



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, June 15, 2017
WELL WORK PERMIT
Vertical / Re-Work

ALLIED ENERGY, INC. (A)
35 RIDGEWOOD BLVD

BELPRE, OH 45714 000

Re: Permit approval for 1
47-085-05190-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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.



James A. Martin
Chief

Operator's Well Number: 1
Farm Name: MURPHY, NINA
U.S. WELL NUMBER: 47-085-05190-00-00
Vertical / Re-Work
Date Issued: 6/15/2017

Promoting a healthy environment.

06/16/2017

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

8505190W

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: ALLIED ENERGY, INC. 309558 085 - Ritchie 2 - Gran 544 - Petroleum
Operator ID County District Quadrangle

2) Operator's Well Number: Murphy #1 3) Elevation: 961'

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

Michael Giff
4/26/17

5) Proposed Target Formation(s): Devonian Shale Proposed Target Depth: 5700'

6) Proposed Total Depth: 5700' Feet Formation at Proposed Total Depth: Devonian Shale

7) Approximate fresh water strata depths: N/A

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: none

10) Approximate void depths, (coal, Karst, other): _____

11) Does land contain coal seams tributary to active mine? no coal mines in Ritchie Cou

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

CEMENT BOND Run Electric logs to determine the oil/gas ^{zones} ~~zones~~ to fracture and recomplete the well. Run ce log, then perforate the casing and conduct a slick water, two or three stage 5000 barrel frac appropriate formations.

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	11-3/4"	XJ	54#	250' 30'	same same	C.T.S. None
Fresh Water	N/A					
Coal	None					
Intermediate	8-5/8"	XJ	23#	1900'	1900'	C.T.S. 600
Production						
Tubing	4-1/2"	XJ	10.5#	5700'	5700'	C.T.S. 1012.5
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

RECEIVED
Office of Oil and Gas

MAY 8 2017

06/16/2017

MAY 8 2017

WV Department of
Environmental Protection



IV-35
(Rev 8-81)

RECEIVED
SEP 17 1983

State of West Virginia

Department of Mines
Oil and Gas Division

Date 08-24-83
Operator's
Well No. 1
Farm Murphy
API No. 47 - 085 - 5190

OIL & GAS DIVISION WELL OPERATOR'S REPORT
DEPT. OF MINES OF
DRILLING, FRACTURING AND/OR SIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 966' Watershed Cabin Run
District: Grant County Ritchie Quadrangle Petroleum

COMPANY Rendova Oil Company
ADDRESS P. O. Box 129, Reno, Ohio 45773
DESIGNATED AGENT Gerald W. Townsend
ADDRESS 5th & Green St. Parkersburg, WV 26101
SURFACE OWNER Nina Murphy
ADDRESS Petroleum, WV
MINERAL RIGHTS OWNER Nina Murphy
ADDRESS Petroleum, WV
OIL AND GAS INSPECTOR FOR THIS WORK Paul Goodnight ADDRESS
PERMIT ISSUED 3-27-81
DRILLING COMMENCED 1-30-82
DRILLING COMPLETED 2-03-82
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 Cord.			
13-10"	30'	30'	None
9 5/8			
8 5/8	1900'	1900'	622 f ³
7			
5 1/2			
4 1/2	5700'	5700'	1012.5f ³
3			
2			
Liners used	NONE	NONE	NONE

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5700 feet
Depth of completed well 5700 feet Rotary X / Cable Tools
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 4380-90 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 250 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 600/600 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation None Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

06/16/2017

N.T. 5190

FORM IV-35
(REVERSE)

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

A. Perforation: 4380' to 4390', 10', 4 jspf, .39" E Holes, 40 Total

B. Fracturing:

250 gal acid
1,500,000 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
Soil			0	20	
Sand, Shale			20	100	
Siltstone, red			100	150	
Sand & Shale			150	300	
Shale			300	475	
Lime			475	504	
Sand			504	559	
Coal, dirty			559	560	
Red Shale			560	760	
Sand			760	860	
Red Shale			860	898	
Dunkard Sand Shale			898	1098	
Sand, Cow Run			1098	1164	
Shale			1164	1250	
1st Salt			1250	1310	
Shale			1310	1360	
2nd Salt			1360	1390	
Shale			1390	1418	
3rd Salt			1418	1496	
Shale			1496	1534	
Maxon			1534	1596	
Big Lime			1596	1640	
Keener Sd			1640	1690	
Lime			1690	1720	
Big Injun			1720	1814	
Shale			1814	1832	
Squaw			1832	1852	
Shale			1852	2205	
Berea			2205	2215	
Shale			2215	2615	
Gordon			2615	2645	
Dev. Shale			2645	TD	

