



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

Thursday, December 1, 2022

WELL WORK PERMIT
Vertical / New Drill

MOUNTAINEER WELL SERVICES LLC
114 SOUTHGATE PARKWAY

CAMBRIDGE, OH 43725

Re: Permit approval for Norma Smith 1
47-085-10444-00-00

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: Norma Smith 1
Farm Name: Wayne Smith
U.S. WELL NUMBER: 47-085-10444-00-00
Vertical New Drill
Date Issued: 12/01/2022

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 within 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 Officer 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.

PERMIT CONDITIONS (CONTINUED)

9. The proposed Step-Rate test must be conducted in accordance with the EPA Region VIII procedure. The Office of Oil and Gas inspector will be notified to witness the test.

47 085 10444

GCS Consulting, LLC
4282 Amma Road, Amma West Virginia 25005
304-444-0085 genecsmith17@gmail.com

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November 2, 2022

Mr. Taylor Brewer, Assistant Chief of Permitting
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, WV 25304

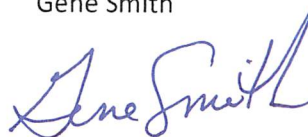
Re: Step rate test Request for Norma Smith #1 by Mountaineer Well Services, LLC

Taylor,

Plans are to drill a new commercial Class II disposal well in Ritchie County West Virginia. The Well Work application to apply for this permit has been submitted to the WVDEP-Office of Oil and Gas along with this request. When this permit is issued and drilled Mountaineer Well Services, LLC wishes to conduct a step rate test on the Oriskany and the Bass Island formations. Open hole logs will provide details of formation thicknesses and areas to perforate. Correlation with API 47-085-07367 and 47-85-09538 would have the Oriskany at 5755-5846 feet and the Bass Island at 6151-6196 feet. Plans are then to acidize the perforated intervals through 4 1/2" casing with up to 1500 gallons of 20%- 28% HCL and then conduct the test. If the test is successful a complete UIC Permit application will be submitted for review. The packer will be set within 100 feet of the top of the Oriskany. The test procedure provided by ALL Consulting is attached. The maximum injection pressure will be established by the Office of Oil and Gas based upon the information that has been provided. The duration of the test will be up to 8 hours.

On behalf of Mountaineer Well Services, LLC I am hereby asking for written approval to conduct the step rate test. Enclosed please find copies of the well work application, well schematic and topo map section. Should you need additional information or wish to discuss feel free to contact me. Thanks for the consideration.

Gene Smith



GCS Consulting, LLC

12/09/2022

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PROPOSED STEP-RATE TEST PROCEDURE

NORMA SMITH #1 (085-XXXXX), RITCHIE COUNTY, WEST VIRGINIA

The following step-rate test is proposed to assist the West Virginia DEP, Office of Oil and Gas in establishing a maximum allowable surface injection pressure for the Norma Smith #1 saltwater disposal well.

Proposed Step-Rate Testing Procedure

- Prior to testing, move in two 500-barrel frac tanks (1,000 barrels) on to location and fill with produced water. A vacuum truck should be on standby to refill tanks accordingly during testing if necessary.
- Approximately 24 hours prior to testing, move in wireline unit. Install two downhole digital pressure recording devices above top perforation to record bottom hole pressure and allow for pressure stabilization. The wireline downhole pressure gauges will be tied off at the surface to record bottom hole pressures during the step-rate test.
- Lightning Energy will provide the pumping service with a cement pump truck that can pump at 0.5 barrels per minute.
- Pump schedule as per proposed Step-Rate Test Schedule provided on the following page starting at the minimum stable rate attainable by the pumps. The proposed step-rate test schedule is designed such that the surface injection pressure will be below the expected formation fracture gradient during at least three (3) injection steps of the test. Each step must be performed for the same duration of 30 minutes.
- Injection rates will be controlled with a constant flow regulator that has been tested prior to use. Injection rates will be measured with a calibrated flowmeter. If there is a clear indication that during testing that the fracture pressure of the formation pressure has been exceeded (i.e., 3 readings above the fracture pressure are observed), or if no breakdown is achieved at the end of the 10 steps then the test will conclude.
- As soon as formation fracture (breakdown) is achieved or at the end of the step-rate test with no breakdown, immediately shut down and record instantaneous shut-in pressure and continue recording shut in pressure fall off for 5 minutes, 10 minutes, 15 minutes, and 30 minutes after shutting down.
- Disconnect all hoses and lines and demobilize Lightning Energy and vacuum trucks. Have wireline unit back onsite to retrieve downhole pressure gauges.
- Get copies of all pumping services for inspector, Mountaineer Well Services, LLC, ALL Consulting, and WV DEP, Office of Oil and Gas.
- ALL Consulting will analysis the data and develop a log graph showing all step-rate test data from both the surface and bottom hole pressure data and provide an evaluation of the step-rate test.

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- WV DEP, Office of Oil and Gas allows the maximum allowable surface injection pressure to be 80% of formation fracture (breakdown) pressure.

Step Rate Test Schedule					
Step #	Rate (bpm)	Fluid Type	Stg Vol (bbl)	Cum Vol (bbl)	Stg Time (mins)
1	0.5	Produced Water	15	15	30
2	1	Produced Water	30	45	30
3	1.5	Produced Water	45	90	30
4	2	Produced Water	60	150	30
5	2.5	Produced Water	75	225	30
6	3	Produced Water	90	315	30
7	3.5	Produced Water	105	420	30
8	4	Produced Water	120	540	30
9	4.5	Produced Water	135	675	30
10	5	Produced Water	150	825	30
Total				825 bbls	5 HRS

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WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie

Operator
Operator well number

Mountaineer Well Services
Norma Smith #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A 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 / 3A, and attachments consisting of pages 1 through ___ including a work order on Form WW-2B / 3A, 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.

Roger A. Smith
Signature
Roger A. Smith
Print Name

Date 8/23/21 Company Name _____
By _____
Its _____ Date _____

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WV Department of
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Signature _____ Date _____

12/09/2022

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WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie

Operator
Operator well number

Mountaineer Well Services
Norma Smith #1

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Arthur Wayne Smith
Signature

Date 9/24/21

Company
Name
By
Its

ARTHUR WAYNE SMITH

Print Name

Date

Signature

Date

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Office of Oil & Gas

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WV Department of
Environmental Protection

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WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County Ritchie

Operator
Operator well number

Mountaineer Well Services
Norma Smith #1

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Department of Environmental Protection
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(304) 926-0450

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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.

Darren T. Smith
Signature
DARREN T. SMITH
Print Name

Date 8-27-21

Company Name
By
Its

Date

Signature

Date

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Office of Oil & Gas
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12/09/2022

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Ritchie
Operator Mountaineer Well Services, L.P. Operator's Well Number Norma Smith #1

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW-2A / 3A. 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.

	Date		Company Name	
Signature			By	
			Its	Date
			Signature	Date

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MEMORANDUM OF ASSIGNMENT

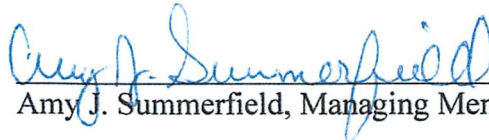
This Memorandum of Assignment is made and entered into this 3rd day of November, 2022, by and between **Cheetah Exploration & Production, LLC**, with a mailing address of P. O. Box 2722, Buckhannon, West Virginia 26201, (hereinafter, "Assignor"), and **Mountaineer Well Services, LLC**, with a mailing address of 114 Southgate Parkway, Cambridge, Ohio 43725, (hereinafter, "Assignee").

WHEREAS, by Partial Assignment and Conveyance of Oil and Gas Leases dated the 27th day of October, 2022, Assignor did assign to the Assignee all right, title and interest in and to the lease formations from the bottom of the Onondaga formation to a depth of 7,000 feet, for the purpose of drilling, completing and operating a Class II disposal well on the Leaseholds described in **Exhibit "A"**, hereby attached and made a part of this Agreement.

NOW, THEREFORE, the undersigned parties agree to place of record this Memorandum of Assignment for purposes of providing notice of same.

IN WITNESS WHEREOF, the Assignor and Assignee have caused this Memorandum of Assignment to be effective as of the 27th day of October, 2022.

