

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: 47-10303110, 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.

James Martin

Chief

Operator's Well No: 513922

Farm Name: DALLISON, RICHARD

API Well Number: 47-10303110

Permit Type: Horizontal 6A Well

Date Issued: 08/18/2015

API Nu	ımber:		
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PERMIT CONDITIONS

4710303110

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

CONDITIONS

- 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)

4710303110

API NO.	<u>47</u>	٠.	103	03110
OPERATO	R WE	T NO	. <u> </u>	513922
Well Pag	l Nar	ne:		 BIG 192

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION7655

1) Well Operator:	EQT Production	n Company		306686	103	4	254
,				Operator ID	County	District	Quadrangle
2) Operator's Well	Number:		513922		_Well Pad Name		3IG 192
3) Farm Name/Surf	ace Owner :	Ri	chard Dallison	et al	_ Public Road Ac	cess:	RT 20
4) Elevation, curren	it ground:	1,452.0	Elevati	ion, proposed p	ost-construction:	1,452.0	<u> </u>
5) Well Type: (a) G	as•	_ Oil	Und	derground Store	age		
0	ther				· · · · · · · · · · · · · · · · · · ·		
(b)	If Gas:	Shallow	•	Deep			
	н	lorizontal	•			Dm.) 1	
6) Existing Pad? Ye	es or No:	yes				8-3-19	5
7) Proposed Target	Formation(s).	Depth(s). An	icipated Thickn	esses and Ass	ociated Pressure(s):	
Target formation is	• •		•		e 53 feet and antici		ure of 2620 PSI
Top of Marcellus at	7631						
8) Proposed Total \	/ertical Depth:			-	7655		
9) Formation at Tot	al Vertical Depti	າ:			Marcellus		
10) Proposed Total	Measured Dept	h:			13850		
11) Proposed Horiz	ontal Leg Lengt	h			4,870		
12) Approximate Fr	esh Water Strat	a Depths:			549, 581, 7	80	
13) Method to Dete	rmine Fresh Wa	ater Depth:			By offset we	ells	
14) Approximate Sa	altwater Depths:				2257, 2370		
15) Approximate C	oal Seam Depth				804, 919, 1009, 1	240	
16) Approximate De	epth to Possible	Void (coal n	nine, karst, othe	er):		None repo	orted
17)Does proposed	well location cor	ntain coal se	ams directly ov	erlying or			
adjacent to an	active mine?			Y	es	No <u>x</u>	
(a) If Yes, prov	ide Mine Info:	Name:					
		Depth:					
		Seam:					
		_					

Page 1 of 3

Received

Office of Oil & Gas

AUG 1 0 2015

4710303110

WW-6B (4/15)

Liners

API NO. 47 -	103	<u> </u>	03110
OPERATOR WELL NO.			513922
Well Pad Name			BIG192

CASING AND TUBING PROGRAM

18)	, - · 				 -		
TYPE	<u>Size</u>	<u>New</u>	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u>		<u>(lb/ft)</u>	<u>Drilling (ft)</u>	<u>Left in Well</u>	Fill- up (Cu.Ft.)
		<u>Used</u>				<u>(ft)</u>	
Conductor	26	New	MC-50	77	40	40	49 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	974	974	847 C.T.S.
Coal	_	-	_			_	
Intermediate	9 5/8	New	A-500	40	2,765	2,765	1,079 C.T.S.
Production	5 1/2	New	P-110	20	13,850	13,850	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
						-	

M H 8-3-15

				3)	
TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> (in)	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	1.27/1.86
Tubing							
Liners		1					

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

Received Office of Oil & Gas AUG 10 2015

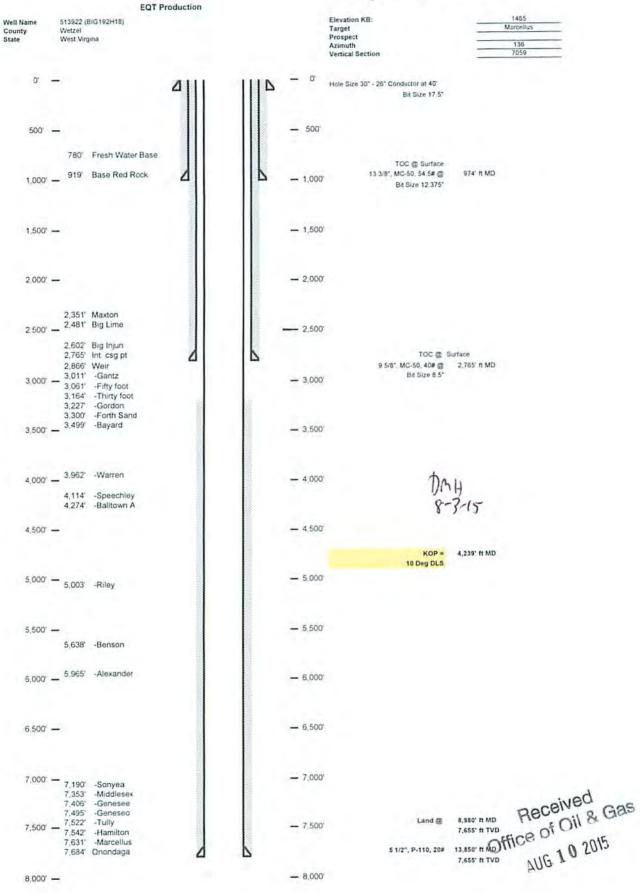
WW-6B 4710303110	API NO. 47 - 103	03110
(10/14)	OPERATOR WELL NO.	513922
,	Well Pad Name:	BIG192
19) Describe proposed well work, including the drilling and plugging back of any pilo	ot hole:	
Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to a	an approximate depth of 4239. Then kick	
off the horizontal leg into the Marcellus using a slick water frac.		
20) Describe fracturing/stimulating methods in detail, including anticipated max pres	ssure and may rate	
hydraulic fracturing is completed in accordance with state regulations using water recycled from previous		
reshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals		
pelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "sl		
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum anticipate		
approximately 100 bpm. Stage lengths vary from 150 to 360 feet. Average approximately 200,000 barro	els of water per stage. Sand sizes	
vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.		
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 every 500'.		
 Intermediate: Bow spring centralizers - One at the shoe and one spaced every soo: 	or 200,	
Production: One spaced every 1000' from KOP to Int csg shoe	y 500 .	
24) Describe all cement additives associated with each cement type. Surface Used to speed the setting of cement slurries. D.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to	(Type 1 Cement): 0-3% Calcium Chloride	
ntermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature f		
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drill		
to a thief zone.		
Production:	DMH 8-3-15	
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.		
0.3% CFR (dispersant). Makes cement easier to mix.		
Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.		
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.		
60 % Calcuim Carbonate. Acid solubility.		
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.		
25) Proposed borehole conditioning procedures. <u>Surface</u> : Circulate hole clean (Approximate)	mately 30-45 minutes) rotating & reciprocating	ł
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, c	<u> </u>	
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill	I, bring compressors back on	
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indic	cates washouts that will not clean up.	
Intermediate: Circulate hale clean (Approximately 30-45 minutes) rotating & reciprocating one full	joint until cuttings diminish at	

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume CP. Of Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across 10 2015 the shakers every 15 minutes.

surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance

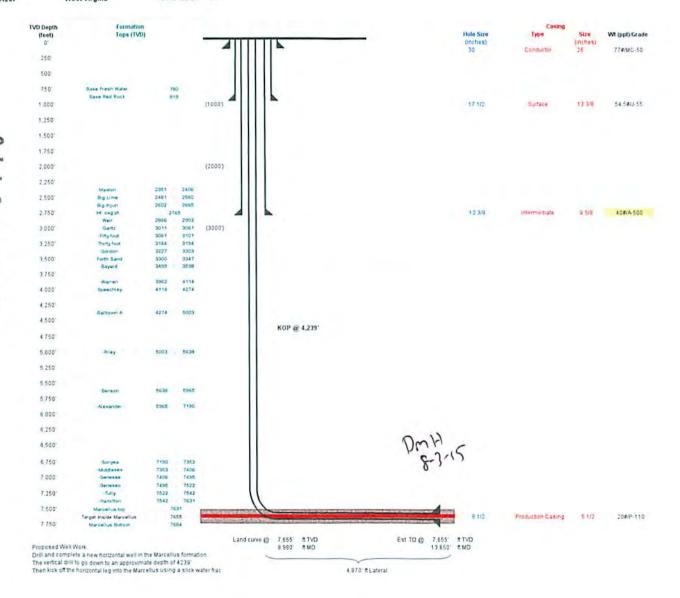
*Note: Attach additional sheets as needed.

4710303110



Well 513922 (BIG192H18) EQT Production

Big Run Azimuth 136
Wetzel West Virgina vertical Section 7009



WW-9 (2/15)

Page	1	of	2
API No. 47 0	-		03110
Operator's Well No.			513922

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	_
	more than 5,000 bbls of water to comple		CAT TO THE PART OF	
				_
Will a pit be used ? Yes:	The state of the s	flowback water & re	ridual calida	
76.35	ribe anticipated pit waste:			_
Will a synthetic li	ner be used in the pit? Yes X	_NoIf so	, what ml.?60	
	Reuse (at API Number Off Site Disposal (Supply form Other (Explain	Various WW-9 for disposal loca		<u>)</u> <u>)</u>
Will closed loop system			rom the drilling	
fluid. The drill cuttings are	then prepared for transportation to an off-sit	e disposal facility.		
C.T. in the Section of the section of the section	ted for this well (vertical and horizontal)?			
	of the wellbore (surface, intermediate, and pilot). Water based mu		le conditions to stabilize	
and drill the intermediate section. The p	old hole, curve, and lateral sections will be drilled with either air.	water based mud, or oil based mud		_
				-
- If oil based,	what type? Synthetic, petroleum, etc	Synthe	etic mud	
Additives to be used in d	: (1.1 1.1.) [1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.] (1.		Water based mud - Barite, viscosife	er,
alkalinity control, lime, filtration	control, deflocculates, biodegradable oil lubricant	, defoaming, walnut shell, sa	t, x-cide, carbonates.	
Oil based mud - synthetic bas	se oil, emulsifier, salt, lime, viscosifer, alkalinity cor	trol, filtration control, deflocc	ulates,	
biodegradable oil lubricant, de	foaming, carbonates.			_
If left in pit and Landfill or offs Permittee shall provide writ	nethod? Leave in pit, landfill, removed of I plan to solidify what medium will be used? (Ceme ite name/permit number? ten notice to the Office of Oil and Gas of any ste facility. The notice shall be provided withing the provided within the provided withing the provided withing the provided withing the provided withing th	See Attached	sociated waste rejected a	t
on August 1, 2005, by the Offic provisions of the permit are en or regulation can lead to enforce I certify under penalty of	d and agree to the terms and conditions of the GE ce of Oil and Gas of the West Virginia Department forceable by law. Violations of any term or condition cement action. If law that I have personally examined and am fam ments thereto and that, based on my inquiry of the	of Environmental Protection on of the general permit and/ iliar with the information subr	I understand that the or other applicable law nitted on this	
the information, I believe that t	he information is true, accurate, and complete. I a cluding the possibility of fine or imprisonment.			
Company Official Signat Company Official (Typed Company Official Title	Name)	Victoria J. Roark Itting Supervisor	F	Received Gas Recipion of Oil & Gas Right 1 0 2015
Subscribed and sworn b	efore the this day of	Cus	. 20 Notary Public	
My commission expires	8-29	1-22		NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280
				My Commist Dio yzres Aug (24 2522

