



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 07, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3302013, issued to XTO ENERGY, INC., 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: JACKSON S-8
Farm Name: ROGERS, EDWARD
API Well Number: 47-3302013
Permit Type: Plugging
Date Issued: 08/07/2015

Promoting a healthy environment.

08/07/2015

PERMIT CONDITIONS

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

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
Rev. 2/01

1) Date 7/13, 2015
2) Operator's
Well No. Jackson S-8
3) API Well No. 47-033 - 02013

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 1539' Watershed Little Tenmile Creek
District Sardis County Harrison Quadrangle Wallace

6) Well Operator XTO Energy Inc 7) Designated Agent Gary Beall
Address PO Box 1008 Address PO Box 1008
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Sam Ward Name _____
Address PO Box 2327 Address _____
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
RIH with tools and check TD at 5030', POOH and run tubing down to 5030' and circulate 6% gel back to surface, then pump cement from 5020' up to 4920', No perms here, pull tubing up to 4620' and pump cement up to 4400', perms at 4564 - 4560', pull tubing up to 4090' and reverse out of tubing, then wait for cement to set up, RIH down tubing and tag cement at 4400', if ok break circulation and pump cement from 4090' up to 3900', pull tubing up 3100' and pump cement up to 2550', perms at 3034 - 2676', pull tubing up to 2230' and pump cement up to 2000', pull tubing out and run W/L in to CBL, top est. at 1750', cut casing and break circulation with 6% gel, pull casing out and run tubing back in to cut and pump cement from 1750' up to 1650', pull tubing up to 1600' and pump cement up to 1440', elev. at 1539', pull tubing up to 1320' and pump cement up to 1200', bottom of 8 5/8" at 1262', pull tubing out and run CBL in 8 5/8", T.O.C. estimated at 850', cut and pull casing, run tubing back to cut and pump cement from 850' up to 750', pull tubing up to 275' and pump cement to surface. Install well monument.

See attached

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

Work order approved by inspector [Signature] Date 7/15/2015

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08/07/2015

47-033-02013

Plugging Procedure

Cement 5030 - 4920' = 110' in 4.5"

Cement 4620 - 4400' = 220' in 4.5"

Cement 4090 - 3900' = 190' in 4.5"

Cement 3100 - 2550' = 550' in 4.5"

Cement 2230 - 2000' = 230' in 4.5"

Cement 1750 - 1650' = 100' in 7 7/8" (Open Hole)

Cement 1600' - 1440' = 120' in 7 7/8" (Open Hole)

Cement 1320 - 1200' = 120' in 8 5/8"

Cement 850 - 750' = 100' in 11" (Open Hole) (CORAL)

Cement 275 - 0' = 275' in 11" (Open Hole) (CORAL)

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IV-35
(Rev 8-81)

Date February 11th, 1986
Operator's
Well No. Jackson S-8
Farm Jackson
API No. 47 - 033 - 2013

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1501' Watershed Caldwell Run
District: Sardis County Harrison Quadrangle Wallace

COMPANY Sheldon and Sheldon, Inc.
ADDRESS 901 W. Main St. Suite 201, Bldgprt, WV
DESIGNATED AGENT David J. Sheldon
ADDRESS 118 Westwood Ave. Bldgpt. WV.
SURFACE OWNER Edward Rogers
ADDRESS 2124 OHara Dr., Charlotte, NC
MINERAL RIGHTS OWNER Edward Rogers
ADDRESS 2124 Ohara Dr. Charlotte, NC
OIL AND GAS INSPECTOR FOR THIS WORK Steve
Casey ADDRESS Rt. 2 Box 232-D, Jane Lew, WV
PERMIT ISSUED October 28th, 1985
DRILLING COMMENCED N/A
DRILLING COMPLETED N/A
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well _____ feet Rotary ___ / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after Received shut in
(If applicable due to multiple completion--)
Second producing formation Big Injun Pay zone depth 210 - 215 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 130 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 215 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforation Notch 2125 and 2162

Frace Using 730 hbbs water, 60,000# 20-40 Sand, 2,000# Rock Salt
500 Gals Acid, and 87,000. scf N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
THIS INFORMATION IS SHOWN ON ORIGINAL WELL REPORT.					

Received
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JUL 20 2015

(Attach separate sheets as necessary)

Sheldon and Sheldon, Inc.
Well Operator

By: *[Signature]* Received 08/07/2015

Date: February 11th, 1986 Office of Oil & Gas

JUL 20 2015

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



3302013P

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FEB 17 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS
DEPT. OF MINES

WELL RECORD 7

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Wallace
Permit No. 47-033-2013

Company Doran & Associates, Inc.
Address 728 Washington Rd., Pgh., PA 15228
Farm Mary Jackson - Rogers Acres 155
Location (waters) Caldwell Run
Well No. 2 K-L-231 Elev. 1501
District Sardis County Harrison
The surface of tract is owned in fee by Mary Elizabeth Jackson
Address 2634 Prairie, Evanston, IL 60201
Mineral rights are owned by same as above
Address _____
Drilling Commenced 8/20/79
Drilling Completed 8/27/79
Initial open flow 84 Mcu. ft. _____ bbls.
Final production 544 Mcu. ft. per day _____ bbls.
Well open 4 hrs. before test 1325 #RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 11 3/4"	30'	30'	
9 5/8			
8 5/8	1262'	1262'	88 Sks.
7			
5 1/2			
4 1/2	5032'	5032'	285 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From:	To:	Amt Fluid:	Amt Sand:
9/13/79		4009	4032	650 BBLs.	50,000 #
9/13/79		4560	4564	509 BBLs.	40,000 #

Coal was encountered at 48, 250, 765 Feet _____ Inches
Fresh water 215 Feet _____ Salt Water _____ Feet _____
Producing Sand Bradford, Balltown Depth 4560, 4009

