



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, February 9, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

SHALE GAS PRODUCTION, LLC
929 CHARLESTON ROAD
SPENCER, WV 25276

Re: Permit approval for THOMAS W. KELLY #1
47-039-02732-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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- 0450.

A blue ink signature of James A. Martin.

James A. Martin
Chief

Operator's Well Number: THOMAS W. KELLY #1
Farm Name: KELLEY, KARL L.
U.S. WELL NUMBER: 47-039-02732-00-00
Vertical Plugging
Date Issued: 2/9/2021

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.

1) Date 23 DECEMBER, 2020
2) Operator's Well No. Thomas W. Kelley #1
3) API Well No. 47-39 - 2732
47-039-02732P

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 925 Watershed WOODWARD BRANCH
District UNION County KANAWHA Quadrangle POCOTALICO


6) Well Operator SHALE GAS PRODUCTION, LLC 7) Designated Agent J. SCOTT FRESHWATER
Address 929 CHARLESTON ROAD Address 929 CHARLESTON ROAD
SPENCER W.V 25276 SPENCER W.V. 25276

8) Oil and Gas Inspector to be notified Name TERRY URBAN
Address P.O.BOX 1207
CLENDENIN WV. 25045
9) Plugging Contractor Name CONSERV
Address 929 CHARLESTON ROAD
SPENCER WV. 25276

10) Work Order: The work order for the manner of plugging this well is as follows:
SEE ATTACHED

RECEIVED
Office of Oil and Gas
JAN 12 2021
WV Department of
Environmental Protection

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

Work order approved by inspector  Date 1-11-21

PLUGGING PROCEDURE

Prepare road and location: Install E&S controls

Move in rig up equipment

Trip out of hole production string (est 4264)

Trip in hole with cement string: set cement plug #1 4264-3550 (type1 cement) : trip out

Trip in hole tag plug set cement plug 3550-2550 (type1 cement) : trip out

Run Bond log on 7" csg : contact state inspector Determine where to cut casing or perforate

Shoot and attempt to pull 7" csg : trip out of hole

Trip in hole set cement 2550-1550 (type1 cement)

Trip in hole set cement 1550-550 : trip out of hole

Attempt to pull 9-5/8csg : notify state man

Trip in hole set cement 500-surf :trip out of hole

Top off well with cement: set monument : rig down and move out

Reclaim location and road

Jerry W. Bluh
1-11-21

RECEIVED
Office of Oil and Gas

JAN 12 REC'D

WV Department of
Environmental Protection



47-039-02732P
RECEIVED
3902732P
JUN 1 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Charleston, N. W.

Permit No. Kan- 2732

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

Company Ajax Pipe Line Company.
Address P.O. Box 6190 Charleston W. Va.
Farm Thomas Kelley Acres 51
Location (waters) Left Fork Kanawha Two Mile
Well No. 1 Elev 921
District Union County Kanawha
The surface of tract is owned in fee by Thomas Kelley
Address Rt. 1 Box 124-D Charleston, W. Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced February 16, 1976
Drilling Completed February 27, 1976
Initial open flow 0 cu. ft. _____ bbls.
Final production 35,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test 400# RP.
Well treatment details: Shot 600' 3,960# 80% Gell

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8 32#	255	255	Surface
7 20#	2550	2550	200 Cu. ft.
5 1/2			
4 1/2			
3			
2 1/2 60#		4264	
Liners Used			

Attach copy of cementing record.

