

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

April 18, 2014

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-1706461, 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: 513147

Farm Name: HENDERSON, JUSTIN L. ET AL

API Well Number: 47-1706461

Permit Type: Horizontal 6A Well

Date Issued: 04/18/2014

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) 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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE \$22-6A - WELL WORK PERMIT APPLICATION

							_
Well Operator: EQT Production	on Company			017	8	526	
			Operator ID	County	District	Quadrangle	
) Operator's Well Number:		513147		Well Pad Na	me:	OXF157	
) Farm Name/Surface Owner :	He	enderson e	t al	Public Road	Access:	CR-13	_
) Elevation, current ground:	970'	Eleva	ition, proposed p	post-constructio	on: <u>968</u>	<u>'</u>	
) Well Type: (a) Gas	Oil	Ur	nderground Stor	age			
Other	_						
(b) If Gas:	Shallow	•	Deep				
H	lorizontal	•					00.
	tana terior						r
) Existing Pad? Yes or No:	No						2-1
-		ingted This	knassas and A	ssociated Press	sure(s):		3-1
) Proposed Target Formation(s), I	Depth(s), Antici	pated Thic	knesses and A	ssociated Press	sure(s): ticipated larget pres	esure of 4327 PSI	3-1
-	Depth(s), Antici	pated Thic	cknesses and A	ssociated Press	sure(s): ticipated larget pres	asure of 4327 PSI	3-1
) Proposed Target Formation(s), I Target formation is Marcellus	Depth(s), Antici	pated Thic	cknesses and A	ssociated Press be 60 feet and an 6,424'	sure(s): ticipated target pres	asure of 4327 PSI	3-1 - -
) Proposed Target Formation(s), I Target formation is Marcellus) Proposed Total Vertical Depth:	Depth(s), Antici at a depth of 6424	with the anti	cipaled thickness to	be 60 feet and an	sure(s): ticipated larget pres	asure of 4327 PSI	3-1 - - -
) Proposed Target Formation(s), I Target formation is Marcellus	Depth(s), Antici at a depth of 6424 h:	with the anti	cipaled thickness to	6,424'	sure(s): ticipated larget pres	asuro of 4327 PSI	3-1
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) Proposed Target Formation(s), Interpret formation is Marcellus) Proposed Total Vertical Depth:) Formation at Total Vertical Depth O) Proposed Total Measured Depth 1) Proposed Horizontal Leg Leng 2) Approximate Fresh Water Stra 3) Method to Determine Fresh Water 4) Approximate Saltwater Depths	Depth(s), Antici at a depth of 6424 h: th ta Depths: ater Depth: :	with the and	cipaled thickness to	6,424' Marcellus 16,407 8,040 25, 59, By offset	ticipated larget pres		3-1 - - - - - - - - - - - - - - - - - -
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CASING AND TUBING PROGRAM

18)	Sizo	New	Grade	Weight per	FOOTAGE:	INTERVALS:	CEMENT:
TYPE	<u>Size</u>	or	Giade	ft.	for Drilling	Left in Well	Fill- up (Cu.Ft.)
		Used				_	
Conductor	20	New	MC-50	81	110	110	106 C.T.S.
Fresh Water	13 3/8	New	MC-50	54	925	925	806 C.T.S.
Coal	-	•	-		-	-	•
Intermediate	9 5/8	New	MC-50	40	5,020	5,020	1974 C.T.S.
Production	5 1/2	New	P-110	20	16,407	16,407	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' loss than TD
Liners							

TYPE	Size	Wellbore Diameter	<u>Wall</u> Thickness	<u>Burst</u> Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	•	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	1	1,21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	<u> </u>	1.27/1.86
Tubing					ļ	
Liners						

<u>Packers</u>

Kind:	N/A	
Sizes:	N/A	
Denths 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.

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill and complete a new horizontal well in the Marcellus Formation. The vertical drill to go down to an approximate depth of 5333'.
Then kick off the horizontal leg into the Marcellus using a slick water frac.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from
Hydraulic tracturing is completed in accordance with state registance states of the state of the
anticipated treating procesures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels 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): 37.3 ±
22) Area to be disturbed for well pad only, less access road (acres): 5.6 ±
23) Describe centralizer placement for each casing string.
- Surface: Row spring centralizers - One at the shoe and one spaced every 500.
Intermediate: Bow spring centralizers - One cent at the shoe and one spaced every 500'. Production: One spaced every 1000' from KOP to Int csg shoe
24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride
Used to speed the setting of cement sturries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement sturry to a thief zone.
Intermediate (Type 1 Coment): 0.3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting or cement
sluries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate)
to a thief zone.
<u>Production:</u>
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.
0.3% CFR (dispersant). Makes cement easier to mix.
Tall (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.
0.4-0.6% Haird (field loss). Heduces amount of water lost to formation.
25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to onhance
hole cleaning use a soap sweep or increase injection rate & foam concentration.
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across
the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

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MAR 2 1 2014

WV Department of Environmental Protection



March 10, 2014

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

Re: Casing change on OXF157(47-017-06458, 06459, 06460, 06461, 06462, 06463)

Dear Mr. Smith,

EQT is requesting the 13 3/8" surface casing to be set 20' below the deepest red rock show to cover potential red rock issues. The proposed casing set depth is above ground elevation. The reason for this is the red rock swells during drilling of the intermediate section causing many drilling problems such as but not limited to lost drilling assemblies and casing running issues.