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks
Substructure			0	10		
Sand			10	48		
Coal			48	50		
Sand			50	145		
Shale			145	170		
Sand			170	200		
Shale			200	250		F. W. @ 215'
Coal			250	255		
Shale & Red Rock			255	575		
Sand			575	651		
Shale			651	765		
Coal			765	768		
Sand & Shale			768	805		
Sand			805	865		
Shale & Red Rock			865	1115		
Sand & Shale			1115	1456		
Shale & Sand			1456	1815		Water @ 1770'
Shale & Red Rock			1815	1965		
Big Lime & Injun			1965	2135		
Shale			2135	2250		
Red Rock			2250	2285		
Sand & Shale			2285	2875		
Sand			2875	2975		

08/07/2015

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Shale & Sand Shale and and & Shale Miller's T.D.			2975 4600 4990 5020	4600 4990 5020 5144 5144	Show @ 4800'	
Big Injun th Sand Upper Speechley peechley alltown radford			2056 2934 3524 3668 4016 4550	2192 2958 3258 3720 4058 4580		
Logger's T.D.				5090		

08/07/2015

Date Nov. 27 1979
 APPROVED Donald P. Laughlin Owner
 Vice President
 (T.16)

WW-4A
Revised 6-07

1) Date: 7/13/15
2) Operator's Well Number
Jackson S-8
3) API Well No.: 47 - 033 - 02013

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

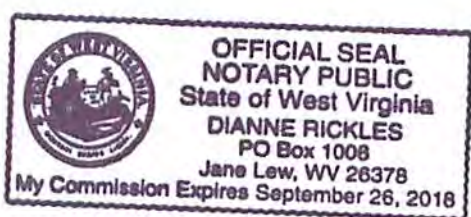
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Elizabeth Jackson Groninger & Hunter Jackson</u> ✓	Name _____
Address <u>1711 Park Ave.</u> ✓	Address _____
<u>Richmond, VA 23220</u>	
(b) Name <u>Edward Rogers</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>PO Box 7161</u> ✓	Name <u>Charleston National Bank (BB&T)</u> ✓
<u>Charlotte, NC 28241</u>	Address <u>3800 Maccorkle Ave SE</u>
	<u>Charleston, WV 25304</u>
(c) Name <u>Wayne Piggot Jr</u> ✓	Name <u>Michael Coal Company</u>
Address <u>1826 Caldwell Run Rd.</u> ✓	Address <u>6690 State Rt. 209</u>
<u>Lumberport, WV 26389</u>	<u>Lykens, PA 17048</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	

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

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

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

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



Well Operator XTO Energy Inc.
 By: [Signature]
 Its: Regulatory Compliance Technician
 Address PO Box 1008
Jane Lew, WV 26378
 Telephone 304-884-6000

Subscribed and sworn before me this 13th day of July 2015
[Signature] Notary Public
 My Commission Expires Sept. 26, 2018

Oil and Gas Privacy Notice

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

Received
Office of Oil & Gas
JUL 20 2015
08/07/2015

CK 120100

WW-9
(2/15)

API Number 47 - 033 - 02013
Operator's Well No. Jackson S-8

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (HUC 10) Little Tenmile Creek Quadrangle Wallace

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fluids from plugging operations.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? Yes - 20 mil.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 4707302523, 4708505151, 4708509721)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Meadowbrook Landfill SWF#1032, RES Water Recycling -WMGR123SW005 (PA)

SDW
7/15/2015

Will closed loop system be used? If so, describe: NA

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

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

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Any solid waste from plugging will be taken to landfill.

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

-Landfill or offsite name/permit number? Meadowbrook Landfill SWF#1032

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Received
Office of Oil & Gas
JUL 20 2015

Company Official Signature Tim Sands

Company Official (Typed Name) Tim Sands

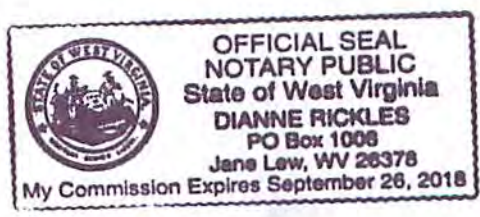
Company Official Title Regulatory Compliance Technician

Subscribed and sworn before me this 13th day of July, 2015

Dianne Rickles Notary Public

My commission expires Sept. 26, 2018

08/07/2015



Form WW-9

Operator's Well No. Jackson 5-8

XTO Energy Inc.

Proposed Revegetation Treatment: Acres Disturbed 1.3 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH _____

Fertilizer type Commercial Fertilizer 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Kentucky Bluegrass	20
		Redtop	3
		Birdsfoot Trefoil	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Sue D Warditt

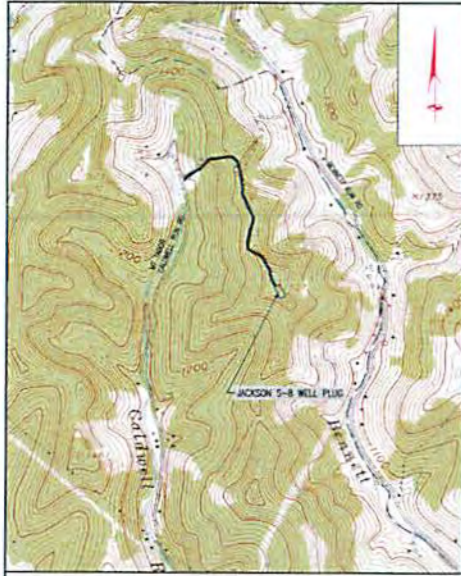
Comments: _____

Title: OOG Inspector Date: 7/15/2015

Field Reviewed? () Yes (X) No

08/07/2015

3302013P



SITE LOCATION MAP
SCALE: 1"=1000'
MAP REF: WALLACE, WV
U.S.G.S. 7.5 MINUTE QUAD



REVISIONS

NO.	DESCRIPTION	DATE	BY

LEGEND

	EXISTING CONTOUR 10'
	PROPERTY LINE
	TEMPORARY WORK AREA
	ROAD
	WETLAND
	WETLAND 10' BUFFER
	WETLAND 20' BUFFER
	WETLAND 30' BUFFER
	WETLAND 40' BUFFER
	STUDY AREA

NOTES

1. ELEVATIONS ARE APPROXIMATED FROM WEST VIRGINIA GO. TECHNICAL CENTER CONTOURS, AND NOT FIELD MEASUREMENTS.
2. PROPERTY LINES SHOWN ON PLANS ARE REFERENCED FROM COUNTY MAPS AND NOT FIELD SURVEYED.
3. WETLANDS ARE TEMPORARY IMPACTS TO WETLANDS.
4. NO TEMPORARY IMPACTS TO STREAMS.