Cheetah Exploration and Production, LLC


 Amy J. Summerfield, Managing Member

Mountaineer Well Services, LLC


 Ernie Malas, Managing Member

[Notary Page to Follow]

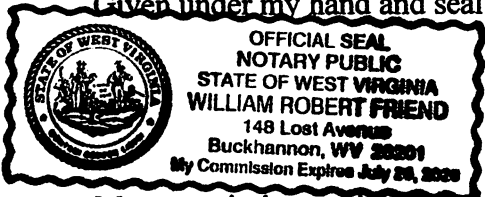
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12/09/2022

STATE OF WEST VIRGINIA,
COUNTY OF UPSHUR, TO-WIT:

I, WILLIAM R FRIEND, a Notary Public in and for the county and state aforesaid, do hereby certify that Amy J. Summerfield, who signed the writing above bearing date the 3RD day of November, 2022, for Cheetah Exploration and Production, LLC, a West Virginia limited liability company, has this day acknowledged the same to be the act and deed of said company.

Given under my hand and seal this ___ day of November, 2022.



[Signature]
Notary Public

My commission expires: JULY 20 2026.

STATE OF OHIO,
COUNTY OF FRANKLIN, TO-WIT:

I, _____, a Notary Public in and for the county and state aforesaid, do hereby certify that Ernie Malas, who signed the writing above bearing date the ___ day of November, 2022, for Mountaineer Well Services, LLC, a West Virginia limited liability company, has this day acknowledged the same to be the act and deed of said company.

Given under my hand and seal this ___ day of November, 2022.

Notary Public

My commission expires: _____

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Office of Oil & Gas

NOV. 04 2022

This instrument prepared by Cheetah Exploration and Production, LLC, P. O. Box 2722, Buckhannon, West Virginia 26201

WV Department of
Environmental Protection

4708510444

Exhibit A

Lessor	Lessee	Date/Original Lease	Acres	Book/Page	County	District
Jennings A. Smith	Craig Harden	9/27/1983	157	164/470	Ritchie	Grant
Oil Gas and Historical Industrial Association	Cheetah Exploration & Production, LLC	8/3/2021	95	329/502	Ritchie	Grant
Daniel E. Wyatt	Cheetah Exploration & Production, LLC	8/23/2021	165	330/452	Ritchie	Grant

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12/09/2022

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STATE OF WEST VIRGINIA,
COUNTY OF UPSHUR, TO-WIT:

I, _____, a Notary Public in and for the county and state aforesaid, do hereby certify that Amy J. Summerfield, who signed the writing above bearing date the ___ day of November, 2022, for Cheetah Exploration and Production, LLC, a West Virginia limited liability company, has this day acknowledged the same to be the act and deed of said company.

Given under my hand and seal this ___ day of November, 2022.

Notary Public

My commission expires: _____.

STATE OF OHIO,
COUNTY OF FRANKLIN, TO-WIT:

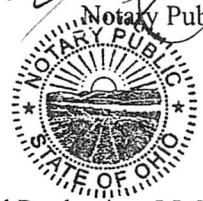
I, Alexis Sidwell, a Notary Public in and for the county and state aforesaid, do hereby certify that Ernie Malas, who signed the writing above bearing date the 3rd day of November, 2022, for Mountaineer Well Services, LLC, a West Virginia limited liability company, has this day acknowledged the same to be the act and deed of said company.

Given under my hand and seal this 3rd day of November, 2022.

[Handwritten Signature]

Notary Public

My commission expires: 12/16/2025



ALEXIS AKIA SIDWELL
Notary Public, State of Ohio
My Comm. Expires 12/16/2025

This instrument prepared by Cheetah Exploration and Production, LLC, P. O. Box 2722, Buckhannon, West Virginia 26201

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Office of Oil & Gas
NOV. 04 2022

WV Department of
Environmental Protection

12/09/2022

**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
Jennings A Smith	Craig L Harden	1/8	164/410
See Lease amendment ratification	Standard Oil Company, Inc	cents per bbl	328/708-713
Term assignment Standard Oil Company, Inc	Cheetah Exploration & Production LLC	cents per bbl	328/714
Cheetah Exploration & Production LLC	Mountaineer Well Services, LLC	assignment attached	

**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: Mountaineer Well Services, LLC
By: Its: *[Signature]*
mg. member

4708510444

WW-2B1
(5-12)

Well No. Norma Smith #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 Sturm Environmental
Sampling Contractor GCS Consulting, LLC

Well Operator Mountaineer Well Services, LLC
Address 13016 Southgate Parkway
Cambridge, Ohio 43725
Telephone 740-680-1730

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 underlining 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.

- ① Cathy McCullum
- ② Shannon Stanley
- ③ Shirley & Mary Reinhart

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NOV. 04 2022

WV Department of
Environmental Protection

ALL HAVE BEEN SAMPLED AND AWAITING ANALYSIS. COPY WILL BE PROVIDED TO THE WVDOP AND THOSE PERSONS LISTED ABOVE. 12/09/2022
Norma Smith

4708510444

WW-9
(2/15)

API Number 47 - 085 - _____
Operator's Well No. Norma Smith #1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Mountaineer Well Services, LLC OP Code 494526888

Watershed (HUC 10) Nutter Fork Goose Creek Quadrangle Cairo

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: Drilling fluids

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 10142)
- 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: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. air, 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. Leave in pit

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

-Landfill or offsite name/permit number? _____

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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 _____

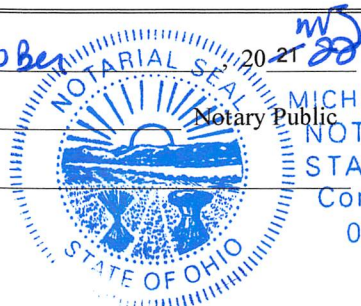
Company Official (Typed Name) ERIE MALON

Company Official Title mg member

Subscribed and sworn before me this 27 day of October, 2021

Michelle Bennett

My commission expires 5-11-2025



12/09/2022

Mountaineer Well Services, LLC

Proposed Revegetation Treatment: Acres Disturbed 5 Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw Tons/acre

Seed Mixtures

Temporary

Permanent


Seed Type	lbs/acre
Contractors Mix	100

Seed Type	lbs/acre
Contractors Mix	100

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

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WV Department of
Environmental Protection