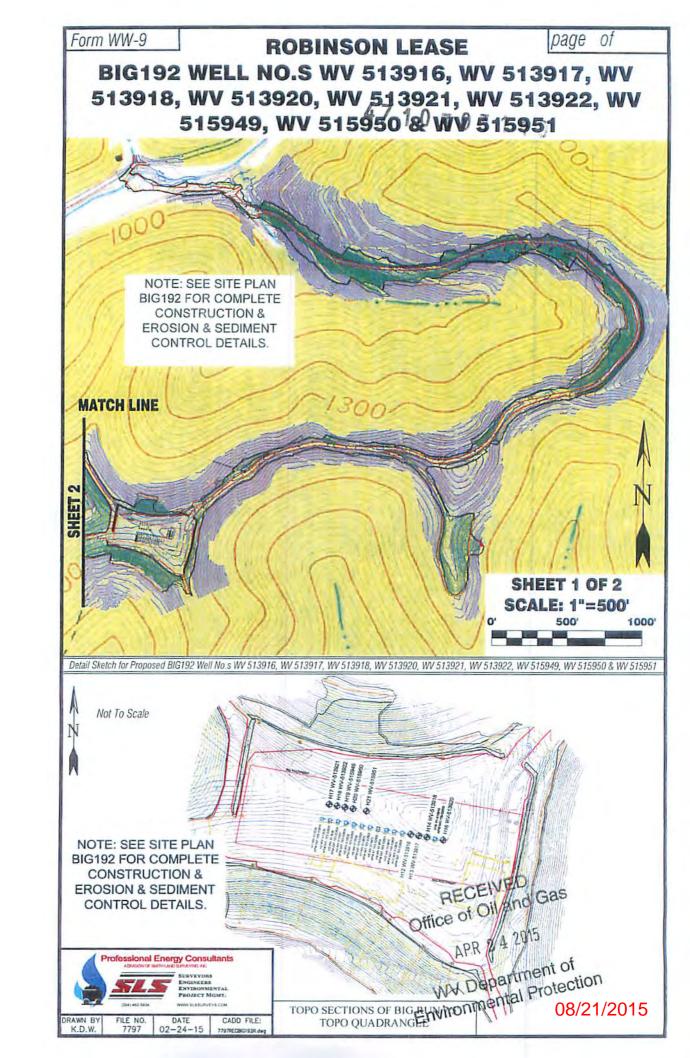
Form WW-9

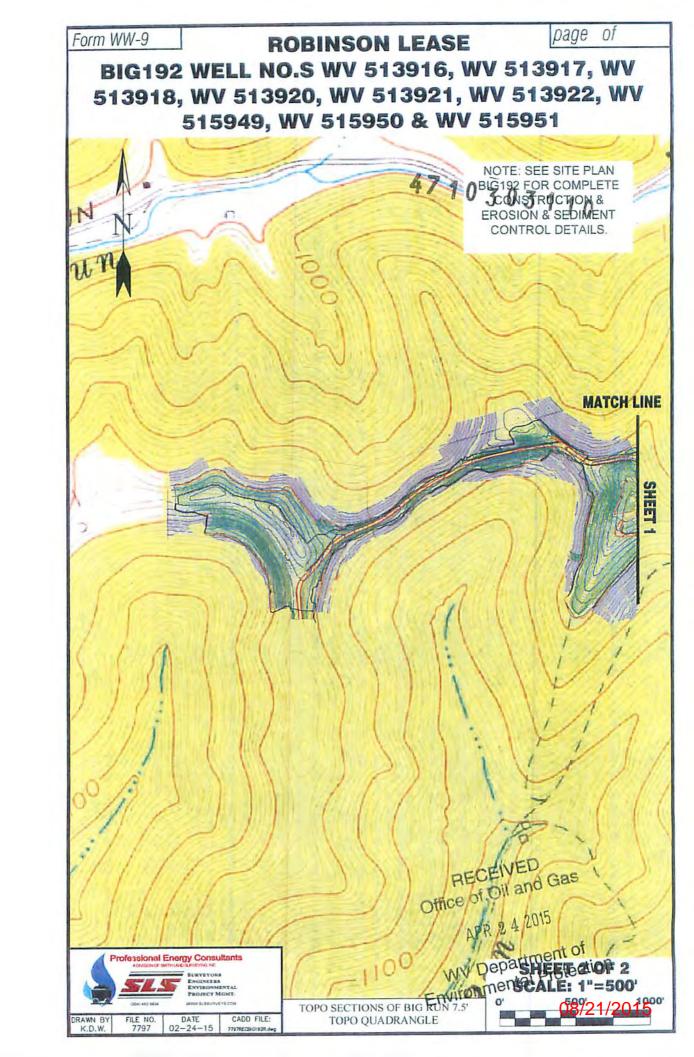
	Operato	Operator's Well No.		
Proposed Revegetation Treat	ment: Acres Disturbed	0.15	Prevegetation pH	6.5
Lime3	Tons/acre or to	correct to pH	6.5	
Fertilize type	Granular 10-20-20			
Fertilizer Amount	1/3 lbs/a	acre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tempora	ary		Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/ac	re
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Drawing(s) of road, location,p Photocopied section of involve				
Plan Approved by:	V			
Comments:				
Title: Nil + Ges I	Tagge cher	Date: 4-27		
- U - U - U - U - U - U - U - U - U - U		7 1		

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WV Department of Environmental Protection 08/21/2015





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Environmental Protection 08/21/2015



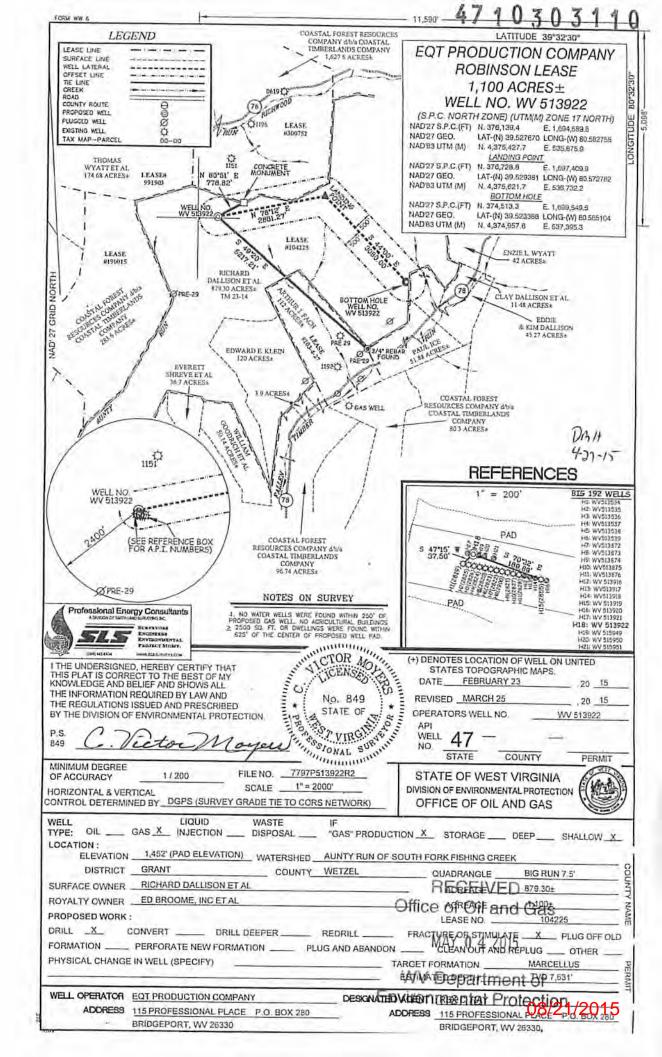
Site Specific Safety Plan

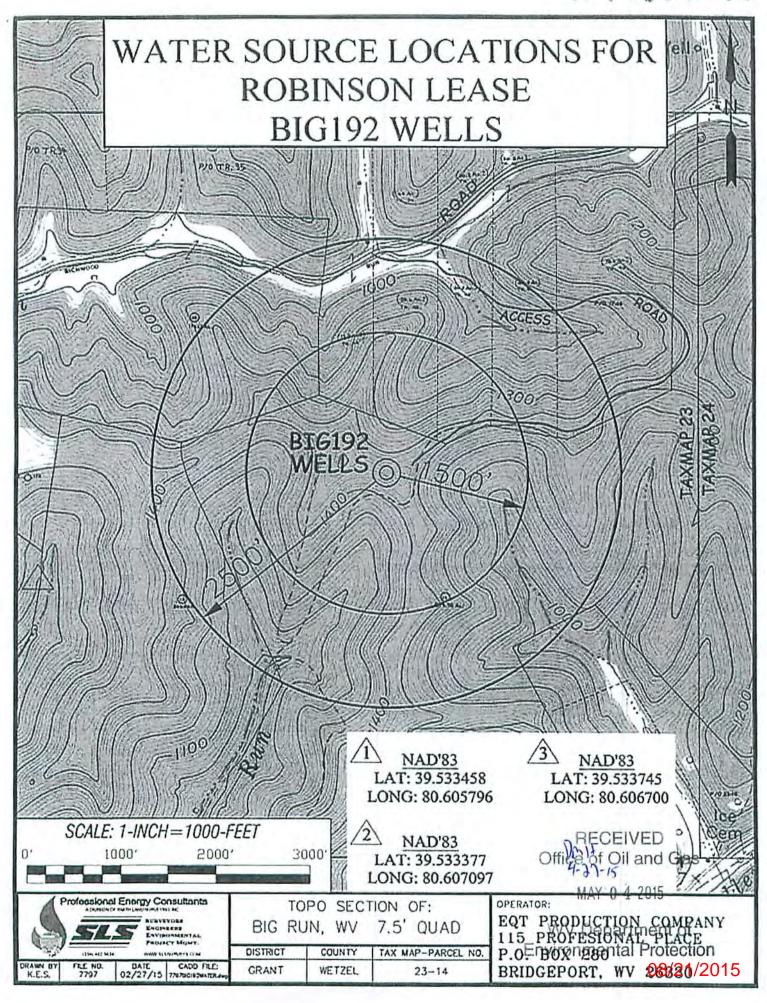
EQT BIG 192 Pad

<u>Jacksonburg</u>

Wetzel County, WV

513922	For Wells	::
EQT Production Permitting Siperior Title 4-14-15 Date	Date Prepared:	August 21, 2014 WV Oil and Gas Inspector Oil + Gir Inspector Title 4-20-15 Date RECEIVED Office of Oil and Gas
		MAY 0 4 2015





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

Day 4-21-15

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WV Department of Environmental Protection/2015



4-28-2015

Mr. Gene Smith
WV Department of Environmental Protection
Division of Oil and Gas
601 57th Street East
Charleston, WV 25304

4710303110

Re: Corrected Permit App's on Disk for 47-103-03110 and 47-103-03111

Dear Mr. Smith,

Enclosed is the corrected permit app's on a Disk for 47-103-03110 and 47-103-03111.

If you have any questions, please do not hesitate to contact me at (304) 848-0082.

