



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

June 25, 2015

WELL WORK PERMIT

Fracture

This permit, API Well Number: 47-9902270, issued to ADKINS, TEDDY, 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: MUSICK 4
Farm Name: STEWART, BILLY G.
API Well Number: 47-9902270
Permit Type: Fracture
Date Issued: 06/12/2015

Promoting a healthy environment.

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. 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 §22-6-20, 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.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. 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.

JUN 09 2015

WW - 2B
(Rev. 8/10)

WV Department of Environmental Protection
 STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

99-2270F

1) Well Operator: TEDDY ADKINS

494457566	WAYNE	BUTLER	PRICHARD
-----------	-------	--------	----------

 _____ Operator ID County District Quadrangle

2) Operator's Well Number: MUSICK #4 3) Elevation: 964

4) Well Type: (a) Oil or Gas _____
 (b) If Gas: Production _____ / Underground Storage _____
 Deep _____ / Shallow _____

5) Proposed Target Formation(s): BEREA SANDS Proposed Target Depth: 2222

6) Proposed Total Depth: 2500 Feet Formation at Proposed Total Depth: Slate & Shells

7) Approximate fresh water strata depths: 260

8) Approximate salt water depths: 1260

9) Approximate coal seam depths: none

10) Approximate void depths, (coal, Karst, other): none

11) Does land contain coal seams tributary to active mine? no

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Refrac - Fraced 11/16/12 with no results. Believe "frac" went out bottom holes. Solid Plug now set at 2212

Foam frac using 500 gal. acid; 25,000 lbs. 20/40 sand; 29,900 SCF Nitrogen; 233 bbl. water

Perforations 2207 - 2211

13) **CASING AND TUBING PROGRAM**

	TYPE			SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)		
Conductor								
Fresh Water	10-3/4"	J	32	362'	362'	234 cu. ft.		
Coal								
Intermediate	7"	N-80	23	1460'	1460'	225 cu. ft.		
Production	4-1/2"	J	11.6	2383'	2383'	105 cu. ft.		
Tubing								
Liners								



Packers: Kind: _____
 Sizes: _____
 Depths Set _____

WR-35
Rev (9-11)

COPY

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 7/2/2013

API #: 47-099-02270 F

Farm name: Billy Stewart Operator Well No.: Musick #4

LOCATION: Elevation: 982' Quadrangle: Prichard 7.5

District: Butler County: Wayne
Latitude: 5400 Feet South of 33 Deg. 10 Min. 00 Sec.
Longitude: 3150 Feet West of 82 Deg. 30 Min. 00 Sec.

Company: Teddy Adkins

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
14485 S Calhoun Hwy Arnoldsburg, WV 25234	10-3/4"	362'	362'	234 sks
Agent: <u>Teddy Adkins</u>	7"	1460'	1460'	225 sks
Inspector: <u>Ralph Triplett</u>	4-1/2"	2383'	2383'	105 sks
Date Permit Issued: <u>9/27/12</u>				
Date Well Work Commenced: <u>10/14/2012</u>				
Date Well Work Completed: <u>10/19/12</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>2425'</u>				
Total Measured Depth (ft): <u>2425'</u>				
Fresh Water Depth (ft.): <u>260'</u>				
Salt Water Depth (ft.): <u>1260'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>NONE</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Berea Pay zone depth (ft) 2207 -2295

Gas: Initial open flow show MCF/d Oil: Initial open flow 2 Bbl/d

Final open flow show MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 18 Hours

Static rock Pressure 0 psig (surface pressure) after 48 Hours

NO RESULT FROM FRAC - WILL REFRAC

Second producing formation _____ Pay zone depth (ft) _____

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 pressure) after _____ Hours

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

Signature

8/6/13
Date

99-2270F

Musick #4

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray/Neutron/Density/Induction/Temperature/PE

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated intervals, Fracturing, or-Stimulating:

Perforations: 2207 - 2211 8 holes; 2218 1 hole; 2222 1 hole; 2291 1 hole; 2295 1 hole