Coal was encountered at 33' Feet 6" Inches
Fresh water 65' Feet Salt Water 1445' Feet
Producing Sand Brown Sand Depth 4200'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Top Soil			0	20		
Slate			20	50		
Red Rock			50	65		
Sand			65	70	Fresh Water	
Slate		x	70	100		
Red Rock			100	1218	Gas 1218'	
Salt Sand			1218	1568	Salt Water 1445'	
Slate			1568	1787		
Big Lime			1787	1950		
Big Injun			1950	1996	Gas	
Sand, Shale			1996	2435		
Berea			2435	2450		
Chell			2450	2570		
Sand, Shale			2570	3024		
Gorden			3024	3035	Gas	
Sand, Shale			3035	3664		
Brown Shale			3664	4234	Gas	
Black Shale			4234	4240		
Shale			4240	4264		

T.D. RECEIVED
Office of Oil and Gas
FEB 18 2014

RECEIVED
Office of Oil and Gas

JAN 12 REC'D

WV Department of
Environmental Protection

WV Department of
Environmental Protection

* Indicates Electric Log tops in the remarks section.

(over)

47-039-02732P

WW-4A
Revised 6-07

1) Date: 12/23/2020
2) Operator's Well Number
T.W. KELLEY#1
3) API Well No.: 47 - 47-39 - 2732

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

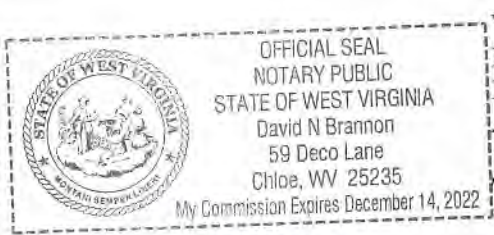
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>KARL K. KELLEY</u>	Name _____
Address <u>5928 WOODWARD DRIVE</u>	Address _____
<u>CHARLESTON WV. 25312</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	RECEIVED
_____	Office of Oil and Gas
6) Inspector <u>TERRY URBAN</u>	(c) Coal Lessee with Declaration <u>JAN 12 REC'D</u>
Address <u>P.O. BOX 1207</u>	Name _____
<u>CLENDENIN W.V. 25045</u>	Address _____
Telephone <u>304-549-5915</u>	WV Department of
	Environmental Protection

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: SHALE GAS PRODUCTION, LLC
 By: J. Scott Freshwater
 Its: MANAGING MEMBER
 Address: 929 CHARLESTON ROAD
SPENCER W.V. 25276
 Telephone: 304-927-5228

RECEIVED
Office of Oil and Gas
JAN 12 REC'D

Subscribed and sworn before me this 8th day of January 2021
David N. Brannon Notary Public
My Commission Expires December 14, 2022

Oil and Gas Privacy Notice

WV Department of
Environmental Protection

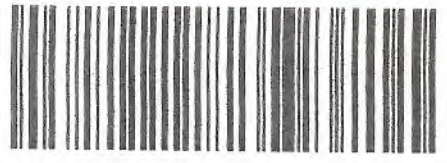
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 depprivacyoffier@wv.gov.

47-039-02732P

1/8/2021

CONTRACTOR SERVICES, INC.
929 CHARLESTON ROAD
SPENCER, WV 25276

CERTIFIED MAIL™



7006 0100 0004 7860 6133

Karl K. Kelley
5928 Woodward Drive
Charleston, WV 25312

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com
OFFICIAL USE

Postmark
Here

\$	Postage
	Certified Fee
	Return Receipt Fee (Endorsement Required)
	Restricted Delivery Fee (Endorsement Required)
	Total Postage & Fees

Sent To **Karl K. Kelley**
 Street, Apt. No., or PO Box No. **5928 Woodward Drive**
 City, State, ZIP+4 **Charleston, WV 25312**
 PS Form 3800, June 2002 See Reverse for Instructions

EE19 0982 4000 0010 0006

FIRST-CLASS



PITNEY BOWES
US POSTAGE
02 7H **\$ 007.05⁰**
0001312240 JAN 08 2021
MAILED FROM ZIP CODE 25276

RECEIVED
Office of Oil and Gas
JAN 12 REC'D
WV Department of
Environmental Protection

SURFACE OWNER WAIVER

Operator's Well
Number

T.W. KELLEY #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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 **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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..."

RECEIVED
Office of Oil and Gas

JAN 12 REC'D

WV Department of
Environmental Protection

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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____

		Date _____
		Signature _____
		Date _____

WW-4B

API No. 47-39-2732
Farm Name Thomas Kelley
Well No. T.W.KELLEY #1

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. 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.