Sincerely,

Nick Bumgardner

Landman II - Permitting

Received Office of Oil & Gas APR 29 2015



west virginia department of environmental protoction

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 4710303110

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121

Re: Cement Variance Request

Dear Sir or Madam,

Indiana PA 15701

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

Sincerels

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

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

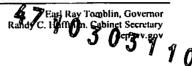
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Office of Oil and Gas APR 24 2015

WV Department of Environmental Protection 08/21/2015



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



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
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)		

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 Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate. 903031

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 casing 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

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> Office of Oil and Gas APR 24 2015 WV Department of Environmental Protection

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

47 9 BRJAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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WV Department of Environmental Protection 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

4710303110

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

Well Operator: EQT Production Company

By:

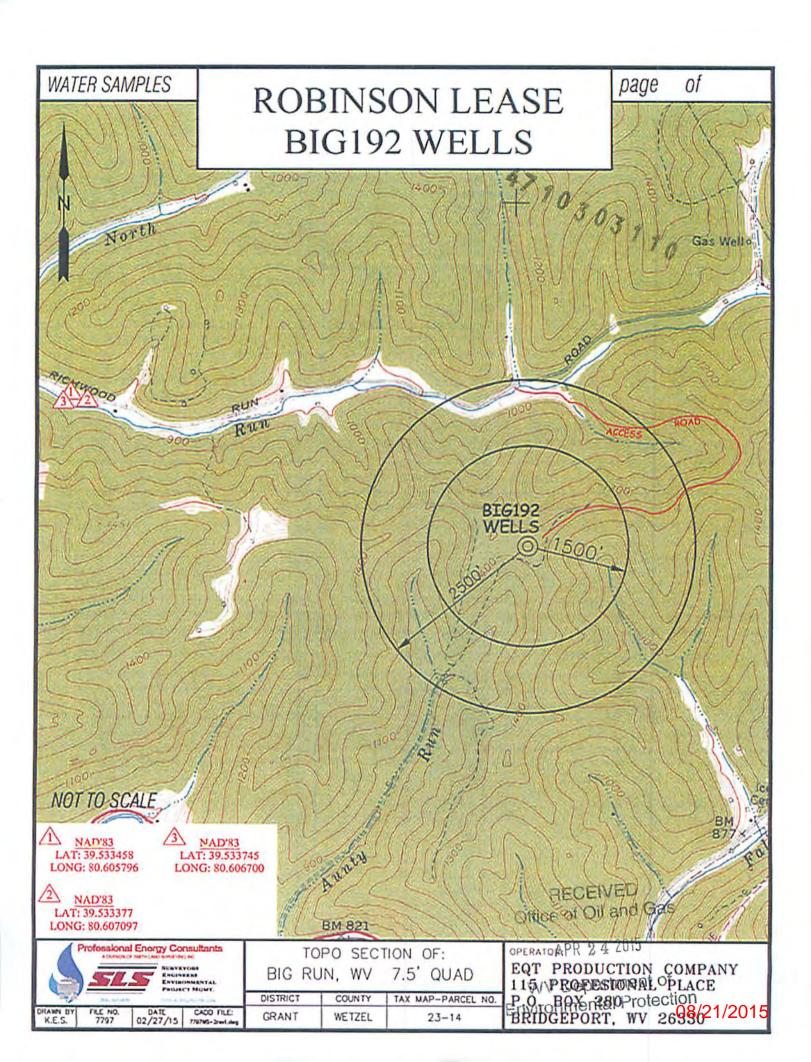
Its: Permitting Supervisor

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WV Department of Environmental Protection



P.O. BOX 180, GLENVILLE, WV 26351

(304) 402-8634 - FAX 402-8668

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET 47 10 3 0 3 1 10

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

Site:/	Spac	ing 725	50. Own	er/Occupa	int: _	Susan (Goode	ich			
Address:	P.O. Ba	x 43. Jucks	onburg, WV	26377				Ph:	(304)-8	889-2748	
Field Contac	t Date:	09/08/201	Located	i: Yes	_ Date	Located	j: 09/0	8/2014 S	ource:	Water	Well
If No. declined											
Comments:	Northin	ng: 39.5334	158								
	Easting	: 80.60579	6				-				
Site: 2	Space	ing 697	75' Own	er/Occupa	nt:	Harry (joodri	ich			
Address:	P.O. Box	c 144, Jack:	sonburg. W	V 26377				Ph:	(304)-8	89-2709	
Field Contac	t Date:	09/08/201	√ Located	: Yes	Date	Located	: 09/0	N20118	ource:	Water	Well
If No, declined	by who _		Letter/	Notice Date	_ : 1st	N/A	2nd	N/A	Certifi	ed (3rd)	N/A
Comments:	Northin	g: 39.5333	77				-				
		: 80.60709									
<u> </u>											_
Site: 3	Spaci	ng <i>731.</i>	5' Owne	er/Occupa	nt:	Susan C	ioodri	ch			
Address:									(3(14)-8	89-2748	
Field Contact	Date:	09/08/201	√ Located	; Yes	Date	Located	: 09/08				
If No. declined t	by who _		Letter/	Notice Date:	1st	N/A	2nd	N/A	Certific	ed (3rd)	N/A
Comments:	Northin	g: 39.5337.	15		_						
		: SU.606700			-				•		
Site:	Spacia	ng	Owne	r/Occupar	nt:	Coustal	Timbe	rland Co) .		
Address:	P.O. Bax	709 Buckli	annon, WV	26201				Ph:			
ield Contact	Date:	N/A	Located:	No	Date	Located		A S	ource:	Unkno	DM.U
f No, declined b	y who		Letter/f	Notice Date:	151 (19	V08/2014	2nd	N/A	Certifie	ed (3rd) (A)	3/15/201
Comments:	Tax Mag	23, Parce	1 13 and Tax	x Map 17, P	arcel l	14	_			(- () <u></u> -	
				is of 09/18/2							
								· · · · -			

Site: 5	Spacing		Owner	Occupa	int. <u>Richa</u>	ırd, Jayn	ee, Thom	as & Tre	nton Dallison
Address:	RT. 1 bax 41	Folson	i. WV 26348				Ph:		
Field Contact	Date:	N/A	_Located:_	No	_Date Locate	ed:/	%/ Sc	ource:_	Unknown
If No, declined t	by who Remail	(Adlines	Letter/No	tice Date	: 1st <u>09/08/20</u>	<u>14</u> 2nd _	N/A	Certifi	ied (3rd) <i>08/15/2014</i>
Comments.	Tax Map 2:	3. Parce	114						
	Letter of reg	fusal sig	ned 08/16/20	14					-
						6			
				_		•	7		
	_ Spacing				ent. <u>Thun</u>	ras E. W	raf O	35	
Address.			nburg, WV 2				Ph:	50.	
Field Contac						~~:	<u>///</u> S	ource	Unknown
If No, declined				otice Date	:: 1st <u>////////2/</u>	<u>114</u> 2nd	N/A	Certif	red (3rd) <u>04/15/2014</u>
Comments:									<u> </u>
	No respons	e to cert	ified letter as	of 09/18	/2014		 -	<u> </u>	
Site. 7	Spacing		Owner	/Occupa	ant. <i>Arthu</i>	er I Fac	l.		,,,
Address:	_		DR, SE East (D. 7 GC.	Ph:		
Field Contac					Date Locate	ed: A		onice.	Unknown
								_	fied (3rd) (AY/15/2014
Comments:							2	00.1	100 (010) <u>112 1212 1</u>
			ified letter as	of 09/18	/2014	-			
				,		 -	· • · · · · · · · · · · · · · · · · · ·		
Site:	Spacing		Owner	Occupa	int.				
Address:							Ph:		<u>.</u>
Field Contact	-		_Located:_		_Date Locate			ource:_	
If No, declined to Comments.	by who		Letter/No	tice Date	: 1st	2nd _		Certifi	ied (3rd)
Site: 9 Address:	Spacing		Owner/	Occupa	nt:		Ph:		
	Date		11		5				
Field Contact			_Located:	dia - Data	_Date Locate	:d:	50	urce:	- 4.40 %
If No, declined b Comments.			Letter/No	······································	: 181	2na _		Centil	ed (3rd)
							<u> </u>		
Site. <u>///</u> Address:	Spacing		Owner/	Occupai	nt:	1	Ph:		
Field Contact	Date:		Located:	-	Date Locate			nice.	
									ed (3rd)
Comments:									\
			-				·		

	Smith Land Surveying, Inc.	of Glenville, W	V has be	en contracted	by:
		EQT		- J	_
	To do some preliminary work for a	proposed oil and	i gas wei	ll permit appli	ention.
	Due to 1994 regulations set by the S Protection, Department of Oil and G water wells or other non-public water well. The operator is testing within a the resident or owner. This test will turn benefits you as the resident or la	ias, operators are er sources that fi 2500 feet of the only help ensur	e require all within well, if t	d to offer wat n 1500 feet of hey are reque	er testing/for the proposed sted to do so by
	Since your residence falls within the potable water source(s) sampled and results would then be mailed to your	i analyzed at an	independ	dent lab. You	r lab analysis
	Please notify Smith Land Surveying potable water tested. Please have thi client and well number may be refer	s letter with you			
	Thank you for your cooperation in the your earliest convenience. If you has				
	Smith Land Surveying, Inc. PO Box 150	Date: _	8/15/14	4	
	Glenville, WV 26351 (304) 462-5634 (voice)	Left/sent by: _	Daniel	McKee_	
	(304) 462-5656 (fax) E-Mail DMcKee@slssurveys.com	Well Number: Site Number: 1 Wetzel Count	N/A		•
	*If you do not have a water well or other no name and address when you return this shee phone number.	on-public water sou	rce, please	make note of it	and include your
ase si	o not feel the need to have your Wate ign on the line below and return to the to the surface owner and has been de	ne above address			
	: Thursday B Well		ъ.	8-16	- 14

v 2015 1

7655

Horizontal Well

513922 (BIG192H18)

Drilling Objectives: Marcellus Wetzel County:

Big Run Quad:

Elevation: Northing: Surface location Landing Point

376139.37 Northing: 376570.56 373067.91 Northing: 136 Degrees

1465 KB

Easting: Easting: Easting:

1694589 58 1697562.72

1700945.21 Recommended LP to TD:

1452 GL

TVD: 4.870

4710303110

Recommended Azimuth Proposed Logging Suite:

Toe location

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

ESTIMATED FORMATION TO	OPS .					40 40
Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	780		FW @ 549,581,780,	73	919
Washington	743	745 Co.				
Coal	804	814 Co.				
Coal	919	924 Co	al			
Coal	1009	1019 Co				
Pittsburgh	1240	1245 Co	al	No past, active, or planned mining in Pittsburgh seam		
Maxton	2351	2406 Sar		SW @ 2257,2370, .		
Big Lime	2481	2560 Lin				
Big Injun	2602	2665 Sar	ndstone	Storage is not of concern		
Int csg pt	2765					
Weir	2866	2903 Sar	ndstone			
Top Devonian	3011					
-Gantz	3011	3061 Sili	ty Sand			
-Fifty foot	3061	3101 Silt	ty Sand			
-Thirty foot	3164	3194 Silt	ty Sand			
-Gordon	3227	3303 Sili	ty Sand			
-Forth Sand	3300	3347 Silt	ty Sand			
-Bayard	3499	3538 Sili	ty Sand			
-Warren	3962	4114 Sile	ty Sand			
-Speechley	4114	4274 Sile	ty Sand			
-Balltown A	4274	5003 Sili	ty Sand			
-Riley	5003	5638 Sili	ty Sand			
-Benson	5638	5965 Sile	ty Sand			
-Alexander	5965	7190 Silt	ty Sand			
-Elks	7190	7190 Gra	ay Shales and Silts			
-Sonyea	7190	7353 Gra	ay shale			
-Middlesex	7353	7406 Sh	ale		1	
-Genesee	7406	7495 Gr	ay shale interbedded			
-Geneseo	7495	7522 Bla	ick Shale			
-Tully	7522	7542 Lin	nestone			
-Hamilton	7542	7631 Gra	ay shale with some			
-Marcellus	7631	7684 Bla	sck Shale			
-Purcell	7641	7644 Lin				
-Lateral Zone	7655	7655		Start Lateral at 7655 ft, drill to 7655 ft		
-Cherry Valley	7660	7664 Lin	nestone			
Onondaga	7684	Lin	nestone			

Max Anticipated Rock Pressure	2620 PSI	
Target Thickness	53 feet	

CSG OD

EVG

EVG

Comments:

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 WV

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

7/16/2015

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 avoid planned lateral 515949 Mapview - Left of borehole: Deviate as little as possible right to avoid drilled lateral 513873 Mapview - Right of borehole: DO NOT EXTEND beyond recommended wellbore to avoid leaseline Mapview - TD:

RECOMMENDED CASING POINTS CSG OD

Fresh Water/Coal

revised LP coordinate

revised TD

Intermediate 1:

Production:	CSG OD	5 1/2	CSG DEPTH	@ TD
J Dereume/ E Glick	Author	Date Created Plat Da	te	
Prog created	JMD	2/3/2015	9/7/2014	
updated	EVG	3/5/2015	2/23/2015	
Surface casing revised to 1:	50' belo EVG	4/21/2015		
revised surface casmo to 50	Y below EVG	7/8/2015		

7/8/2015

7/21/2015

V	COAL.
V	PILOT HOLE
SODE	CASING PROGRAM
	STORAGE

50' below coal seam

100' past the base of the

974

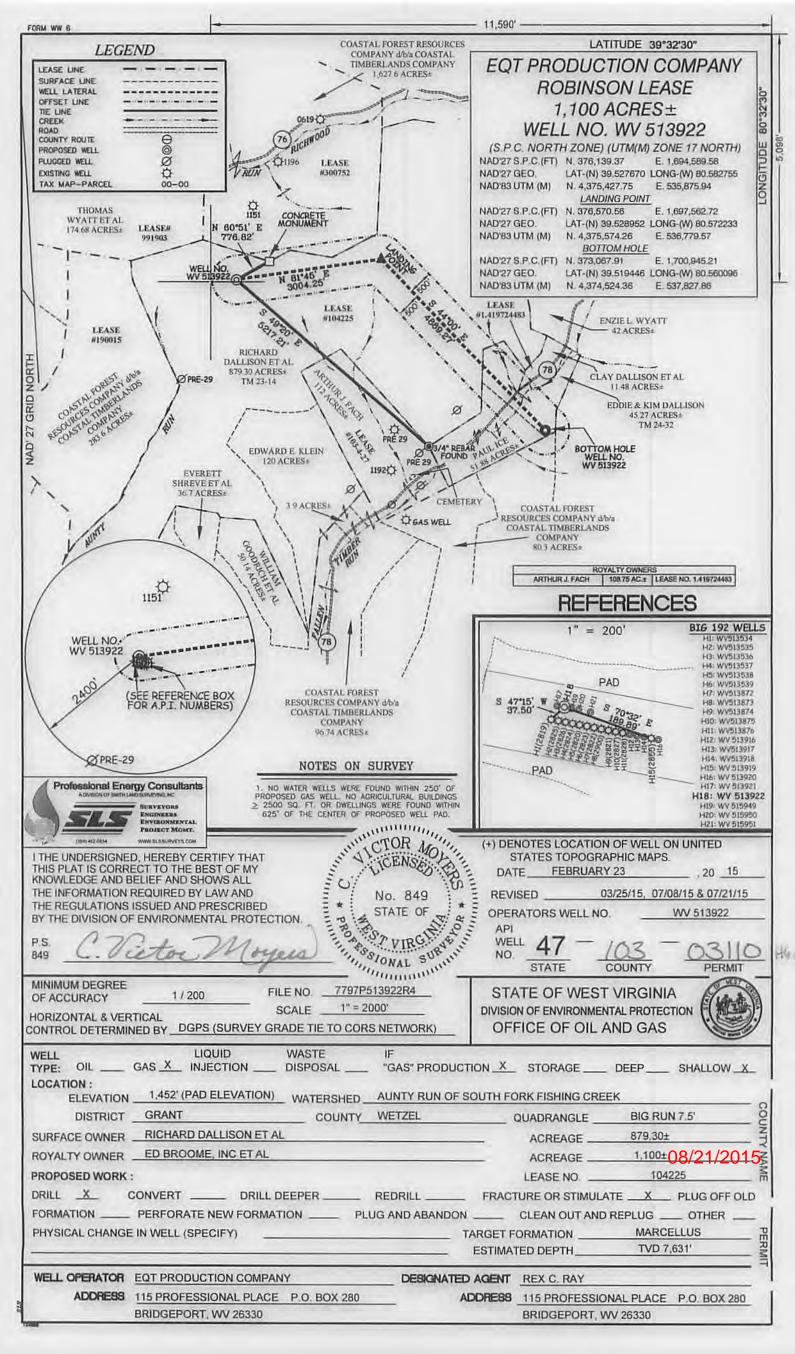
2765

Well Number: 513922 (BIG192H18)

Casing and Ceme	Casing and Cementing Deepest Fresh Water: 7						
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'	13,850'			
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	æ	20% Greater than exp. Pressure	20% Greater than exp. Pressure	20% greater than exp. fracture pressure			
After Fracture Pressure Testing		1.24		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)	<u>-</u>	514	493	587			
Cement Class		-	2	Н			
Cement Type	Construction	1	1				
Cement Yield	1.18	1.21	1.21	1.27/1.86			
Meets API Standards	14	Yes	Yes	Yes			
WOC Time		Min. 8 hrs	Min. 8 hrs	Min. 8 hrs			
Top of Cement (Planned)	Surface	Surface	Surface	3,239'			
Fill (ft.)	40'	974'	2,765'	10,611'			
Percent Excess	- 4	20	20	10			
Est. Volume (cu ft)	49	847	1,079	2,700			
Est. Volume (BBLS)	9	151	192	481			

DMH 8-3-15

Received Gas
Office of Oil & Gas



47-103-031/c

WW-6A1 (5/13)

Operator's Well No.

513922

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;
- 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:

ease Name or Number	Grantor, Lessor, etc. Gi	rantee, Lessee, etc.	Royalty	Book/Page
			Min 1/8 pd	
104225	L G. Robinson, etal	H. L. Smith		LB111/452
	H. L. Smith	Philadelphia Co	mpany	LB47A/287
	Philadelphia Company	Pittsburgh & Wo	est Virginia Gas Compan	y DB146/98
	Pittsburgh & West Virgina Gas Company Equitable Gas Company		DB187/321	
	Equitable Gas Company	Equitrans, Inc.		
	Equitrans, LLC	EQT Production	Company	DB192/19 D
			Min I/8 pd	
1.419724483	Arthur J. Fach	EQT Production C	ompany	LB 166A/3
	Eddie D. Dallison & Kim L. Dallison	EQT Production C		LB 166A/22
	Clay D.C. Dallison	EQT Production C	ompany	◯ B 166A/24
				8
				~
			•	^ >

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 Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service

other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

> Well Operator: By:

Its:

Permitting Supervisor

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

APP 9 9 2015

Date of Notice Certification:	, 2 2013 API	No. 47 103	U
		rator's Well No.	513922
	Well	Pad Name:	Big 192
		7/103031	10
otice has been given:			
	Code § 22-6A, the Operator has provided the re	quired parties with the Notic	e Forms listed
elow for the tract of land as follows:	Company and Chara		FOF 07F 00
tate: WV	UTM NAD 83 Easting:		535,875.90
ounty: Wetzel	UTM NAD 83 Northing:	4,	375,427.70 RT 20
strict: Grant	Public Road Access:	Distant	
uadrangle: Big Run 7.5'	Generally used farm name:	Richard	Dallison et al
/atershed: Aunty Run of South Fork Fi	shing Creek		
equirements of subsection (b), section sixte irginia Code § 22-6A-11(b), the applicant s f this article have been completed by the a		surface owner; and Pursuant that the notice requirements	t to West
nat the Operator has properly served the re	e Operator has attached proof to this Notice Cequired parties with the following:	OOG	OFFICE USE ONLY
PLEASE CHECK ALL THAT APPLY		DEC	EIVED/NOT
NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED	NO REC	QUIRED
NOTICE OF ENTRY FOR PLAT SU	IRVEY or ▼ NO PLAT SURVEY WAS C	CONDUCTED	EIVED
NOTICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SUR WAS CONDUCTED OR		EIVED/NOT NUIRED
	WRITTEN WAIVER BY SURFACE O (PLEASE ATTACH)	WNER	
NOTICE OF PLANNED OPERATION	N	□ REC	EIVED
PUBLIC NOTICE		FREC	EIVED
NOTICE OF APPLICATION		FREC	EIVED

Required Attachments:

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

WW-6AC (1/12)

Certification	of Notice is hereby given:				
above, to the re signature confii in this Notice C obtaining the ir for submitting f	It as required under West Virginia Code to a sequired parties through personal service, rmation. I certify under penalty of law that the certification and all attachments, and that information, I believe that the information alse information, including the possibility	§ 22-6A, I have served the by registered mail or by at I have personally examinated the t based on my inquiry of the is true, accurate and come of fine and imprisonment.	e attached capies of the lany method of deliver the ined and am familiar with hose individuals immedianplete. I am aware that the t.	at requites a receipt or the information submitted tely responsible for	
Well Operator:	EQT Production Company	Address:	P.O. Box 280		_
By:	Victoria J. Roark		WV 26330		_
Its:	Permitting Supervisor	Facsimile:	304-848-0040		
Telephone:	304-848-0076	Email:	vroark@eqt.com		
Sminninini	OFFICIAL SEAL				
	STATE OF WEST VIRGINIA MOTARY PUBLEC Pamela Syles EQT Production NOTA PO 90x, 280 My Commission Expires Aug. 24, 2022	Subscribed and sworn before	me this 21	day of April 2	o15

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.

My Commission Expires

8-24-20

RECEIVED
Office of Oil and Gas

APR 2 4 2015

WV Department of Environmental Protection WW-6A (9-13)

API NO.	47	914	103	300	0
OPERATO	R WEL	L NO.			513922
Well Pad Name:				BIG 192	

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

Notice Time Requirement: notice shall be provided no later than the filing of Date of Notice: 0-8-15 Date Permit Application File	
Date of Notice: Date Perfult Application Pla	0.010
Notice of:	0039
	10
☑ PERMIT FOR ANY ☐ CERTIFICATE OF APPRO	VAL FOR THE
WELL WORK CONSTRUCTION OF AN	IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
	ETHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RE	CEIPT OR SIGNATURE CONFIRMATION
for the construction of an impoundment or pit as required by requires a receipt or signature confirmation, copies of the app plat to each of the following persons: (1) The owners of recor the surface tract or tracts overlying the oil and gas leasehold be disturbance as described in the erosion and sediment control plessee, in the event the tract of land on which the well propose record of the surface tract or tracts overlying the oil and gas leadenstruction, enlargement, alteration, repair, removal or abandwater purveyor who is known to the applicant to have a water which is used to provide water for consumption by humans or work activity is to take place. (c)(1) If more than three tenants in the lands, the applicant may serve the documents required a article one, chapter eleven-a of this code. (2) Notwithstanding unless the lien holder is the landowner. W. Va. Code R. § 35-the surface owner and any water purveyor or surface owner surface	In this article shall deliver, by personal service or by registered mail or by any dication, the erosion and sediment control plan required by section seven of a dof the surface of the tract on which the well is or is proposed to be located; being developed by the proposed well work, if the surface tract is to be used plan submitted pursuant to subsection (c), section seven of this article; (3) The ed to be drilled is located [sic] is known to be underlain by one or more coal easehold being developed by the proposed well work, if the surface tract is to donment of any impoundment or pit as described in section nine of this well, spring or water supply source located within one thousand five or domestic animals; and (6) The operator of any natural gas storage field as in common or other co-owners of interests described in subsection (b) of upon the person described in the records of the sheriff required to be gany provision of this article to the contrary, notice to a lien holder is not 8-5.7.a requires, in part, that the operator shall also provide the Well Site abject to notice and water testing as provided in section 15 of this rule.
✓ Application Notice ✓ WSSP Notice ✓ E&S Plan Notice	Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Richard B. and Jaynee C Dallison	Name: CNX RCPC LLC
Address: 28855 Shortline Hwy.	Address: CNX Center
Folsom, WV 26348-6021	1000 Consol Energy Dr.
	Canonsburg, PA 15317-6506
	See attached for additional coal owners.
Name: Thomas P. Dallison	☐ COAL OPERATOR
Address: 452 Trader Fork Road	Name:
Folsom, WV 26348-6021	Address:
See Attached	
☑ SURFACE OWNERS(s) (Road and/or Other Disturbance)	
Name: Richard B. and Jaynee C Dallison	
Address: 28855 Shortline Hwy.	☐ SURFACE OWNER OF WATER WELL
Folsom, WV 26348-6021	AND/OR WATER PURVEYOR(s)
10150111, W Y 20346-0021	Name: Address: PECEIVED Rand Gas
Name: Thomas P. Dallison	Address:
	Address: PECEIVED Gas
Address: 452 Trader Fork Road	Address: PECEIVED Gas Office of Oil and Gas
Folsom, WV 26348-6021	Office of
See Attached	1 0 2015
☑ SURFACE OWNER(s) (Impoundments/Pits)	OPERATOR OF ANY NATURAL GAS STORAGUENTIBLE 2015 Name:
Name: Richard B. and Jaynee C Dallison	Name:
Address: 28855 Shortline Hwy.	
Folsom, WV 26348-6021	WV Dopar Protection
See Attached	*Please attach additional forms if necessary
	*Please attach additional forms if necessary 08/21/2015

