fish clude: rginia Code § 22-6A-16(b), th d electronic mail address of of I drilling may be obtained fro Street, SE, Charleston, WV 25 en by: EQT Produ 115 Professional Place Bridger	Falls OH 44444 potice is hereby givening a horizontal well of the well of the operator and the modern the Secretary, at 15304 (304-926-0450) action Company Ce, P.O Box 280 Dort, WV 26330	that the undersigned we on the tract of land as follows the tract of land as follows the tract of land as Public Generally used the name, address, teles operator's authorized rethe WV Department of Ethe WV Department of	Easting	S35,880.40 4,375,427.00 RT 20 Richard Dallison et al RECEIVED available il and Gas nal information njheadquarters, s ges/default.aspx Department of mental Protection pria Roa 115 Professional Place, P.O Box 28 Bridgeport, WV 263

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 08/21/2015 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.

Operator	Well	No.
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515949

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.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice:	6/8/2015 Da	ate Permit Application Filed	<u> </u>	TBD			
Delivery method pursu	ant to West Virginia Code § 22	!-6A-16(b)	4	7103	031	¶ a	
HAND DELIVERY	CERTIFIED M RECEIPT REC	AIL RETURN QUESTED			0 /	7 1	
receipt requested or had drilling a horizontal we of this subsection as of subsection may be wait	le § 22-6A-16(b), at least ten da and delivery, give the surface of II: Provided, That notice given p the date the notice was provid wed in writing by the surface ov ile number and electronic mail	wner notice of its intent to e pursuant to subsection (a), so led to the surface owner: Pro wner. The notice, if required	enter upon the surfa ection ten of this ar ovided, however, Ti , shall include the n	ace owner's lan ticle satisfies th hat the notice r ame, address, t	nd for the pur the requireme requirements telephone nu	pose of nts of this	
Notice is hereby provide	led to the SURFACE OWNER(s)						
Name:	Lydle	M Martyn Name:					
Address:		PO Box 7 Address:					
	15 ekee e broee	WW /D3//					
Notice is hereby given:							
Notice is hereby givens Pursuant to West Virgion the surface owner's land	: nia Code § 22-6A-16(b), notice nd for the purpose of drilling a h	is hereby given that the und norizontal well on the tract o	of land as follows:	ator has an inte	nt to enter u	oon 535,8	80.40
Notice is hereby given: Pursuant to West Virgit the surface owner's lar State: County:	: nia Code § 22-6A-16(b), notice nd for the purpose of drilling a h	is hereby given that the und norizontal well on the tract o WV UTM Wetzel	of land as follows: NAD 83 Not	asting	nt to enter u	535,8 4,375,4	27.00
Notice is hereby given: Pursuant to West Virging the surface owner's land State: County: District:	: nia Code § 22-6A-16(b), notice ind for the purpose of drilling a h	is hereby given that the und norizontal well on the tract of WV Wetzel Grant	of land as follows: NAD 83 Public Road Ac	asting rthing	nt to enter u	535,8 4,375,4	27.00 RT 20
Notice is hereby given: Pursuant to West Virging the surface owner's land State: County: District: Quadrangle:	: nia Code § 22-6A-16(b), notice ind for the purpose of drilling a h	is hereby given that the und norizontal well on the tract of WV Wetzel Grant un 7.5'	of land as follows: NAD 83 Not	asting rthing	nt to enter u	535,8 4,375,4	27.00 RT 20
Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di	hia Code § 22-6A-16(b), notice and for the purpose of drilling a high section of the purpose of drilling a high section of South Fork Fishing (is hereby given that the und norizontal well on the tract of WV Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's a e Secretary, at the WV Depa	of land as follows: Each Note Public Road Act Generally used farm readdress, telephone authorized represented the control of Environment of Environment.	number, and if	f available, nal infor隔疑	535,8 4,375,4 Richard Dalliso	27.00 RT 20 n et al
Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di located at 601 57th Str	Big Roy Run of South Fork Fishing (de: nia Code § 22-6A-16(b), notice of drilling a hard for the purpose of drilling a hard for the purpose of drilling Roy Run of South Fork Fishing (de: nia Code § 22-6A-16(b), this not electronic mail address of the outling may be obtained from the eet, SE, Charleston, WV 25304	is hereby given that the und norizontal well on the tract of WV Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's a e Secretary, at the WV Depa	of land as follows: Each Note Public Road Act Generally used farm readdress, telephone authorized represented the control of Environment of Environment.	number, and if	f available, nal infor Mari of Mequation ges/default.a	535,8 4,375,4 Richard Dalliso	27.00 RT 20 n et al
Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di located at 601 57th Str	Big Roy Run of South Fork Fishing of the objectionic mail address of the orilling may be obtained from the eet, SE, Charleston, WV 25304	wv Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's a e Secretary, at the WV Depa (304-926-0450) or by visiting	of land as follows: NAD 83 Public Road Ad Generally used farm re address, telephone authorized representment of Environm g www.dep.wv.gov,	number, and if	f available, nal infor Mari of Mequation ges/default.a	535,8 4,375,4 Richard Dalliso ©EIVED Provil and G spx 1 0 2015	27.00 RT 20 n et al
Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di located at 601 57th Str	Big Roy Run of South Fork Fishing (de: nia Code § 22-6A-16(b), notice of drilling a hard for the purpose of drilling a hard for the purpose of drilling Roy Run of South Fork Fishing (de: nia Code § 22-6A-16(b), this not electronic mail address of the outling may be obtained from the eet, SE, Charleston, WV 25304	WV Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's a e Secretary, at the WV Depa (304-926-0450) or by visiting a Company Authorized	of land as follows: Each Note Public Road Act Generally used farm readdress, telephone authorized represented the control of Environment of Environment.	number, and if ntative. Additionental Protectio	f available, nal information ges/default.a	535,8 4,375,4 Richard Dalliso GEIVED FOIL and G spx 1 0 2015 Victo	27.00 RT 20 n et al
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Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di located at 601 57th Str Notice is hereby given Well Operator: Address:	Big Roy Run of South Fork Fishing of the obtained from the purpose of drilling a half of the purpose of drilling a half of the purpose of drilling a half of the purpose of drilling Roy Run of South Fork Fishing of the continuous delectronic mail address of the obtained from the purpose of t	wv Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's at Secretary, at the WV Depa (304-926-0450) or by visiting Company O Box 280 WV 26330 WV 26330 A-848-0076 Authorized Address:	of land as follows: NAD 83 Public Road Action of the second sec	number, and if ntative. Additionental Protectio	f available, nal information ges/default.a	535,8 4,375,4 Richard Dalliso GEIVED FOIL and G spx Victo Victo Hal Pile 11.0	27.00 RT 20 n et al DB ox 28 ON QBB3 848-007
Notice is hereby given: Pursuant to West Virgin the surface owner's lan State: County: District: Quadrangle: Watershed: Aunty This Notice Shall Include Pursuant to West Virgin facsimile number and e related to horizontal di located at 601 57th Str Notice is hereby given Well Operator:	Big Roy Run of South Fork Fishing of the objection and for the purpose of drilling a high Roy Run of South Fork Fishing of the control of the	wv Wetzel Grant un 7.5' Creek tice shall include the name, perator and the operator's as a Secretary, at the WV Depa (304-926-0450) or by visiting Company O Box 280 WV 26330 Authorized Address:	of land as follows: NAD 83 Public Road Action of the second sec	number, and if ntative. Additionental Protectio	f available, nal information ges/default.a	535,8 4,375,4 Richard Dalliso ©EIVED POII and Copx Victor Victor Hal Pike 1.0	27.00 RT 20 n et al DB ox 28 ON QBB3 848-007

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.

WW-6A5 (1/12) Operator Well No.