Date: _____

NO KNOWN operator, owner, or lessee of
By: _____ *workable*
Its _____ *coalbed / seam*
on this tract.

[Handwritten Signature]
1-11-21

RECEIVED
Office of Oil and Gas

JAN 12 REC'D

WW-9
(5/16)

API Number 47 - 39 .2732
Operator's Well No. Thomas W. Kelley # 1

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SHALE GAS PRODUCTION, LLC OP Code _____

Watershed (HUC 10) WOODWARD BRANCH Quadrangle POCATALICO

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: _____

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

Proposed Disposal Method For Treated Pit Wastes: ANK WELL EFFLUENT MUST BE CONTAINED

- Land Application (if selected provide a completed form WW-9-GPP) _____
- Underground Injection (UIC Permit Number _____) perm
- 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. N/A

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

Additives to be used in drilling medium? N/A

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

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

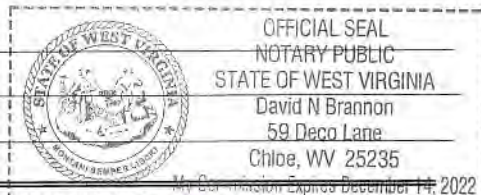
-Landfill or offsite name/permit number? _____

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 April 1, 2016, 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) J. Scott Freshwater
Company Official Title Managing Member



Subscribed and sworn before me this 8th day of January, 2021

David N Brannon Notary Public

My commission expires December 14, 2022

RECEIVED
Office of Oil and Gas
JAN 12 REC'D
WV Department of Environmental Protection

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 .25 (500LBS MIN) lbs/acre

Mulch HAY 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARD GRASS	25	LANINO CLOVER	5
RED TOP CLOVER	15	KY 31	40