FOAM FRAC USING 500 GAL ACID; 25,000 LBS. 20/40 SAND; 29,900 SCF NITROGEN; 233 BBL. WATER

Formations Encountered:	Top Depth	Bottom Depth	
Surface	0	12	
Sand	12	47	
Slate	47	74	
Sand	74	114	
Slate	114	147	
Sand	147	190	
Slate	190	240	
Sand	240	345	
Slate	345	422	
Sand	422	544	
Slate	544	560	
Sand	560	612	
Slate	612	682	
Sand	682	707	
Slate	707	824	Run 362' 10-3/4" Cement back to surface
Sand	824	945	
Slate	945	955	
Salt Sand	955	1260	
Slate	1260	1277	Water 1270' Hole Full
Sand	1277	1440	Run 1460' 7" - Cement back to surface
Little Lime	1440	1470	
Pencil Cave	1470	1473	
Big Lime	1473	1504	
Big Injun Sand	1504	1537	
Stray Sand	1537	1695	
Shell	1695	1711	
Shell (Hard)	1711	1743	
Slate	1743	1822	
Slate & Shells	1822	2106	
Coffee Shale	2106	2127	
Berea Sand	2127	2133	Show Oil Run 4-1/2" 2383' cement back to 1250'
Slate and Shells	2133	2148	
Shell	2148	2162	
Sand & Shale	2162	2425	
TD		2425	

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COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Wayne

Operator Teddy Adkins

Operator's Well Number Musick #4

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date

Company Name
By
Its

Date

Signature

Date

NO COAL

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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
S. E. & Esther Musick	Owens-Illinois Glass Co	1/8	42/317
Owens-Illinois Glass Co.	Webster Myers	1/8	Not Recorded
Webster Myers	Teddy Adkins, Franklin Adkins, et. al	1/8	10/158
Franklin Adkins, et al	Teddy Adkins	1/8	

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

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

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

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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: _____
By: Its: _____
Teddy Adkins
Owner _____

1). Date: May 1, 2015
2.) Operator's Well Number MUSICK #4
State County Permit
3.) API Well No.: 47- 099 - 02279 F
2279F

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

4) Surface Owner(s) to be served: Winer
(a) Name Billy Stewart Address Rt. 1, Box 545
Ft. Gav. WV 25514
(b) Name _____ Address _____
(c) Name _____ Address _____
5) (a) Coal Operator
Name None Address _____
(b) Coal Owner(s) with Declaration
Name None Address _____
(c) Coal Lessee with Declaration
Name _____ Address _____
6) Inspector Jeremy James
Address P. O. Box 147
Ona, WV 25545
Telephone 304-951-2596

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies to the well owner and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties by:

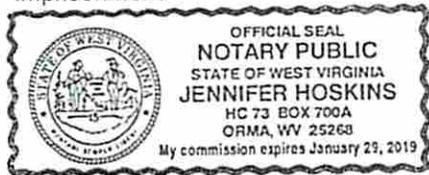
- x Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator: Teddy Adkins
By: Teddy Adkins
Its: Owner
Address: 14485 S. Calhoun Hwy
Arnoldsburg, WV 25234
Telephone: 304-927-5070 or 304-377-1114 (cell)
Email: eileenhinesadkins@yahoo.com

Subscribed and sworn before me this 3rd day of June, 2015

Jennifer Hoskins Notary Public
My Commission Expires January 29, 2019

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

Affidavit of Personal Service

99-2270F

State Of WEST VIRGINIA

County Of ROANE

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)
- (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B)
- (3) Plat showing the well location on Form WW-6, and
- (4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. MJSICK #4 located in BUTLER District, WAYNE County, West Virginia, upon the person or organization named--

BILLY STEWART

--by delivering the same in WAYNE County, State of WEST VIRGINIA on the 4TH day of JUNE, 2015 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

Handing it to him / her / or, because he / she / refused to take it when offered it, by leaving it in his / her / presence.

Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

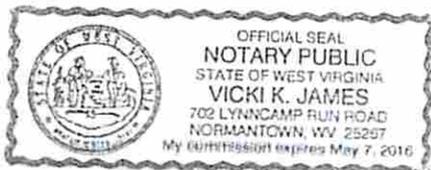
Handing it to the corporation's employee / officer / director / attorney in fact / named _____

Teddy Adkins
(Signature of person executing service)

Taken, subscribed and sworn before me this 8th day of June 2015.
My commission expires May 7, 2016

Vicki K. James
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



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WV Department of
Environmental Protection

99-2279F

JUN 09 2015

WW-2A Surface Waiver

SURFACE OWNER WAIVER

WV Department of Environmental Protection

County Wayne

Operator

Teddy Adkins

Operator well number

Musick #4

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) 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 a 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.

Comments must be in writing. Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Bill Stewart
Signature

Date 6-4-15

Company Name _____
By _____
Its _____

Bill Stewart

Print Name

Date

Signature

Date

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Office of Oil and Gas

WW-9
(2/15)

JUN 09 2015

API Number 47 - 099 - 2270F
Operator's Well No. Music #4

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
WV Department of Environmental Protection
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Teddy Adkins OP Code 49457566

Watershed (HUC 10) Greenbrier Creek Quadrangle Prichard

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: Freshwater

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 6 Mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

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

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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

-Landfill or offsite name/permit number? _____

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 immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Teddy Adkins

Company Official (Typed Name) Teddy Adkins

Company Official Title Owner

Subscribed and sworn before me this 3rd day of June, 2015

Jennifer Hoskins Notary Public

My commission expires January 29, 2019



99-2270F

Operator's Well No. Musick #4

Teddy Adkins

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 5.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

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Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Red Top Clover	15	Red Top Clover	15
Ladino Clover	5	Ladino Clover	5
Ky 31	40	Ky 31	40

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.