515949

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notice		ate Permit Applica	tion i neu.	June 8, 2015
Delivery meth	od pursuant to West Virginia Code § 22-6A-	-16(c)		
	IFIED MAIL HAN RN RECEIPT REQUESTED DELI	ID IVERY		
return receipt re the planned ope required to be po drilling of a horiz damages to the s	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owner that the notice required by this subsection sharovided by subsection (b), section ten of this artice zontal well; and (3) A proposed surface use and consurface affected by oil and gas operations to the equired by this section shall be given to the surface	r whose land will be u all include: (1) A copy cle to a surface owner ompensation agreem extent the damages a	sed for the drillin of this code secti whose land will ent containing an re compensable of	ng of a horizontal well notice of on; (2) The information be used in conjunction with the offer of compensation for under article six-b of this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)			
A STATE OF THE STA	isted in the records of the sheriff at the time of n			
Name:	Richard and Roxanne			Larry Larew
Address:	4832 Fairport Newtown Falls OH		_	12750 W Middletown Road
	/ given: st Virginia Code § 22-6A-16(c), notice is hereby giv		ned well operato	Salem OH 44460 r has developed a planned
Pursuant to Wes operation on the State:	st Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling www.	ven that the undersig	he tract of land as Easting:	r has developed a planned s follows: 535,880.400000
Pursuant to Wes operation on the State: County:	st Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling	ven that the undersig a horizontal well on t	he tract of land as Easting: Northing:	r has developed a planned s follows: 535,880.400000 4,375,427.000000
Pursuant to Wes operation on the State: County: District:	st Virginia Code § 22-6A-16(c), notice is hereby give e surface owner's land for the purpose of drilling a WV Wetzel	ven that the undersig a horizontal well on t UTM NAD 83	he tract of land as Easting: Northing:	r has developed a planned s follows: 535,880.400000 4,375,427.000000 RT 20
Pursuant to Wes operation on the State: County: District: Quadrangle:	st Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling of WV Wetzel Grant	ven that the undersig a horizontal well on t UTM NAD 83 Public Road Access	he tract of land as Easting: Northing:	r has developed a planned s follows: 535,880.400000 4,375,427.000000 RT 20
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	St Virginia Code § 22-6A-16(c), notice is hereby give a surface owner's land for the purpose of drilling a WV Wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: St Virginia Code § 22-6A-16(c), this notice shall include: and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama atted to horizontal drilling may be obtained from the ocated at 601 57th Street, SE, Charleston, WV 253	ven that the undersig a horizontal well on the UTM NAD 83 Public Road Access Generally used family clude: (1)A copy of this whose land will be used in agreement containings are compensable the Secretary, at the W	Easting: Northing: n name: s code section; (2 ed in conjunction ng an offer of conunder article six-	r has developed a planned follows: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al 2) The information required with the drilling of a inpensation for damages to the b of this chapter. Additional
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 relationages/default.as	St Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV Wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: St Virginia Code § 22-6A-16(c), this notice shall include: St Virginia Code § 22-6A-10(b) to a surface owner of and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama atted to horizontal drilling may be obtained from the ocated at 601 57th Street, SE, Charleston, WV 253 Spx.	ven that the undersig a horizontal well on the UTM NAD 83 Public Road Access Generally used fare clude: (1)A copy of the whose land will be us in agreement containings are compensable the Secretary, at the W	he tract of land as Easting: Northing: : m name: s code section; (2 ed in conjunction ng an offer of con under article six- IV Department of	r has developed a planned solution of follows: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al 2) The information required with the drilling of a supensation for damages to the bof this chapter. Additional solution of fenomental Protection dep.wv.gov/oil-and-gas/
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Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West of the provided by the prov	St Virginia Code § 22-6A-16(c), notice is hereby gives a surface owner's land for the purpose of drilling a WV Wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: St Virginia Code § 22-6A-16(c), this notice shall include: St Virginia Code § 22-6A-10(b) to a surface owner of and (3) A proposed surface use and compensation by oil and gas operations to the extent the dama atted to horizontal drilling may be obtained from the ocated at 601 57th Street, SE, Charleston, WV 253 Spx.	ven that the undersig a horizontal well on the UTM NAD 83 Public Road Access Generally used family used family used family used family used family whose land will be used agreement containing agreement containing are compensable to the Secretary, at the William (304-926-0450) on the Address: Address: 1 Bridgeport, William (1994)	he tract of land as Easting: Northing: : m name: s code section; (2 ed in conjunction ng an offer of con under article six- V Department of by visiting www.	r has developed a planned follows: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al 2) The information required with the drilling of a inpensation for damages to the b of this chapter. Additional fenvironmental Protection dep.wv.gov/oil-and-gas/

Oil and Gas Privacy Notice:

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WW-6A5 (1/12)

Operator Well No.

515949

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

Notice Time Re Date of Notice	equirement: notice shall be provided no late : 6/8/2015 D	r than the filing ate Permit App		on. June 8, 2015
Delivery metho	od pursuant to West Virginia Code § 22-6A-	16(c)		
	FIED MAIL HAN RN RECEIPT REQUESTED DELI	D VERY		
return receipt re the planned ope required to be pr drilling of a horiz damages to the s	/a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owner ration. The notice required by this subsection sharovided by subsection (b), section ten of this articental well; and (3) A proposed surface use and contain well; and (3) A proposed surface use and contain well; and (3) and gas operations to the equired by this section shall be given to the surface	whose land will	ne used for the drilling of a lopy of this code section; (2) the whose land will be used ement containing an offer cases are compensable under a	horizontal well notice of The information d in conjunction with the of compensation for article six-b of this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)			
	isted in the records of the sheriff at the time of no	otice):		
Name:	Ludlo M. M.	lartyn Name		
· · · · · · · · · · · · · · · · ·	Lydle M. M	iaităii iaaiile		
Address:		Box 7 Addre		
Address:	PO Jacksonburg WV	Box 7 Addre		
Notice is hereby Pursuant to Wes operation on the	PO Jacksonburg WV	Box 7 Addre 26377 Addre	rsigned well operator has do n the tract of land as follow Easting:	
Notice is hereby Pursuant to Wes operation on the State: County:	given: t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel	Post 7 Addres 26377 Addres 2637	rsigned well operator has do n the tract of land as follow Easting: Northing:	75 :
Notice is hereby Pursuant to Wes operation on the State: County: District:	given: t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel Grant	ren that the under under the horizontal well of UTM NAD 83	rsigned well operator has do nothe tract of land as follow Easting: Northing:	535,880.400000 4,375,427.000000 RT 20
Address: Notice is hereby Pursuant to Wes	given: t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel	Post 7 Addres 26377 Addres 2637	rsigned well operator has do nothe tract of land as follow Easting: Northing:	/s: 535,880.400000 4,375,427.000000
Notice is hereby 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	given: t Virginia Code § 22-6A-16(c), notice is hereby giver: wv wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: t Virginia Code § 22-6A-16(c), this notice shall incompany where and (3) A proposed surface use and compensation by oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536	ren that the under a horizontal well of UTM NAD 83 Public Road Acc Generally used whose land will be a agreement contages are compensate Secretary, at the	rsigned well operator has don the tract of land as follow Easting: Northing: ess: farm name: this code section; (2) The interest of compensation with the landing an offer of compensation with the WV Department of Enviro	ss: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al Information required the drilling of a tion for damages to the tis chapter. Additional tonmental Protection
Notice is hereby 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	given: t Virginia Code § 22-6A-16(c), notice is hereby gives: surface owner's land for the purpose of drilling a WV Wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: t Virginia Code § 22-6A-16(c), this notice shall include: t Virginia Code § 22-6A-10(b) to a surface owner wand (3) A proposed surface use and compensation by oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 px.	ren that the under the horizontal well of UTM NAD 83 Public Road Acc Generally used whose land will be a agreement contiges are compensate Secretary, at the D4 (304-926-0450)	rsigned well operator has do in the tract of land as follow Easting: Northing: ess: farm name: this code section; (2) The in the used in conjunction with the laining an offer of compensation ble under article six-b of this e WV Department of Environ) or by visiting www.dep.wo	Asis: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al Information required the drilling of a stion for damages to the sis chapter. Additional commental Protection to a sygov/oil-and-gas/
Notice is hereby 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	given: t Virginia Code § 22-6A-16(c), notice is hereby giver: wv wetzel Grant Big Run 7.5 Aunty Run of South Fork Fishing Creek I Include: t Virginia Code § 22-6A-16(c), this notice shall incompany where and (3) A proposed surface use and compensation by oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536	ren that the under a horizontal well of UTM NAD 83 Public Road Acc Generally used whose land will be a agreement contages are compensate Secretary, at the	rsigned well operator has do in the tract of land as follow Easting: Northing: ess: farm name: this code section; (2) The in used in conjunction with the aining an offer of compensa ble under article six-b of thi e WV Department of Enviro) or by visiting www.dep.wo	Asis: 535,880.400000 4,375,427.000000 RT 20 Richard Dallison et al Information required the drilling of a stion for damages to the sis chapter. Additional commental Protection to a sygov/oil-and-gas/

Oil and Gas Privacy Notice:

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515949

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE OF PLANNED OPERATION Notice Time Requirement: notice shall be provided no later than the filing date of permit application. APR Date of Notice: Date Permit Application Filed: APR 2 2 2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c) CERTIFIED MAIL HAND RETURN RECEIPT REQUESTED DELIVERY Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Richard B. and Jaynee C Dallison Name: Thomas P. Dallison Address: 28855 Shortline Hwy. 452 Trader Fork Road Folsom, WV 26348-6021 Folsom, WV 26348-6021 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: UTM NAD 83 Easting: 535,880,400000 County: Wetzel Northing: 4,375,427.000000 Grant Public Road Access: District: RT 20 Big Run 7.5 Quadrangle: Generally used farm name: Richard Dallison et al Watershed: Aunty Run of South Fork Fishing Creek This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: **EQT Production Company** Address: 115 Professional Place, P.O. Box 280 Telephone: 304-848-0082 Bridgeport, WV 26330

Oil and Gas Privacy Notice:

vroark@eat.com

Email:

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 of Gas 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.

APR 2 4 2015

Facsimile:

304-848-0040

WW-6A5
(1/12)

Operator Well No.

515949

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Ro Date of Notice	equirement: notice shall be provided no late	er than the filing	ication Filad.	APR 2 2 2015
Date of Notice	APR 2 2 2015 D	ate Permit Appli	ication rilea:	70-
Delivery meth	od pursuant to West Virginia Code § 22-6A	-16(c)		30-
	IFIED MAIL HAN RN RECEIPT REQUESTED DEL	ID IVERY		30311
return receipt re the planned ope required to be p drilling of a horia damages to the	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owne eration. The notice required by this subsection showided by subsection (b), section ten of this articontal well; and (3) A proposed surface use and contains a surface affected by oil and gas operations to the required by this section shall be given to the surface.	r whose land will b all include: (1) A co cle to a surface ow ompensation agree extent the damage	e used for the drilling py of this code section ner whose land will be ement containing an es are compensable u	or shall, by certified mail g of a horizontal well notice of on; (2) The information be used in conjunction with the offer of compensation for under article six-b of this chapter.
	provided to the SURFACE OWNER(s)			
(at the address l	isted in the records of the sheriff at the time of n	otice):		
Name:	Trenton D. D			Coastal Forest Resources dba
				Canatal Timbadanda Canana
Address:	2975 Barker F	Run Rd Addres	is:	Coastal Timberlands Company
Address:	2975 Barker F Pine Grove WV 26419		SS:	P.O. Box 709
Notice is hereby	Pine Grove WV 26419	9-8325		P.O. Box 709 Buckhannon WV 26201
Notice is hereby Pursuant to Wes operation on the State: County:	Pine Grove WV 26419 y given: st Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling WV Wetzel	ven that the under a horizontal well or UTM NAD 83	signed well operator n the tract of land as Easting: Northing:	P.O. Box 709 Buckhannon WV 26201 has developed a planned follows: 535,880.400000 4,375,427.000000
operation on the State: County: District:	Pine Grove WV 26419 y given: st Virginia Code § 22-6A-16(c), notice is hereby given surface owner's land for the purpose of drilling WV Wetzel Grant	ven that the under a horizontal well or UTM NAD 83 Public Road Acce	signed well operator n the tract of land as Easting: Northing:	P.O. Box 709 Buckhannon WV 26201 has developed a planned follows: 535,880.400000 4,375,427.000000 RT 20
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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as particle of Oil and Gas processes your personal information may be disclosed to other State agencies or third parties in the normal counties of the counties of the normal counties of the n