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

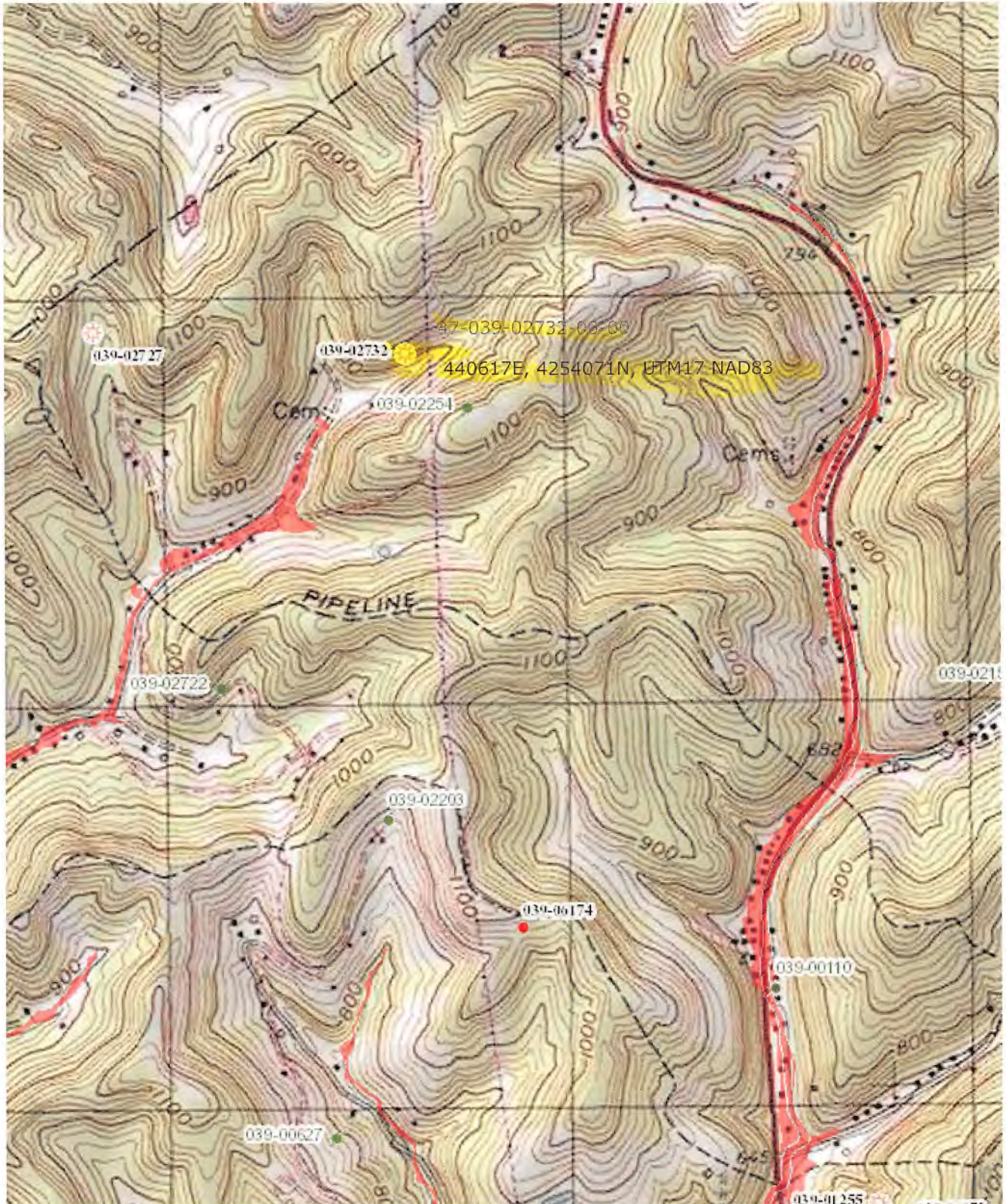
Comments: _____

Title: *Gregory D. White*
Field Reviewed? Yes No

Date: 1-11-21

RECEIVED
Office of Oil and Gas

JAN 12 REC'D



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-039-02732 WELL NO.: T.W.KELLY #1
 FARM NAME: THOMAS KELLY
 RESPONSIBLE PARTY NAME: SHALE GAS PRODUCTION, LLC
 COUNTY: KANAWHA DISTRICT: UNION
 QUADRANGLE: POCATALICO
 SURFACE OWNER: ~~THOMAS KELLY~~ Karl Kelley
 ROYALTY OWNER: SAME
 UTM GPS NORTHING: 0440617E
 UTM GPS EASTING: 4254071N GPS ELEVATION: 925

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:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____ : Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS ____ : Post Processed Differential ____

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.