EQT is reviewing the OXF157, we would like to request to set the surface casing deeper on each well. The 13 3/8" casing will be set at a depth of approximately 925' KB (20' below the anticipated red rock show).

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

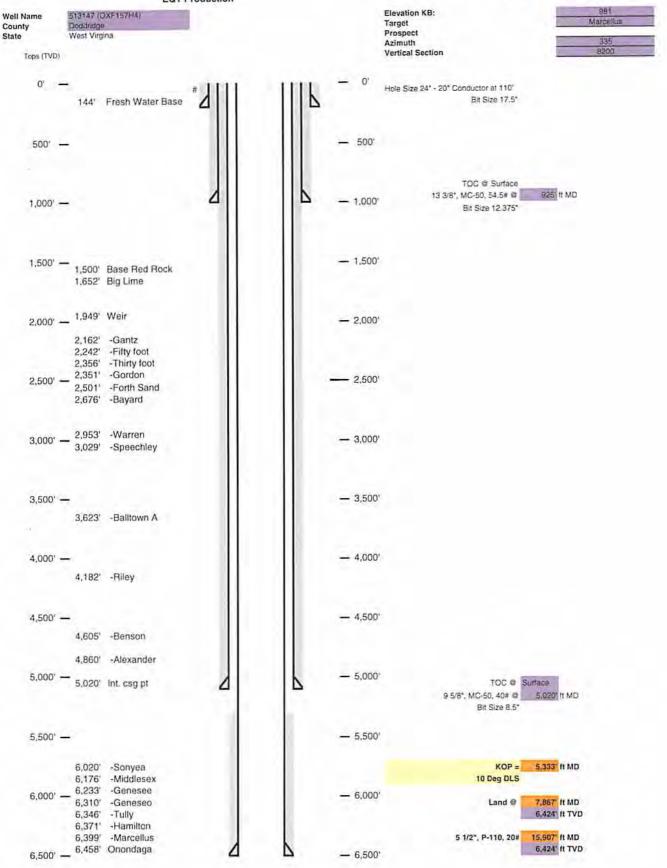
EQT Production 115 Professional Place I P.O. Box 280 I Bridgeport, WV 26330 T 304.848.0000 I F 304.848.0040 I www.eqt.com

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WV Department of Environmental F04/18/2014

Well Schematic EQT Production

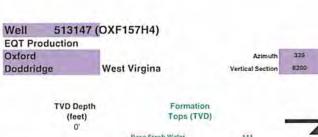


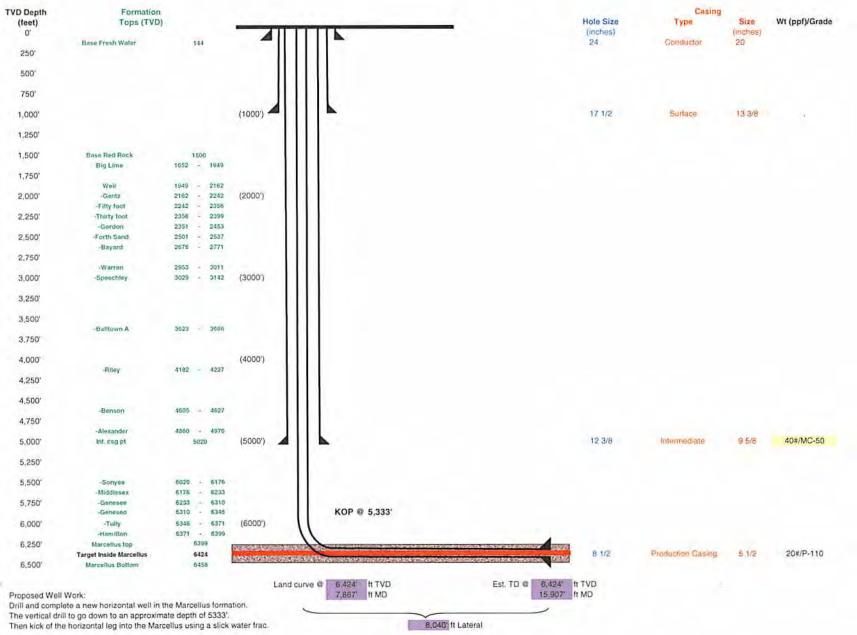
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04/18/2014