Title: WV Oil & Gas Inspector

Date: 11/1/22

Field Reviewed? Yes No

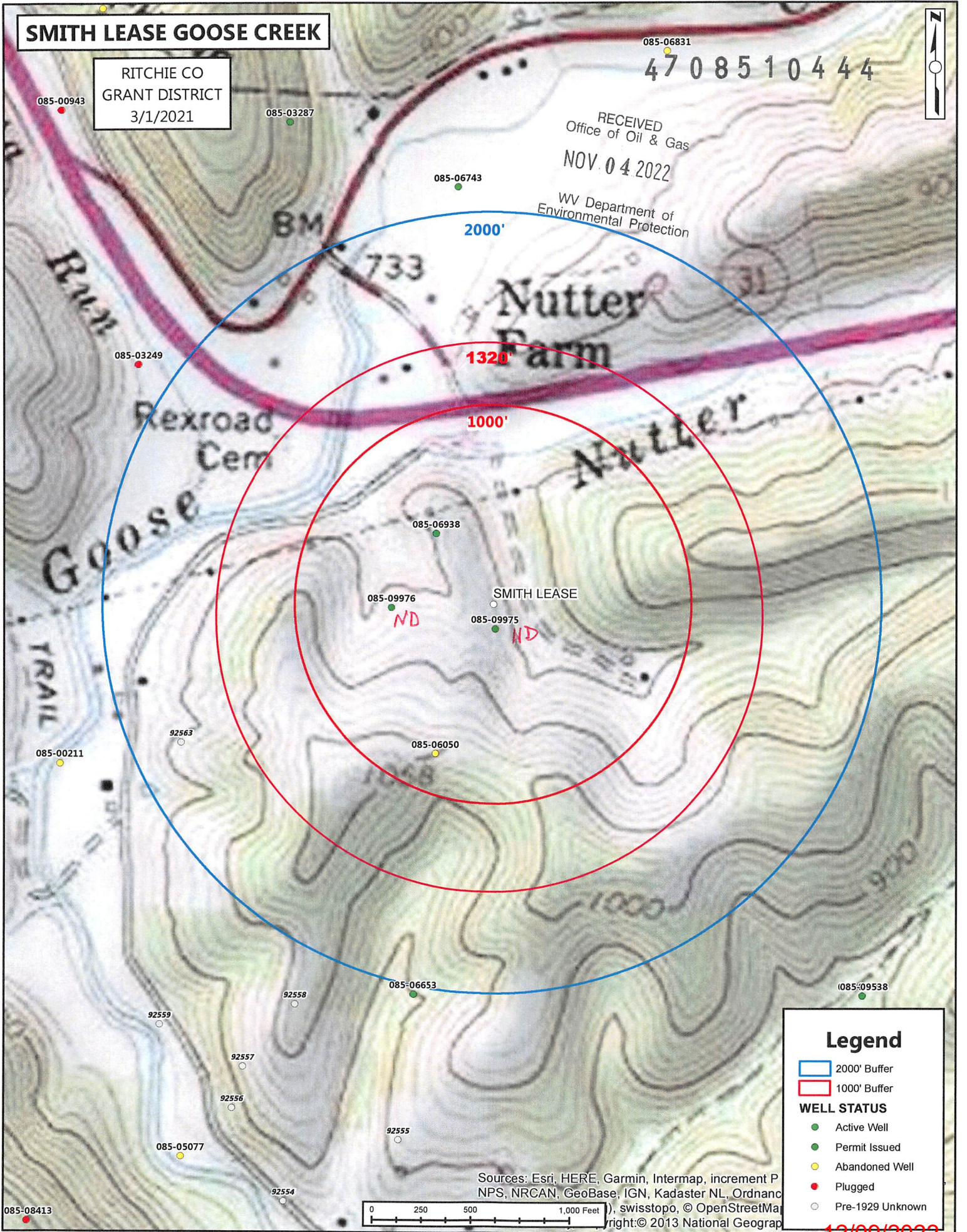
SMITH LEASE GOOSE CREEK

RITCHIE CO
GRANT DISTRICT
3/1/2021

085-06831
4708510444

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Sources: Esri, HERE, Garmin, Intermap, increment P
NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnanc
, swisstopo, © OpenStreetMap
right:© 2013 National Geograph

Legend

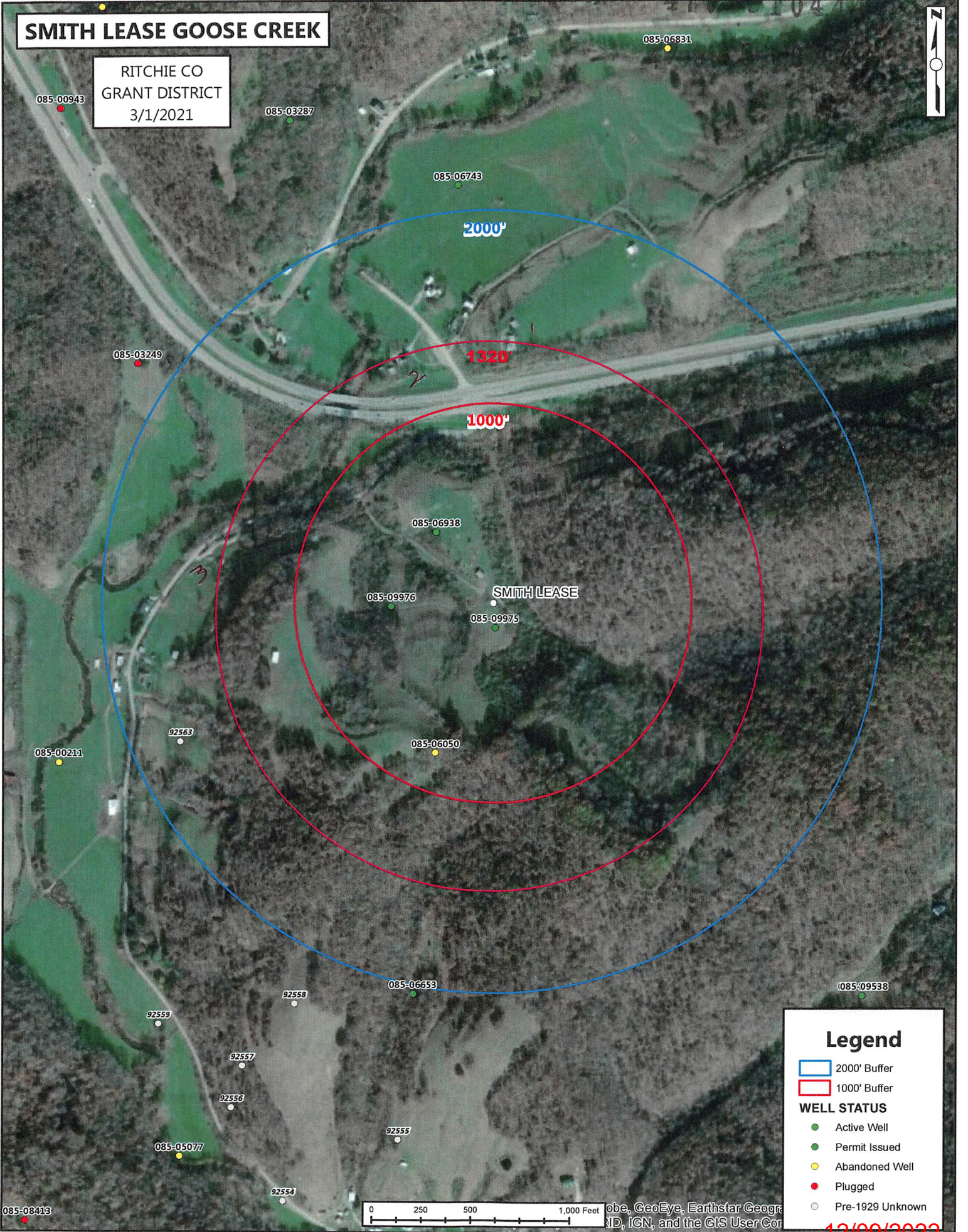
- 2000' Buffer
- 1000' Buffer
- WELL STATUS**
- Active Well
- Permit Issued
- Abandoned Well
- Plugged
- Pre-1929 Unknown

12/09/2022

SMITH LEASE GOOSE CREEK

RITCHIE CO
GRANT DISTRICT
3/1/2021

4709510411



2000'

1320'

1000'