XTO ENERGY
810 HOUSTON STREET
FORT WORTH, TX 76102

TRI-COUNTY ENGINEERING, LLC
An DENERCON Company
319 Pennsylvania Road
Houston, TX 77060
Voice: (724) 635-0210 Fax: (724) 635-0676
www.tri-county.com

SEDIMENT CONTROL PLAN
JACKSON 5-8 WELL PLUG

Drawn by: JFC	SARGIS DISTRICT, HARRISON COUNTY, WV
Check by: JFC	DATE: 5/16/2015
AS NOTED	1 OF 3 0081-08

SP2015117
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3302013P

PROJECT DESCRIPTION

TRI-COUNTY ENGINEERING, LLC (TCE) ON BEHALF OF XTO ENERGY, INC., PREPARED THIS SEDIMENT CONTROL PLAN FOR THE JACKSON S-8 WELL PLUG PROJECT. THE PROJECT IS LOCATED APPROXIMATELY 4 MILES NORTHWEST OF LUMBERTON IN THE SARVIS DISTRICT OF HARRISON COUNTY, WEST VIRGINIA. THE PROPOSED JACKSON S-8 WELL PLUG PROJECT INVOLVES THE PLUGGING AND ABANDONMENT OF THE JACKSON S-8 SHALLOW GAS WELL. THE WELLHEAD, CASING AND PRODUCTION EQUIPMENT WILL BE REMOVED. SIGHT CONE PILES ARE PLACED WITHIN THE BENCHMARK. THE WELL PAD AREA WILL BE RECLAIMED AND GRADED TO BE CONSISTENT WITH THE GENERAL CONTOUR OF THE IMMEDIATE SURROUNDING LAND. THE SITE WILL BE SEEDING AS REQUIRED, WITH A MAT APPROVED BY WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE PROJECT CONSISTS OF AN ACCESS ROAD APPROXIMATELY 12 FEET WIDE AND 3,120 FEET LONG, AND A WORKSPACE APPROXIMATELY 20,000 SQUARE FEET (0.5 ACRES). THE STUDY AREA FOR THE PROJECT WAS 121,357 SQUARE FEET (2.8 ACRES).

STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND NOTES

THE CONTRACTOR SHALL USE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL. BEST MANAGEMENT PRACTICES WILL BE USED DURING CONSTRUCTION TO HELP MAINTAIN SEDIMENTATION TO ANY STREAMS AND/OR WETLANDS AND TO KEEP MUD, DIRT, AND DEBRIS OFF THE PUBLIC ROADS THAT COULD BE DISPOSED FROM THE EQUIPMENT USED FOR CONSTRUCTION OF THE PROJECT. EROSION AND SEDIMENT CONTROL MEASURES TO BE USED FOR THIS PROJECT ARE COMPOST FILTER SOCKS, STABILIZED CONSTRUCTION ENTRANCE, AND FIBER MAT BRIDGES FOR STREAM AND WETLAND CROSSINGS (WHEN APPLICABLE).

IF PROJECT LIMITS CHANGE FOR NEEDS OF CONSTRUCTION, AND ADDITIONAL WATERBODIES AND/OR WETLANDS ARE TO BE CROSSED OR IMPACTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS PRIOR TO IMPACTING THOSE FEATURES. IF OTHER ACCESSES ARE NEEDED OR BETTER ROUTES ARE DETERMINED, OBTAIN THE NECESSARY PERMITS PRIOR TO INITIATING WORK FOR THE NEW ROUTES. PROVIDE RECORD MARKUPS ON THE ON-SITE SCD DRAWINGS TO INCLUDE THE LOCATION OF THE ACCESS ROADS AND THE CONTROL MEASURES, SUCH AS STABILIZED CONSTRUCTION ENTRANCES, TO BE USED.

VEGETATIVE PRACTICES - TEMPORARY AND PERMANENT

PERMANENT VEGETATIVE STABILIZATION: DISTURBED AREAS WILL RECEIVE TOPSOIL AND PERMANENT VEGETATIVE STABILIZATION DEFINED AS A UNIFORM JOE PERENNIAL VEGETATIVE COVER, 10' TO 20' TO A DEPTH OF 2" REMOVED ALL OBJECTS 2" OR LARGER. THESE AREAS WILL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS OF THIS PLAN. **TEMPORARY VEGETATIVE PRACTICES (INTERIM STABILIZATION):** SLOPE AREAS, SOIL STOCKPILES, OR EMBARMENTS THAT WILL SET BACK DUE TO UNFORESEEN CIRCUMSTANCES DURING OPERATIONS OR THAT WILL REMAIN IN PLACE FOR MORE THAN TWO WEEKS SHALL RECEIVE TEMPORARY SEEDING. THESE AREAS WILL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE SEEDING TABLES OF THIS PLAN.

