



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 13, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-8510051, issued to TERM ENERGY CORP., 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: FOX NO. 44
Farm Name: FOX , ROBERT & MARY ANN , E.
API Well Number: 47-8510051
Permit Type: Vertical Well
Date Issued: 06/13/2013

Promoting a healthy environment.

WW - 2B
(Rev. 8/10)

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

1) Well Operator: Term Energy Corporation 306756 Ritchie Grant Harrisville
Operator ID County District Quadrangle

2) Operator's Well Number: Fox # 44 3) Elevation: 944'

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

5) Proposed Target Formation(s): Riley Proposed Target Depth: 4500'

6) Proposed Total Depth: 4500' Feet Formation at Proposed Total Depth: Riley

7) Approximate fresh water strata depths: 150'

8) Approximate salt water depths: 1500'

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)
To drill and stimulate well

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	9 5/8"		36#	300'	300'	C.T.S.
Coal						
Intermediate	7"	J-55	17#	1225'	1225'	240 Cu. Ft
Production	4 1/2"	J-55	10.5#	4200'	4200'	400 Cu. Ft
Tubing						
Liners						

Received

Packers: Kind: _____
 Sizes: _____
 Depths Set _____

JUN 3 2013 *David Wilson*
 Office of Oil and Gas
 WV Dept. of Environmental Protection
 5-31-13

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie

Operator
Operator well number

TERM Energy Corporation
Fox # 44

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.

Robert E. Fox Date 5/29/13
Signature By
Its

Robert E. Fox

Print Name

Signature Date

Received

JUN 3 2013

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Operator well number

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Mary Ann S. Fox
Signature

Date 5/30/13

Company Name
By
Its

Received
Date

Mary Ann S. Fox
Print Name

JUN 3 2013

Signature
Office of Oil and Gas
Date

8510051

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County Ritchie

Operator
Operator well number

TERM Energy Corporation
Fox # 44

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature _____ Date _____

Print Name

Company Name TERM Energy Corporation
 By M.A.S. Fox 5/30/13
 Its Vice President Date
M.A.S. Fox 5/30/13
 Signature JUN 3 2013 Date

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-2A1
(Rev. 1/11)

Operator's Well Number Fox # 44

**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
Myrtle Layfield	Ross Riggs	1/8	76/473
Ross Riggs	H. B. Link	1/8	81/448
H. B. Link	L.F.R. Bellows (Partial Interest)	1/8	83/101
H. B. Link & L.F.R. Bellows	Byron D. Kuth	1/8	83/102 & 98/496 & 497
Byron D. Kuth	Robert B. Stallsworth, JR	1/8	98/589
Estate of Robert B. Stallsworth, JR etal	TERM Energy Corporation	1/8	207/773 & 775

**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

Received
Office of Oil & Gas

JUN 12 2013

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:

TERM Energy Corporation
 Leroy Baker
 Designated Agent



WW-2A1
(Rev. 1/11)

Operator's Well Number Fox # 44

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Well Operator:
By: Its:

TERM Energy Corporation

Leroy Baker

Designated Agent

Received

JUN 3 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-2B1
(5-12)

Well No. Fox # 44

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Reliance Laboratories, Inc.
Sampling Contractor TERM Energy Corporation

Well Operator TERM Energy Corporation
Address 713 East Main Street
Harrisville, WV 26362
Telephone 304-643-4500

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

Received

JUN 3 2013

Note: There appears to be no potable water sources within 1000'. There appears to be two potable water sources within 2000'.

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name _____ OP Code 306756

Watershed (HUC 10) Tributary of Chancellors Fork of Addis Run Quadrangle Harrisville

Elevation 944' County Ritchie District Grant

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

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Drill water & various formation cuttings

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? -6 mil- 20 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? No

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air

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

Additives to be used in drilling medium? None

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) None

-Landfill or offsite name/permit number? _____

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 [Signature]
Company Official (Typed Name) Leroy Baker
Company Official Title Designated Agent

Received

Subscribed and sworn before me this 31st day of May, 20 13 3 2013

[Signature]
My commission expires March 8, 2019



Form WW-9

Operator's Well No. Fox # 44

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 6

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 ton lbs/acre (500 lbs minimum)

Mulch Straw/Hay 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: David Wilson