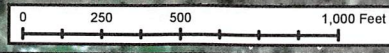
SMITH LEASE

Legend

- 2000' Buffer
- 1000' Buffer

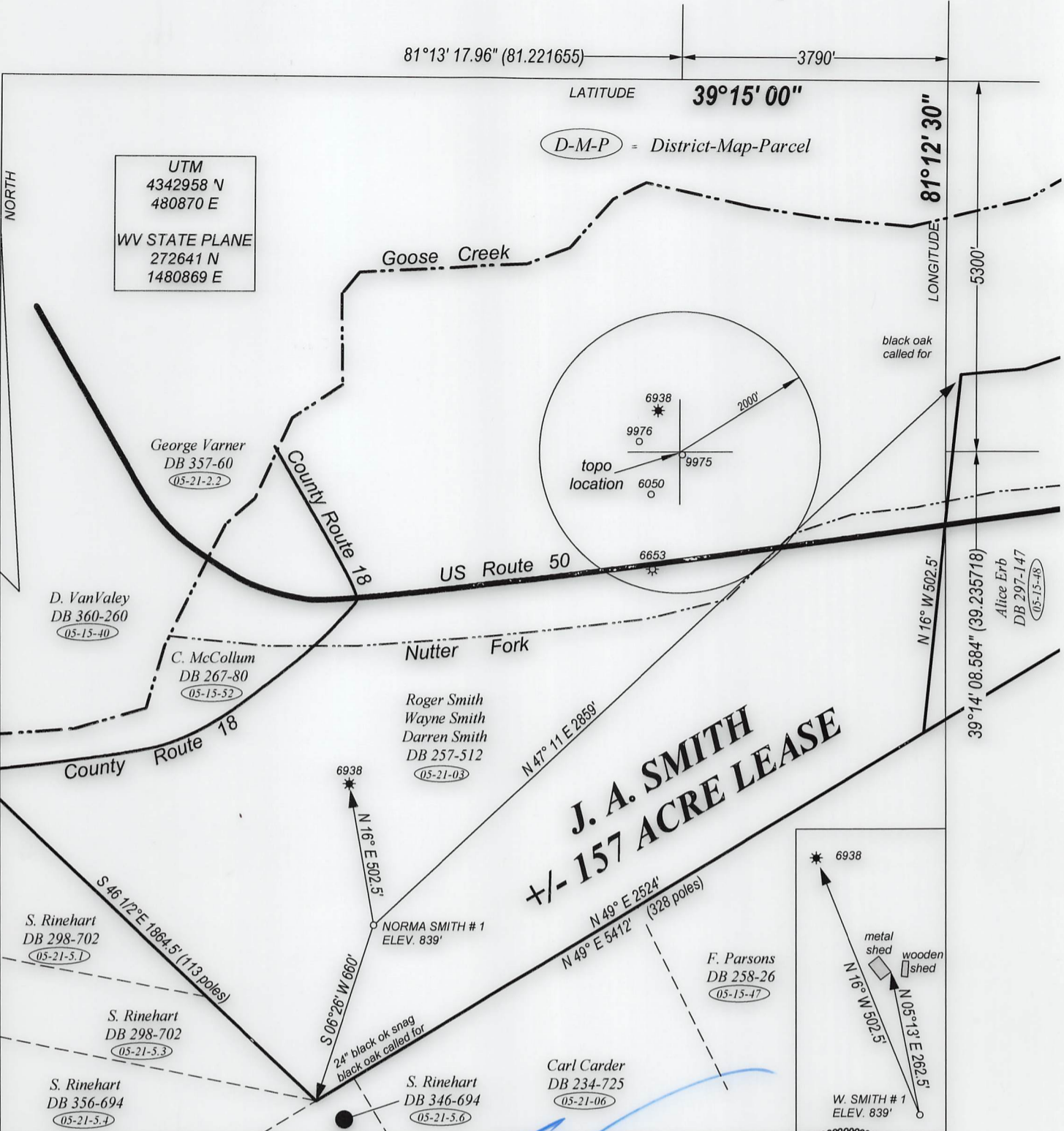
WELL STATUS

- Active Well
- Permit Issued
- Abandoned Well
- Plugged
- Pre-1929 Unknown



Map data by Esri, DeLorme, GeoEye, Earthstar Geographics, CNES/Airbus, DigitalGlobe, GeoEye, IGN, and the GIS User Community

12/09/2022

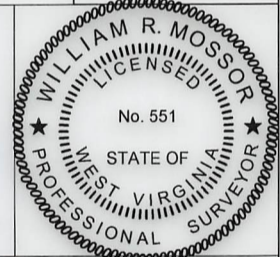


**J. A. SMITH
+/- 157 ACRE LEASE**

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



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

DATE SEPTEMBER 30TH, 2021
 OPERATORS WELL NO. NORMA SMITH #1

API 47 - 085 - 10111
 STATE COUNTY PERMIT

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

LOATION: ELEVATION 839' WATER SHED NUTTER FORK OF GOOSE CREEK
 DISTRICT GRANT COUNTY RITCHIE QUADRANGLE CAIRO

SURFACE OWNER ROGER SMITH 1/3, WAYNE SMITH 1/3, ROGER SMITH & DARREN SMITH 1/3 ACREAGE +/- 157.63
 OIL & GAS ROYALTY NORMA SMITH, ET AL LEASE AC. +/- 157

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

TARGET FORMATION ORISKANY - BASS ISLAND ESTIMATED DEPTH 5700' TO 6300'

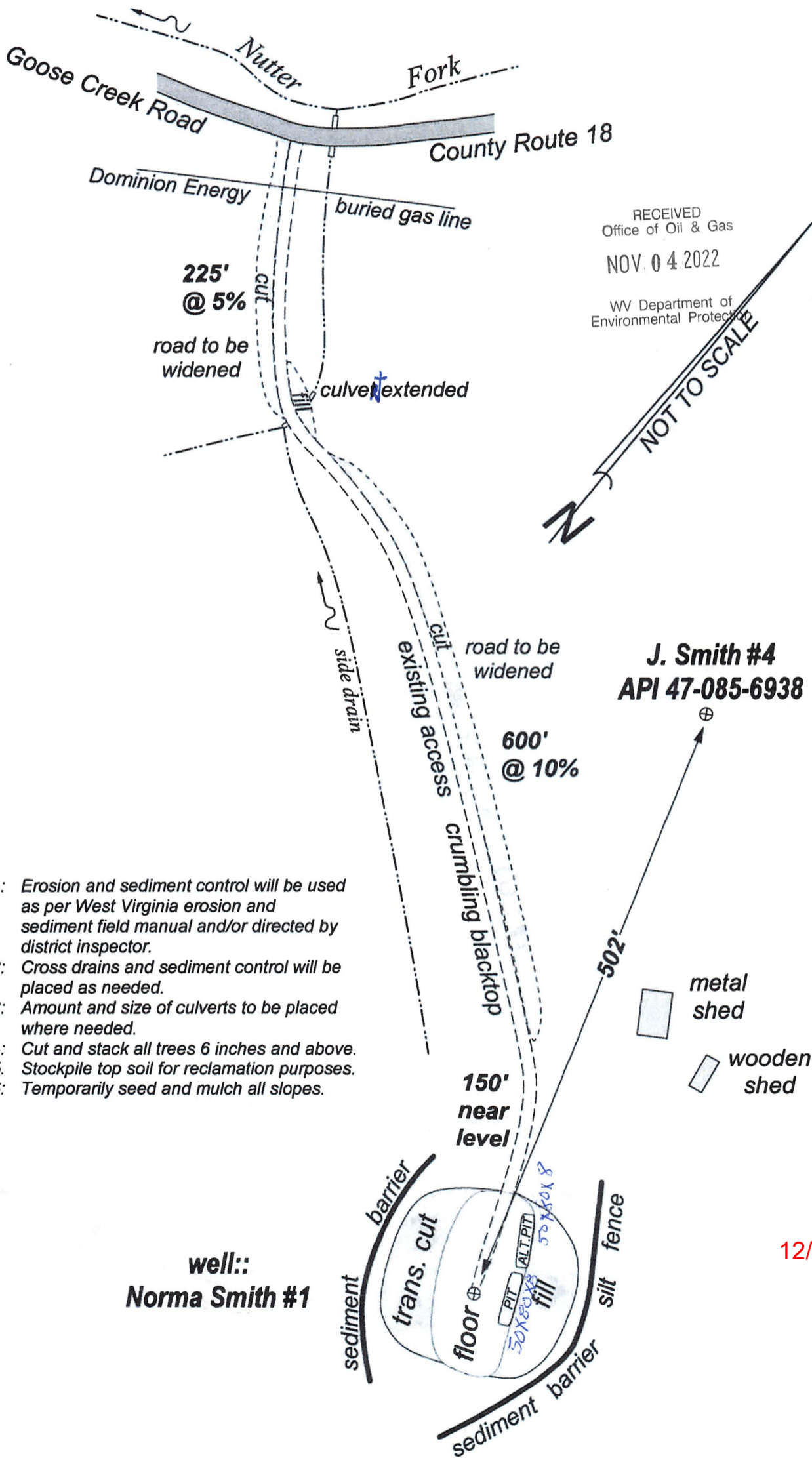
WELL OPERATOR MOUNTAINEER WELL SERVICES, LLC DESIGNATED AGENT PAT BRAKE
 ADDRESS 114 SOUTHGATE PARKWAY ADDRESS P. O. BOX 2722
CAMBRIDGE, OH 43725 BUCKHANNON, WV 26201

12/09/2022

FORM WW - 6

COUNTY NAME
 PERMIT

MOUNTAINEER WELL SERVICES, LLC
Well: Norma Smith # 1
Norma Smith, et al +/- 157 Acre Lease
Grant District Ritchie County West Virginia



12/09/2022

Stephen Mccoy

Digitally signed by Stephen Mccoy
Date: 2022.11.03 11:48:40 -04'00'