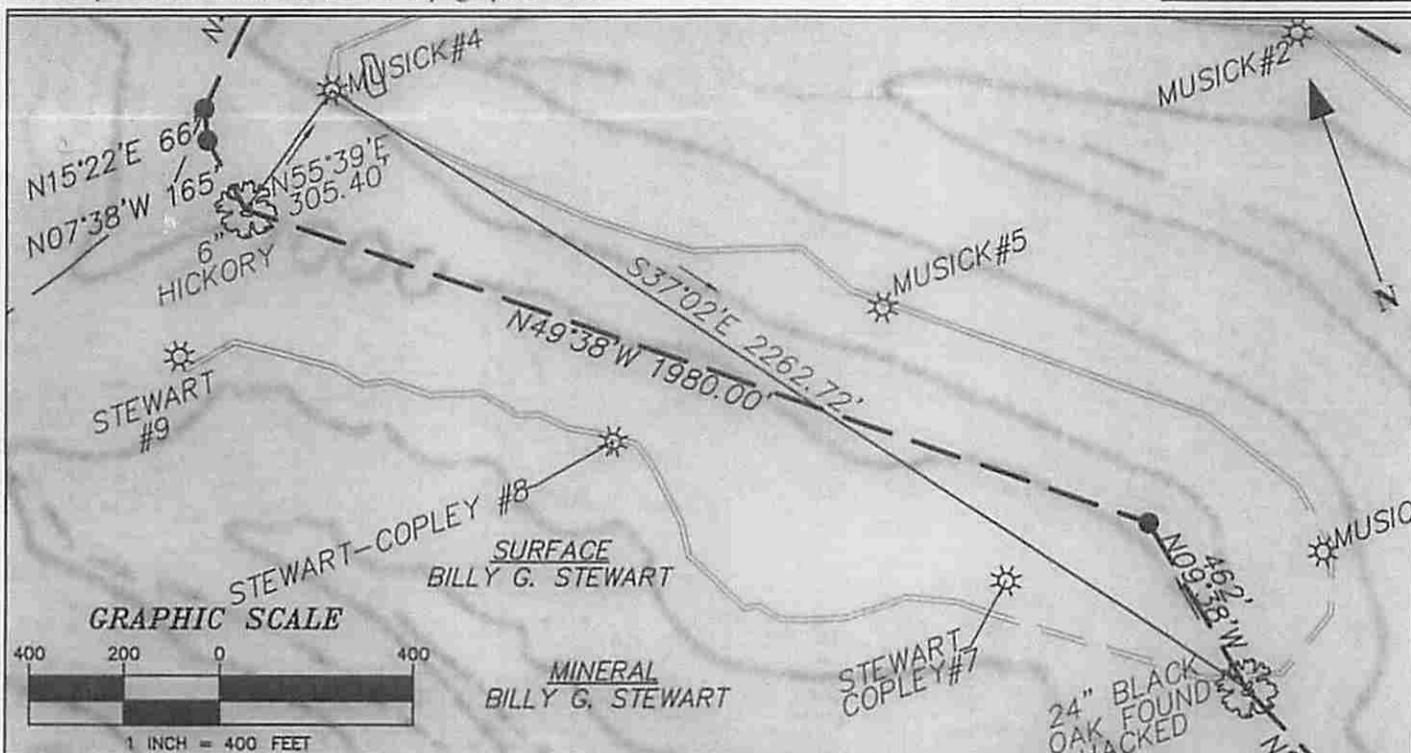
Attached

Plan Approved by: 

Comments:

Title: inspector OOG Date: 6-3-15

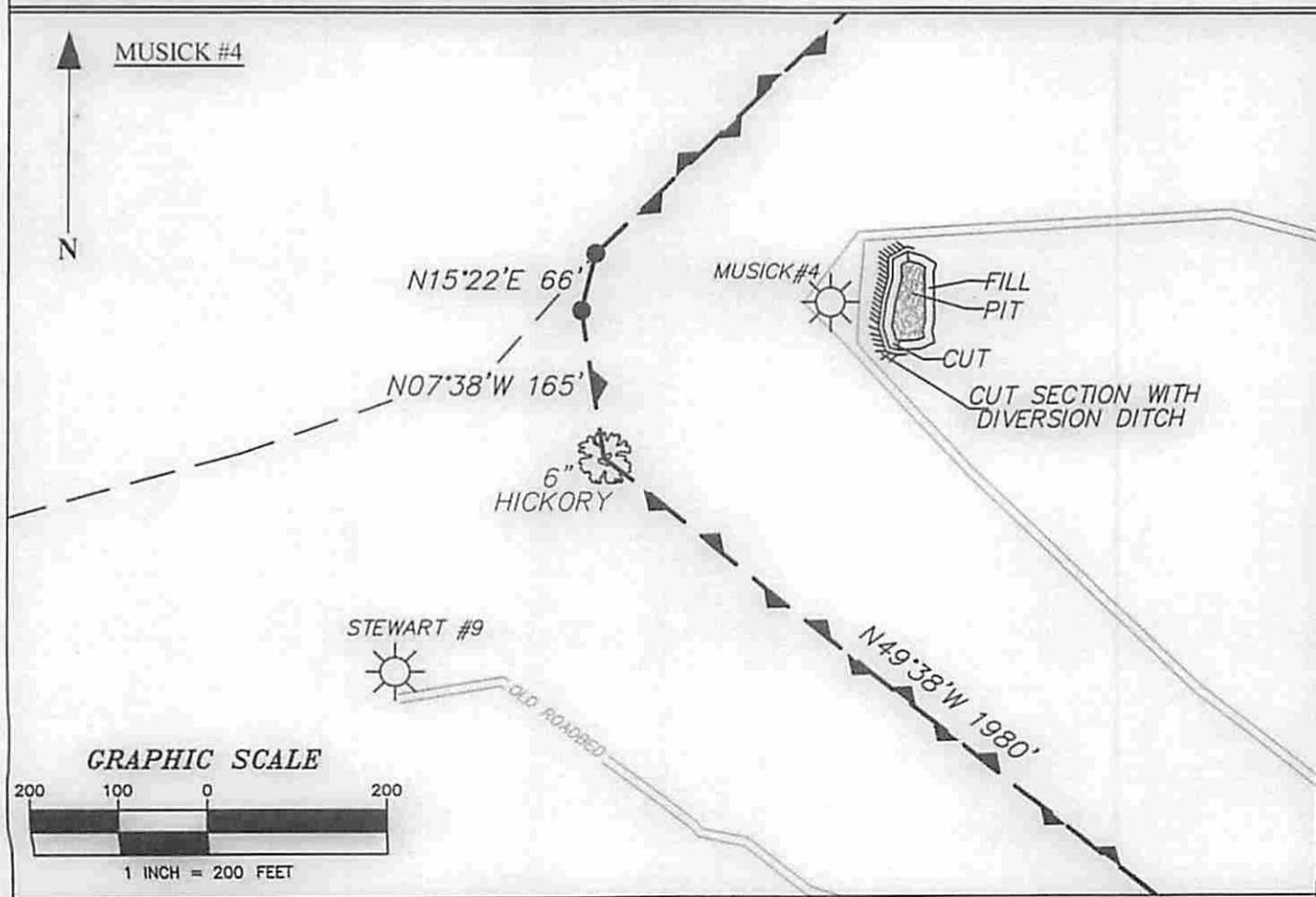
Field Reviewed? Yes No



LEGEND

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe with size in inches	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Artificial Filter Strip	
North		Pit cut walls	
Buildings		Pit compacted fill walls	
Water Wells		Area for Land Application of Pit Waste	
Drill Site			

Drawing(s) of road, location, pit and proposed area for land application



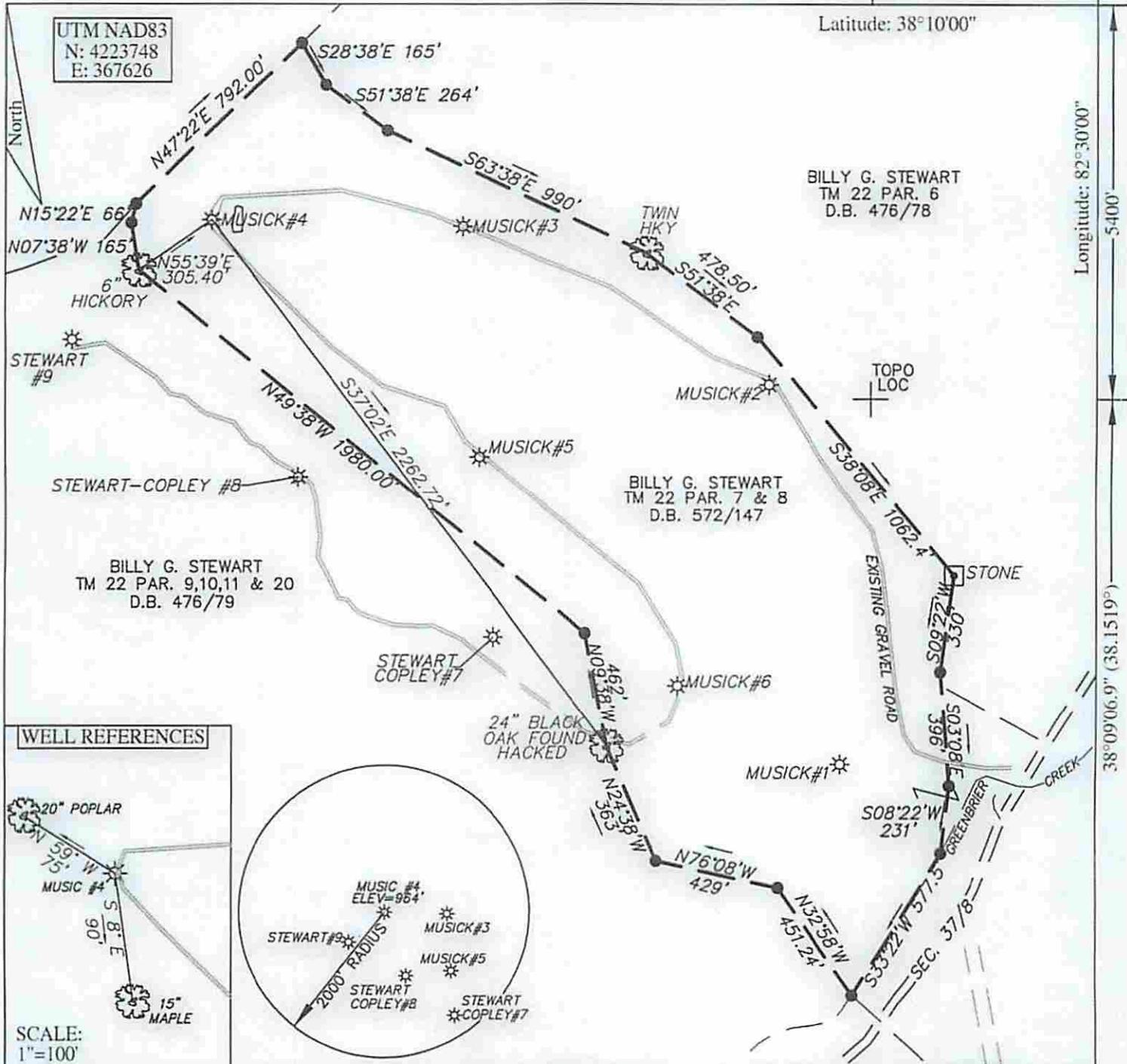
82°30'38.9" (82.5108°)