— 62' FT. ZONE
 — 50' FT. ZONE
 — 94' FT. ZONE
 — 20' FT. ZONE
 — 10' FT. ZONE
 — 30' FT. ZONE
 — 266' FT. TOTAL

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

(Attach separate sheets as necessary)

Rendova Oil Company

Well Operator

06/16/2017

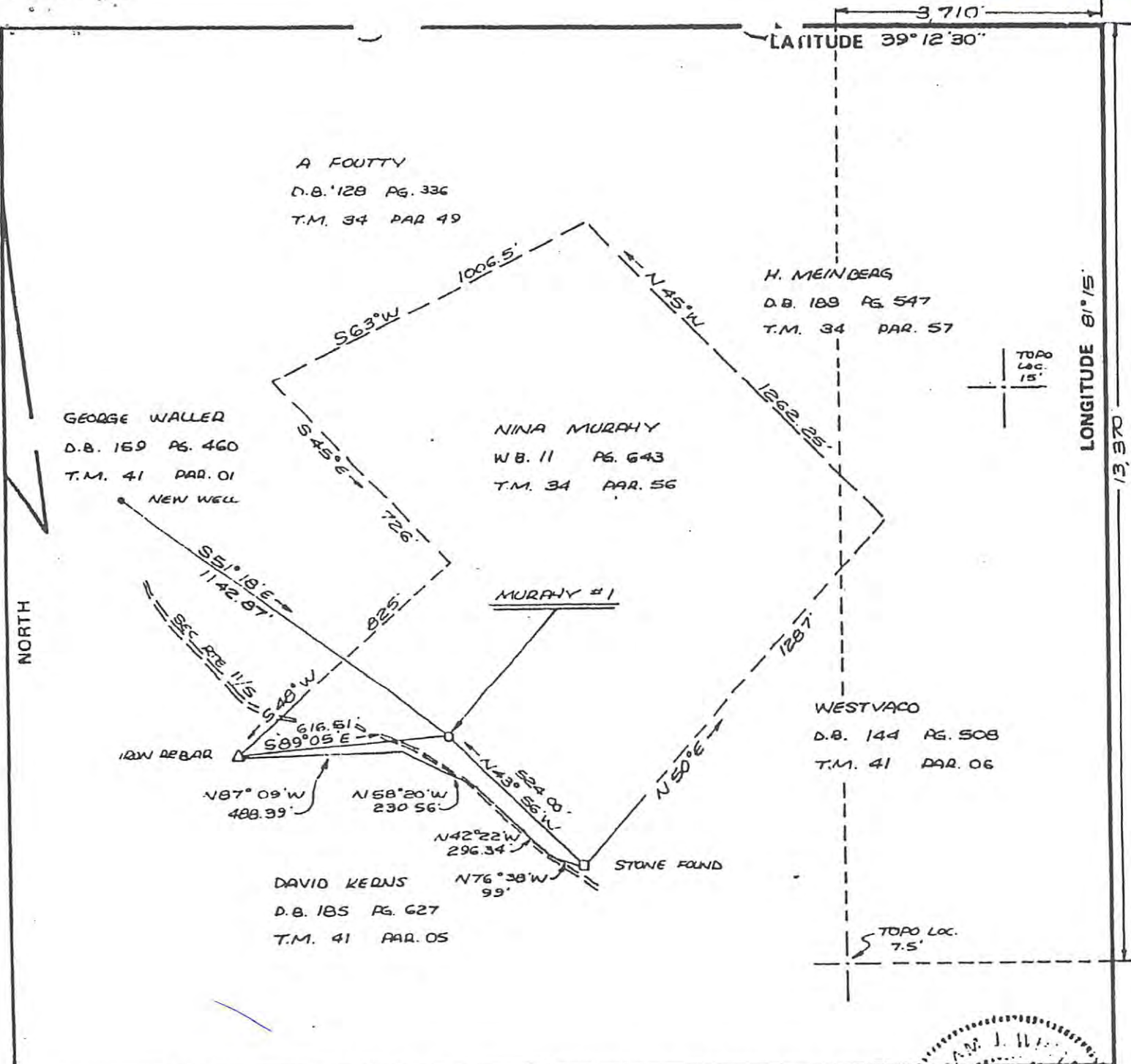
By: Mark A. Fairchild

Mark A. Fairchild

Date: August 26, 1983

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
 ... contained in the definition of a well."