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice;
- 2) Your Well Name and Number;
- 3) To be filled out by the Office of Oil & Gas unless this well is covered by an existing permit;
- 4) To be filled out by the Office of Oil & Gas unless this well is covered by an existing permit;
- 5) Use separate sheet, if necessary;
Surface Owner(s) of record to be served with the Notice of Application. However, see also Code 22-6-9(b) if “more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands.”
- 6) Inspector;
- 7) Use separate sheet, if necessary;
 - a) “Coal Operator” means a person, firm, partnership, partnership association or corporation that proposes to or does operator a coal operator;
 - b) See Code 22-6-36;
 - c) See Code 22-6-36;

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code 22-6-6 and Regulation 7.02 provide that the original and two copies of the Notice and Application must be filed with the Chief, accompanied by (1) a plat in the form prescribed by Regulation 11; (2) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by code 22-6-26; and (3) the “Construction and Reclamation Plan” for Form WW-9, applicable to the plan required by Code 22-1-G(d) and the reclamation required by Code 22-6-30 and Regulation 23; unless if applicable, the consent required by code 22-6-21 from the owner of any water well or dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with interest in the coal. See Code 22-6-9, 22-6-13 and 22-6-14.

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Office of Oil & Gas

NOV 04 2022

WV Department of
Environmental Protection

12/09/2022

4708510444

FORM WW-3(B)
(Office of Oil & Gas Use Only)
1/12

OFFICE USE ONLY

DRILLING PERMIT

Permit Number _____ Date: _____

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil & Gas Inspector, (Refer to No. 9) prior to the construction of roads, locations, pits for any permitted work. In addition, the Well Operator or his contractor shall notify the proper District Oil & Gas Inspector 24 hours before actual permitted work has commenced.

The permitted work is as described in the Notice of Application, plat and (if required) Construction and Reclamation Plan, subject to any modifications and conditions specified below.

Permit Expires _____ unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent	Plat	Casing	Fee
------	-------	------	--------	-----

CHIEF, OFFICE OF OIL & GAS

Note: Keep One Copy of this permit posted at the drilling location.

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

RECEIVED
Office of Oil & Gas

NOV. 04.2022

WV Department of
Environmental Protection

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date		Date
Application Received	_____	Follow-up Inspection(s)	_____
Well Work Started	_____	“ “	_____
Total Depth Reached	_____	“ “	_____
Well Record Received	_____	“ “	_____
Reclamation Completed	_____	“ “	_____

OTHER INSPECTIONS

Reason: _____
Reason: _____

12/09/2022



Select County: (085) Ritchie Select datatypes: (Check All)

Enter Permit #: 06050

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/ShowWater Logs Btm Hole Loc

Get Data Reset

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 85 Permit = 06050 [Link to all digital records for well](#)

Report Time: Tuesday, November 29, 2022 9:02:46 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4708506050	Ritchie	6050	Grant	Cairo	Harrisville	39.233979	-81.222713	480778.5	4342765.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708506050	12/18/1982	Original Loc	Completed	Shirley Rinehart 1						Buchanan, Wayman W.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TL_BEF	P_AFT	TL_AFT	BHT
4708506050	12/18/1982	12/13/1982	1002 Ground Level	Silver Run	Angola Sh Mbr	Angola Sh Mbr	Development Well	Unsuccessful	Dry Rotary	Fractured	5150		5150		0	0	0	0			0	0	950	72	

Pay/ShowWater Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708506050	12/18/1982	Water	Fresh Water	Vertical			200						0
4708506050	12/18/1982	Water	Salt Water	Vertical			2000						0

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506050	Swift Energy Co.	1988	8,637	548	874	959	881	722	648	751	768	615	661	596	814
4708506050	Swift Energy Co.	1989	8,003	802	776	698	555	563	778	692	702	623	663	641	510
4708506050	Swift Energy Co.	1990	8,800	720	672	904	877	761	695	846	699	640	792	632	562
4708506050	Elder, H. H.	1992	60	5	5	5	5	5	5	5	5	5	5	5	5

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506050	Swift Energy Co.	1988													
4708506050	Swift Energy Co.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506050	Swift Energy Co.	1990	62	62	0	0	0	0	0	0	0	0	0	0	0
4708506050	Elder, H. H.	1992	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708506050	Original Loc	Maxton	Well Record	1610	Reasonable	100	Reasonable	1002	Ground Level
4708506050	Original Loc	Greenbrier Group	Well Record	1774	Reasonable	74	Reasonable	1002	Ground Level
4708506050	Original Loc	Big Lime	Well Record	1774	Reasonable	74	Reasonable	1002	Ground Level
4708506050	Original Loc	Big Injun (Price&eq)	Well Record	1848	Reasonable	46	Reasonable	1002	Ground Level
4708506050	Original Loc	Sunbury Sh	Well Record	2334	Reasonable	11	Reasonable	1002	Ground Level
4708506050	Original Loc	Berea Ss	Well Record	2345	Reasonable	10	Reasonable	1002	Ground Level
4708506050	Original Loc	UDev undf:Ber/LoHURN	Well Record	2355	Reasonable	1250	Reasonable	1002	Ground Level
4708506050	Original Loc	Lower Huron	Well Record	3605	Reasonable	1026	Reasonable	1002	Ground Level
4708506050	Original Loc	Java Fm	Well Record	4631	Reasonable	201	Reasonable	1002	Ground Level
4708506050	Original Loc	Angola Sh Mbr	Well Record	4632	Reasonable	288	Reasonable	1002	Ground Level
4708506050	Original Loc	Rhinestreet Sh	Well Record	5120	Reasonable	0	Reasonable	1002	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG
4708506050	500	5150		G,D,N,I,T,C,*	Y	N	500	5150	2072	5150	1840	5150	2072	5150	2150	5150			2072	5150	N	Y	N						

Comment: *logs: caliper, bit size, computed digital, hydrocarbon analysis; different scale on #151A

Downloadable Log Images/Data: We advise you to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save option. Then you can direct the file to a location of your choice. Please note the scanned log images vary in size and some may take several minutes to download.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

Scanned Logs

FILENAME
4708506050ndnitco.tif

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron-SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

4708506050 OFFSET TO 4708510444

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹Other logs may include, but are not limited to, such curves as audio, bit size, CCL—casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL—Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