THE PLANS AND SPECIFICATIONS FOR INSTALLING TOPSOIL SHALL BE IN KEEPING WITH THIS STANDARD AND SHALL DESCRIBE THE REQUIREMENTS FOR APPLYING THE PRACTICE TO ACHIEVE ITS INTENDED PURPOSE. AT A MINIMUM INCLUDE THE FOLLOWING ITEMS:

1. TOPSOIL SOURCE
2. STOCKPILE LOCATION AND METHOD OF STABILIZATION PRIOR TO USE
3. TOPSOIL/SUBSOIL BONDING PROCEDURES
4. SITE PREPARATION PLANS AND METHODS OF APPLICATION, DISTRIBUTION AND COMPACTION

SITE PREPARATION - BEFORE SPREADING TOPSOIL: ASSUME THAT ALL NECESSARY SEDIMENT CONTROL PRACTICES, SUCH AS OVERDOSSING AND SEDIMENT BARRIERS ARE IN PLACE AND FUNCTIONING PROPERLY. THESE PRACTICES MUST BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.

GRAZING - MAINTAIN GRAZERS ON THE AREAS TO BE TOPSOILED ACCORDING TO THE APPROVED PLAN AND DO NOT ALTER THEM BY ADDING TOPSOIL.

LAMING OF SUBSOIL - WHERE THE PH OF THE EXISTING SUBSOIL IS 8.0 OR LESS, OR THE SOIL IS COMPOSED OF HEAVY CLAYS, INCOMPATIBLE AGRICULTURAL LIMESTONE IN AMOUNTS RECOMMENDED BY SOIL TESTS OR SPECIFIED FOR THE SEEDING MATURE TO BE USED. INCORPORATE LIME TO A DEPTH OF AT LEAST 2 INCHES BY DOZING.

ROUENING - IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, LOOSEN THE SUBGRADE BY DOZING OR SCARPING TO A DEPTH OF AT LEAST 4 INCHES, TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL. IF NO AMENDMENTS HAVE BEEN INCORPORATED, LOOSEN THE SOIL TO A DEPTH OF AT LEAST 8 INCHES BEFORE SPREADING THE TOPSOIL.

DRAINAGE TOPSOIL - UNIFORMLY DISTRIBUTE TOPSOIL TO A MINIMUM COMPACTED DEPTH OF 2 INCHES ON 3:1 SLOPES AND 4 INCHES ON FLATTER SLOPES. TOPSOIL SHALL NOT BE SPREAD WHILE IT IS FROZEN OR SATURATED. IRREGULARITIES IN THE SURFACE THAT RESULT FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED TO PREVENT THE FORMATION OF DEPRESSIONS OR PONDING OF WATER. COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL, BUT AVOID EXCESSIVE COMPACTION, AS IT INCREASES RUNOFF AND INHIBITS SEED GERMINATION AND SEEDLING GROWTH. LIGHT PACKING WITH A ROLLER IS RECOMMENDED WHERE HIGH-WAISTED MATS ARE TO BE ESTABLISHED. IN AREAS THAT ARE NOT GOING TO BE MOWED, THE SURFACE CAN BE LEFT ROUGH.

MAINTENANCE - AFTER TOPSOIL APPLICATION, FOLLOW PROCEDURES FOR SEEDBED PREPARATION. TAKE CARE TO AVOID EXCESSIVE MIXING OF TOPSOIL INTO THE SUBSOIL. PERMANENTLY STABILIZE THE SITE FOLLOWING APPROPRIATE PRACTICE STANDARDS AS QUICKLY AS PRACTICABLE. PERIODICALLY INSPECT THE SITE UNTIL PERMANENT STABILIZATION IS ACHIEVED. MAKE NECESSARY REPAIRS TO ERODED AREAS OR AREAS OF LIGHT VEGETATIVE COVER. ESTABLISH A VEGETATIVE

COVER IN THE AREAS THAT WILL ADEQUATELY PREVENT EROSION. **SEEDBED PREPARATION -** TO CONTROL EROSION ON BARE SOIL SURFACES, PLANTS MUST BE ABLE TO GERMINATE AND GROW. SEEDBED PREPARATION IS ESSENTIAL. IF THE AREA HAS BEEN RECENTLY LOGGED OR DISTURBED, NO FURTHER REWORKING IS REQUIRED. WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED, THE SOIL SURFACE MUST BE LOOSENED BY DOZING, RAVING, HARBORING, OR OTHER ACCEPTABLE MEANS (SEE SURFACE ROUGHENING SECTION). **SEEDING -** SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIVATOR SEEDER OR HYDROSEEDER. SMALL GRASSES SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SMALL SEEDS, SUCH AS ANNUAL RY, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP. **MULCHING -** TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS, SHALL BE MULCHED WITH STRAW OR HAY ACCORDING TO THE STANDARD FOR MULCHING. HYDROSEEDING (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

BASE SEDIMENT CONTROL PLAN ELEMENTS

OBTAIN ALL PERMITS AND APPROVALS PRIOR TO CONSTRUCTION. IF CONSTRUCTION LIMITS NEED TO BE EXPANDED BEYOND THE LIMITS OF DISTURBANCE AREA SHOWN ON THE PLAN, A PRE-CONSTRUCTION ENVIRONMENTAL EVALUATION WILL NEED TO BE CONDUCTED. CONTACT THE ENVIRONMENTAL BIOLOGIST TO CONDUCT A REVIEW ON THE NEW AREAS PRIOR TO CONSTRUCTION. INSTALL THE STABILIZED CONSTRUCTION ENTRANCES AT THE ACCESS ROAD. STABILIZED CONSTRUCTION ENTRANCES MAY BE NEEDED AT THE ACCESS ROAD PENDING ITS USE AT THE TIME OF THIS PROJECT'S CONSTRUCTION.

MARK ALL CLEARING LIMITS AND SENSITIVE AREAS SUCH AS STREAMS, WETLANDS, ETC. ON A DAILY BASIS. CLEAN THE ROADS THOROUGHLY BY REMOVING TRACKED SEDIMENT BY SHOULDER OR SWEEPING. STREET WASHING TO A WATERREUSE OR STORM DRAIN SYSTEM IS NOT ALLOWED. INSTALL COMPOST FILTER SOCKS WHERE SHOWN, PARALLEL TO THE SLOPE AND ON THE DOWN-SLOPE SIDE OF THE LIMITS OF DISTURBANCE TO PREVENT SEDIMENTATION FROM LEAVING THE PROJECT AREA.