08/21/2015

WW-6A (8-13)

API NO. <u>47</u> - <u>103</u>	(
OPERATOR WELL NO.	513922
Well Pad Name:	BIG 192

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-andgas/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 provents operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the thirted and GaS States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well solution 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 prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and valuable 2015 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 rement of structures are inadequate or otherwise require alteration to address the items

WV Department Environmental Protection

WW-6A (8-13)

API NO. 47 -OPERATOR WELL NO 513922 Well Pad Name: **BIG 192**

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: Office of Oil and Gas

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

JUN 1 0 2015

WV Department of

WW-6A (8-13) API NO. 47 - 103 - 0

OPERATOR WELL NO. 513922

Well Pad Name: BIG 192

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 08/21/2015

4710303110

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@egt.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 VIRIGINIA
REBECCA L. HEATER
EQT PRODUCTION COMPANY
PO BOX 280

By: Victoria Roark

Mucea

Its: Permitting Supervisor Subscribed and sworn before n

3m day of June

, 2015 Notary Public

My Commission Expir

1-7-2020

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JUN 1 0 2015

WV Department of Environmental Protection 08/21/2015

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

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Office of Oil and Gas

JUN 1 0 2015

WV Department of Environmental Protection

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 CProxide CP10/15

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 require	ement has NOT been waiv	ed in writing by th		
Notice Time R	equirement: Notice shall be provided at least TEN (10)	days prior to filing a perr	nit application.	<i>B</i> ~	
Date of Notice	e: <u>6/8/2015</u> Date Permit App	lication Filed:	TBD	*/ 1 a	
Delivery meth	nod pursuant to West Virginia Code § 22-6A-16(b)			- 47 903 C	0312
r HAND DELIVE	RY CERTIFIED MAIL RETUR	RN			0
Pursuant to W	'. Va. Code § 22-6A-16(b), at least ten days prior to filin	g a permit application, an	operator shall, by	certified mail return	
	sted or hand delivery, give the surface owner notice of		-		f
	ontal well: Provided, That notice given pursuant to sub				
-	tion as of the date the notice was provided to the surfa				i
	y be waived in writing by the surface owner. The notice			•	
	e, facsimile number and electronic mail address of the	•			
Notice is here	by provided to the SURFACE OWNER(s):				
Name:	Richard and Roxanne Funk	Name:		Larry Larew	,
Address:	4832 Fairport Road	Address:	1279	0 W Middletown Road	-
	Newton Falls OH 44444			Salem OH 44460)
State:	vner's land for the purpose of drilling a horizontal well WV		Easting		535,875.90
County:	Wetzel	UTM NAD 83	Northing		4,375,427.70
District:	Grant	Public	Road Access:		RT 20
Quadrangle:	Big Run 7.5	Generally use	d farm name:	Rich	ard Dallison et al
Watershed:	Aunty Run of South Fork Fishing Creek	•		·	
facsimile num related to hor	nall Include: Vest Virginia Code § 22-6A-16(b), this notice shall include ber and electronic mail address of the operator and the izontal drilling may be obtained from the Secretary, at . S7th Street, SE, Charleston, WV 25304 (304-926-0450)	e operator's authorized re the WV Department of Er	presentative. Add vironmental Prote	itional information ction headquarters,	
Notice is here	by given by:			-0	
Well Operator:	EQT Production Company	Authorized Representation	/e:	ECEIVED OF	s Victoria Roark
Address:	115 Professional Place, P.O Box 280	Address:		ALITS Professional	Place, P.O Box 280
	Bridgeport, WV 26330		Offic	e OI Br	idgeport, WV 26330
Telephone:	304-848-0076	Telephone:	·	10140 (015	304-848-0076
Email:	vroark@eqt.com	Email:		IUNI	vroark@egt.com
Facsimile:	vroark@eqt.com 304-848-0041 rivacy Notice: Dil and Gas processes your personal information, such a	Facsimile:	<u> </u>	tmen	1 0.304-848-0041
			\	NN Dehair Pro	iec
Oil and Gas P	rivacy Notice:		\	ironmental.	
The Office of (Dil and Gas processes your personal information, such a	as name, address and tele	phone number (4)	幹社 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 08/21/2015 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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. 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. 6/8/2015 Date of Notice: **Date Permit Application Filed:** Delivery method pursuant to West Virginia Code § 22-6A-16(b) CERTIFIED MAIL RETURN
RECEIPT REQUESTED HAND Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Notice is hereby provided to the SURFACE OWNER(s): Name: Lydle M Martyn Name: PO Box 7 Address: Address: Jacksonburg WV 26377 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: W۷ 535,875.90 Easting State: UTM NAD 83 Wetzel 4,375,427.70 County: Grant **RT 20** District: **Public Road Access:** Big Run 7.5 Richard Dallison et al Generally used farm name: Quadrangle: Aunty Run of South Fork Fishing Creek Watershed: This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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 Notice is hereby given by: **EQT Production Company** Well Operator: 🗋 Victoria Roark Authorized Representative: 115 Professional Place, P.O Box 280 Address: Address: Bridgeport, WV 26330 Bridgeport, WV 26330 Telephone: 304-848-0076 Telephone: vroark@eqt.com Email: Email: 304-848-0041 Facsimile: Facsimile: WV Departmen

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as Fartiful regulatory duties. Your personal information may be disclosed to other State agencies or third narries in the account. 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.

513922

STATE OF WEST VIRGINIA

	DEPARTMENT OF ENVIRONMENTA		, 0.11.02 01 0.2	
	NOTICE OF PLA	ANNED OPERA	TION	
Notice Time Re	equirement: notice shall be provided no late	r than the filing	date of permit app	lication.
Date of Notice		ate Permit Appl		June 8, 2015
Delivery meth-	od pursuant to West Virginia Code § 22-6A-:	16(c)		
		• •		
_	FIED MAIL	VERY		
return receipt re the planned ope required to be pr drilling of a horiz damages to the	/a. Code § 22-6A-16(c), no later than the date for a equested or hand delivery, give the surface owner ration. The notice required by this subsection sha rovided by subsection (b), section ten of this artic contal well; and (3) A proposed surface use and co surface affected by oil and gas operations to the e equired by this section shall be given to the surface	whose land will bill include: (1) A collection of the collection o	e used for the drillin ppy of this code secti- ner whose land will b ement containing an is are compensable u	g of a horizontal well notice of on; (2) The information on used in conjunction with the offer of compensation for onder article six-b of this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)			
	sted in the records of the sheriff at the time of no	otice):		
(at the address li				
(at the address li Name:	Richard and Roxanne	•		Larry Larew
•		Funk Name		Larry Larew 12750 W Middletown Road
Name:	Richard and Roxanne 4832 Fairport Newtown Falls OH 4	Funk Name Road Addre		
Name: Address: Notice is hereby Pursuant to Wes	Richard and Roxanne 4832 Fairport Newtown Falls OH 4	Funk Name Road Addre 44444 ren that the under	ss:	12750 W Middletown Road Salem OH 44460 has developed a planned
Name: Address: Notice is hereby Pursuant to Wes operation on the	Richard and Roxanne 4832 Fairport Newtown Falls OH 4 given: t Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a	Funk Name Road Addre 44444 ren that the under a horizontal well c	ss: signed well operator n the tract of land as	has developed a planned follows:
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Name: Address: 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 rela headquarters, lo pages/default.as	Richard and Roxanne 4832 Fairport Newtown Falls OH 4 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 damage ted to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 (5)	ren that the under horizontal well of UTM NAD 83 Public Road Acc Generally used lude: (1)A copy of whose land will be a agreement contiges are compensate Secretary, at the O4 (304-926-0450)	ssigned well operator in the tract of land as Easting: Northing: ess: farm name: this code section; (2 used in conjunction sining an offer of con ble under article six- e WV Department of) or by visiting www.	12750 W Middletown Road Salem OH 44450 thas developed a planned follows: 535,875.900000 4,375,427.700000 RT 20 Richard Dallison et al The information required with the drilling of a spensation for damages to the of this chapter. Additional Environmental Protection dep.wv.gov/oil-and-gas/

Oll 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 conditions of and Gas 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 life a je po விர் DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

47 10303110

JUN 1 0 2015

WW-6A5 (1/12)

Operator Well No.

513922

WV Department of Operator V Environmental Protection of West VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

		N	NOTICE OF P	LANNED OPERA	TION		
Notice T	lime Requirem	ent: notice shall be pr	rovided no lat	er than the filing	date of permit app	lication.	
Date of			- -	Date Permit App			June 8, 2015
Delivery	method pursi	uant to West Virginia	Code § 22-6/	\-16(c)			
	CERTIFIED M	_	⊤ HAI				
ن ت		CEIPT REQUESTED		LIVERY			
					4		
		§ 22-6A-16(c), no later ti			-		
		or hand delivery, give th				-	
		he notice required by thi by subsection (b), section					
		ll; and (3) A proposed su					
		ffected by oil and gas op					
		by this section shall be gi		_	-		•
of notice.		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Notice is	hereby provide	d to the SURFACE OWN	ER(s)				
	ddress listed in ti	ne records of the sheriff	at the time of	notice):			
at the ac		ie records or the sherin					
			Lydle M.	Martyn Name	:		
Name: _		ie records of the sheriff		Martyn Name O Box 7 Addre			
Name: _ Address:		ie records of the sheriff		O Box 7 Addre			
Name: Address: Notice is Pursuant operation	hereby given: to West Virginia	Code § 22-6A-16(c), no owner's land for the pur	Jacksonburg W	O Box 7 Addrew 26377 Addrew 26377	ss:	-	
Name: Address: Notice is Pursuant operation State:	hereby given: to West Virginia	Code § 22-6A-16(c), no	Jacksonburg W Jacksonburg W otice is hereby g rpose of drilling	O Box 7 Addre	ss: rsigned well operator on the tract of land as	-	d a planned 535,875.900000 4,375,427.700000
Name: Address: Notice is Pursuant operation State: County:	hereby given: to West Virginia	Code § 22-6A-16(c), no	Jacksonburg W Jacksonburg W otice is hereby g rpose of drilling WV	O Box 7 Addre	rsigned well operator on the tract of land as Easting: Northing:	-	535,875.900000
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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 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.