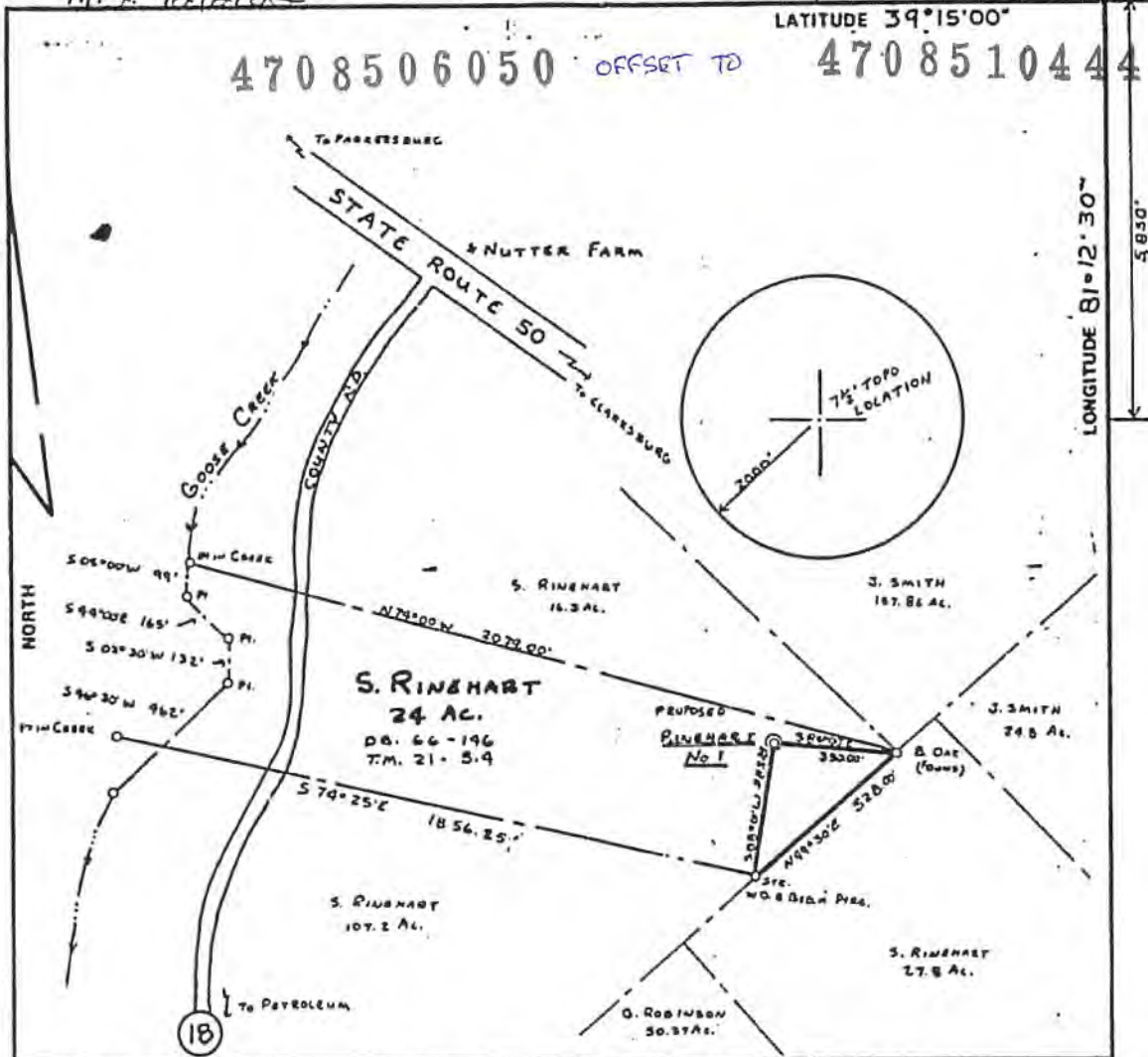
API	PLG_DT	DEPTH_PBT
4708508050	-1-1983	0

There is no Sample data for this well

4708508050 OFFSET TO 4708510444

11/14 12/2/82

LATITUDE 39°15'00"
 4708506050 OFFSET TO 4708510444



FILE NO. FB 7-6
 DRAWING NO. B2143
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TOP OF RIDGE 103B
WEST OF LOCATION

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) Wayman Buchanan
 O.P.C. 434 L.I.S. 434

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 12-2, 19 82
 OPERATOR'S WELL NO. RINEHART No 1
 API WELL NO. 47 085-6050-9
 STATE 47 COUNTY 085 PERMIT 6050-9

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

PL. CANCELLED

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS.") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1001.5' WATER SHED GOOSE CREEK
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO (7.5')

SURFACE OWNER SHIRLEY RINEHART ACREAGE 24
 OIL & GAS ROYALTY OWNER SHIRLEY RINEHART & BOSTON HEIRS LEASE ACREAGE 24
 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 DEVONIAN SHALE ESTIMATED DEPTH 4800'
 WELL OPERATOR WAYMAN BUSHANAN DESIGNATED AGENT LERROY HOPKINS
 ADDRESS SAN ANTONIO, TEXAS ADDRESS KENNA WVA

FIT. 6050

4708506050

OFFSET TO

4708510444

RECEIVED



IV-35 (Rev 8-81)

OCT - 5 1983

Date December 20, 1982

Operator's Well No. _____

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Farm Rinehart #1

API No. 047-085 - 6050

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

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

LOCATION: Elevation: 1001.5' W. shed Goose Creek District: Grant County Ritchie Quadrangle Cairo 7.5

COMPANY Wayman W. Buchanan ADDRESS San Antonio, Texas 78205 DESIGNATED AGENT Leroy Hopkins ADDRESS Kenna, WV 25248 SURFACE OWNER Shirley Rinehart, etal ADDRESS Petroleum, WV 26161 MINERAL RIGHTS OWNER Same as above ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman ADDRESS Smithville, WV 26178 PERMIT ISSUED 12/2/82 DRILLING COMMENCED 12/13/82 DRILLING COMPLETED 12/18/82 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5078 feet Depth of completed well 5150 feet Rotary x / Cable Tools Water strata depth: Fresh 200 feet; Salt 2000 feet Coal seam dep hs: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3792-4820 feet Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow N/A Mcf/d Final open flow N/A Bbl/d Time of open flow between initial and final tests hours Static rock pressure 950 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

6050

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

Perforated 3792 to 3990
Treated with 1,250,000 scf N₂
Perforated 4309 to 4820
Treated with 1,250,000 scf N₂

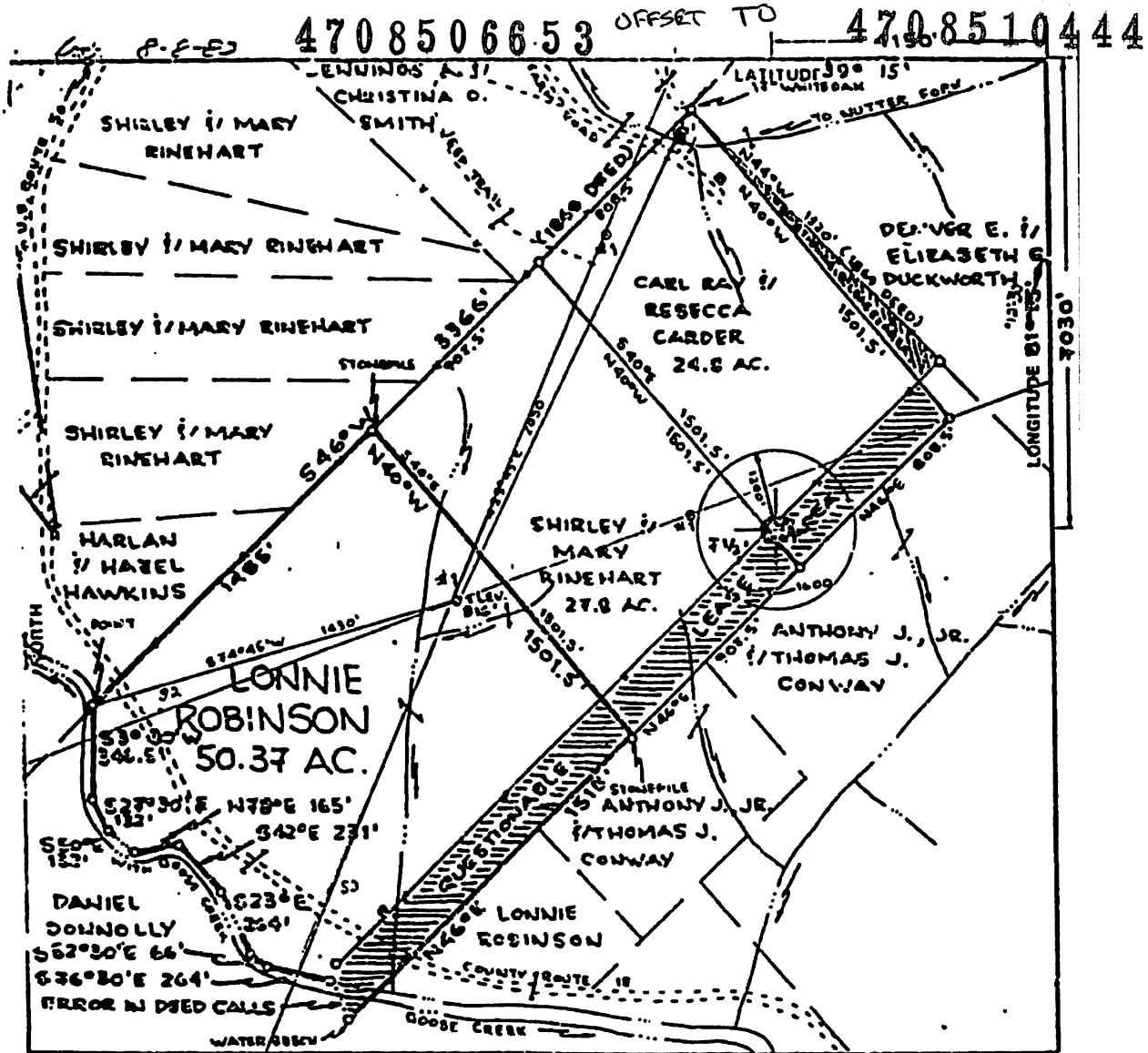
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	545	
Sandy Siltstones			545	732	
Shale			732	750	
Shales and thin sands			750	900	
Shale			900	1005	
Sandstone			1005	1035	
Shale			1035	1140	
Sand			1140	1180	
Shale			1180	1220	
Sand			1220	1235	
Shale			1235	1260	
Sands and Shale			1260	1415	
Shale			1415	1490	
Sand			1490	1570	
Shale			1570	1610	
Maxton Sand			1610	1710	
Shale			1710	1774	
Big Lime			1774	1848	
Big Injun			1848	1894	
Sandy Siltstone			1894	1977	
Shale			1977	2216	
Sandy Siltstone			2216	2247	
Shale			2247	2334	
Sunbury			2334	2345	
Berea			2345	2355	
Shale			2355	2458	
Sandy Siltstone			2458	2465	
Shales/Siltstone			2465	2807	
Shale			2807	5150	
TD			5150		