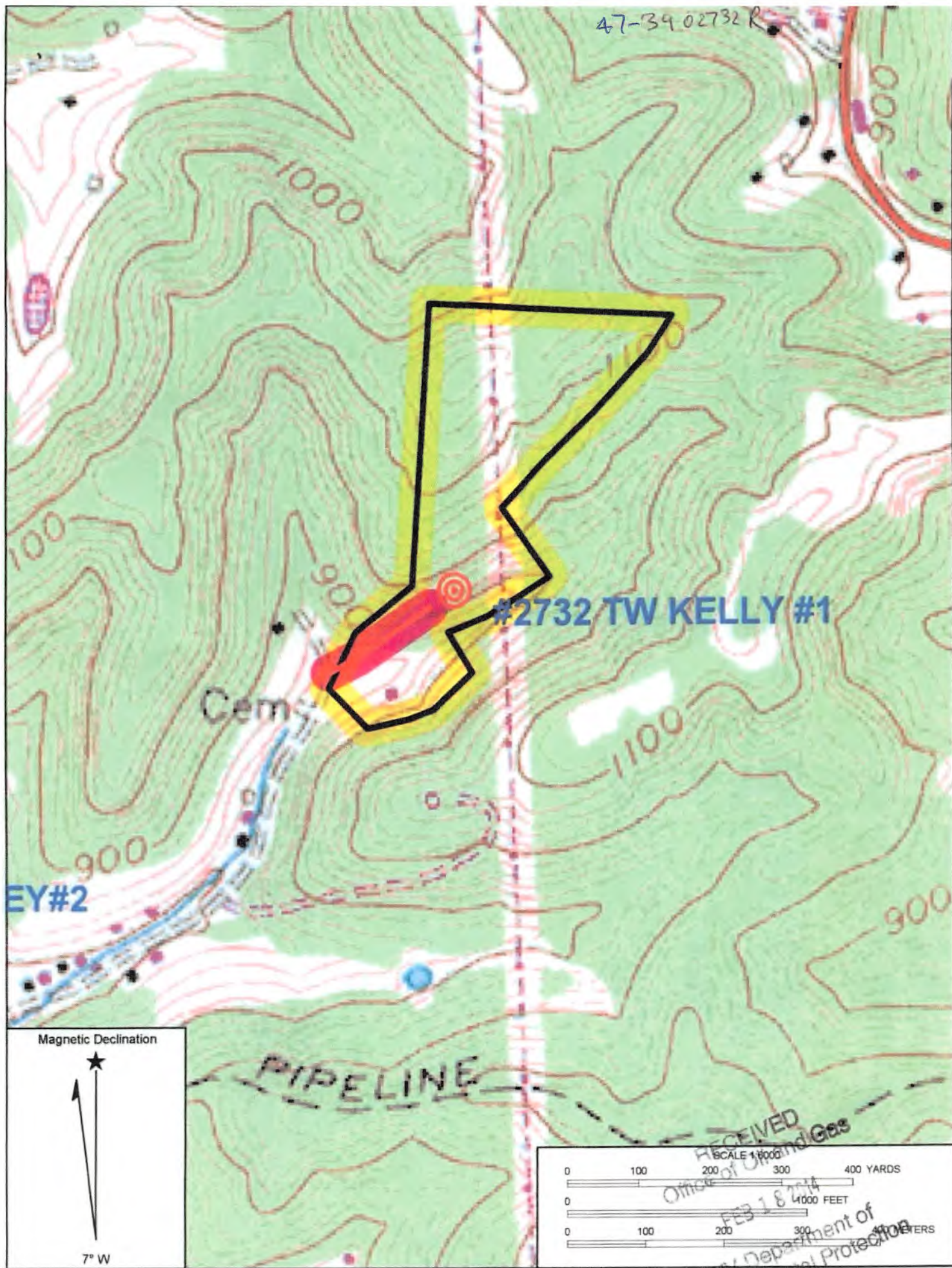
Dog Dylor Land Manager 1/7/21
 Signature Title Date