WW6-A Additional Surface Owners Trenton Dallison 2975 Barker Run Road Pine Grove, WV 26419-8325

Additional Surface Owner, Pit/Impoundment

Thomas P. Dallison 452 Trader Fork Road Folsom, WV 26348-6021

Trenton Dallison 2975 Barker Run Road Pine Grove, WV 26419-8325

Additional Surface Owner Access Road

Trenton Dallison 2975 Barker Run Road Pine Grove, WV 26419-8325

Coastal Forest Resources dba Coastal Timberlands Company P.O. Box 709 Buckhannon, WV 26201

Richard and Roxanne Funk 4832 Fairport Road Newton Falls OH 44444

Larry Larew 12750 W Middletown Road Salem OH 44460

Lydle M. Martyn PO Box 7 Jacksonburg WV 26377

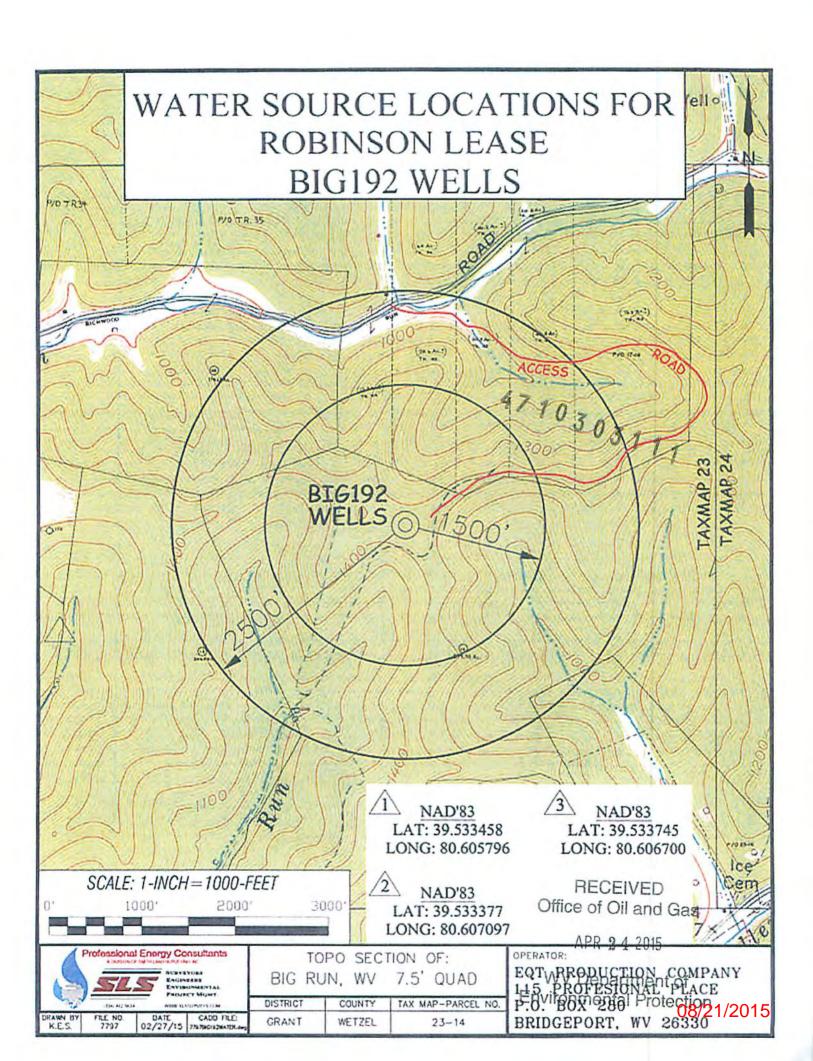
Additional Coal Owners

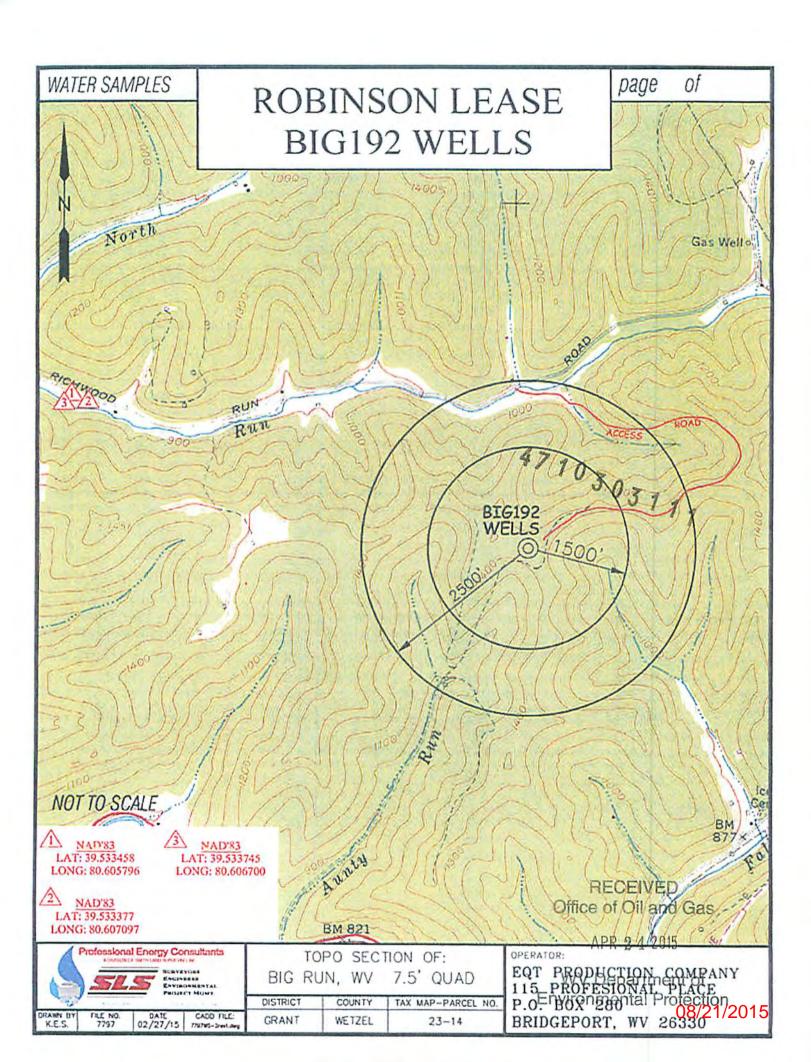
Consol Mining Company LLC CNX Center 1000 Consol Energy Dr. Canonsburg PA 15318-6506

CNX Land LLC Engineer Operations Support Dept. Coal 1000 Consol Energy Dr. Canonsburg PA 15318-6506 RECEIVED
Office of Oil and Gas

JUN 1 0 2015

WV Department of Environmental Protection







WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin Governor 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

March 12, 2015

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

4710303111

Subject: DOH Permit for the BIG192 Pad Site, Wetzel County 513921 BIG192H17 513922 BIG192H18

513949 BIG192H19

Dear Dr. Martin,

This well site will be accessed from existing Permit # 06-12-0519 issued to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 76 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-6, File RECEIVED
Office of Oil and Gas

APR 2 4 2015

WV Department of Environmental Protection 08/21/2015

Anticipated Frac Additives Chemical Names and CAS numbers

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

4710303111

RECEIVED
Office of Oil and Gas

APR 2 4 2015

WV Department of Environmental Protection 15

PROJECT INFORMATION

PROJECT NAME BIG 192 HI-HIA

THE PARCEL: GRANT DESTRICT MAP 23-14

RESPACE OFFICE BECKARD & DALLYSON ET AL GRANT DESTRICT WITTER, COUNTY BY TOTAL PROPERTY AREA 879,30 & ACRES

GIL AND GAS ROYALTY GWNER ED BROOM INC ET AL GRANT DESTRICT WATER, COUNTY BY TUTAL PROPERTY AREA. 1100 0 + ACRES

INTE LOCATEIN
THE NO. 192 ETE IN LOCATED DN A RIDGE SOUTH OF CO. MT. 74.
APPROXIMATELY 18.367 FT EAST OF THE CO. MT. 76 AND WY. MT. 50.
INTERSECTION.

LOCATION COORDINATES

HIG 19E HI-HIA WELL PAD ENTRANCE LATITUDE 29.534192 LONGITUDE -80.563105 (NAD.63) MG 192 HI -HI & WELL PAD LATITUDE DO LETSAL LINGITUDE -NO SHEEKS (NAD 63) NG 180 ASSOCIATED FIT LATITUDE 36 526521 LONGITUDE -60 581 420 (NAD 83)

SITE DISTURBANCE COMPUTATIONS

PAD/ADBOCIATED PIT/ADSOCIATED IMPOUNDMENT ASEA = 35.60 & ACREST ACCESS BRAID = 32.37 & ACRES TOTAL SITE SETTIMENCE = 60.60 & ACRES **
**INCLINES AREA OF THE WILL PAD, ADSOCIATED PIT, ASSOCIATED REPORTSUMENT & STOCKTED.