(Attach separate sheets as necessary)

W. AN W. BUCHANAN
Well Operator
P: Roy S. Sites
Date: 30 OCT 83

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



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION HIGH PT. ELEV. 1058'

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 P. Hurd*
 P.F.E. _____ L.L.S. 551

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (6-78)



DATE 1 JUNE, 1987
 OPERATOR'S WELL NO. ROBINSON 01
 API WELL NO. _____
 STATE 47 COUNTY 085 PERMIT 6653

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 816' WATER SHED GOOSE CREEK
 DISTRICT GRANT COUNTY PUTCHE
 QUADRANGLE CAIRO T¹/₂ QUAD _____
 SURFACE OWNER LONNIE ROBINSON ACREAGE 50.37
 OIL & GAS ROYALTY OWNER Albert B. Wolf, Trust LEASE ACREAGE 50.37
 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 MARBLE SHALE ESTIMATED DEPTH 5020'
 WELL OPERATOR TECHNICAL, INC. DESIGNATED AGENT DANUS BENSCHACH
 ADDRESS P.O. BOX 796 ADDRESS P.O. BOX 796

5730
- 837
A 8 9 3

5620
- 816

IV-35
(Rev 8-81)

4804

MARCELLUS
BELOW ELEV.



Date October 17, 1984
Operator's
Well No. Robinson #1
Farm _____
API No. 47 - 085 - 6653

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 816' Watershed Goose Creek
District: Giant County Ritchie Quadrangle Cairo

COMPANY Techwell, Inc.
ADDRESS P.O. Box 706 Morgantown, WV 26505
DESIGNATED AGENT Darus H. Zehrbach
ADDRESS same
SURFACE OWNER Lonnie Robinson
ADDRESS Rt. 1 Box 131 Petroleum WV 26161
MINERAL RIGHTS OWNER Albert B. Wolfe Trust
ADDRESS 850 Market St. Parkersburg
OIL AND GAS INSPECTOR FOR THIS WORK Doe
Mace ADDRESS Sandridge, WV
PERMIT ISSUED 6-1-83
DRILLING COMMENCED 2-5-84
DRILLING COMPLETED 2-10-84

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	242	all	surf
9 5/8			
8 5/8	1868	all	surf
7			
5 1/2			
4 1/2	5620	all	surf
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5500 feet
Depth of completed well 5637 feet Rotary x / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt 1652 feet
Coal seam depths: 980 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Marcellus Shale Pay zone depth 5550-5610 feet
Gas: Initial open flow none Mcf/d Oil: Initial open flow none Bbl/d
Final open flow none Mcf/d Final open flow none Bbl/d
Time of open flow between initial and final tests: _____ hours
Static rock pressure 2529 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ 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

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

1st stage				3rd stage			
1	10'/gun	5610-20	2/ft 20	4315-4325	10'	gun 5 shots	
1	5'	5583-88	2/ft 10	4487-4492	5'	gun 10 shots	
1	5'	5556-61	1/ft 5	4508-4518	10'	gun 10 shots	
				4699-4704	5'	gun 5 shots	
2nd stage							
1	5'	5445-50	1/ft				
	5'	5385-90	1/ft				
	5'	5345-50	2/ft				
	5'	5300-05	1/ft				
	5'	5257-62	2/ft				

80 tons CO₂/stage

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fr and salt water, coal, oil and c
Overburden			0	25	
Sand & Shale			25	500	
Sand & Siltstone			500	560	
Sandstone			560	580	
Shale & Siltstone			580	870	
Sandstone			870	960	
Sand & Siltstone			960	980	
Sand & Coal			980	990	Pittsburgh ?
Sand & Siltstone			990	1040	
Sand, Shale, Siltstone			1040	1220	
Sandstone			1220	1340	
Sand, Shale			1340	1670	
Limestone			1670	1760	Big Lime
Sandstone			1760	1840	
Shale & Siltstone			1840	2000	Big Injun
Siltstone			2000	2010	
Shale			2010	2360	
Siltstone & Shale			2360	2400	
Shale			2400	2460	
Sand & Siltstone			2460	2480	30'
Shale & Siltstone			2480	2770	
Shale			2770	4240	Dev. Shales
Shale & Siltstone			4240	4290	
Shale			4290	5630	
Limestone			5630	5637TD	

(Attach separate sheets as necessary)

Techwell, Inc.

Well Operator

By: E. Ray Garton-Geologist

Date: 10-17-84

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 all encountered in the drilling of a well."

12/09/2022



Select County: (085) Ritchie (Check All)

Enter Permit #: 06653

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 85 Permit = 06653 [Link to all digital records for well](#)

Report Time: Tuesday, November 29, 2022 9:00:33 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4708506653	Ritchie	6653	Grant	Cairo	Harrisville	39.230644	-81.223086	480745.5	4342395.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4708506653	2/10/1984		Original Loc	Completed	Lonnie Robinson 1					Techwell, Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4708506653	2/10/1984	2/5/1984	816	Ground Level	Silver Run	Marcellus Fm	Marcellus Fm	Development Well	Development Well	Gas	Rotary	Fractured	5637		5637	0	160	0	0			0	0	2529	48

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708506653	2/10/1984	Water	Salt Water	Vertical			1652						0
4708506653	2/10/1984	Pay	Gas	Vertical	4315	Lower Huron	4704	Angola Sh Mbr	0	0			
4708506653	2/10/1984	Pay	Gas	Vertical	5257	Rhinestree Sh	5450	Sonyea Fm	0	0			
4708506653	2/10/1984	Pay	Gas	Vertical	5556	Genesee Fm	5620	Marcellus Fm	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506653	Techwell, Inc.	1985	2,655		289	254	602	305	330	191	358	326			
4708506653	Techwell, Inc.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1991	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2010	35	0	0	0	0	0	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2011	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2012	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2013	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2014	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2015	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2016	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2017	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2018	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2019	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2020	60	5	5	5	5	5	5	5	5	5	5	5	5
4708506653	Zickefoose, R. L. & W. F.	2021	60	5	5	5	5	5	5	5	5	5	5	5	5

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506653	Techwell, Inc.	1985													
4708506653	Techwell, Inc.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Techwell, Inc.	1991													
4708506653	Zickefoose, R. L. & W. F.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2016	0												
4708506653	Zickefoose, R. L. & W. F.	2017	0												
4708506653	Zickefoose, R. L. & W. F.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506653	Zickefoose, R. L. & W. F.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2016	0												
4708506653	Zickefoose, R. L. & W. F.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