8505190W



FILE NO. 81-8
DRAWING NO. 17
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 IN 500
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION FROM TOPO

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) William J. Hillman L.L.S.
R.P.E. _____ L.L.S. 646



(1) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8 78)

Received Office of Oil & Gas



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE MAY 21, 1981
OPERATOR'S WELL NO. MURPHY #1
API WELL NO. 47-085-05190
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 966' WATER SHED CABIN RUN
DISTRICT GRANT COUNTY RITCHIE
QUADRANGLE PETROLEUM

SURFACE OWNER NINA MURPHY ACREAGE 42
OIL & GAS ROYALTY OWNER NINA MURPHY LEASE ACREAGE 42
LEASE NO. _____

06/16/2017

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 OHIO SHALE ESTIMATED DEPTH 5000'
WELL OPERATOR RENDOVA OIL CO. DESIGNATED AGENT GERALD W. TOWNSEND
ADDRESS ONE MARENFELD PLACE SUITE 460 ADDRESS 5TH & GREEN ST.

WW-2A
(Rev. 6-14)

1). Date: _____
2.) Operator's Well Number Murphv #1
State County Permit
3.) API Well No.: 47- 085 - 05190

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: (a) Name Stephen L. Burnside W. Address Agent for Owners
1521 Dupond Road, Ste 102
Parkersburg, WV 26101-7708
(b) Name _____ Address _____
(c) Name _____ Address _____
5) (a) Coal Operator Name N/A Address _____
(b) Coal Owner(s) with Declaration Name _____ Address _____
(c) Coal Lessee with Declaration Name _____ Address _____

6) Inspector Michael D. Goff
Address 1723 Auburn Road
Pullman, WV 26421-8003
Telephone [304] 549-9823

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 of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties by:
_____ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

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 ALLIED ENERGY, INC.
By: David W. Wiggers David W. Wiggers
Its: Agent
Address: 35 Ridgewood Blvd
Belpre, OH 45714-8218
Telephone: [740] 423-8820
Email: dwwiggers@yahoo.com



Subscribed and sworn before me this 21 day of April, 2017
Holland Massey Notary Public
My Commission Expires Dec 7, 2021

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County 085 - Ritchie Operator ALLIED ENERGY, INC. Operator well number Murphy #1

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 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, WW-9, 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.

Signature of Stephen L. Burnside

Date 5/11/17

Company Name By Its Date

Stephen L. Burnside, Agent

Print Name

Received Office of Oil & Gas

Signature Date

MAY 3 2017

06/16/2017

8505190W

WW-70
Rev. 7/01

Well Name: Murphy #1
API: 47-085-05190

Affidavit of Personal Service

State of West Virginia
County of Wood

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) X / WW-3(A) ___ / WW-4(A) ___ / WW-5(A) ___ / WW-6(A) ___
 - (2) Application on Form WW-2(B) X / 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. Murphy #1, located in Grant District, Ritchie County, West Virginia, upon the person or organization named –

– by delivering the same in Ritchie County, State of West Virginia on the 1st day of May, 2017 in the manner specified below.

(COMPLETE THE APPROPRIATE SECTION)

For an individual:

Handing it to him X / 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 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 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 _____.

Received
Office of Oil & Gas

Larise G. Miller

(Signature of person executing service)

MAY 8 2017

Taken, subscribed and sworn before me this 2nd day of May, 2017.