ENTRANCE PERMIT FOR PRODUCTION CONTANT WIL DRIVE AS EXCHANGED FROM (FOR MA-109) FROM THE WEST VINGORS DEPARTMENT OF TRANSPORTATION DEVELOR OF DESIGNATE, PROS TO COMMERCEMENT OF CONSTRUCTION

MISS UTILITY STATEMENT
MESS UTILITY OF WEST VIRGING AND ROTHER FOR THE LOCATING OF
OTILITIES PRICE TO THEE PROJECT BENEVI. TICKET (NEECOGOD).
IN ADDITION, MESS CTAILTY WILL BE CONTACTED PRICE TO START OF THE

FLOODPLAIN NOTE
THE PROPOSED LIMITS OF DESTURBANCE FOR THES PROJECT IS LOCATED IN
FRANTILOGO DONE X, PEX THE FLOOD INCLUANCE BATY MAY (PRO) MILITIES DELIZABLE TO. 2010.

ENVIRONMENTAL NOTES

A THIAND RELIGIOUS MAN PERSONNEL ON MARCH 25, 2011, WARCH 5 B 7, 2012, A JULT 10 A 16 1012 BF FORMSA EXCISIONES AND REFINONMENTAL COMMUNISTED RESIDENCE THE STORM WATER AND WITHOUT STREET AND WATER GENERAL DESCRIPTION

THE WELL PAD, ASSOCIATED PIT & ASSOCIATED PAPOUNDMENT IS BRING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV Chapter 24 C)
Requires that you call two
business days before you dig in
the state of West Virginia IT'S THE LAW!

BIG 192 H1-H14 SITE PI AN EQT PRODUCTION COMPANY

(PROPOSED WELLS NO. WV 513534, WV 513535, WV 513536, WV 513537, WV 513538, WV 513539, WV 513872, WV 513873, WV 513874, WV 513875, WV 513876, WV 513916, WV 513917, WV 513918)

> SITUATE ON THE WATERS OF TRIBUTARIES OF RICHWOOD RUN. FALLEN TIMER RUN. & AUNTY RUN IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.



BIG RUN QUAD



OPERATOR

API#10302819

API#10302820 API#10302821

API#10302822 API#10302823

API#10302824

API#10302825

API#10302826

API#10302827

API#10302828

EQT PRODUCTION COMPANY OPERATOR ID. SOMESS 115 PROFESSIONAL PLACE P.O. SOX 2780 BEDULEPORT, PT 28.536 PHONE (304) 345-2676

ENGINEER NAVITUS ENGENEERING, INC. 151 VINDY HILL LANE WINDHESTER, VA 22502 SURVEYOR PHINE (304) 482-5634

LIST OF DRAWINGS

I - COVER SHEET

3 - GVERALL PLAN VIEW

4 - WELL PAD ASSOCIATED FIT AND IMPOUNDMENT DETAILS

5 - STOCKPULE F & G

6 - STOCKPILE C. A. J. AND ACCESS BOAD TO BIG 233

6-12 - WELL PAD ACCESS BOAD DETAILS

15 - ASSOCIATED BUT RECTIONS

15 - STREAM CROSSING 'A' DETAILS

17 - STREAM CROSSING "C" DETAILS

23-33 - ROAD SECTIONS

34 - TEMPORANT SELEN DRAIN PROPERS





THE STATE OF

NAVITUS ENGINERING INC. Telephone (SE) and a series

277



192 G m

DATE 08/08/2012

CALE 1' - 2000 DESIGNED BY CEN PILE NO. TPOP MEET I OF 40

BIG-192 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PROJECT INFORMATION

PHOLECTIME DISTREBUILT STREET, AND

SURFACE OWNER HICHARD E DALLINGS ET AL FRANK DISTRICT WETTEL COURTY WY TOTAL DROWNING WALLANDS ACHTS!

ROYALTY OWNER
EI BEDOW JAC ET A
DRANT DATACT
METER COUNTY, WY
TOTAL PROPERTY MEA. THE MANNER.

SITE LOCATION

BIG 192 LOCATION COORDINATES

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MATERIAL PAR CONTRACTOR STANDARDS IN CONTRACTOR OF STANDARDS AND STANDARD STANDARDS OF STANDARDS AND STANDARD STANDARDS OF STANDARDS OF

INSTRUMENTAL PROPERTY OF THE P

SITE DISTURBANCE COMPUTATIONS

ORGANAL COD ACREGACE - 55 ME ACRES
PRESIDED ACRETANAL COD ACREAGE - 55 + ACRES
RECOSTURADET MINED LOD ACREAGE - 55 + ACRES
RECOSTURADED AREA RETRIBUTOR - 2 + ACRES

TOTAL ACREAGE AFTER MEDIFICATION OF APPROVED - SE THAN OUR

GENERAL DESCRIPTION

THE RELLAND AND AND CHARGE AT HAVE BEEN TOUR HEATTH GOTO AGE. THE LINKS LEWING CO.

BIG 192 AS-BUILT DISTURBANCE

BUMACE DANKS	THE MATERIALISA	DISTURBANCE INC.
CONSTAL FOREST RESOURCES COMPANY	1021-0	(23)
THOMAS & WYATT ET AL	terzak	0.00
ROMAD & DALLBON ET AL	1182214	21.53
COACTAL LONGER COMPANY	297714	1291

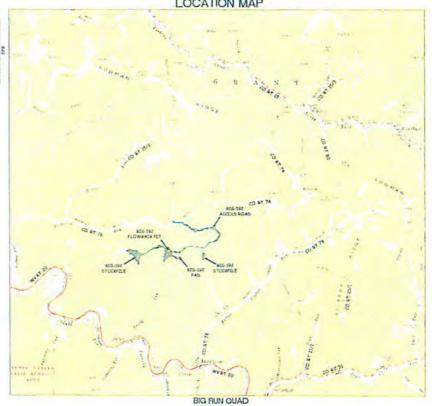
MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia IT'S THE LAW!

EXISTING WELLS API NO's: 47-103-02819, 47-103-02825, 47-103-02826, 47-103-02824, 47-103-02820, 47-103-02823 47-103-02822, 47-103-02821, 47-103-02827, 47-103-02828, 47-103-02855, 47-103-02900, 47-103-03040, 47-103-03041, 47-103-03042 & 47-103-02855

PROPOSED WELLS: WV 513921, WV 513922, WV 515949, WV 515950, & WV515951.

SITUATE ON THE WATERS OF TRIBUTARIES OF RICHWOOD RUN. **FALLEN TIMBER RUN & AUNTY RUN** IN GRANT DISTRICT, WETZEL COUNTY, WEST VIRGINIA.

LOCATION MAP



SCALE: 1-2000'

Gas 2015 LIST OF DEAMINGS > 4

MINCEXPRETY LL · HSHINKEES HOOF 7-BIG 102 ACCESS HE PASSALE (1) 00

U BO SEACTED HOAD PROPER

IN CONSTRUCTION DETAILS

10 CONSTRUCTION OF TALK

THE RECLAMMENT DETAILS

EX DUDSTATUD SETLAND

CHEMIL CROWNS S CONTOURS
AS BEES 2 CONTOURS
PROTED NUMBER & LOCATIONS
AS BUILT WELL LOCATIONS
SPORT STREET LOCATIONS
SPORT SERVICES ARTHTORIAL LINE AREA

EX STRUCTURE EX PUPILINE WHILE EDGE OF GRAVEL PAR EDGE OF DEMA EDGE OF DEMA EX SCIPES BILT FLACE EX RESPENCES THE PENCE.

LEGEND CHARTS OF BUSTOWNINGS CHAPTE OF DESTINANCE CONSTRUCTOR OF PARTIES FORCE OF DESTINANCE OF RECORD OF PARTIES OF IX OCCURRACY VOLUME EX OCCURRACY OF A CANADA EX OCCURRACY OF A CANADA EX CALINE AVE EX RAINCIPAC THE EX RAINCIPACE THE EX RAINCIPACE THE EX RAINCIPACE THE

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Protection

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BIG-192 SITE PLAN MODIFICATION THE DOCUMENT WAS PRETARIED BY BATH LAND ELECTIVES INC. FOR EUT PREDACTION COMPANY

DATE OF 11-15 SCALE 1'- 2000

DOMEST PE THE

FILM NO 1707 DOTE 1 107 17

4-27-15

DAH

BIG-192 AS-BUILT SITE PLAN CONSTRUCTION NOTES

CONSTRUCTION NOTES:

- 1 METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS HERSIN SHALL CONFORM TO THE CASHION COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS AND OR DIMINENT WASHIN ENGSION AND BEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANGIAL
- 2 DEADLINES TO CONTROL EROSION AND SICTATION, INCLUDING DETENTION PONDS DERVING AS SALT BASING DURING CONTRUCTOR MUST BE PROVICED PRIOR TO ISSUMACE OF THE SITE DEVICEDPEN OR THE SITE OF THE SITE O AS ACENT OF THE RESPONSIBILITIES CONTAINED IN THE WASEF EROSION AND DEDIMENT CONTROL DEST MANAGEMENT PRACTICE MANUAL
- AN APPROVIDE EFF OF PLAND AND ALL APPLICABLE PERSONS BY AVAILABLE AT THE CONSTRUCTION BITE. ALSO A REPRESENTATIVE OF THE DEVELOPER MUST BE AVAILABLE AT ALL
- A THE CONTRACTOR SHALL PHOUSE ADEQUATE MEANS OF CLEANING MODERN MINUS RIVERS AND OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS AND IT IS THE CONTRACTORS HESPONDBULLTY TO CLEAN STREETS ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE MECESSARY TO ENSURE THAT THE STREETS ARE MAINTAINED IN A CLEAN MUSICAND DUST FREE
- 5 NOT FIGATION SHALL BE GIVEN TO THE APPROPRIATE LITELY CONVANY EVENT TO CONSTRUCTION OF WATER AND OR GAS FREI INST. RECOMMEND DELLAD ALSO BE DETANDED FROM THE ANYHOMENTE ALTHORITY CONCERNING PERINTS OUT SHEETS, AND CONNECTIONS TO EXCEEDING
- 5. THE LOCATION OF EASTING UTLITIES SHOWN IN THESE PLANS ARE PROVINCED LOCATIONS. IT SHALL BE THE CONTRACTORS RESPONDIBILITY TO VERBY THE EXACT HORSIGNAL AND VERTICAL IDCARDS OF ALL EXIGITAL STUTISTICS AS INCOME PRICE TO CONTRACTOR. THE CONTRACTOR SHALL SHOWN THE EXAMED FOR ANY CONFIGURATION OF THE CONTRACTOR.
- THE DEVELOPER WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS AND UTBLIFFE WHICH DOCUME AS A RESULT OF HIS CONSTRUCTION PROJECT WITHIN OR CONTIQUOUS TO THE EXISTING RIGHT OF WAY
- Wien Grading is Proposed within Easements of Utilities, Letting of Pyhnosion From All INVOLVED COMMACS MUST BE OSTAINED PRICE TO GRADING AND OF SITE DEVELOPMENT.
- # THE DEVELOPER WILL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITIES WHICH IS HEIGHAED AS A RESULT OF HIS PROJECT. THE RELUCATION SHOULD BE DONE FRIOR TO
- TO THE CONTRACTOR IS TO WHIPP PIELD CONDITIONS PRICE TO AND DURING CONSTRUCTION AND EMITH LAND DURNEYING AT (201) 462-5534 MINICIPATELY OF ANY DISCREPANCES BETWEEN ACTUAL FIELD CONCRIDEN AND THE APPROVED FLAN.
- 11 CONTRACTORS SHALL NOTIFY OPERATORS WHO RMINTAIN UNDERBROUND LITELTY LINES IN THE AREA OF PROPOSED EXCAVATING OR BLASTING AT LEAST TWO (2) WORKING DAYS, BUT NOT MORE THAN TEN (N) WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OF DEMOLITICAL
- 12 CONTRACTOR TO CONTACT OPERATOR AND ENGINEER IF GROUNDWATER IS ENCOUNTERED DURING. CONSTRUCTION
- 13 ALL EVENSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR DALY AND CHECKED AFTER EVERY RASIFALL. ALL DRAIN HALFTS DIVALL BE FREE OF SETATION AND DERRIC INSPECTIVE MEASURES DIRECT THE REPLACED AS IN CESSAGE
- 14 THE CONTRACTOR SHALL SCHEDULE APPERCURATE ACTION WEET WAS WITH THE EROSION AND REDIMENT CONTROL BISPECTOR, 2 DAYS PROB TO THE START OF CONSTRUCTION

SITE CLEANUP & RECYCLE PROGRAM

- 1 GARGAGE FURLS DR ANY SUBSTANCE HARMUL TO HUMAN AQUATIC QUI PISHTUFE, DHALL BU PREVENTED FROM ENTER GENERAL BU PREVENTED FROM ENTER GENERAL BU PREVENTED
- 2 DES, FUELS LUBRICANTS AND CODEANTS BYALL DE PLACED IN SULTABLE CONTANTINS AND DEPOSED
- 1 ALL TRACH AND DAMBAGE WILL BE COLLECTED AND DEPOSED PROFEER F
- ALL DECIMENT REMOVED FROM SECURING CAPTURING DEVICES SHALL HE PLACED AT AN AREA IN THE PLANT IN TALE ROUND THEY THEN INSECTO AND TRACHED

MAINTENANCE PROGRAM

ALL MAINTENANCE ACTIVITIES WILL BE PENFORMED BY THE CONTINUCTION PHASE OF THE RODUCT LIBON COMMETCION OF THE ACTIVIC CONSTITUCTION PHASE OF THE RODUCT LIBON COMMETCING OF THE ACTIVITIES PHASE. PLEAD DEGISLED DESCRIPTION OF ACTIVITIES

- 1 DOME VALUE HIS PROTECTED ON A WEEKLY BASIS AND AFTER EACH MEASURASKE RANGALL EVENT DUTING THE ACTIVE CONSTRUCTION PHASE OF THE PROJECT.
- 2 ALL REVESETATED ACCESS HOADS AND PACIFIES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF
- SELVERTS, ROAD DITCHES WINDAD BASED DIPS, INVERSION DITCHES, AND HOCK CHEEK DAMS MUST BE MANTANED IN PROVEN WORKING ORDER AND WALL BE CLEANED DUY. REPARKED, OR REPLACED AS INCRESSARY.
- 4 FALTER STRIFT AND ON BLT PENCE WILL BE IMMERSED.
- A ALL AREAD OF EARTH DISTURBANCE WILL BE REPARRED BY MESE SIGNS DE ACCELERATED ENCOCON AND
- ESSENCE AND THE CHING WILL BE REPEATED IN THOSE MICES THAT WHICH TO BE PAILING DEHALD. FALSO.

CONSTRUCTION COMPACTION

- ALL FILL AREAS WILL UTILIZE A TOE BONCH AND WILL BE: WORLD BY FILL WELL BY PLACED BY 12" MAXISON LODGE LIFTS MAXIMUM PARTICLE BUTCOFF COMPACTED TO SOL PILM STANDAMINI PROCEDUR 12" MAXIMOM WITH A VORATHED STREET POOT ROLLER AND OW A LEVEL DURPACE.
- 2 ANY AREAS BACKFELED CURRIS RECLAMATION VALUE OF CONFLETED USING A MARANES IN LETTER CONFIDENCE AND VALUE COMPACTED TO ATLEAST 50% OF THE STANDARD PROCESS (ASTIM D.C.).

CONSTRUCTION SEQUENCE

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2 ADEQUATE OUTLET PROTECTION SHALL BE INSTALLED AT ALL EXISTING CLAVERTS.

I HOOK CHECK DAINS SHALL HE RESTALLED IN ALL EXISTING DISCHLINES AS NECESSARY

. ACCITIONAL GRAVEL SHALL BE PLACED ON THE WELL PAD AND ACCESS ROAD AS NECESSARY

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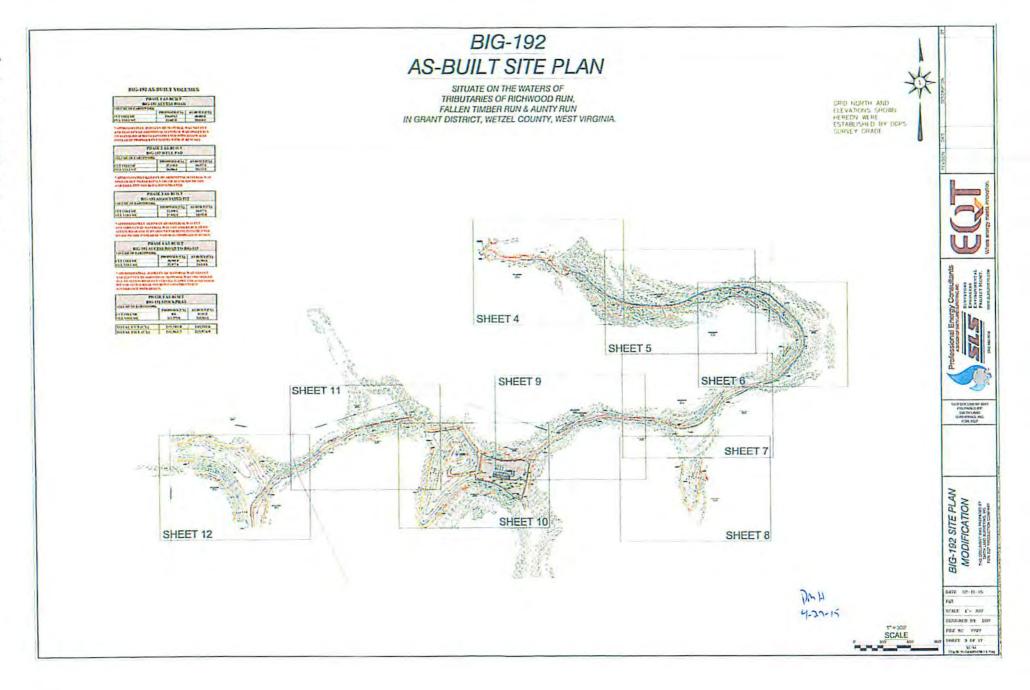
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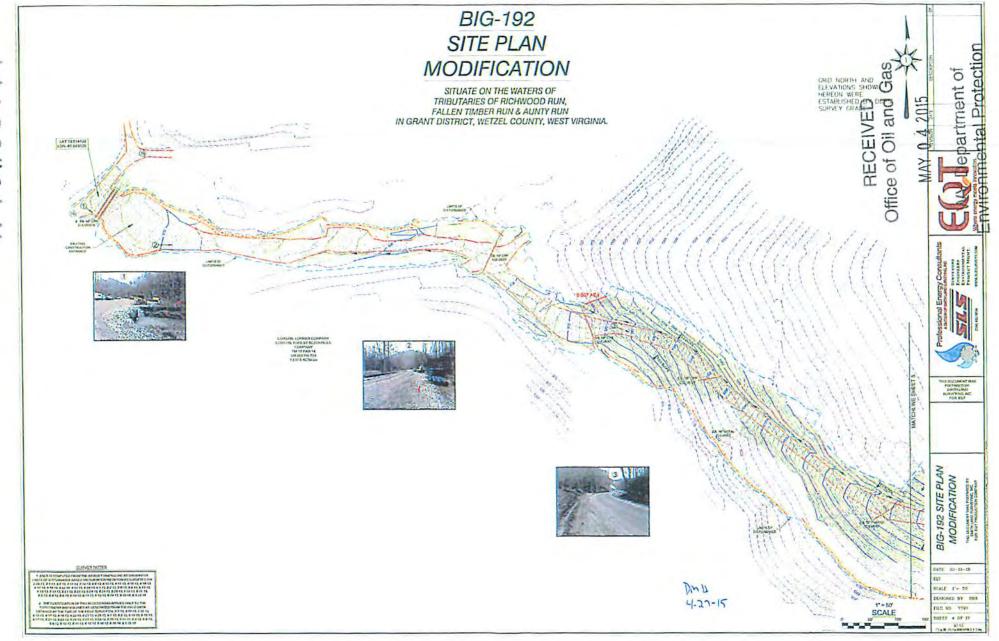