Comments: Proceed with all cut area no less than 2 ft
per acre

Title: oil gas inspector Date: 5-31-13

Field Reviewed? Yes No

Received

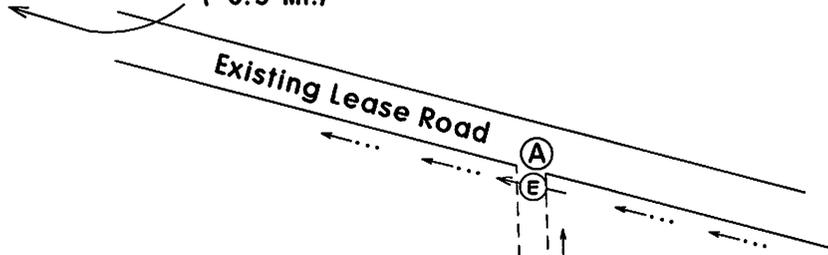
JUN 3 2013

Reclamation Plan For:

Fox No. 44



See Page 2 for road detail to WV S.R. 31 (~0.5 Mi.)



Existing Access Road

Refer to W.Va. Erosion & Sediment Control Field Manual (WVDEP - May 2012) Follow all BMP's for permitted work.

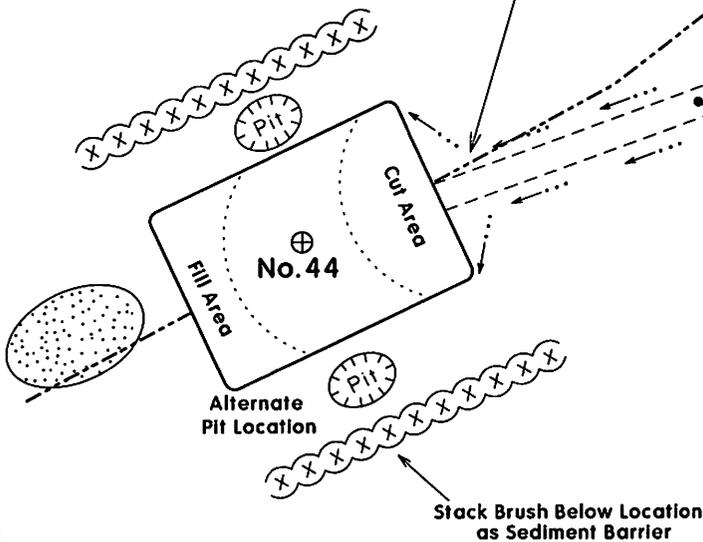


Begin Approximately 450' of New Road Construction

200' of <5% Grade

Pipeline to be Relocated

250' of 8-10% Grade



FOX LEASE
Robert & Mary Ann Fox
- Surface Owner

Notes:

- Requested permit is for drilling of new well.
- Access from WV S.R. 31 to the well shall follow existing lease roads. All drainage structures will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.
- Location of drill pit may be changed based on as-built considerations.
- All road banks will be pre-seeded and mulched.

Received

JUN 3 2013

8510051

Reclamation Plan For:

Fox No. 44

Showing Main Access Roads to W.Va. S.R. 31

Refer to W.Va. Erosion & Sediment Control Field Manual (WVDEP - May 2012) Follow all BMP's for permitted work.

NOTE
Roads shown are existing stoned access roads on the Fox Lease and will be used for ingress and egress to subject well. Roads and drainage structures will be maintained in present condition.

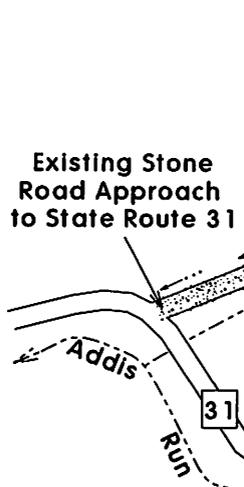
Term Energy Compressor Station

FOX LEASE

Robert & Mary Ann Fox - Surface Owner

FOX LEASE

Robert & Mary Ann Fox - Surface Owner



To Fox No. 18

-0.8 Mi. of 0-5% Grade

1,100' of 18% Ave. Grade

Stone Creek Crossings

700' of 10% Grade

300' of 20% Grade

350' of 5% Grade

250' of 5-8% Grade

To Fox No. 24

600' of 0-5% Grade

250' of 20% Grade

To Fox No. 44 (See Page 1 For Detail to Location)