My commission expires: Nov. 21, 2022



Susan E Stephens
Notary Public

06/16/2017

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Ritchie
Operator ALLIED ENERGY, INC. Operator's Well Number Murphy #1

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 N/A
By _____
Its _____ Date

Signature Date

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

**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
Peggy J. Burnside, widow of			WB 33 / 50
Charles D. Burnside	Allied Energy, Inc.	1/3 of 12.5%	DB 251 / 85
Stephen L. Burnside	Allied Energy, Inc.	1/3 of 12.5%	DB 251 / 85
Max E. Burnside	Allied Energy, Inc.	1/3 of 12.5%	DB 251 / 85
Stephen L. Burnside et al	Allied Energy, Inc		267/966

**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 and Gas

MAY 8 2017

WV Department of
Environmental Protection

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: lts:

David W Wiggers
ALLIED ENERGY, INC.
David W. Wiggers, Agent

WW-9
(5/16)

API Number 47 - 085 - 05190
Operator's Well No. Murphy #1

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

Operator Name ALLIED ENERGY, INC. OP Code 309558
Watershed (HUC 10) Cabin' RUN Quadrangle 544 - Petroleum

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 ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY, OFF-SITE. g/w/m

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: MAG 4/26/2017

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number 47-085-05190 / 47-085-05123 / 47-085-10035 - No Land Application)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: no

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. MAY 8 2017

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

-Landfill or offsite name/permit number? _____

RECEIVED
Office of Oil and Gas

WV Department of
Environmental Protection

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 David W Wiggers

Company Official (Typed Name) David W. Wiggers

Company Official Title Agent for Allied Energy, Inc.

Subscribed and sworn before me this 21 day of April, 2017

Holland Massey

Notary Public

My commission expires Dec 7, 2021



Proposed Revegetation Treatment: Acres Disturbed less than one acre Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 600 lbs/acre

Mulch 90 bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Contractors Mix</u>	<u>100</u>	<u>Contractors Mix</u>	<u>100</u>

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: Michael Hoff

Comments: Preseed & mulch any disturbed areas per WVAEA regulations. Maintain & upgrade E-n-S as necessary.

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

Title: Oil & Gas Inspector Date: 4/26/2017

Field Reviewed? () Yes () No

85 05190 W



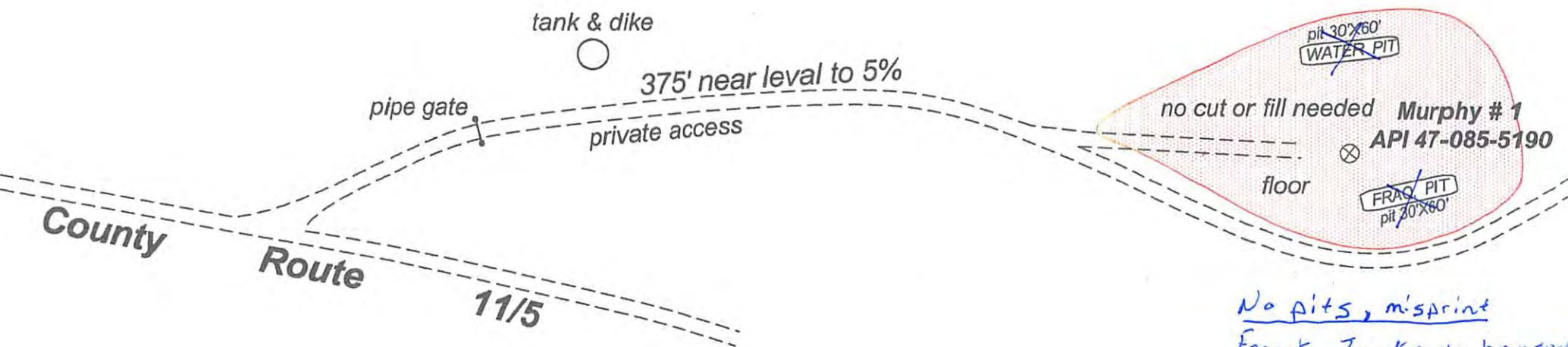
Allied Energy, Inc.
Wells: Murphy # 1 API 47-085-5190
Nina Murphy 42 Acre Lease
Grant District Ritchie County
West Virginia