KEEP AND CLEAR ALONG THE ROW. PRESERVE NATURAL VEGETATION AS MUCH AS POSSIBLE, WITHOUT SIGNIFICANT INTERFERENCE WITH CONSTRUCTION ACTIVITIES. USE TIMBER MAT BRIDGES TO CROSS WATERBODIES AND WET AREAS, AS NEEDED. RE-ESTABLISH THE GRADE TO THE PRE-CONSTRUCTION CONDITIONS. RE-STABILIZE DISTURBED SOILS WITHIN 7 DAYS BY PLACING TEMPORARY SEEDING. IF NOT FINAL GRADED, AND PERMANENT SEEDING WITH A NURSE CROP IS FINAL GRADED.

MULCH AND FERTILIZE AS STATED IN THIS PLAN. PLACE ROLLED EROSION CONTROL PRODUCTS (RECP), MATS AND BLANKETS ON TOP OF SEEDING AREAS. ON STEEP SLOPES WHERE SEEDING MAY BE DISPLACED BY RUNOFF. PHYSICALLY SLOPES GREATER THAN 3:1V:1H NEED TO HAVE AN EROSION CONTROL MAT OR BLANKET PLACED OVER THE SEEDING AREAS. SEED AND PLACE RECP ON THE STEEP SLOPES ADJACENT TO ANY AND ALL STREAMS IMMEDIATELY (WITHIN 7 DAYS) AFTER THE WELL PLUG IS REMOVED. MAINTAIN ALL BEST MANAGEMENT PRACTICES (BMPs) AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

ALL BMPs SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHOULD BE MADE IMMEDIATELY. THIS INCLUDES THE REMOVAL OF SEDIMENT THAT IS OVER HALF THE HEIGHT OF THE COMPOST FILTER SOCK (1" DAY PER WEEK OR AS STORM EVENTS REQUIRE).

TEMPORARY BMPs SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER OF THE TOTAL VEGETATED AREA WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY OTHER COVER SUCH AS PAVEMENT OR BUILDINGS (WHEN APPLICABLE).

NO NEW PERMANENT CUT OR FILL SLOPES ARE TO REMAIN ON-SITE. DRAINAGE SHOULD BE DONE SUCH THAT POST-CONSTRUCTION CONTOURS SHOULD CLOSELY MATCH APPROXIMATE ORIGINAL CONTOURS AFTER CONSTRUCTION IS COMPLETE. ALL AREAS IN THE LOG THAT WERE VEGETATED IN THE EXISTING CONDITION ARE TO BE VEGETATED AFTER CONSTRUCTION.

MAINTAINING THE PROJECT

THIS SEDIMENT CONTROL PLAN (SCP) IS TO REMAIN ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE SCP SHALL BE MODIFIED WHENEVER THERE IS SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE OF ANY BMP. CLEANING AND DOUBLING ACTIVITIES SHOULD TAKE INTO CONSIDERATION MAINTAINING REMOVAL OF TREES AND DISTURBANCE AND COMPACTION OF NATIVE SOILS. ANY AREAS THAT REQUIRE PRESERVATION OF CRITICAL OR SENSITIVE AREAS AND/OR REQUIRE BUFFERS SHALL BE DELINEATED ON BOTH THE PLAN AND THE SITE. ALL BMPs SHALL BE INSPECTED, MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED USE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SEDIMENTATION AND EROSION IS BEING CONTROLLED ON-SITE, AND IS NOT IMPACTING ADJACENT PROPERTIES. BMPs OTHER THAN STATED IN THIS PLAN MAY NEED TO BE IMPLEMENTED. SPILLS OR DISCHARGE OF POLLUTANTS ARE TO BE REPORTED WITHIN 24-HOURS TO THE APPROPRIATE AGENCIES.

HAZARDOUS MATERIALS AND DISPOSAL

ALL POLLUTANTS, INCLUDING WASTE MATERIALS, SHOULD BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATER. WOOD DEBRIS MAY BE CHIPPED AND SPREAD ON-SITE AS APPROVED BY THE LANDOWNER. COVER, CONTAINMENT AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS AND NON-HEAVY WASTES PRESENT ON THE SITE.

MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GRASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO THE SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DIRT PANS, CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL ACCIDENT. PLACE PLASTIC BENEATH THE EQUIPMENT WHEN EMERGENCY REPAIRS ARE TO BE PERFORMED ON-SITE. IF RAINING, PLACE PLASTIC OVER THE VEHICLE.

GENERAL NOTES REGARDING RECLAMATION

THE GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE SITE NO MORE THAN TEN DAYS AND NO LESS THAN THREE DAYS IN ADVANCE OF EXCAVATION EXCLUDING SATURDAY, SUNDAY, AND FEDERAL OR STATE HOLIDAYS. CONTACT WEST VIRGINIA AT 1-800-240-4848. TRAFFIC SHALL BE MAINTAINED ON ALL ADJACENT STREETS AND DRIVES AT ALL TIMES, IN ACCORDANCE WITH WV DOT'S REQUIREMENTS. DISTURBED AREAS CREATED DUE TO WELL PLUG REMOVAL, SHALL BE RECLAIMED, MULCHED AND SEEDING TO REDUCE EROSION AND SEDIMENTATION. GPS NUMBERS AND IDENTIFICATION NUMBERS SHALL BE DISPLAYED AT THE WELL, IN ACCORDANCE WITH STATE REQUIREMENTS. LANDOWNERS SHALL BE GIVEN ADEQUATE NOTICE THAT CERTAIN SPECIFIED ACTIVITIES WILL BE OCCURRING ON THEIR PROPERTY.