To Fox No. 35

To McCullough No. 1

Patricia L. McCullough - Surface Owner

FRIEDLEY LEASE

Lonnie Richards - Surface Owner

Richards Lease

ⓔ - Existing Culvert



MLC

8510051

SUBJECT WELL
Fox No.44
47-085-



Received

JUN 3 2013

Section of
Harrisville
Office of Oil and Gas
7.5' Quadrangle
SCALE 1"=1000'

NOTES

- TIE LINES SHOWN ARE REFERENCED TO GRID NORTH (WV SPC NORTH ZONE, NAD 1927).
- SURFACE OWNER INFORMATION FROM THE RECORDS OF THE RITCHIE COUNTY ASSESSOR'S OFFICE.
- LAT./LONG. AND TIE LINES ESTABLISHED BY DGPS (SUB-METER MAPPING GRADE.)
- LEASE BOUNDARY DEPICTION COMPILED FROM DEED DESCRIPTIONS FOUND IN DB 272 PG 80 & DB 194, PG 81.
- OLD WELLS LOCATED FROM SOUTH PENN FARM MAPS OR DGPS DATA.

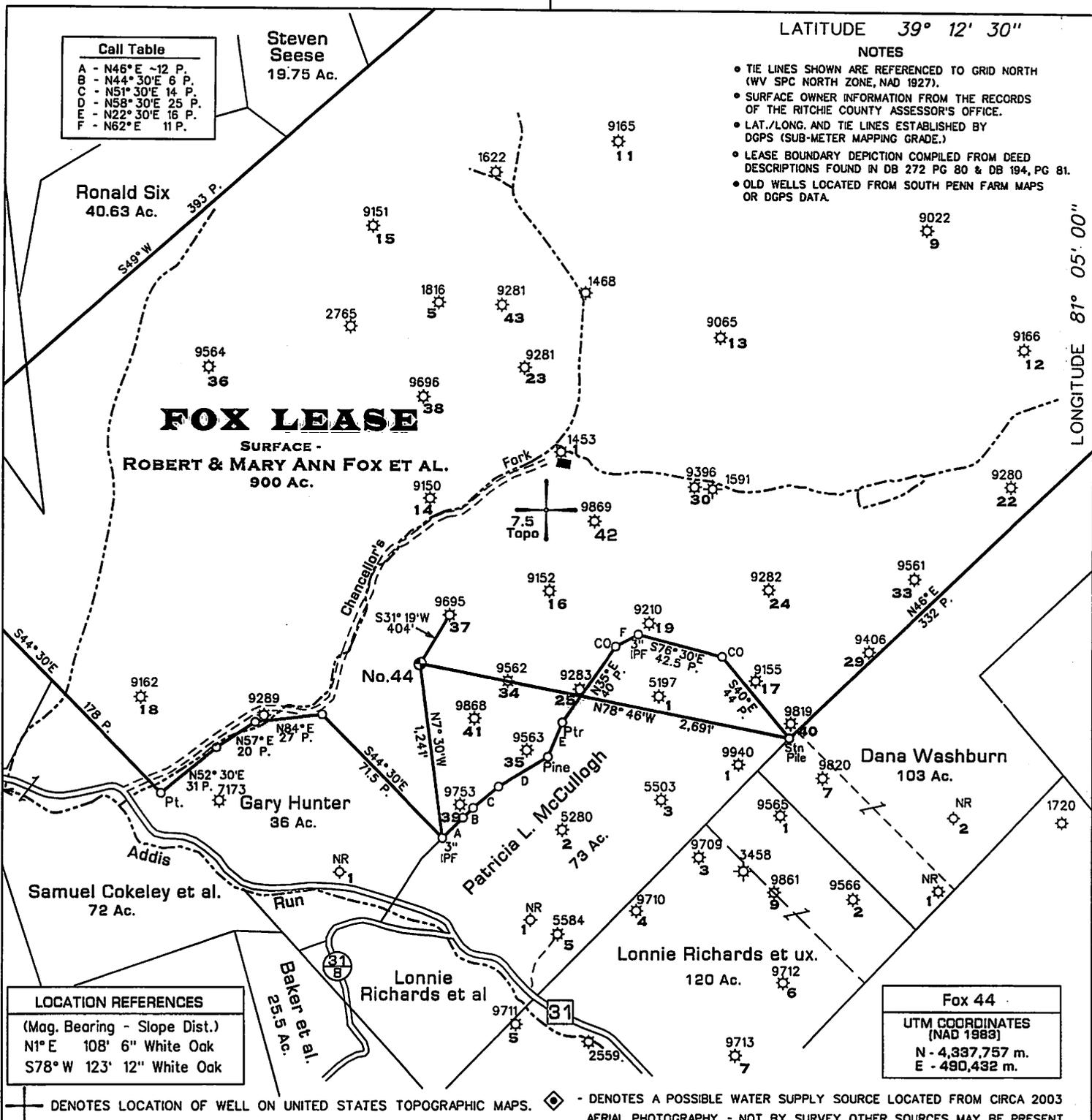
Call Table	
A	- N46° E -12 P.
B	- N44° 30' E 6 P.
C	- N51° 30' E 14 P.
D	- N58° 30' E 25 P.
E	- N22° 30' E 16 P.
F	- N62° E 11 P.