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

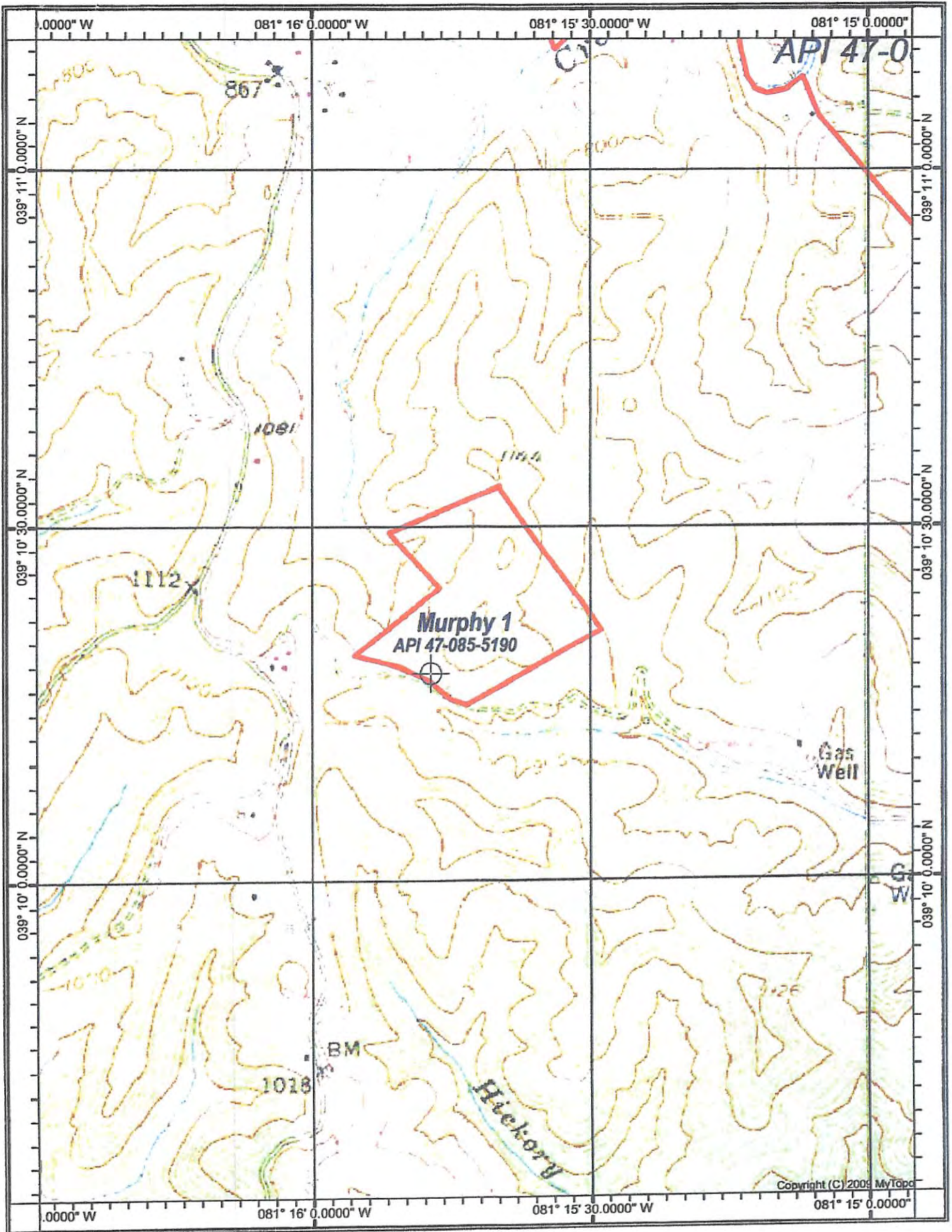
- 1: Erosion and sediment control will be used as per West Virginia erosion and sediment field manual and/or directed by district inspector.
- 2: Cross drains and sediment control will be placed as needed.
- 3: Amount and size of culverts to be placed where needed.
- 4: Cut and stack all trees 6 inches and above.
- 5: Stockpile top soil for reclamation purposes.
- 6: Temporarily seed and mulch all slopes.