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 LL@ 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 4710303110

RECEIVED
Office of Oil and Gas

APR 2 4 2015

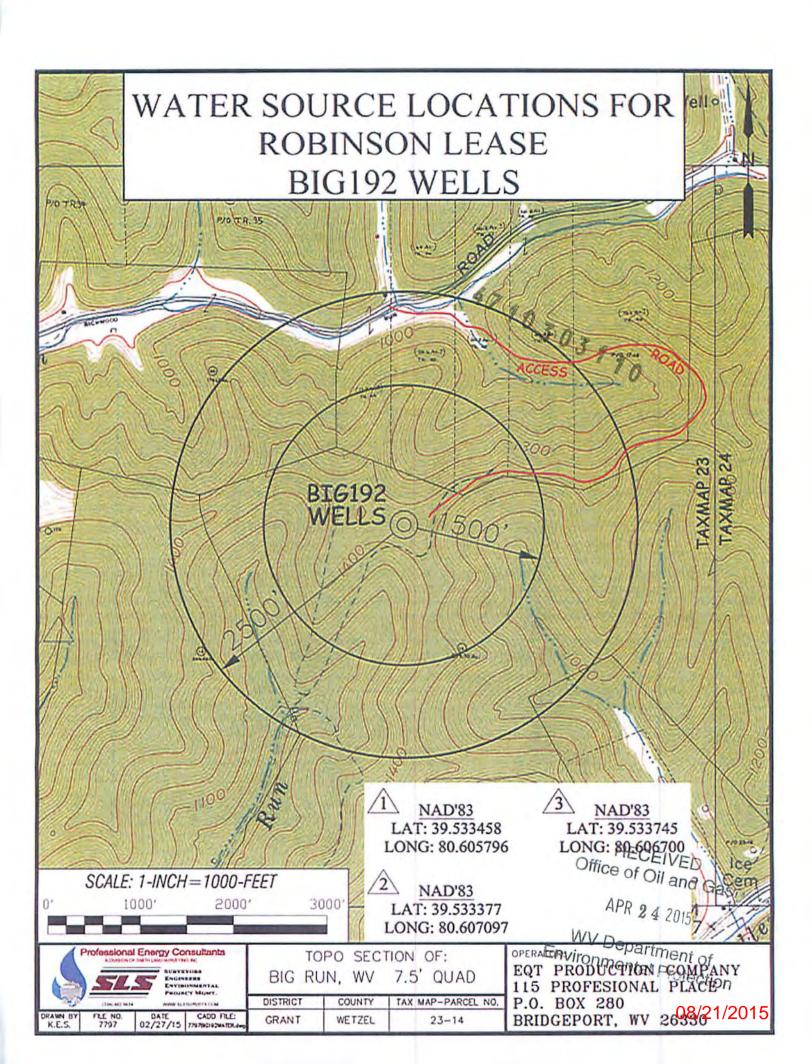
WV Department of Environmental Protection 15

CBM Only

CNX Gas Company, LLC CNX Center 1000 Consol Energy Drive Cannonsburg, PA 15317-6506 RECEIVED
Office of Oil and Gas

APR 2 4 2015

WV Department of /2015 Environmental polection





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Paul A. Mattox, Jr., P. E. See etary 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

Subject: DOH Permit for the BIG192 Pad Site, Wetzel County

513921 BIG192H17 513922 BIG192H18

513949 BIG192H19

Dear Dr. Martin.

Earl Ray Tomblin

Governor

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 Environmenta Derection 5

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u> Water	<u>Ingredient</u>	7102	AS Number
Sand	Hydrotreated light petroleum distillate	1.4	808-60-7
Friction Reducer	•		1742-47-8
	Tributyl tetradecyl phosphonium chlori		· · · -
Biocide	Ammonium chloride	81	741-28-8
Scale Inhibitor	Hydrochloric Acid	12	2125-02-9
15% Hydrochloric Acid	Propargyi Alcohol	76	347-01-0
Corrosion Inhibitor	Methanol	10)7-1 9- 7
Corrosion Inhibitor	Guar Gum	67	'-56-1
Gelling Agent	Sodium Persulfate	90	00-30-0
Oxidizing Breaker	Potassium Carbonate	77	75-27-1
Buffering Agent		58	34-08-7

PROJECT INFORMATION

PROJECT NAME BIG 192 HI-HIA

SURFACE OWNER
SCHAME B DALLISON ET AL
CRANT DESTROCT
VETTEL COUNTY BY
TOTAL PROPERTY AND. 614 30 1 ACRES

COL AND GAS ROTALTY OWNER
ED BROOM DEC ET AL
GRAFT DISTRICT
WITZEL COUNTY, FF
TOTAL PROPERTY AREA \$100.0 + ADRES

NTE LOCATION
THE RO 192 STE SI LOCATED ON A REDGE SOUTH OF CO. RT. 76.
APPROXIMATELY IA.MY FT EAST OF THE CG. RT. 76 AND BY RT. 20
STERRECTION

LOCATION COORDINATES

BIG 192 BI-FG WELL PAD ENTRANCE LATITUDE DESCRIPC LEMENTUDE -80 503105 (MAD 83)

MG 182 NI-NG WELL PAD LATITUDE: SUSEPHAS LINGUITUDE -NO SNEETS (NAD MS)

MEG 192 ASSOCIATED PIT LATITUDE BERESSEE LOWESTUDE: 80 581 420 (NAD 83)

SITE DISTURBANCE COMPUTATIONS

PAD/ASSOCIATED PTT/ASSOCIATED DEPOSITION AREA - NEED 1 ACRES ACCESS RNAD - 12:37 : ACRES TOTAL STEE ESTUMBANCE - 65:00 : ACRES "SYCLEDES AREA OF DIE WILL FAD, ASSOCIATED PTT, ASSOCIATED DEPOSICIATED 1 STOCKYELS."

ENTRANCE PERMIT FOR SOLD STANDARD AN ENCOGRAPMENT PERMIT (FORM MA-100) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF SECRETAIN, PRIOR TO CONSECUENT OF CONSTRUCTION

MISS UTILITY STATEMENT WAS POTURED FOR THE LOCATING OF CULLITES FROM TO THES PROJECT DESIGN, TICKET #1820400100. IN ASSUREM, MISS UTILITY WELL BE CONTACTED FROM TO START OF THE

FLOODPLAIN NOTE THE PROPOSED LIKES OF DISTURBANCE FOR THE PROPOSED LIKES OF DISTURBANCE FOR THE PROMET IS LOCATED IN PAIR THOSE DESIRED, A PER THE PROPOSED RECEASES RATE AND (PROX) NUMBERS SALESCADED, CARTES SEPT 25, 2003

ENVIRONMENTAL NOTES

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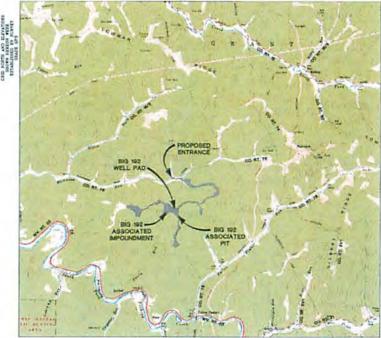
THE WELL PAD, ASSOCIATED PIT & ASSOCIATED INFOUNDMENT IS BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS

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 PLAN **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



ENGINEER

OPERATOR

API#10302819

API#10302820 API#10302821

API#10302822 API#10302823

API#10302824

API#10302825

API#10302826

API#10302827

API#10302828

EGT PRODUCTION COMPANY OPERATOR ID SOMME 115 PROFESSIONAL PLACE P.D. BOX PRI HXTGEFORT, WY 48330 PRONE (204) 348-3670

MAYTUB ENGINEERING INC INI WINDY RILL LANE WINCHESTER, VA 22602 PHUNE (888) 862-4185

SURVEYOR SMITH LAND SURVEYING, INC. 224 WEST MAIN STREET P.O. BOX 150 GLENVELE WY 26351 PHONE (304) 462-5634

LIST OF DRAWINGS

2 - HOTES

3 - OVERALL PLAN VIEW

. WELL PAD ASSOCIATED PIT AND DEPOLISHMENT DETAILS

8 - STOCKFOLE C. A J AND ACCESS NOAD TO BIG 355

1 - STOCKPILE A. B. L. & S. AND ACCESS BOAD TO MIS 339

#-12 - WILL PAD ACCESS BOAD DETAILS 13 - ANDOCIATED PIT SECTIONS

IS STREAM CROSSING "A" DETAILS

17 - STREAM CROSSING "C" DETAILS

23-25 - BOAD SELTIONS

24 - TEMPORARY STORY DRAW SHOPE OF

35-36 - WILL PAD, PIT AND INFOUNDMENT SECLAMATION PLAN







NAVITUS Charles Hill Law Surfaces VA, 2342 Surfaces (185) 4524



DISTRICT 192 G m

DATE 08/08/2012 SCALE 1" - 2000 DESIGNED BY CSK PILE NO. T797

SHEET 1 OF 40

BIG-192 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

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 CO. RT 76

BIG RUN QUAD

BCALE: 1'-2000'

and 2015 TH 0 10 MAY 13 - BIG-10 ACCESS NOAD PHOPILE IN CONTRUCTOR DETRACE ME CONSTRUCTION DESIGNATION 17 - HETLAMATICAL DISTALS LEGEND CONFEST PRIZE SUCK

LIST OF DRAWINGS

441

1. COVER THEET

1. PERA BUTT

2 CONTRUCTOR NOTE

Protection

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BIG-192 SITE PLAN MODIFICATION

DATE OF DE TO

CKLE I'- PROB

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X EDG BILD OF DANN

IX EDG SIGN OF PAPEL

X EDG CONTROL

X EDG CO 0 somme. EX DELDMENTED STRANG EX PERCIPIE MINERAL ENG FRICTIONS
THOSE OF CHAPTE FAR
MANUAL OF SHAW
EX SEPTEM NAT FENCE
EX SERVICES SHE HAVE
HERW GRAVEL CHOUSE F CONTOURS OF BUILT W. CONTOURS AS BUILT WILL LOCATION AS BUILT WILL LOCATION PROPORTY WELL LOCATIONS SPOT ELEVATIONS

DAH 4-27-15

BIG 182 LOCATION COORDINATES

SITE LOCATION

THE BILLY STEEL LOCATED DIVATIONS ROUTING OF SET TO ANY EXCHANGE STEEL STEEL SET THE CO. 45 TO AND WINE 20 ANY EXECUTION.

PROJECT INFORMATION

NAME AND POST OFFICE ADDRESS OF THE PARTY OF

ROYALTY OWNER:
ED BROWN FAC ET A.
GRANT DATRICT
VETTER COLAFTE VN
TOTAL PROPERTY AREA. 1301 OF ACRES.

SITE DISTURBANCE COMPUTATIONS

TOTAL ACREAGE ANTHER MISSESSATION IN A PROVIDE A SALE AS A SALE

GENERAL DESCRIPTION

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BIG 192 AS-BUILT DISTURBANCE

SUMADE CHACK	TAKENAPAREN.	DISTRIBUTE (AC)
CONSTR. COMEN COMPANY CONSTR. FOREST RESOURCES COMPANY	102511	42.00
THOMAS & WYATTET AL	79529.5	8.60
RICHARD & DALLISON ET AL	3072834	7000
COASTAL LUMBER CONFANY COASTAL FOREST RESIDENCES COMPANY	1017.74	1975

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!