PERMANENT STABILIZATION

SPECIES: KENTUCKY BLUEGRASS / KESTOP / BROODSTOP TRETON
 5 PURE LIME SEED
 APPLICATION RATE: 20 LBS/ACRE, 5 LBS/ACRE, AND 10 LBS/ACRE, RESPECTIVELY
 FERTILIZER TYPE: COMMERCIAL FERTILIZER 10-20-20
 FERTILIZER APPL. RATE: COMMERCIAL - 1000 LBS/ACR
 LIME RATE: 3 TONS/ACRE
 MULCH TYPE: HAY & STRAW
 MULCHING RATE: 3 TONS/ACRE
 ANCHOR MATERIAL: RECYCLED CELLULOSE FIBER/WOOD FIBER MATS
 ANCHORING METHOD: HYDRAULIC SEEDING EQUIPMENT
 MATERIAL APPLICATION: 310 LBS/1000 SQ. YD.
 SEEDING SEASON DATES: YEAR ROUND

TEMPORARY STABILIZATION

SPECIES: ANNUAL RYEGRASS
 5 PURE LIME SEED
 APPLICATION RATE: 40 LBS/ACRE
 FERTILIZER TYPE: COMMERCIAL FERTILIZER 10-10-10
 FERTILIZER APPL. RATE: COMMERCIAL - 1000 LBS/ACRE
 LIME RATE: 3 TONS/ACRE
 MULCH TYPE: HAY & STRAW
 MULCHING RATE: 3 TONS/ACRE

ESTIMATED QUANTITIES					
	UNITS	ESTIM. QUANTITY	BID QUANTITY	UNIT PRICE	TOTAL COST

EROSION & SEDIMENT CONTROL					
STONE CONSTRUCTION ENTRANCE	SF	600			
12" COMPOST FILTER SOCK	LF	200			
PERMANENT SEEDING	SF	8380			
TIMBER MAT BRIDGE	EA	4*			

*SEE PLAN DRAWING FOR TIMBER MAT DIMENSIONS

REVISIONS

NO.	DESCRIPTION	DATE	BY
1			

PREPARED FOR:




XTO ENERGY
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SEDIMENT CONTROL PLAN NARRATIVE

JACKSON S-8 WELL PLUG

Scale: 7.5'

Date: 8/18/2015

Sheet: 2 OF 3

Project: SARVIS DISTRICT, HARRISON COUNTY, WV

Drawn: [Signature]

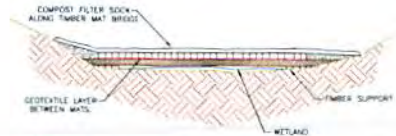
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AS NOTED

Project No: 0061-08

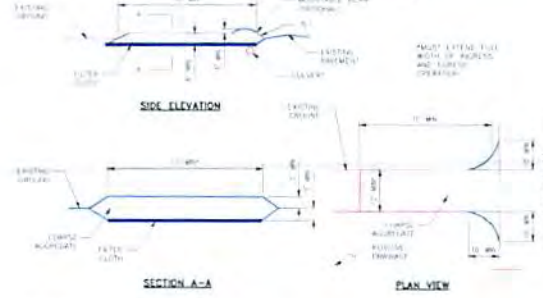
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BAILEY OR TIMBER MAT BRIDGE FOR WETLAND CROSSING



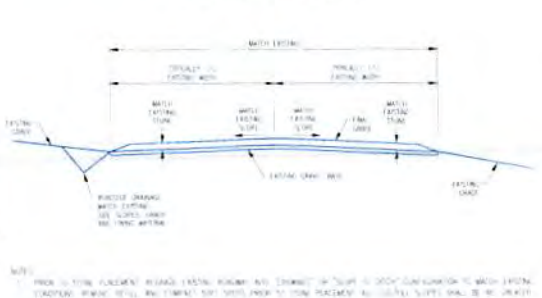
- NOTE**
1. REMOVE DIRT FROM BRIDGE DECK AND PLACE IN SPILL CONTAINMENT AREA.
 2. BRIDGES SHALL BE SECURELY ANCHORED AT ONE END USING STEEL CABLE OR CHAIN ANCHORING AT ONLY ONE END WILL PREVENT CHANNEL OBSTRUCTION IN THE EVENT THAT FLOODWATER FLOAT THE BRIDGE. ACCEPTABLE ANCHORS ARE LARGE THREADED LARGE HEADERS OR CORN STEEL ANCHORS. ANCHORS SHALL BE SUFFICIENT TO PREVENT THE BRIDGE FROM FLOATING DOWNSTREAM AND POSSIBLY CAUSING AN OBSTRUCTION TO THE FLOW.
 3. ALLOW FOR MINIMAL WETLAND IMPACT DURING CONSTRUCTION AND QUICK RESTORATION TO PRE-CONSTRUCTION CONDITIONS.
 4. USE WETLAND MATS FROM PALMYTON GROUP, WATCO, INC. OR APPROVED EQUIVALENT.