No pits, misprint
Frack Tanks to be used

MAG
4/24/2017

8505190 W



RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

PETROLEUM QUADRANGLE

SCALE 1" = 1000'

ALLIED ENERGY

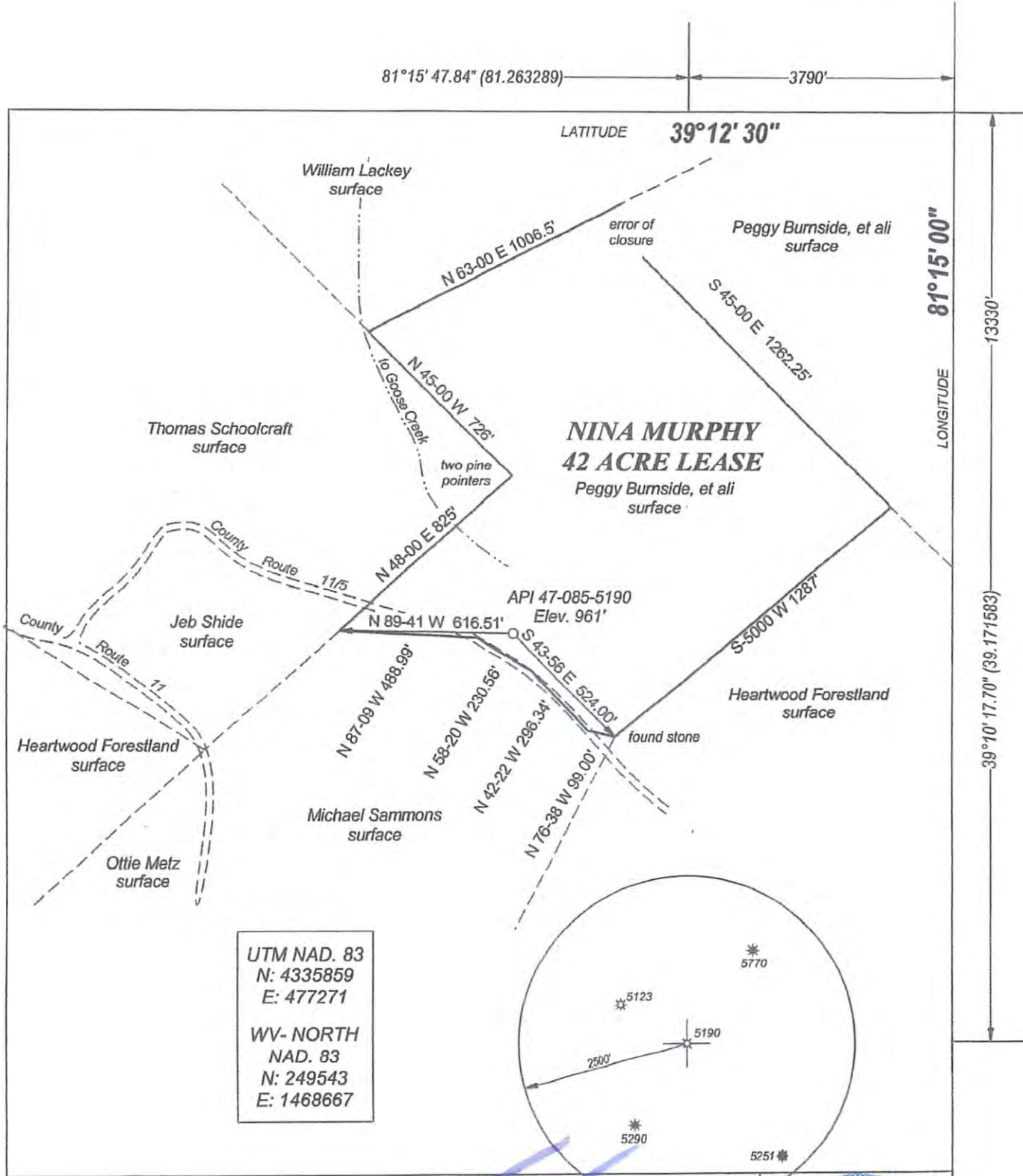
WELL: MURPHY 1 API 47-085-5190
NINA MURPHY 42 ACRE LEASE

GRANT DISTRICT RITCHIE COUNTY WEST VIRGINIA

MOC
4/26/2017

06/16/2017

8505190 W



UTM NAD. 83
 N: 4335859
 E: 477271

WV- NORTH
 NAD. 83
 N: 249543
 E: 1468667

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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) _____
 PROFESSIONAL SURVEYOR: 551