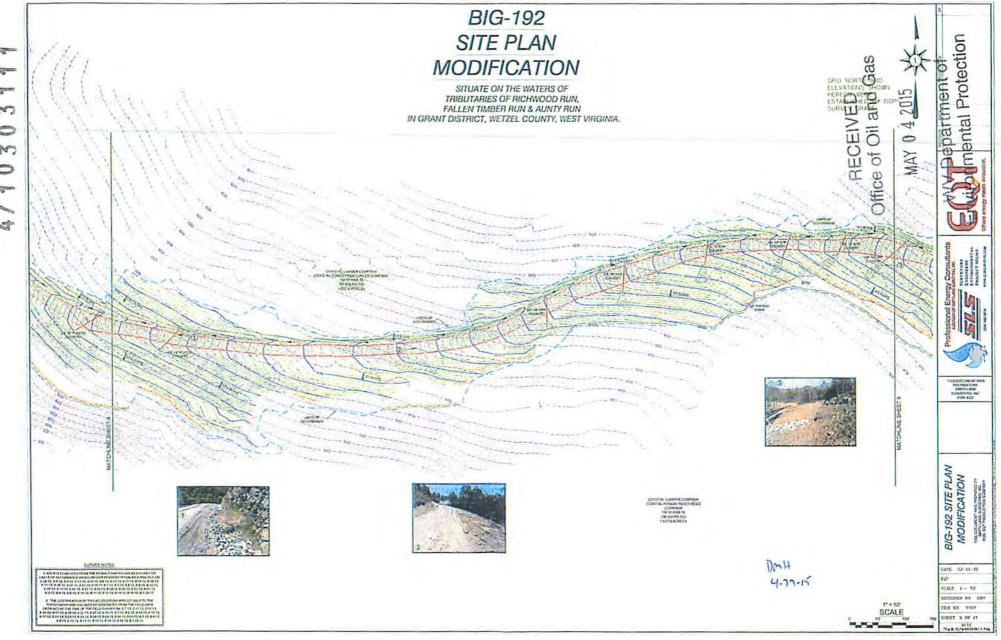


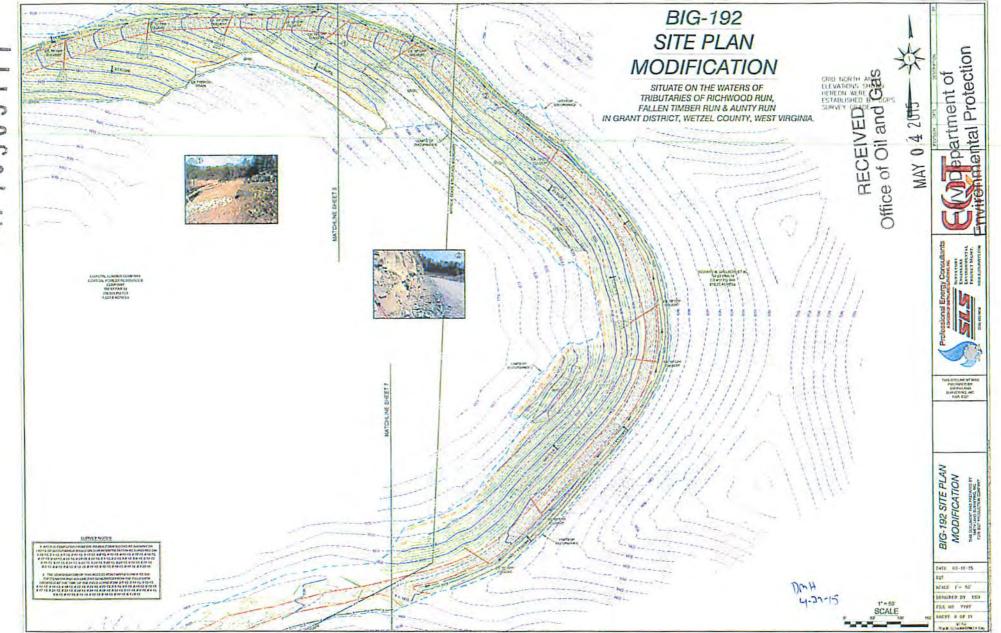
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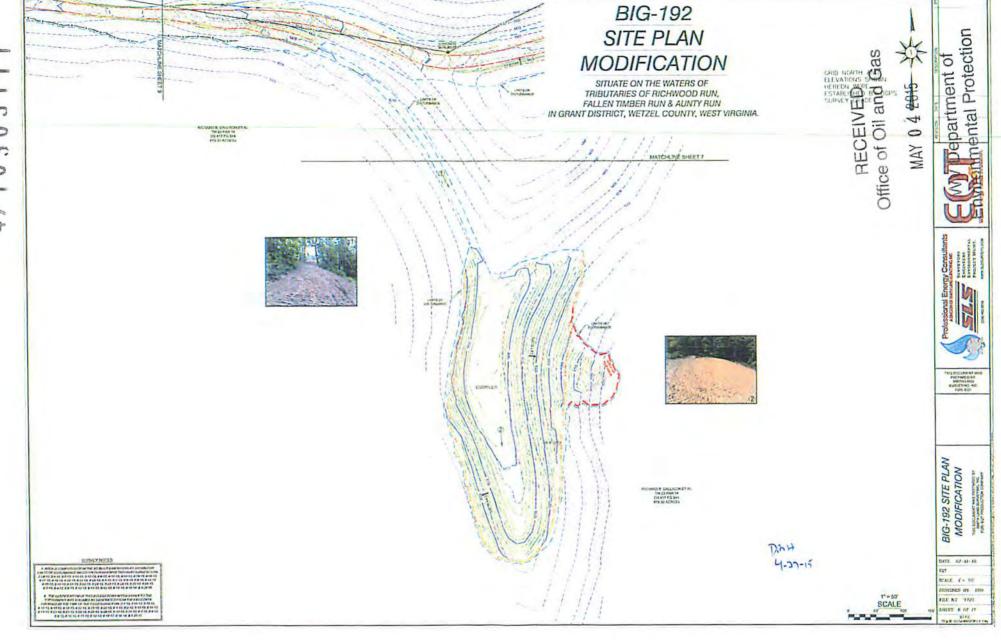
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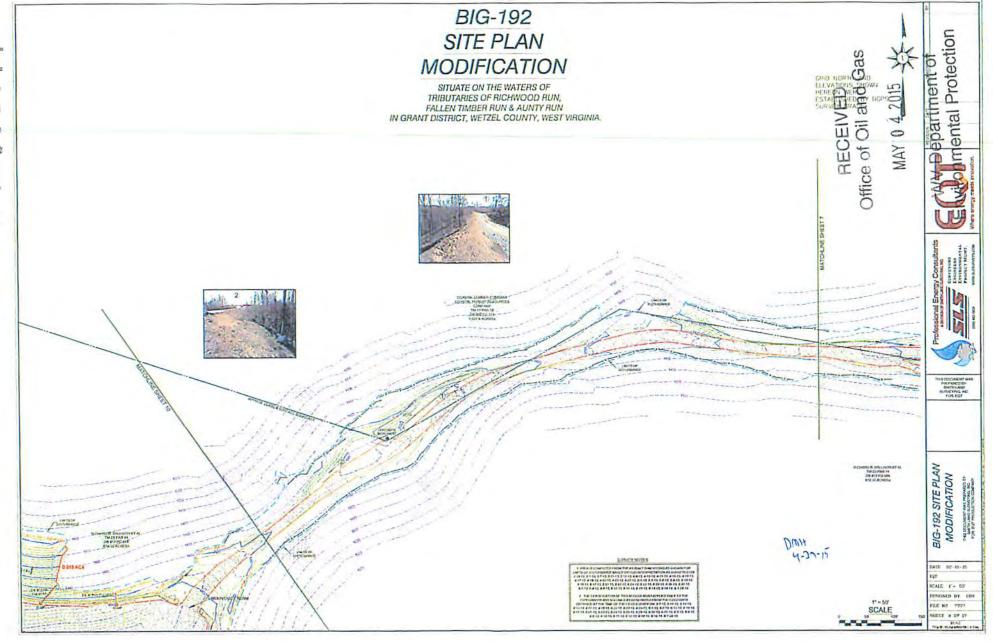