Steven Seese
19.75 Ac.

Ronald Six
40.63 Ac.

FOX LEASE

SURFACE -
ROBERT & MARY ANN FOX ET AL.
900 Ac.



LONGITUDE 81° 05' 00"

Surface Longitude - 39° 11' 20.12"

LOCATION REFERENCES	
(Mag. Bearing - Slope Dist.)	
N1° E 108' 6" White Oak	
S78° W 123' 12" White Oak	

Fox 44	
UTM COORDINATES (NAD 1983)	
N - 4,337,757 m.	
E - 490,432 m.	

⊕ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. ◆ DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

FILE NO. 115-70
 DRAWING NO. 44
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter
 PROVEN SOURCE OF ELEVATION DGPS Survey

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 MINES.

(SIGNED) *[Signature]*
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304



DATE May 20, 2013
 FARM Fox No.44
 API WELL NO. 47-085-10051

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW HORIZONTAL
 LOCATION: ELEVATION 944' WATERSHED Chancellor's Fork
 DISTRICT Grant COUNTY Ritchie
 QUADRANGLE Harrisville 7.5'
 SURFACE OWNER Robert & Mary Ann Fox et al. ACREAGE 900 Ac.
 OIL & GAS ROYALTY OWNER Robert & Mary Ann Fox et al. LEASE ACREAGE 900 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Riley ESTIMATED DEPTH 4,500'
 WELL OPERATOR Term Energy Corporation DESIGNATED AGENT Leroy Baker
 ADDRESS 713 East Main Street ADDRESS 713 East Main Street
Harrisville, WV 26362 Harrisville, WV 26362

FURM IV-0

NOTES

- TIE LINES SHOWN ARE REFERENCED TO GRID NORTH (WV SPC NORTH ZONE, NAD 1927).
- SURFACE OWNER INFORMATION FROM THE RECORDS OF THE RITCHEY COUNTY ASSESSOR'S OFFICE.
- LAT./LONG. AND TIE LINES ESTABLISHED BY DGPS (SUB-METER MAPPING GRADE.)
- LEASE BOUNDARY DEPICTION COMPILED FROM DEED DESCRIPTIONS FOUND IN DB 272 PG 80 & DB 194, PG 81.
- OLD WELLS LOCATED FROM SOUTH PENN FARM MAPS OR DGPS DATA.