4708506653 OFFSET TO 4708510444

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708506653	Zickefoose, R. L. & W. F.	2016	0												
4708506653	Zickefoose, R. L. & W. F.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4708506653	Zickefoose, R. L. & W. F.	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708506653	Original Loc	Greenbrier Group	Well Record	1670	Reasonable	90	Reasonable	816	Ground Level
4708506653	Original Loc	Big Lime	Well Record	1670	Reasonable	90	Reasonable	816	Ground Level
4708506653	Original Loc	Big Injun (Price&eq)	Well Record	1760	Reasonable	80	Reasonable	816	Ground Level
4708506653	Original Loc	UDev undf:Ber/LoHURN	Well Record	2175	Reasonable	1253	Reasonable	816	Ground Level
4708506653	Original Loc	Lower Huron	Well Record	3428	Reasonable	1028	Reasonable	816	Ground Level
4708506653	Original Loc	Java Fm	Well Record	4456	Reasonable	201	Reasonable	816	Ground Level
4708506653	Original Loc	Angola Sh Mbr	Well Record	4657	Reasonable	288	Reasonable	816	Ground Level
4708506653	Original Loc	Rhinestreet Sh	Well Record	4945	Reasonable	410	Reasonable	816	Ground Level
4708506653	Original Loc	Sonyea Fm	Well Record	5355	Reasonable	135	Reasonable	816	Ground Level
4708506653	Original Loc	Genesee Fm	Well Record	5490	Reasonable	70	Reasonable	816	Ground Level
4708506653	Original Loc	Marcellus Fm	Well Record	5560	Reasonable	0	Reasonable	816	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

4708506653
 OFFSET TO
 4708510444

81°13' 17.96" (81.221655) 4708510444 3790

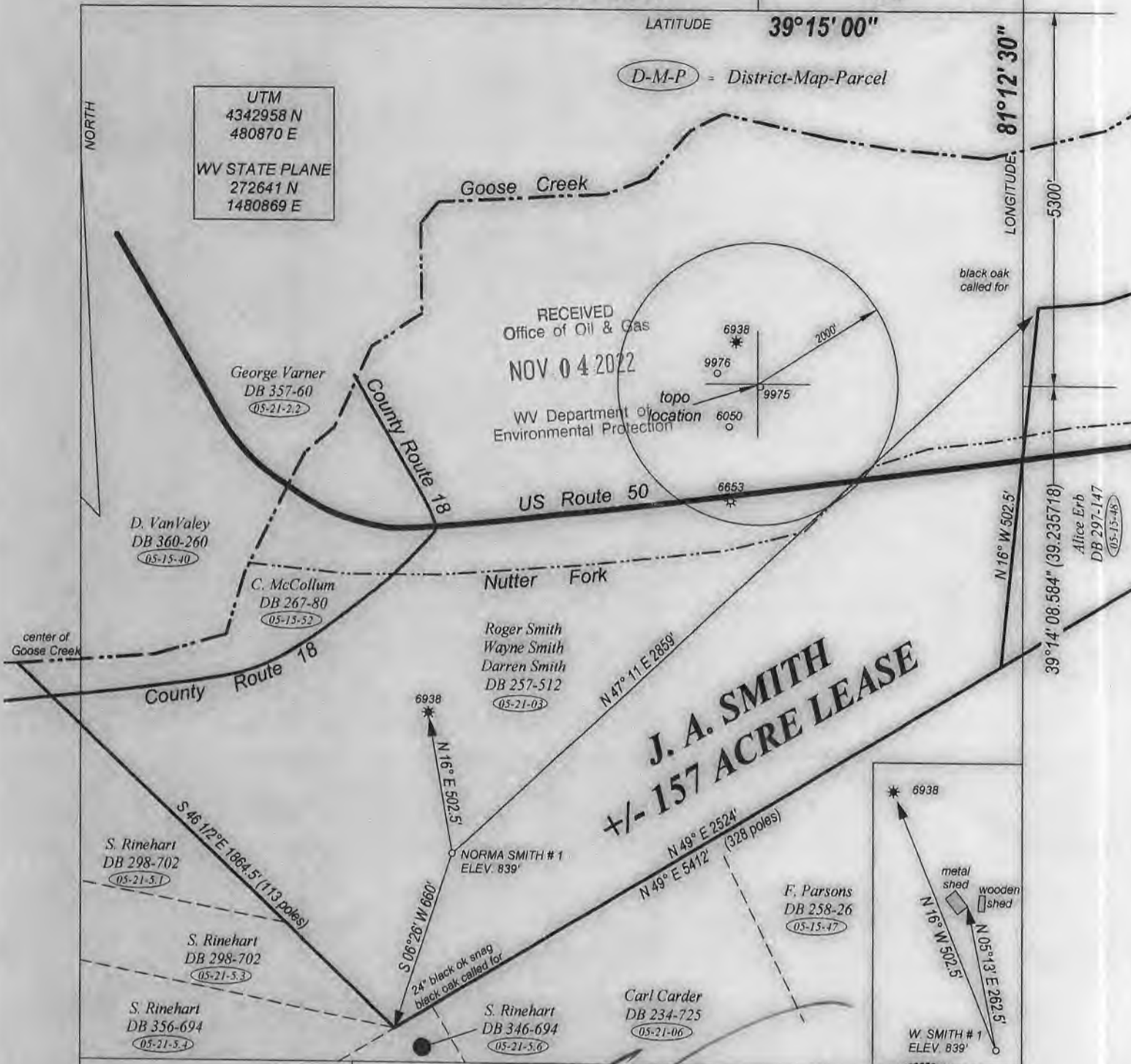
LATITUDE 39°15' 00"

LONGITUDE 81°12' 30"

D-M-P = District-Map-Parcel

UTM
4342958 N
480870 E
WV STATE PLANE
272641 N
1480869 E

RECEIVED
Office of Oil & Gas
NOV 04 2022
WV Department of
Environmental Protection

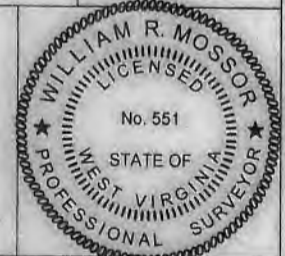


**J. A. SMITH
+/- 157 ACRE LEASE**

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



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

DATE SEPTEMBER 30TH, 2021
OPERATORS WELL NO. NORMA SMITH #1

API 47 - 085 - 10444
STATE COUNTY PERMIT

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

LOATION: ELEVATION 839' WATER SHED NUTTER FORK OF GOOSE CREEK
DISTRICT GRANT COUNTY RITCHIE QUADRANGLE CAIRO

SURFACE OWNER ROGER SMITH 1/3, WAYNE SMITH 1/3, ROGER SMITH & DARREN SMITH 1/3 ACREAGE +/- 157.63
OIL & GAS ROYALTY NORMA SMITH, ET AL LEASE AC. +/- 157

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

TARGET FORMATION ORISKANY - BASS ISLAND ESTIMATED DEPTH 5700' TO 6300'

WELL OPERATOR MOUNTAINEER WELL SERVICES, LLC DESIGNATED AGENT PAT BRAKE
ADDRESS 114 SOUTHGATE PARKWAY ADDRESS P. O. BOX 2722
CAMBRIDGE, OH 43725 BUCKHANNON, WV 26201

FORM WW-6

COUNTY NAME PERMIT

12/09/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Vertical Well Work Permit API : (47-085-10444) Official Copy

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Thu, Dec 1, 2022 at 5:28 PM

To: Gene Smith <genesmith17@gmail.com>, Arlene Mossor <amosor@wvassessor.com>, Isaiah M Richards <isaiah.m.richards@wv.gov>

Cc: patrickabrake@aol.com

I have attached a copy of the newly issued well [permit](#) numbers:

47-085-10444 - NORMA SMITH 1

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE


Charleston, WV 25304


(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

 **47-085-10444 - Copy.pdf**
1860K

 **IR-26 Blank.pdf**
169K

12/09/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Vertical Well Work Permit API : (47-085-10444) Official Official Copy

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Dec 7, 2022 at 10:35 AM

To: Gene Smith <genesmith17@gmail.com>, Arlene Mossor <amossor@wvassessor.com>, Isaiah M Richards <isaiah.m.richards@wv.gov>

Cc: patrickabrake@aol.com, Jeffrey McLaughlin <jeffrey.w.mclaughlin@wv.gov>, James P Kennedy <james.p.kennedy@wv.gov>

Resending due to no plat was present in the scanned copy.


Attached is the official copy of the permit approval.

47-085-10444 - NORMA SMITH 1

These will serve as your copy.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

2 attachments **47-085-10444 - Copy.pdf**
13343K **IR-26 Blank.pdf**
169K**12/09/2022**