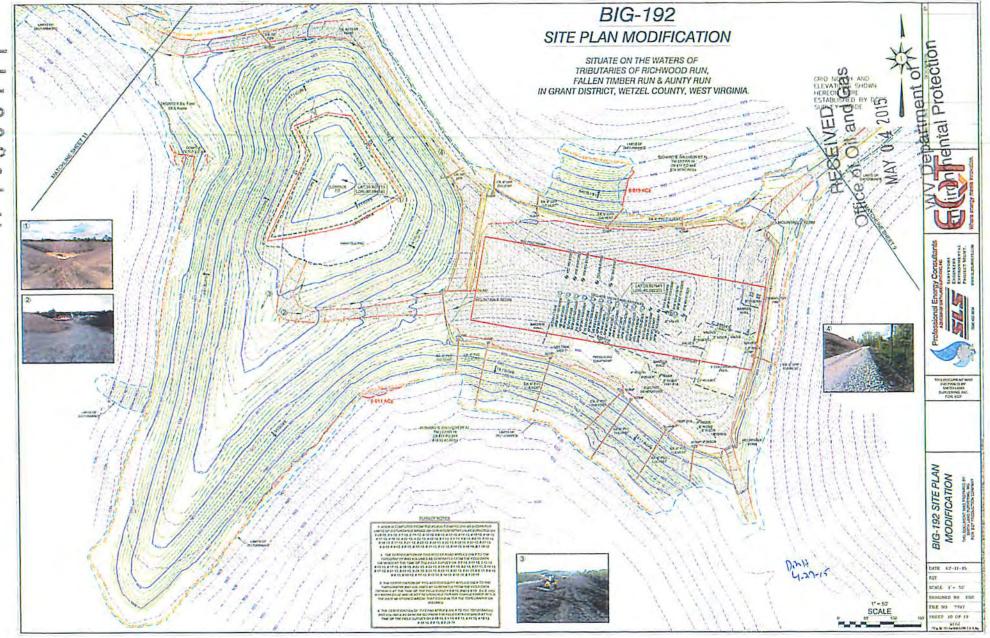


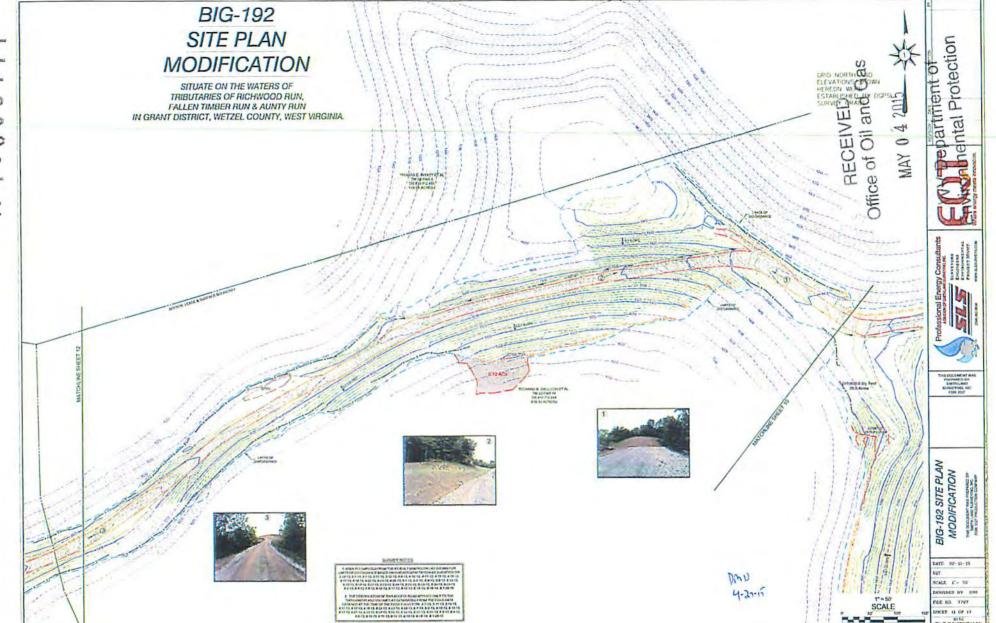


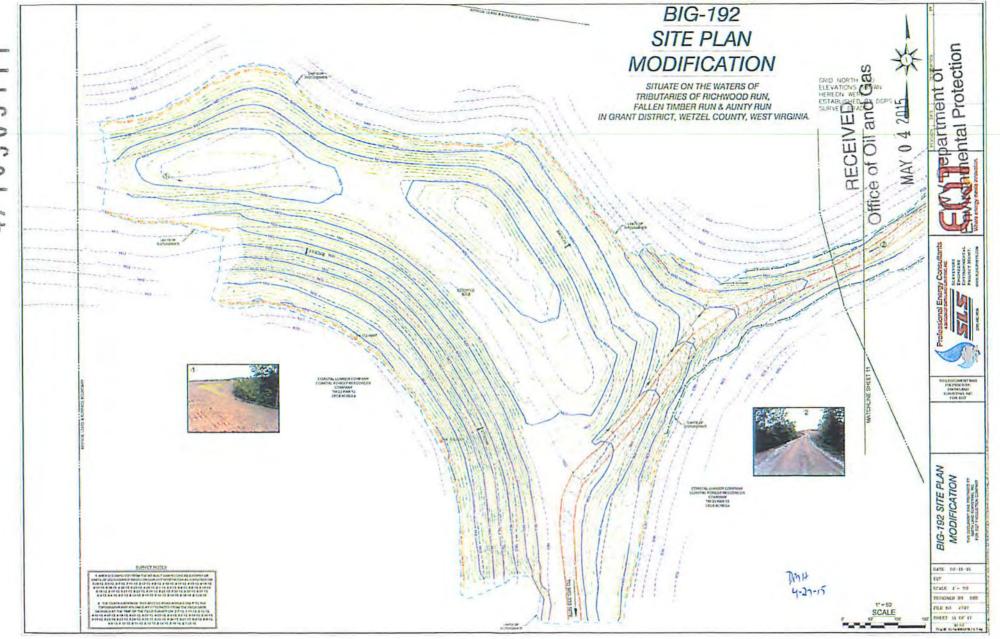


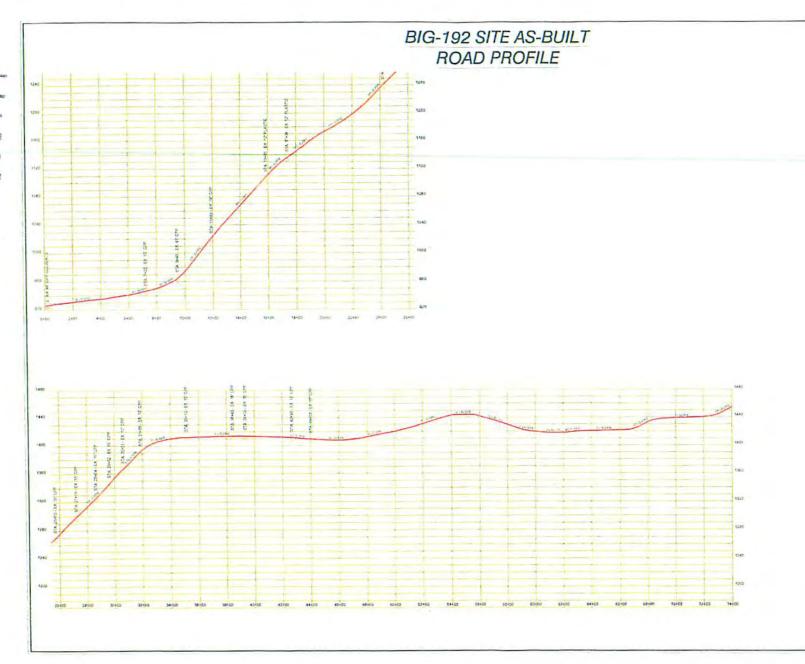














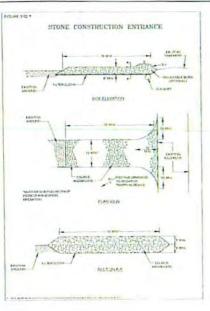


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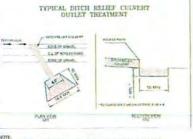
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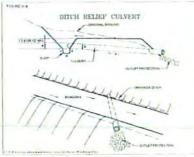
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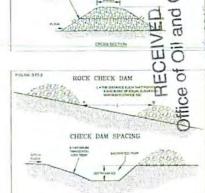






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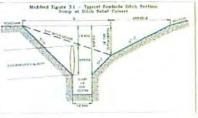
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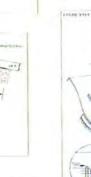
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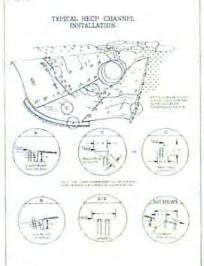
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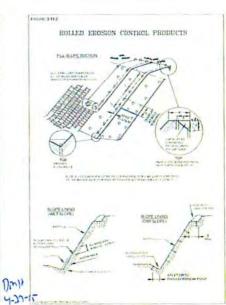
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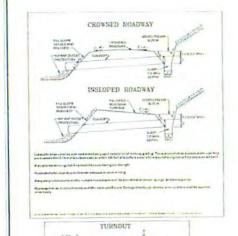
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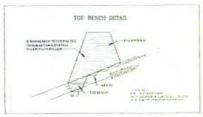