DATE MARCH 26TH, 2017
 OPERATORS WELL NO. MURPHY 1

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS

API 47 - 085 - 05190
 STATE COUNTY PERMIT

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

LOATION: ELEVATION 961' WATER SHED CABIN RUN
 DISTRICT GRANT COUNTY RITCHIE QUADRANGLE PETROLEUM

SURFACE OWNER PEGGY BURNSIDE, ET ALI ACREAGE 42
 OIL & GAS ROYALTY NINA MURPHY LEASE AC. 42

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___
 FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___
 OTHER PHYSICAL CHANGE IN WELL ___
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION MAXON, BIG INJUN, SQUAW, BEREA, GORDON ESTIMATED DEPTH 1534' TO 2645'

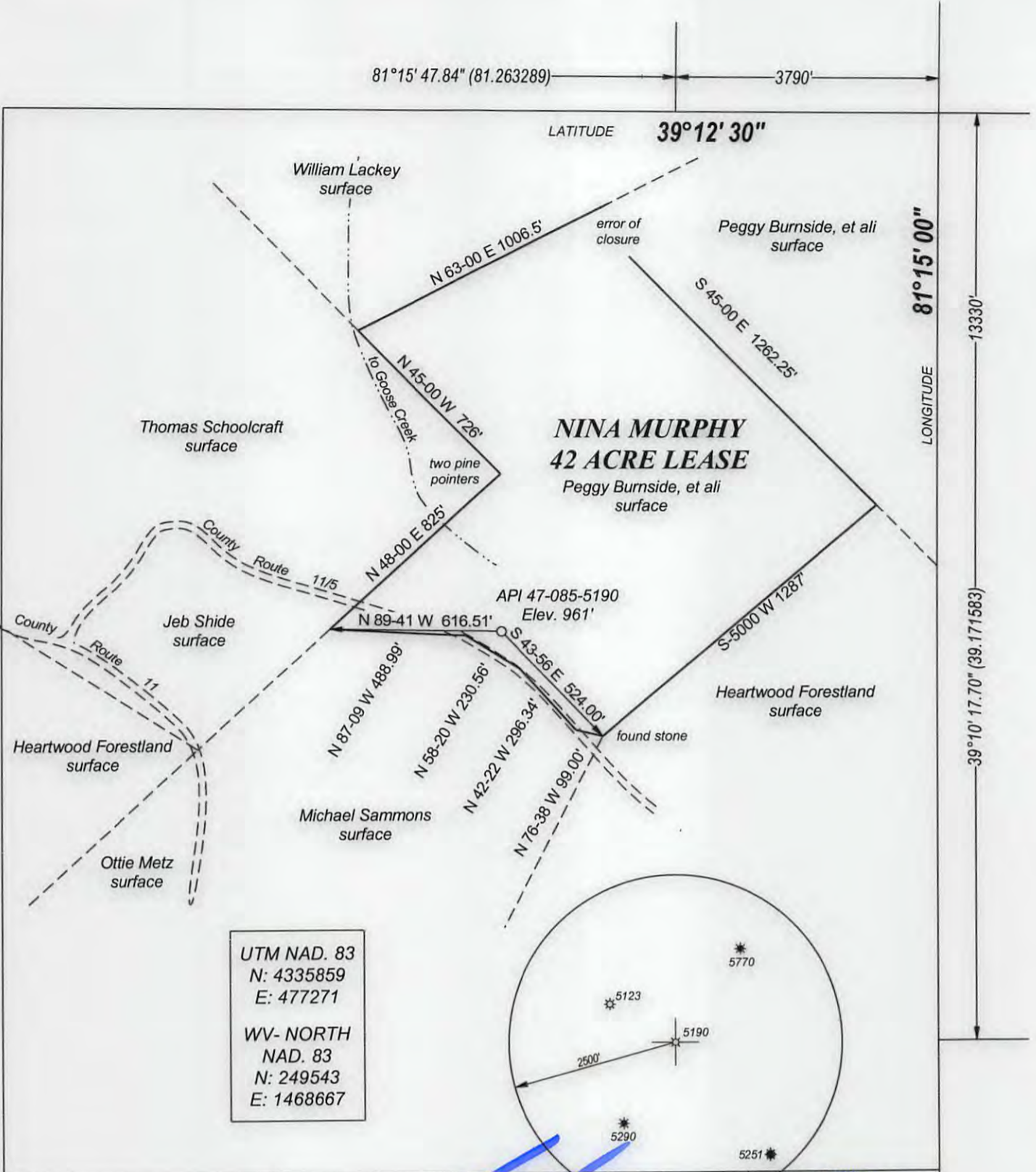
WELL OPERATOR ALLIED ENERGY, INC. DESIGNATED AGENT JACK MCGUNE
 ADDRESS P. O. BOX 3005 ADDRESS 4695 WV HWY 5
SARATOGA, CA 95070 GLENVILLE, WV 26351