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WW-9 (5/13)

API No. 47 - 017	0
Operator's Well No.	513147

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	OXF157	OI	P Code		
Watershed (HUC10)	Bluestone Creek	Quadran	gle O	xford 7.5'	
Elevation 968	County	Doddridge	District	West Union	
Do you anticipate using more	e than 5,000 bbls of water	to complete the prop	osed well work?	Yes x N	lo
Will a pit be used ? Yes:	anticipated pit waste:				
Will a synthetic liner b	ne used in the pit? Yes	No	X If so, wha	at ml.?6	0 ()
Proposed Disposal	Method For Treated Pit W Land Application Underground Injection Reuse (at API Number Off Site Disposal (Su Other (Explain	astes: (UIC Permit Numb		•) 3/9.21
Will closed loop system be us fluid. The drill cuttings are then	sed ? Yes, The closed lo			he drilling	
Drilling medium anticipated	for this well? Air, freshwa	ter, oil based, etc. A	ir is used to drill the top-hole	sections of the wellbo	we.
		Si	urlace, Intermediate, and Pil	ot hole sections, water	based
		m	and is used to drill the curve a	and lateral.	
If oil based, what t	type? Synthetic, petroleum	n, etc			
Additives to be used in drilling	medium? MILBAR, V	iscosifer, Alkalinity Control	l, Lime, Chloride Salts	,Rate Filtration C	control,
Deflocculant, Lubricant, Detergent, I				•	
generally used when drilling on air.					
viscosifer, alkalinity control, lime, chi	oride salts, rate filtration control	deflocculant, lubricant, d	etergent, defoaming,	walnut shell,	
x-cide, SOLTEX terra Drill cuttings disposal method	d? Leave in pit, landfill, re	moved offsite, etc.	Lar	ndfill	
•	o solidify what medium will be u	·	ust)	n/a	
- Landfill or offsite na			Attached List		
		- AN OCHERAL MATE	ED DOLLUTION BED	MIT incread	
I certify that I understand and on August 1, 2005, by the Office of C provisions of the permit are enforcea or regulation can lead to enforcemen	ble by law. Violations of any terr	Department of Environmen	ntal Protection. I unde	erstand that the	
I certify under penalty of law th	nat I have personally examined	and am familiar with the in	formation submitted o	on this	
application form and all attachments the information, I believe that the info submitting false information, including	rmation is true, accurate, and c	omplete. I am aware that t	immediately responsing there are significantly	epairies for CIV	En Co.
Company Official Signature		Victoria J. F	Mark	h 17 1 1 2	<u>*</u> 4
Company Official (Typed Nam	18)	Permitting Supervi		Depart.	
Company Official Title		1 Olimany Capy	Enviror	neparture Imental Pro	arco . Ot⊚cuor.
Subscribed and sworp before	me this	day of Amus		, 20 <u>/</u>	
Hamle.	kee		Nota	ary Public	
My commission expires	8-24-	28			04/18/2014



47 0 1 7 0 6 4 6 1 Operator's Well No. 513147

	tion Treatment: Acre	s Disturbed	37.3±	Prevegetation pH _	6.3
. Lime	3	Tons/acre or to c	orrect to pH	6.5	
Fertilize typ	e				-
Fertilizer An	mount1/3	3lbs/acr	e (500 lbs minimum)		
Mulch	2		Tons/acre		
		Se	eed Mixtures		
	Temporary			Permanent	
Seed Type KY-31	lbs/acre 40	0	Seed Type Orchard Grass	lbs/acre	8
Alsike Clover	5		Alsike Clover	5	
Annual Rye	15		-		
Photocopied section of	or involved 7.5° topog	grapnic sneet.			
Plan Approved by:	Douglas 1	Temlon	Mic	had Daff	
Plan Approved by:omments:	Douglas 1	Temlor	Mie	had Daff	,
Plan Approved by: _ forments:	Douglas 1. sexul & Mu.	Temlor 1ch ing	Mie Tall Et 3	had Daff	,
Plan Approved by: _ omments:	Douglas 1. sexul + Mu.	Tembor 1ch ing.	Mie Tull EFS	had Daff	/
Plan Approved by: _ comments:	Douglas 1. sexul & Mu.	Temlor 1ch ing	Mic	had Doff	/
Plan Approved by: _ comments:Pie:	Douglas 1. sexul & Mu.	Temlor 1ch ing	Mie	had Daff	/
Plan Approved by:	15	,	Mie 141 Et 3 1		

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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 Green County/Waynesburg Permit # TC-1009

BROAD STREET ENERGY LLC.