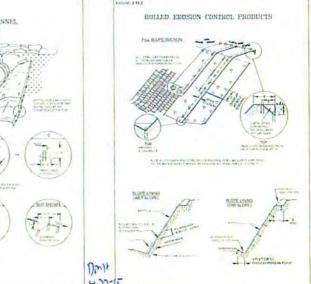




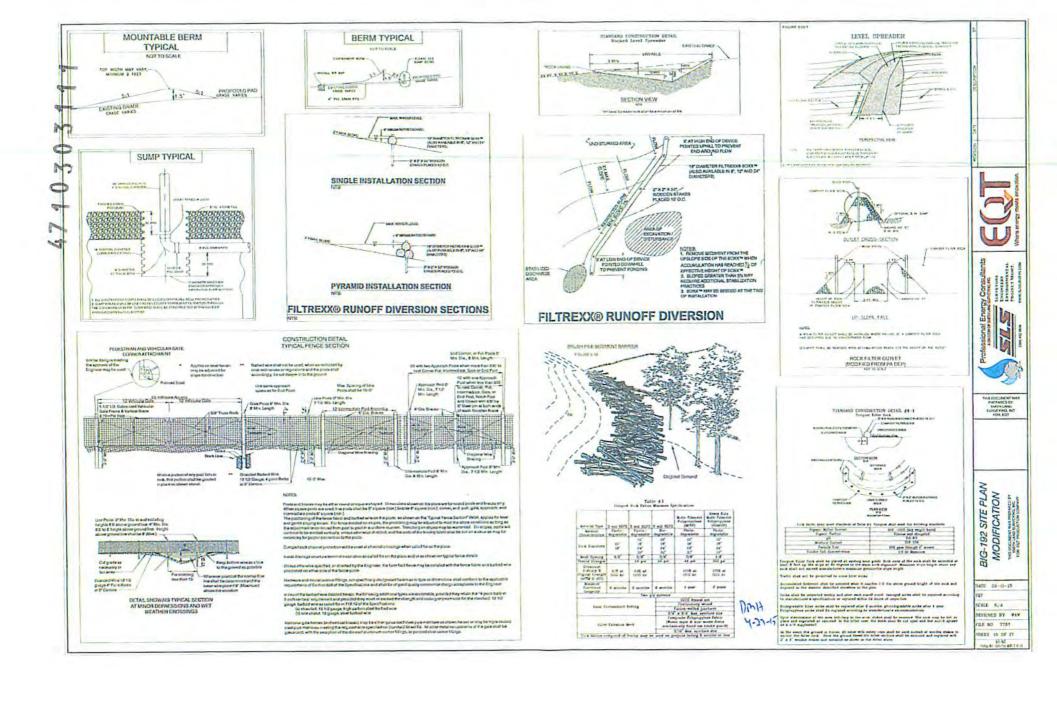


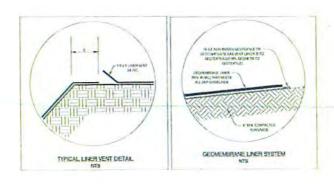


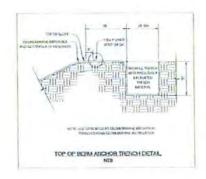


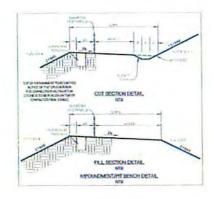


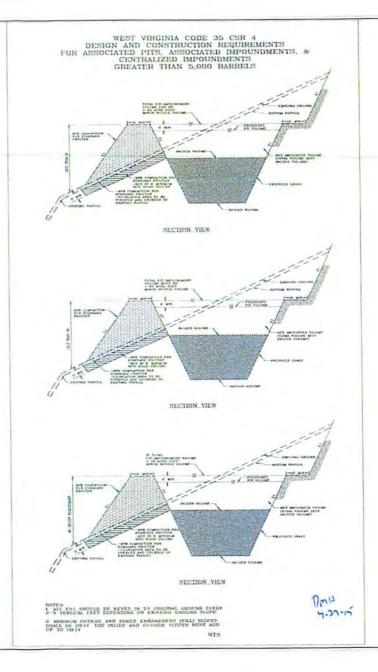












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Table 14:3

HETSILLINGS SERVICE DAILS				
Flaming Dates	Syltrikity			
March 1 - April 15 and August 1 - October 1	Best Seeding Perlants			
April 15 - August 1	HIGH TISK - mouture stress likely			
Chimires 1 - Dansmites 1	HIGH Risk - ferrise damage to young weedings			
December 1 - Murch 1	Good spetting period. Domains sending			

Table 2

Species N (tra/ac) P205 (tra/ac) Example Rec. (per sore				
Coul Sevene Grana	45	50	400 Bu 10 70 23	
CS Graw & Legistre	33	80	SiQ In. 10-20-20	
Temporary Cover	43	40	2003/4-19-13-19	

Spacies	Seeding Rate (tin/acre)	Optimizer Sweding flater	Drainzge.	politicange
Arread Dyrgons	40	M1-M15 or M15-9/15	Web - Foreig	55.75
field framegrass	40	3/1-6/15 or 3/15-9/15	Welt-Most, Well	68-70
Spring Data	99	3/2 - 1/15	Well-Poorly	33-70
Sunfargross	43	5/15-8/15	Wirls - Priorly	15 75
Water Rye	25.85	A/15 - 10/15	Well-Poorly	55-75
Winter Wheat	180	8/15-11/15	Well - Most Well	55-70
Japanose Millio	33	6/13 - 9/15	Well	45 70
Reday	5	3/3 - 6/15	Well	40.75
Acrosal Ryegrass	26	1/1-6/15	Well-Parry	15.75
Spring thins	54	1/1-6/15	Well - Petaly	55-25

Table to

Fermanant Seeding Mixture				
Sentiney Meture	Seeding fleta (Bri/erra)	Sol Drainage posterance	priRente	
Crawmenth /	10-11	Med-Mod Worf	50-75	
Tall Propose	30	today word duty	29.18	
Crownertch /	10-11	Wint-Mad World	10-75	
Personnel Burgrant	70	Shirt and bear		
Flatmen or Personal Pas /	20	Worlf - Shad, Well	40-80	
Tall Faccus	25	Man and the		
Ladrie Clower /	53			
Serecia Lespederia /	25	Wolf- Mod. Wolf.	45-75	
Tall Festure	2			
Tail Fencire F	40			
Indian Charte /	,	Marie Adval Mich	50 75	
Andrea				
Crownwich/	g/b			
Tult Pentine /	2:01	Wyll - Mad. Well	5.0-75	
Rendiscope	3			
Taff feature /	43			
Birdshain Trefold /	\$50	Strik - Mond Start	10 75	
Endop	1			
Serecia Lespedous /	25			
Tall Festure I	80	taket - house loves	45-75	
Technic				
Redirp /	20			
Tab fraction /	3	DAY MAK WIT	53.75	
Consumer Red	55			
Toll Francis	5.0	Well - Footly	45.75	
Percentul Ruegraus /	30			
Tall Fescure /	25	Well-Powly	58-80	
Latheu Flatena *	20			

The base of the same is a consequent to the same and the prior to sending. For unprepried sendleds in studing biolists the columns from home, and SSTS more send to the specified race

Missues listed is bold are avoid for one in attribut emotions settings, those in its leasure summit for one is fitter alright.

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Wildlife and Farre Friendly Seed Mintures				
Speciary Mirture	Sauding Rate (Re/acre)	Soll Drainage profesence	ph Kangi	
KY Divergence /	30			
Rediisp /		Well-Mod Well	5.5-7.5	
Lating Clover or Birdsford Treful	2/10			
Timothy /	3	West - Med West	6.5 - RD	
Altalia	12		2.40	
Timothy /	5	Well-Foore	55.75	
Biodefoot Trefoil		40.00. 1.00.00	3.3 7.3	
Orchwellerons /	10			
Ladina Choer /	2	Wind - Edged, Wind	35-75	
Redtoye	3			
Orchardgenss /	30	HERE After Well	59-76	
Lastina Chwer	2	ters and true	22.11	
Distractigions /	20	Attell - Affred Valid	55.75	
Perential Ryegrans	10	CALL . WHEN THESE	23-23	
Creeping Sted Fescus / 30		MONTH Arrest MICH	55.75	
Personal Sysgram	26			
Dicharderius of KV Muterius	20	Weil-Mod Well	6.0-7.5	
tirdatast Trefoil /	15			
Section /	3	West Mint West	55-75	
Orcharperave	20			
Lethop Physics */ 29		Well-Mod Well	55-75	
Personal Everyone	23	SART - MONG. ARRIV	33-73	
Lathur Flatues */	92	West-Mark West	55-75	
Orchanteress	29	AND - PER AND	39-75	

* Lesboy' Dissert is processed actions as to some locater & Afficiency's should be started with proper investors process. seeding. For waveground seedbach or seeding outside the Johnson timeframe, and STC, more send to the specified rate

Maker's fixed as bold are suitable for one of shaded woodland settings; those to make one suitable for one of filter steam.

Table N/S

Lime and Fertilieer Application Table				
pit of test	Lime in Tota per Acre	Fertilizer, they per Acre (50-25-25 or Equipment)		
Fârtive 6-0	1	500		
1910-60	3	500		
String 5.0		500		

The pricantle determined with a perceive pill testing lift are by screening the soil amounts to a soil testing following After 4 tors of lines per sone are unabled it must be recovered into the soft by disting be sharing or tracking or

Table 14-6

Mulch Muterials Reter and Uses			
Material	Minimum Rates par acre	Coverage	Samacks
Hay or Straw	2 to 9 Torrs 100 to 150 bules	Cover 75% sa 50%. of Surface	Subject to mind hitseing or washing union ted drawn
Wood Fiber Pulp Fiber Waret - Cellulaum Recoculated Paper	5000 to 1500 bs	Envir all Inducted Arms	for hydrounning

Falses IV 1.4 sizes from National Resources Commencials Service Medical Extra Assortances.







BIG-192 SITE PLAN MODIFICATION THE DOCUMENT HAS PROPARED BY GARTH LAND PLOTE THAT HAD FOR EQT PROSACTION COMPANY

DMH 7-27-17

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