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BIG-192 AS-BUILT SITE PLAN **CONSTRUCTION NOTES**

CONSTRUCTION NOTES:

- * METHODS AND INVESTIGATION OF THE CONSTRUCTION OF THE PREMIUR HEREIN DIRECT COMPONETO THE CURRENT COUNTY CONSTRUCTION STANDARDS AND INSCREDE CATCOS AND DR CURRENT WORP ERGISON AND REDMENT CONTROL BEST MANAGEMENT FRACTICE MANAGEMENT STANDARDS MAD RESCRICATIONS
- 3 MEASURES TO CONTROL EROSION AND ELTATION INCLUDING DETENTION PONCS SERVING AS SAT BASING DURING CONSTRUCTION MIGT BE PROVIDED PRICE TO GRUNNICE OF THE SITE DEVELOPMENT FEIGHT. THE APPROVING OF THESE FLANS IN NO WAY RELEVES THE DEVELOPER OR HIS AGAIN OF THE HUSECURES CHES CONTAINED IN THE WALLE ENDOGN AND STORM HIS CONTROL DEST HANAGEMENT PRACTICE MANUAL
- A MARRISONED BET OF FLANS AND ALL APPLICANCE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE ALSO, A REPRESENTATIVE OF THE DEVELOPER MUST BE AVAILABLE AT ALL
- 4 THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUG FROM TRUCKS AND DR OTHER EQUIPMENT PRICE TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONDIBILITY TO CLEAN STREETS, ALLAY DUST AND TO TAKE WHATEVER WHALLHES ARE RECESSARY TO ENJURE THAT THE STREETS ARE MAINTAINED IN A CLEAN, INJU AND DUST FREE CONDITION AT ALL TIMES
- 5 NOTIFICATION SHALL BE GIVEN TO THE APPROPRIATE UTILITY COMPANY PRICE TO CONSTRUCTION OF WATER AND OR GAS PIPE LINES. INFORMATION DIGINAL ALSO BE DISTANCED FROM THE CONTINUE AUTHORITY CONCERNING PERINTS OUT DIEETS AND COMMECTIONS TO EXISTING
- 6 THE LOCATION OF EXISTING LITE, FEG SHOWN IN THESE FLAVE ARE FROM FIELD LOCATIONS. IT EHALL DE THE CONTRACTIONS RESPONSIBLITY TO VERFY THE EMACT HURIZONTAL AND VERTICAL. EDITATION OF ALL ENGINES LITERIES AS MEDICAL PRICE TO CONSTRUCTION. THE CONTRACTOR SHALL BY DRIM THE ENGINEER OF AUT CONFLICTS ARRENG FROM HIS EXISTING LITELY VERIFICATION AND THE PROPOSED CONSTRUCTION
- 7 THE DEVELOPER WILL BE RESPONDIBLE FOR ANY DAMAGE TO THE EXITING STREETS AND LITEURS WHICH DODGERS AS A RESIDED OF HIS CONSTRUCTION PROJECT WITHIN OR CONTIQUOUS TO THE EXISTING BITRITION WAY
- AMEN SHADING IS PROPOSED WITHIN EASEMENTS OF UTLITIES, LETTERS OF PERMANSION FROM ALL WOLVED COMPANIES MUST BE OBTAINED PRIOR TO GRADING AND OR BITE DEVILOPMENT
- IN THE DEVELOPER WILL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTURIES WHICH IS EQUINITING AND RESIDENCE OF HIS PROJECT. THE RELOCATION SHOULD BE DONE FROM TO
- 15 THE CONTRACTOR IS TO VERFY FIELD CONDITIONS FRIGHT TO AND DURING CONSTRUCTION AND SASTH LAND EUROPYING AT (DRI, NO SOOT IMPEDIATELY OF ANY DISCREPANCES RETUZED ACTION. FILLD CONCESSONS AND THE APPRICABILITY
- 11 CONTRACTORS BRINL NOTEY OF RATORS WHO MANUAU UNCHRONOUND UTKITY LINES IN THE AREA OF PROPOSED EXCHANTES OR BLASTING AT LEAST TWO (I) WORKING DAYS, BUT NOT MORE THEN TEN (RE) WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCANATION OR DISSOLUTION
- 12 CONTRACTOR YO CONTACT OPERATOR AND ENGINEER IF GROUNDWATER IS ENCIGINGERED DURING
- 13 ALL EROBION AND SEDIMENT CONTROL MEASURED BHALL BE MANTAMED BY THE CONTRACTOR DALLY AND CHECKED AFTER EXIST RASHALL. ALL DRAW KILETS SHALL BE FREE OF SECTION AND DEBUT INTERESTALE MEASURES SHALL BE OFFICE AND ADDITIONARY
- 14 THE CONTRACTOR WHILE SCHEDULE APPRICONSTRUCTION WEETING WITH THE EROPICN AND MOMENT CONTROL INSPECTOR IS DAYS PRICE TO THE START OF CONSTRUCTION

SITE CLEANUP & RECYCLE PROGRAM

- GARGAGE, FUELS ON ANY SUBSTANCE HAWHEL TO HAMM, AGUATIC OR FIGHLIFE, SHALL BE PREVENTED FACES INTERESTS SPRINGS, STREAMS, FUNDS, LIMIES WITLANDS ON ANY WATER COURSE ON WATER
- 2 OLE FLELS LUBRICANTS AND COOLANTS SHALL BE PLACED IN SUITABLE CONTAINING MICHORODES
- 1 ALL TRACH AND GARBAGE WILL BE COLLECTED AND DISPOSED PROPERLY
- ALL DEDIRENT REMOVED FROM SEDIMENT CAPTURING DEVICES SHALL BE PLACED AT AN AREA IN THE PLACE PLACED AT AN AREA IN THE PLACE PLACED AT AN AREA IN THE

MAINTENANCE PROGRAM

ALL MAINTENANCE ACTIVITIES WILL BE PERFORM LIBY THE CONTRACTOR DURING THE ACTIVE CONSTRUCTION PHASE OF THE PRODUCT UPON COMPRETION OF THE ACTIVE CONSTRUCTION PHASE FIELD ENGINEEROPERATOR WILL PERFORM MARTIMANCE ACTIVITIES

- ML REVESETATED ACCESS BOXES AND FACILITIES ARE TO SE MAINTAINED THROUGHOUT THE LIFE OF EACH STRUCTURE
- CLEVENTS, ROAD DITCHES INCOME BASED BIFG. DWASCONDITIONED, AND ROCK CHEEK DAMS WAST WE MANAGED IN PROPER WORKING DADER AND USE, BUT ELEANED OUT, REPARED, ON BEPLACED AS RECESSARY.
- S ALL AREAS OF EARTH DISTURBANCE WILL BE REPAYED THERE EGAS OF ACCELERATED ERCOCK AND DITECTED.
- DESIRES AND THA CHING WILL BE REPRETED IN THESE AREAS THAT APPEAR TO BE FALLING OR HAVE FALLD.

CONSTRUCTION COMPACTION

- ALLERA MEAS WILL UTILIZE A TOR BEWINHARD WILL BE VEYED IN FILL WILL BE PLACED BY TE MANIHAM LODGE LETS IMMINIMENTATIONS DIRECTORY OF COMMINITY TO 45% PER STAMMINIS PROGRESS (ASTM O 65% WITH A VIZIATUS DESCRIPTION TO LIST AND ON A 1955 SUPPLACE.
- ANY AREAS BACKFILED DURING RECLAMATION WILL BE CONVERTED UTING A MANAGETTE LET THE RESENS AND WILL BE COMPACTED TO AT LEAST 50% OF THE STANDARD PROCEDUR AGENTS DE

CONSTRUCTION SEQUENCE

0 THE EXPLICITION OF THIS BITE SHALL BE CONSISTENT WITH THE FOLLOWING DESIGNAL ECCUCE OF CONSTRUCTION THE CONTINUEDOR SHALL MAY LESSENT WAY AND A PROVIDED THE CONTINUED AND A SHALL BE SECURED BY ANY AND ALL SUCH DEVANDONS FROM THE APPROVED FRANCE OF A SHALL BY A SHALL BE SECURED BY ANY AND ALL SUCH DEVANDONS FROM THE APPROVED FRANCE.

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2 ACCOUNTE DUTLET PROTECTION SHALL BE NOTALLED AT ALL EXISTING CLAVERTY 3 RDCX CHECK DAMS SHALL BE INSTALLED IN ALL TAISTING DITCH LINES AS NECESSARY