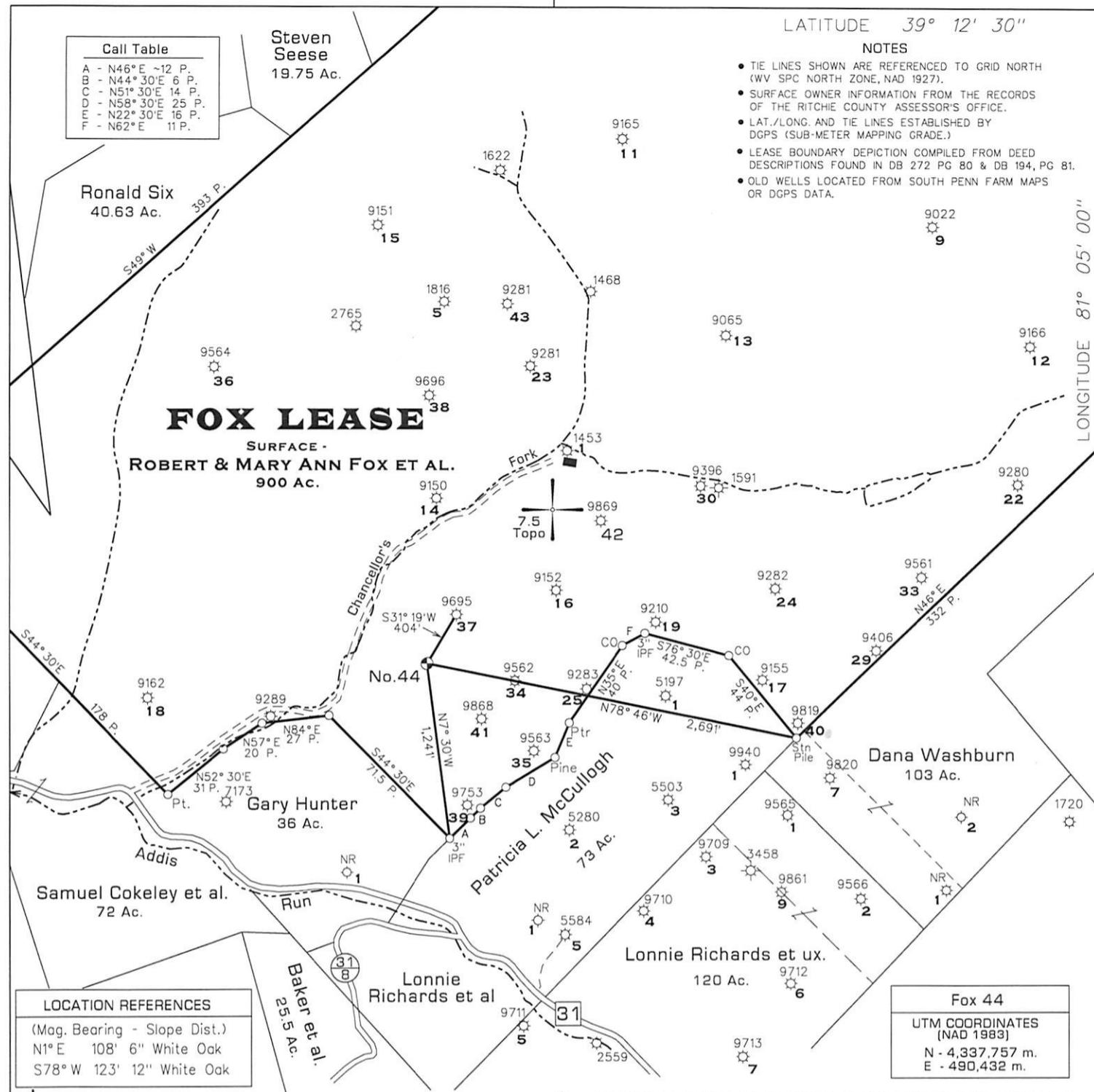
Call Table	
A	- N46° E ~12 P.
B	- N44° 30' E 6 P.
C	- N51° 30' E 14 P.
D	- N58° 30' E 25 P.
E	- N22° 30' E 16 P.
F	- N62° E 11 P.

Steven Seese
19.75 Ac.

Ronald Six
40.63 Ac.

FOX LEASE

SURFACE -
ROBERT & MARY ANN FOX ET AL.
900 Ac.



LOCATION REFERENCES	
(Mag. Bearing - Slope Dist.)	
N1° E 108' 6" White Oak	
S78° W 123' 12" White Oak	

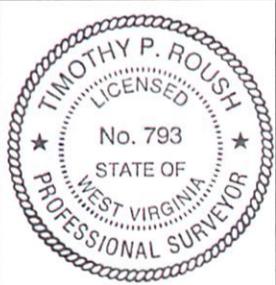
Fox 44	
UTM COORDINATES (NAD 1983)	
N	- 4,337,757 m.
E	- 490,432 m.

⊕ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. ◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

FILE NO. 115-70
 DRAWING NO. 44
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter
 PROVEN SOURCE OF ELEVATION DGPS Survey

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 MINES.

(SIGNED) *Timothy P. Roush*
 TIMOTHY P. ROUSH PS 793



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