3150'

Latitude: 38°10'00"

Longitude: 82°30'00"

38°09'06.9" (38.1519°)



FILE # 15-025
 DRAWING # MUSICK #4
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION SUBMETER GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: Brian W. Lawrence
 BRIAN W. LAWRENCE

R.P.E.: _____ L.L.S.: 2056



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: APRIL 24TH 2015
 OPERATORS WELL #: MUSICK #4
 API WELL # 47 099 02270 F
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED GREENBRIER CREEK ELEVATION: 964

COUNTY/DISTRICT WAYNE / BUTLER QUADRANGLE: PRICHARD 7.5'

SURFACE OWNER BILLY G. STEWART ACREAGE 80

OIL & GAS ROYALTY OWNER: BILLY G. STEWART ACREAGE 80

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: BEREA ESTIMATED DEPTH: 2500'

WELL OPERATOR TEDDY ADKINS DESIGNATED AGENT TED ADKINS
 Address 14485 S. CALHOUN HIGHWAY Address 14485 S. CALHOUN HIGHWAY
 City ARNOLDSBURG State WV Zip Code 25234 City ARNOLDSBURG State WV Zip Code 25234

I

Operator: ADKINS, TEDDY
 API: 9902270
 WELL No: MUSICK 4
 Reviewed by: GCS Date: 6/10/15
 15 Day End of Comment: 06/24/15

CHECKLIST FOR FILING A PERMIT

Fracture

ck # 707
\$650⁰⁰

- WW-2B
- Inspector signature on WW-2B
- Completion / Well Records of Previous Work WR-35 ✓
- WW-2A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage
- WW-9 (Page 1 & 2) (Notarized)
- More than 5,000 bbls
- Inspector Signature on WW-9
- Reclamation plan
- Topographic Map of location of well
- Mylar Plat (Signed . Sealed) (Surface owner on plat matches WW-2A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$650.00 check (\$550.00 if no pit)
- Mine Data
- Addendum
- Professional Engineer/Company has COA

Drilled well with same leases.

adkins energy, inc.

OK
OK
OK