A ADDITIONAL GRAVER SHALL BE FLACED ON THE WELL PAD AND ACCESS HOAD. AS NECESSARY

1 ANY EXISTING SKY FENCE ALONG THE TOP OF SUPPLEMENT BE PREPARED AS MICESTARY

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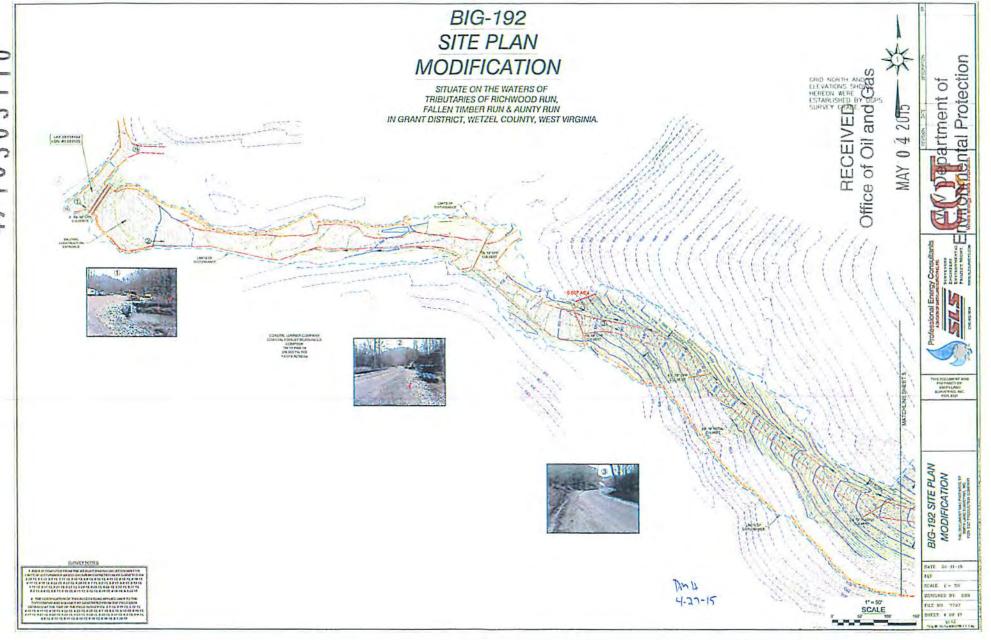
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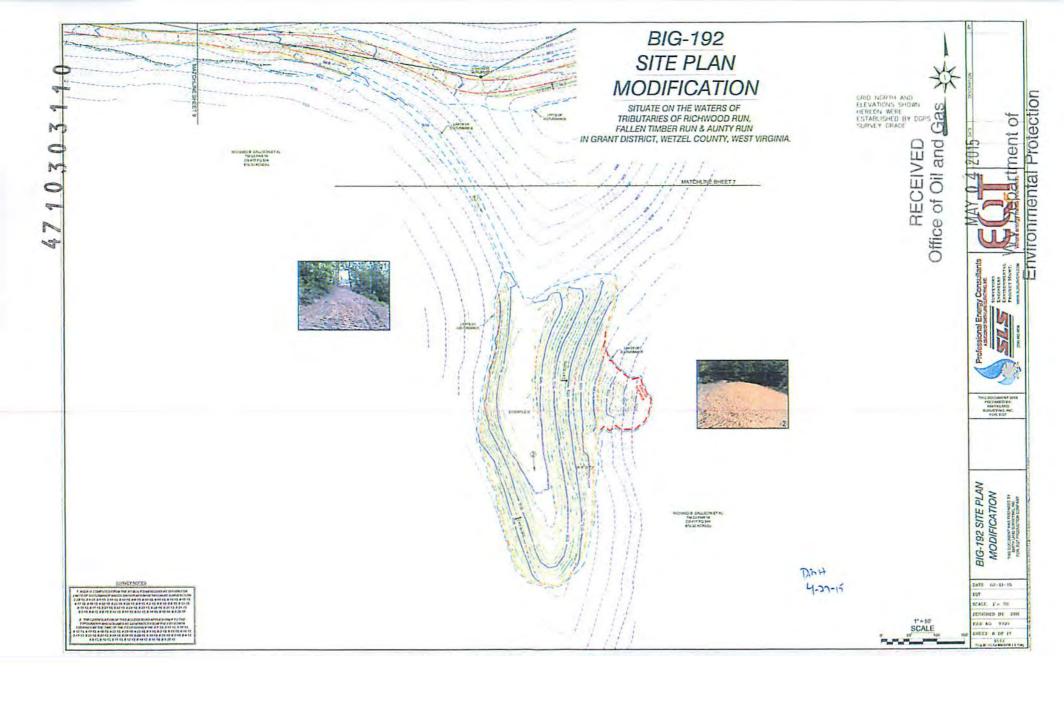
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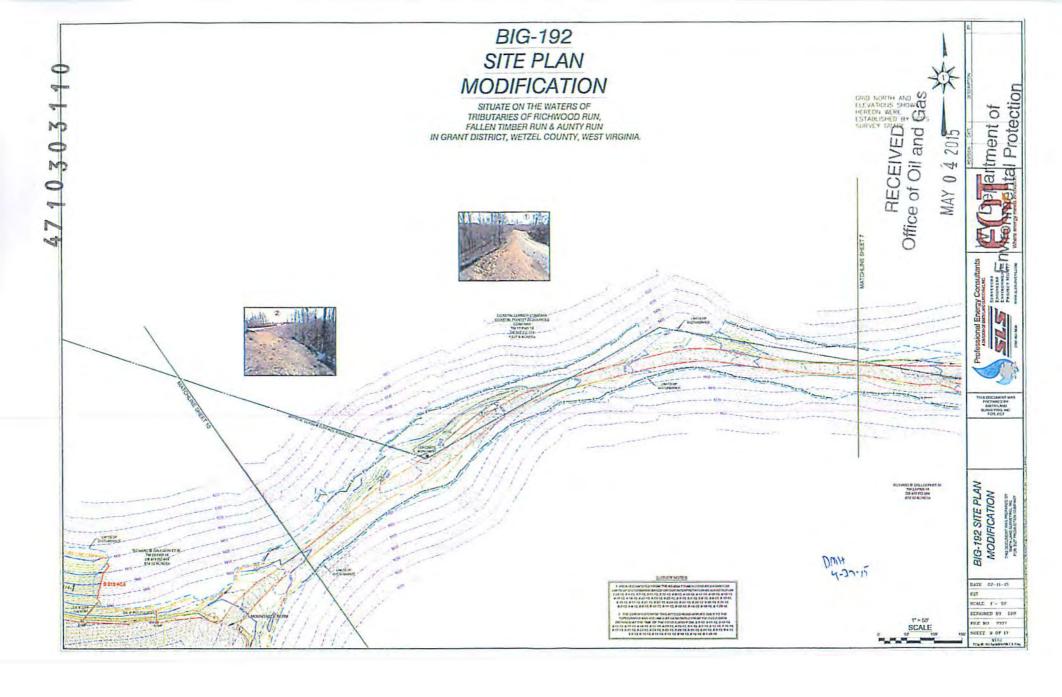
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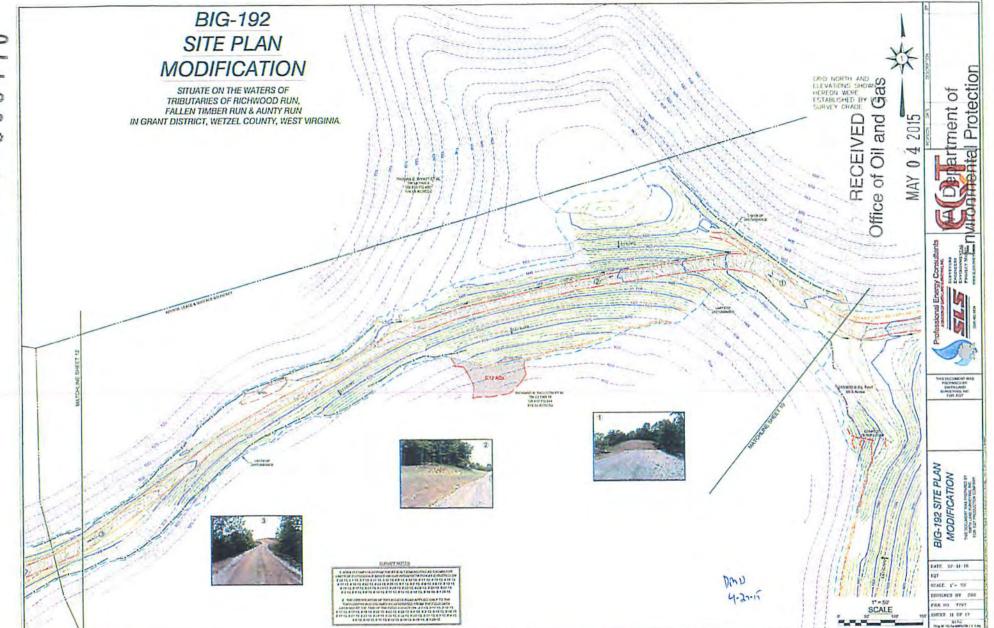


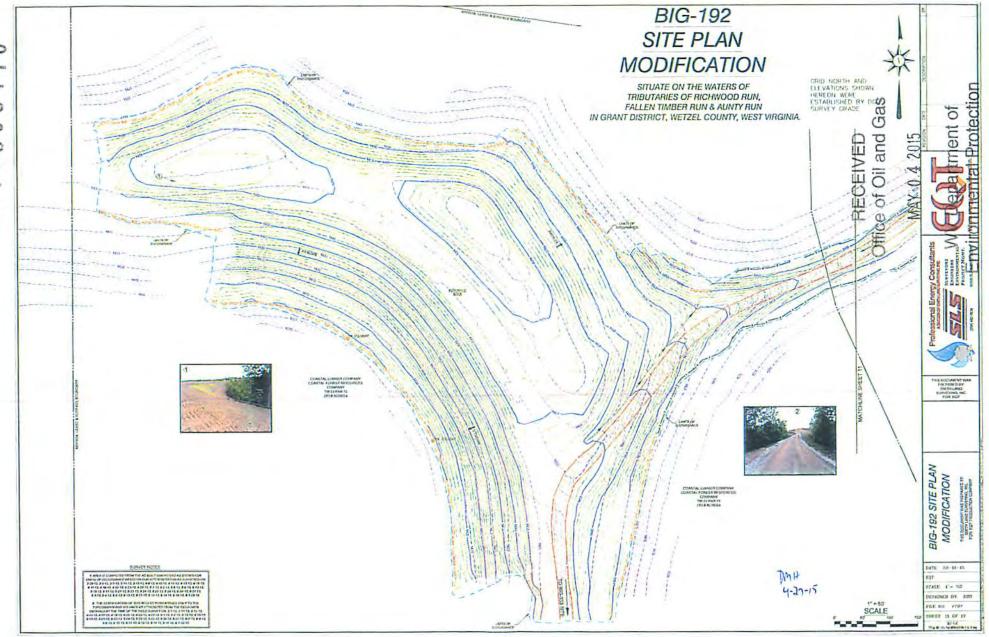
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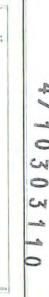
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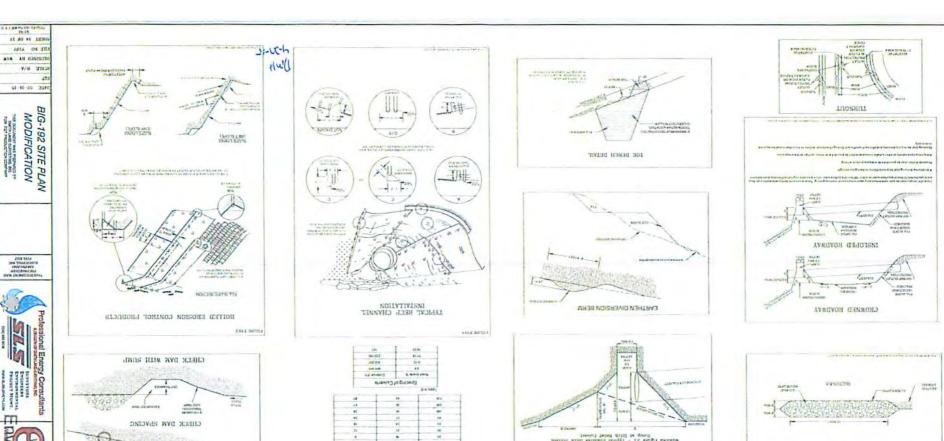




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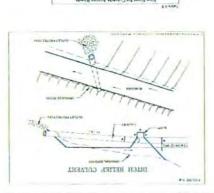
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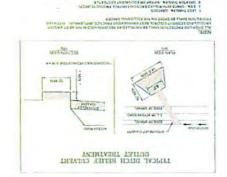
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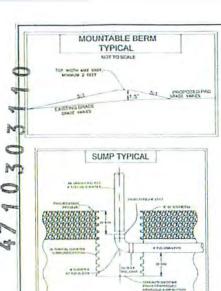


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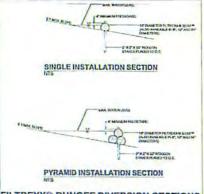
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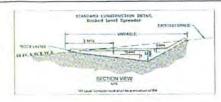




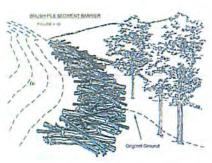




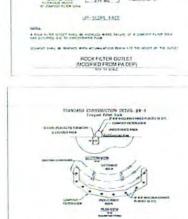








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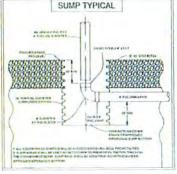
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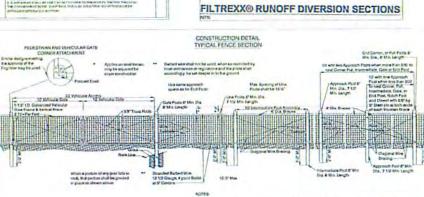
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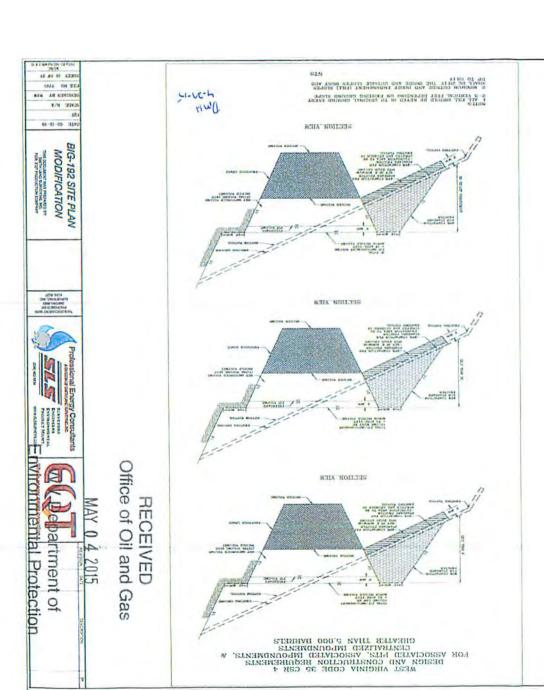
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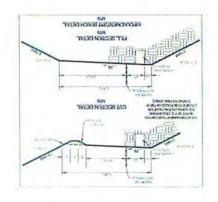
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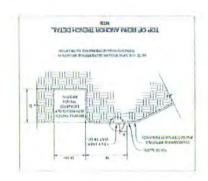
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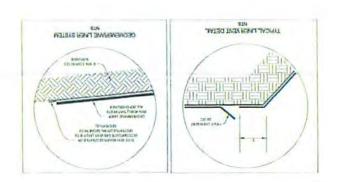
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