STABILIZED CONSTRUCTION ENTRANCE



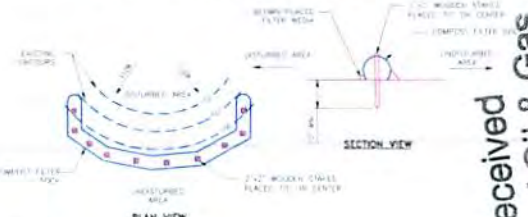
- INSTALLATION**
1. USE 2" x 4" NEW LUMBER FOR LOW VOLUME ENTRANCES (MINIMUM 10' x 10' AREA) FOR HEAVY USE OR MATERIAL DELIVERY ENTRANCES (LENGTH IS AT MINIMUM, BUT NOT LESS THAN 20 FEET LENGTH ON A SINGLE WHEELING LOT) WHERE A SUFFICIENT MINIMUM LENGTH WOULD APPLY.
 2. THRESHOLD SHALL BE NOT LESS THAN 6" HIGH.
 3. THE MATS SHALL BE A MINIMUM OF 10 FEET, BUT NOT LESS THAN THE FULL WIDTH OF PAVED ROAD WHERE NEAREST TO LOWEST CURB.
 4. GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACING OF STONE.
 5. ALL SURFACE WITH FLOWING OR EXPOSED TOWARD CONSTRUCTION ENTRANCES SHALL BE PAVED ACROSS THE ENTRANCE IF A CURBMENT IS NECESSARY. A MANHOLE COVER WITH 1/2" CURBS SHALL BE USED.
 6. A NECESSARY STONE MATS WASHING CURBS SHALL BE PLACED WITH A COMPOST FILTER SOCK / SEDIMENT BARRIER (CLEARED ON OTHER SIDE OF THE STABILIZED CONSTRUCTION ENTRANCE).
- MAINTENANCE**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT BACKLOG OR FLOWING OF SEDIMENT INTO PAVED ROADWAYS.
 2. WEIGHTS SHALL BE REMOVED FROM THE ENTRANCE WITH REGULARITY TO PREVENT DAMAGE AND MINOR WEIGHT CLEARANCE OF ANY MATS, USED TO TRAVEL OVER MATS. DROPPED WEIGHTS OR TRUCKS (SAVES FUEL) SHOULD BE REMOVED IMMEDIATELY.
 3. WHEELS ON ALL VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PAVED ROADWAYS. IF MATS ARE REQUIRED, IT SHALL BE DONE IN AN AREA SANITIZED WITH STONE AND MATS CHANGING AND WASHING TANKING SYSTEM. IF NO STREET CLEANING PRECAUTIONS MUST BE TAKEN TO PREVENT MUDS MATS FROM RUNNING AND MATS WASHING ON TYPICAL STREETS. WASHING AND MATS WASHING SHALL BE PROVIDED EVERY 1000 GALLONS AND MATS WASHING SHALL BE AT LEAST 10' FROM THE ENTRANCE.

GRAVEL ROAD RESTORATION



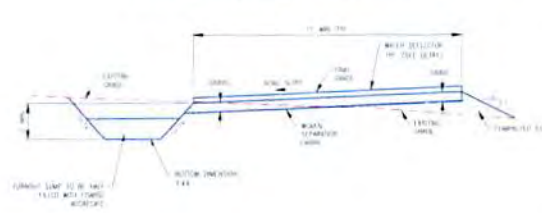
- NOTE**
1. PRIOR TO FINAL PLACEMENT, REGRADE EXISTING ROADWAY AND CHANNELS TO "SOFT" TO GROUND CONFORMATION TO WHICH EXISTING STANDARD FINISH SETTING AND EXISTING SURF SHALL BE PLACED TO FORM PLACEMENT TO "SOFT" SURF SHALL BE NO LOWER THAN 2" (2")
 2. PLACE SAND SURF OVER AT PRE-CONSTRUCTION CONDITIONS OF ALL AREAS OPEN WITH THE URGENCY OF THE ROAD.

COMPOST FILTER SOCK (SEDIMENT BARRIER)



- INSTALLATION**
1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL. SINCE BOTH ENDS OF THE SOCK SHALL BE ELEVATED BY 10" TO 12" TO 20" AT 45 DEGREES TO THE MAIN SOCK A CURBMENT.
 2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- MAINTENANCE**
1. ACCUMULATED SEDIMENT SHALL BE REMOVED WITH 2" PLACES 3" OR MORE CURBS NEAR BY THE SOCK AND DISPOSED BY SPREADING ON SPREAD AREA TO THE SIDE OR IN A SPILL CONTAINMENT AREA.
 2. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH WINDY EVENT (WINDKICK) WEEKLY SHALL BE INSPECTED. ALLOWING 10" MANUFACTURER'S SPECIFICATIONS OR DEFECTS WITHIN 24 HOURS OF INSPECTION.
 3. RECYCLABLE FILTER SOCKS SHALL BE REPLACED AFTER 4 MONTHS. PHOTOGRAPHICALLY DOCUMENT WITH 100% POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 4. UPON ESTABLISHMENT OF THE AREA THROUGHOUT THE SOCK, STAKE SHALL BE PLACED TO THE SOCK AND BE SET IN PLACE AND REEVALUATED AS REQUIRED. IN THE LATTER CASE THE MATS SHALL BE SET OVER AND THE SOCK SHALL BE A NEW SUPPLYMENT.

ACCESS ROAD/LOW VOLUME DRIVEWAY



- INSTALLATION**
1. ROADWAY SURFACE MAY BE SLOPED TO EITHER SIDE AS TOPOGRAPHY AND CONDITION WARRANT.
 2. BRIDGE WATER DIVERTOR AT PERIPHERAL ON THE PAVED SIDE SHOULD BE PLACED TO PREVENT FLOW.
 3. CONDUIT TO PUMP TO HAVE A MINIMUM DEPTH OF 18" WITH 1" FOOT DEPTH.
 4. ROAD CURBS SHOULD BE 18" HIGH ON VERTICAL.
- MAINTENANCE**
1. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES TO THE HEIGHT OF THE CURB.
 2. INSPECT AT A MINIMUM ONCE EVERY THREE WEEKS AND AFTER 24 HOURS AFTER ANY WORK (EVEN) EXCEEDS THREE (3) HOURS OF WORK PER 24 HOUR PERIOD.