RECEIVED
Office of Oil and Gas

JAN 12 REC'D

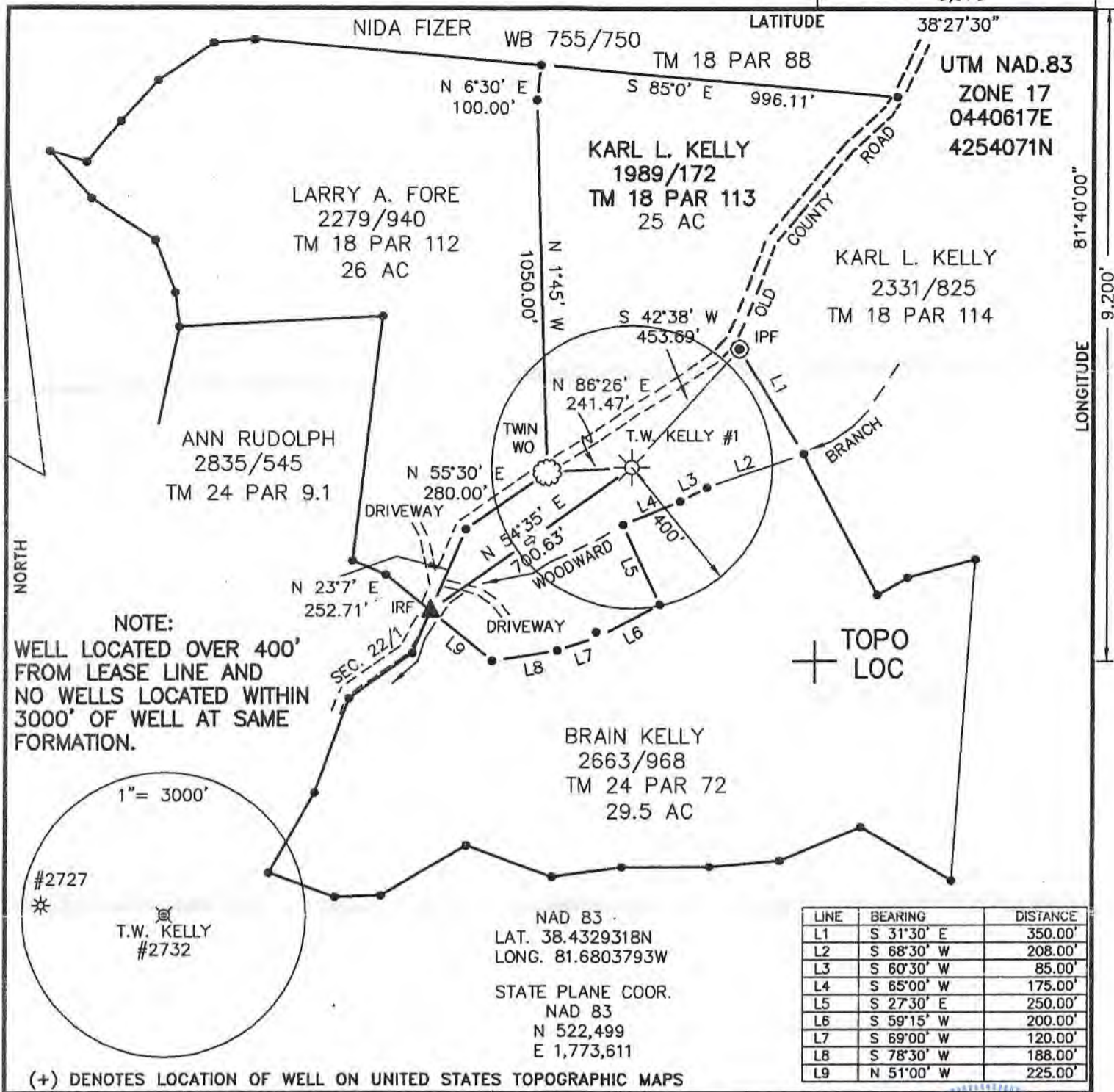
WV Department of
Environmental Protection

47-39.02732 R



RECEIVED
 Office of Oil and Gas
 FEB 18 2014
 WV Department of
 Environmental Protection

47-039-02732 P



FILE NO. _____
 DRAWING NO. 14-2
 SCALE 1"=400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION 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 ENERGY.
 (SIGNED) _____
 R.P.E. _____ P.S. 851



STATE OF WEST VIRGINIA
 Department of Environmental Protection
 OFFICE OF OIL AND GAS

DATE 4/15, 2014
 OPERATOR'S WELL NO. T.W. KELLY #1
 API WELL NO. 47-039-02732
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 925 WATER SHED WOODWARD BRANCH
 DISTRICT UNION COUNTY KANAWHA
 QUADRANGLE POCATALICO

SURFACE OWNER KARL L. KELLY ACREAGE 25
 OIL & GAS ROYALTY OWNER KARL L. KELLY, ETAL LEASE ACREAGE 80.5
 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): PULL TUBING
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR SHALE GAS PRODUCTION LLCC DESIGNATED AGENT J. SCOTT FRESHWATER
 ADDRESS 929 CHARLESTON ROAD ADDRESS 929 CHARLESTON ROAD
 SPENCER, WV 25276 SPENCER, WV 25276