FORM WW-6

COUNTY NAME
PREMIT

06/16/2017

MDC
4/26/17



UTM NAD. 83
 N: 4335859
 E: 477271

WV- NORTH
 NAD. 83
 N: 249543
 E: 1468667

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION GPS
 OBSERVATION

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) *[Signature]*
 PROFESSIONAL SURVEYOR: 551



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS

DATE MARCH 26TH, 2017
 OPERATORS WELL NO. MURPHY 1

API 47 - 085 - 05190 W
 STATE COUNTY PERMIT

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

LOATION: ELEVATION 961' WATER SHED CABIN RUN
 DISTRICT GRANT COUNTY RITCHIE QUADRANGLE PETROLEUM

SURFACE OWNER PEGGY BURNSIDE, ET ALI ACREAGE 42
 OIL & GAS ROYALTY NINA MURPHY LEASE AC. 42

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___
 FRACTURE OR STIMULATE XX PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___
 OTHER PHYSICAL CHANGE IN WELL ___
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION MAXON, BIG INJUN, SQUAW, BEREA, GORDON ESTIMATED DEPTH 1534' TO 2645'

WELL OPERATOR ALLIED ENERGY, INC. DESIGNATED AGENT JACK MCCUNE
 ADDRESS P. O. BOX 3005 ADDRESS 4695 WV HWY 5
 SARATOGA, CA 95070 GLENVILLE, WV 26351

FORM WW - 6

COUNTY NAME
 PERMIT

06/16/2017

WW-2B1
(5-12)

Well No. Murphy #1

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	<u>Reliance Laboratories, Bridgeport, WV</u>
Sampling Contractor	<u>Smith Land Service, Glenville, WV</u>

Well Operator	<u>ALLIED ENERGY, INC.</u>
Address	<u>P.O.Box 3005</u>
	<u>Saratoga, CA 95070</u>
Telephone	<u>310.710.1976</u>

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.

Stephen L. Burnside, Agent for Owners
1521 Dupont Road #102
Glendale, WV 26101-7708

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

06/16/2017

11-15-2016

Re-complete
FRACTURE

Check # 1655
dtd 5-1-17
\$550.00

CHECKLIST OF FILING A PERMIT
(Not for Horizontal 6A Wells)

API # 47-085-015190
Operator: Allied Energy, Inc.
Well #/Name: Murphy #1
Reviewed By: _____
End of Comment Period: _____

Re-Work, Frac and Drill Deeper Permits

- _____ WW-2B signed off by Inspector
- _____ WW-2A Notice / Application for Well Work Permit
- _____ WW-2A Surface Owner Waiver
- _____ WW-2A Coal Owner/Lessee/Operator Waiver
- _____ WW-2A (1) including book and page and royalty percentage.
- _____ WW-2B (1) Notice to Surface Owners
- _____ WW-9 (page 1 and 2) Inspector signature on WW-9
- _____ Reclamation Plan (page 2 of WW-9)
- _____ Mylar Plat
- _____ Topography Map of location for the well and pit
- N/A Database for Coal Depths, Permits, Boundaries
- _____ Certified Mail Receipts or **Affidavit of Personal Service**
- _____ Completion/Well Records of previous work
- _____ Bond
- _____ A check for \$650.00 if no pit \$550.00
- _____ Workers Comp/Employ. OK

RECEIVED
Office of Oil and Gas

MAY 8 2017

WV Department of
Environmental Protection

06/16/2017