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

04/18/2014

Received

JAN 30 2014

4701706461

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

> 04/18/2014 Received

JAN 30 2014



Site Specific Safety and Environmental Plan For

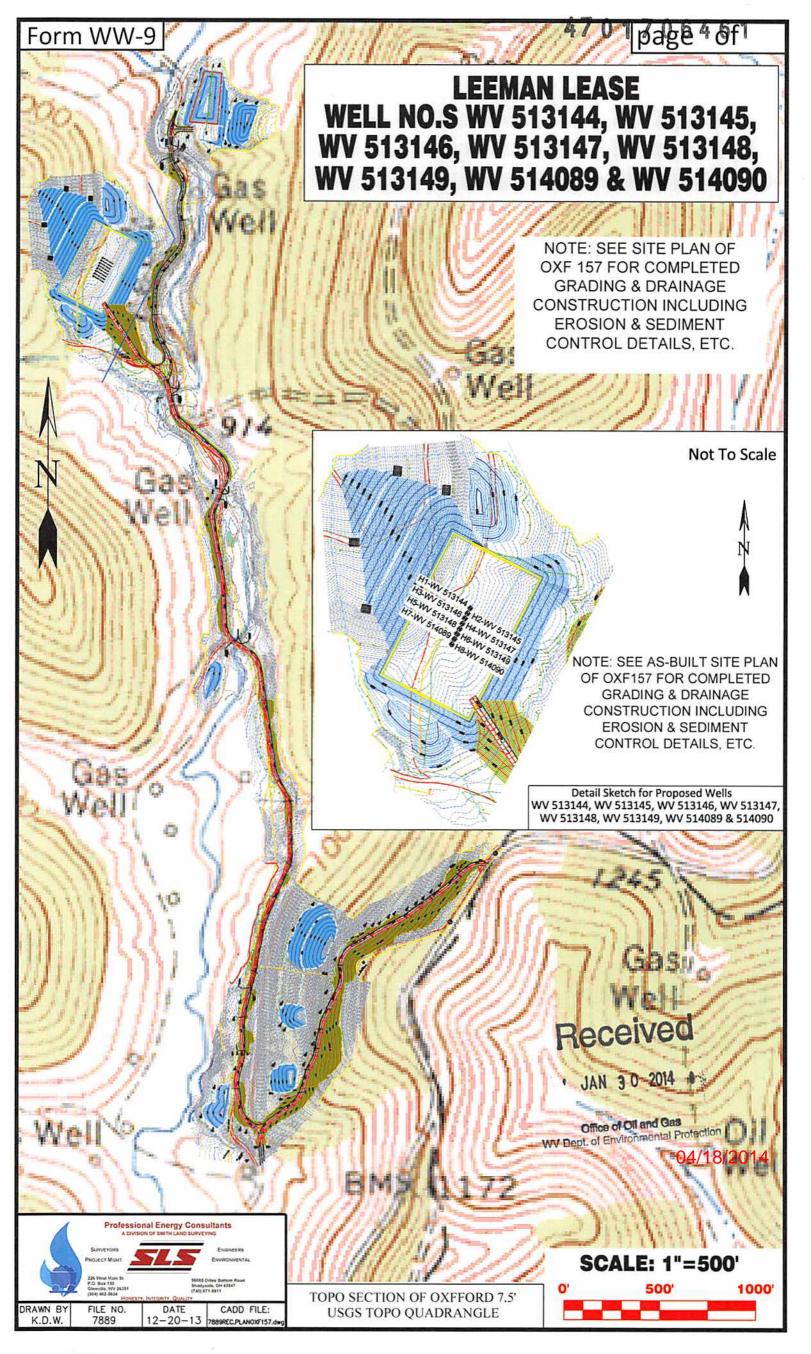
EQT OXF 157 Pad

Oxford Doddridge County, WV

513144	513145	513146	For Wells: 513147	513148	_513149		
							
QT Production	1/1	Date Pre	pared: <u></u>	January 13, 201 Dough WV Oil and	As Newfor—Gas Inspector	Michael	Doff
tie Penint	ting Uper	rvisor		Title 3 - 19	- 2014		
ate	19			Date			

PECENTER

WV Department Environmental Protection



4701706461 of page WATER SAMPLES LEEMAN MAXWELL LEASE **OXF157 WELL PAD** Gas Well OXF157 Well Gas Well Well Ghisi NAD 86 as Well LAT: 39,228862 LONG: 80,754381 Received JAN 3 0 2014 Office of Oll and Gas WW Dept, of Environmental Protection Gas Well M-INCHIE VOOR Maxwell Cem TOPO SECTION OF: OPERATOR:

7889 DATE CADD FILE: 01/03/14 7889WS0XF157

OXFORD, WV 7.5' QUAD.

COUNTY TAX MAP-PARCEL NO. DISTRICT WEST UNION DODDRIDGE 23-02

EQT PRODUCTION COMPANY 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