MATERIAL TYPE	2 IN. HOLES	1 1/2 IN. HOLES
MATERIAL CHARACTERISTICS	PHOTODEGRADABLE	PHOTODEGRADABLE
SOCK DIMENSIONS	18"	24"
MESH OPENING	5/8"	5/8"
STACK STRENGTH	25 LB	25 LB
MINIMUM STRENGTH TO DISRUPT STRENGTH (DRAIN + 15%)	15 LB AT 1000 HR	15 LB AT 1000 HR
MINIMUM FUNCTIONAL LIFETIME	4 MONTHS	4 MONTHS

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	80% VOLUME (DRY WEIGHT BASIS)
ORGANIC MATTER	FIBROUS AND FULVICATED
PH	5.5-6.5
NITROGEN CONTENT	1.0% TO 2.0%
PHOSPHORUS	0.05% TO 0.10%
STABLE SALINITY CONCENTRATION	5.0% BY MAXIMUM

Received
Office of Oil & Gas

JUL 20 2015

REVISIONS

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1			

PREPARED FOR:

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810 HOUSTON STREET
FORT WORTH, TX 76102

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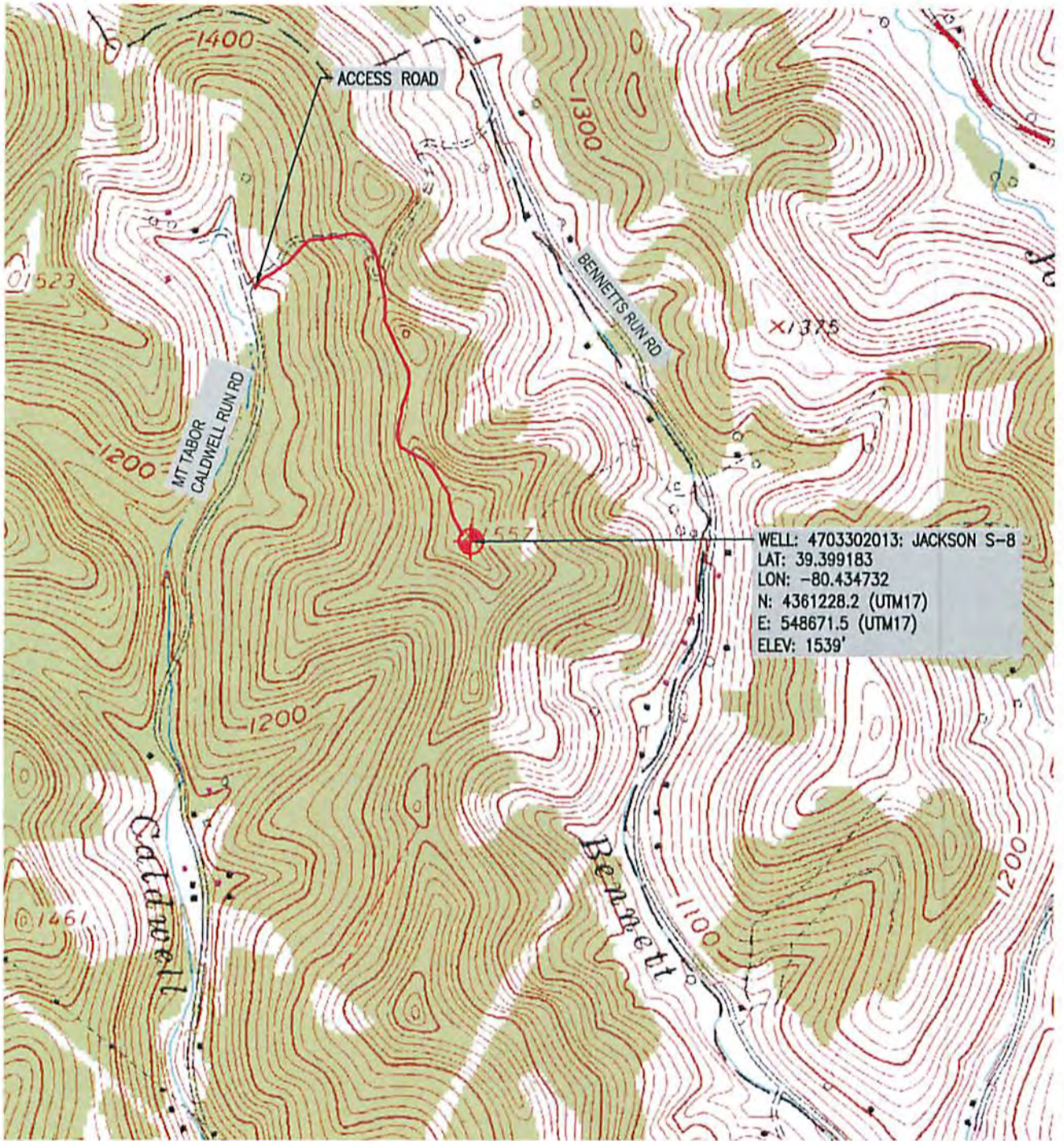
SEDIMENT CONTROL PLAN
DETAILS

JACKSON S-8 WELL PLUG

DATE: 8/18/2015
BY: [Signature]
AS NOTED: 3 OF 3

PROJECT: SARDIS DISTRICT, HARRISON COUNTY, WI
DRAWING NO: DC81-08

S.D.W.
7/15/2015



MAP REFERENCE: U.S.G.S. WALLACE, WV



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LOCATION MAP

JACKSON S-8 WELL PLUG

DRAWN BY: MRC	SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA
DATE: 7/6/2015	SHEET: 1 OF 1
SCALE: AS NOTED	FILE NO: OG61-08

Received 08/07/2015
Office of Oil & Gas
JUL 20 2015

3302013P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-02013 WELL NO.: Jackson S-8
FARM NAME: Rodgers, Edward
RESPONSIBLE PARTY NAME: XTO Energy, Inc.
COUNTY: Harrison DISTRICT: Sardis
QUADRANGLE: Wallace
SURFACE OWNER: Elizabeth Jackson Groninger, Hunter Jackson, Jr., & Edward Rodgers
ROYALTY OWNER: See attached list
UTM GPS NORTHING: 4361228.2
UTM GPS EASTING: 548671.5 GPS ELEVATION: 469 meters (1538')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS X : Post Processed Differential X
Real-Time Differential ____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] Project Manager July 6, 2015
Signature Title Date

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Office of Oil & Gas
08/07/2015
JUL 20 2015