



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 15, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

WACO OIL & GAS CO., INC.
POST OFFICE BOX 397

GLENVILLE, WV 263510397

Re: Permit approval for 2
47-021-04042-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: 2
Farm Name: MINNEY, EDWIN L.
U.S. WELL NUMBER: 47-021-04042-00-00
Vertical Plugging
Date Issued: 12/15/2022

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date OCT 24, 2022
2) Operator's
Well No. Hannigan-Smith 2
3) API Well No. 47-021 - 0402

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 721' Watershed Mudlick Run
District Glenville County Gilmer Quadrangle Glenville

6) Well Operator Waco Oil & Gas Co Inc 7) Designated Agent Jamie Haga
Address PO Box 397 Address PO Box 397
Glenville WV 26351 Glenville WV 26351

8) Oil and Gas Inspector to be notified Name Stephen E McCoy
Address 13016 Indian Run Rd
Jacksonburg WV 26377
9) Plugging Contractor Name N/A (Waco)
Address _____

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

Free Point and recover casing and tubulars, 6% Gel between plugs

Set Cement plug 5850' to TD (5995' 145' bottom hole plug), Cement plug 4150' to 4350' (100' above top perms) 100' cement plug set at casing cut (3900'+/-), Cement plug 1400' to 1500' (covering Big Lime), Cement Plug from 700' to 800' (salt strata and Elevation)

9 Wm Cement plug from 345' to 435' (8" casing & freshwater protection)

Surface plug from 100' to surface (0), Set monument with API number

RECEIVED
Office of Oil and Gas
OCT 31 2022
WV Department of
Environmental Protection

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

Work order approved by inspector *[Signature]* Date 10/27/22

12/16/2022



Select County: (021) Gilmer

Enter Permit #: 04042

Get Data Reset

Select datatypes: (Check All)

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/ShowWater Logs Bm Hole Loc

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

Report Time: Thursday, December 15, 2022 9:24:00 AM

12/16/2022

Well: County = 21 Permit = 04042 [Link to all digital records for well](#)

Location Information: [View Map](#)

API	COUNTRY	PERMIT	TAX DISTRICT	QUAD	75	QUAD	15	LAT	DD	LO	DD	UTME	UTMN
4702100402	Gilmer	4042	Glenville	Glenville	Glenville	38.92999	-80.778352	519211.8	4309020.8				

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	TMM_EST_PR
4702100402	8/1/1983	Original Loc	Completed	Edwin Milneay		2		Hannigan Smith			Eastern American Energy Corp.				
4702100402	8/1/1983	Plugging	Cancelled	IL Morris		2					Ross, Mike				

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	P_AFT	TI_AFT	BR_P
4702100402	8/1/1983	8/1/1983	721	Ground Level	Glenville N Brailer	Brailer	Brailer	Development Well	Development Well	Gas	Rotary	Fractured	5995	5995	5995	0	219	0	0	0	0	0	0	0	0	

Comment: -/- Plugging cancelled on DEP site as of 6/11/2020

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH	TOP	FM	FM	TOP	DEPTH	BOT	FM	BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4702100402	8/1/1983	Pay	Gas	Vertical	6,361	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	8/1/1983	Pay	Gas	Vertical	4287	Benson	5644	Brailer	0	0	0	0	0	0	0	0	0	0

Production Gas Information: (Volumes in Mcf)

API	PRD_YEAR	ANM_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702100402	1983	6,361	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1984	14,437	1,033	1,173	725	1,119	1,215	1,119	1,200	1,250	1,43	1,189		
4702100402	1985	13,291	1,303	455	1,263	1,192	581	1,388	1,340	1,086	1,313	648	1,523	1,191
4702100402	1986	12,463	923	876	877	1,021	1,225	1,595	1,192	1,130	988	521	995	
4702100402	1987	11,169	1,059	901	905	959	1,114	1,030	886	1,089	1,001	927	713	585
4702100402	1988	5,538	676	607	800	956	0	0	0	1,280	1,219	0	732	0
4702100402	1989	6,380	834	140	0	509	582	634	680	691	661	661	425	732
4702100402	1990	6,321	456	427	597	678	751	786	705	624	747	65	41	444
4702100402	1991	4,387	327	292	549	640	565	532	506	492	484	0	0	0
4702100402	1992	7,902	362	811	1,138	1,000	535	515	478	544	991	328	727	475
4702100402	1993	6,488	445	636	0	567	353	496	544	409	545	448	391	0
4702100402	1994	4,489	736	0	567	353	496	544	409	545	448	391	0	0
4702100402	1995	5,435	445	384	428	445	542	476	457	524	457	376	440	451
4702100402	1996	5,293	507	442	384	442	435	457	430	424	453	458	413	429
4702100402	1997	4,894	424	347	429	468	397	397	430	454	441	415	430	316
4702100402	1998	5,167	392	326	450	450	415	417	443	441	483	441	500	429
4702100402	1999	4,973	437	445	434	386	382	395	384	405	426	441	441	387
4702100402	2000	4,305	420	414	368	411	345	285	306	391	367	376	332	250
4702100402	2001	4,237	327	366	386	368	362	327	345	355	349	391	325	336
4702100402	2002	3,445	363	261	319	266	272	285	311	263	258	287	211	289
4702100402	2003	2,983	316	259	242	198	221	238	231	466	226	220	215	161
4702100402	2004	2,773	156	175	209	221	262	250	229	254	261	242	280	234
4702100402	2005	2,589	85	238	168	216	229	199	289	236	226	244	256	203
4702100402	2006	2,432	222	240	235	240	257	147	176	229	190	186	155	155
4702100402	2007	2,348	227	203	168	202	214	224	203	188	167	179	150	174
4702100402	2008	2,112	233	183	177	184	168	158	157	182	167	179	150	174
4702100402	2009	1,331	95	126	35	116	224	197	132	135	136	118	0	0
4702100402	2010	117	18	36	26	19	13	5	0	0	0	0	0	0
4702100402	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

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

API	PRD_YEAR	ANM_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702100402	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1989	15	0	0	13	2	0	0	0	0	0	0	0	0
4702100402	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4702100402	1998	21	0	0	0	0	21	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_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702104042	Braxton Oil & Gas Corp.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

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
4702104042	Braxton Oil & Gas Corp.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702104042	Braxton Oil & Gas Corp.	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
4702104042	Original Loc	Greenbrier Group	Well Record	1460	Reasonable	174	Reasonable	721	Ground Level		
4702104042	Original Loc	Big Line	Well Record	1532	Reasonable	89	Reasonable	721	Ground Level		
4702104042	Original Loc	Big Injun (Gmbr)	Well Record	1634	Reasonable	172	Reasonable	721	Ground Level		
4702104042	Original Loc	Well	Well Record	2304	Reasonable	20	Reasonable	721	Ground Level		
4702104042	Original Loc	Fibh	Well Record	4274	Reasonable	8	Reasonable	721	Ground Level		
4702104042	Original Loc	Benson	Well Record	5200	Reasonable	0	Reasonable	721	Ground Level		
4702104042	Original Loc	Brallier	Well Record								

Wellbore (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	MCH2	MCH3	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MS
4702104042	1176	6075	G.D.I.N.S.T.*	Y	N	1370	6022	1370	6075	1370	6044	1370	6074	1176	6055	3100	5972	1370	6074	Y	Y	N						

Comment: *logs: caliper, photoelectric absorption

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
 4702104042289G2A.H
 4702104042290E1.H
 4702104042290E2.H
 4702104042290E3.H

- geologic log types:
- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
 - e photoelectric absorption (PE or Pe, etc.)
 - g gamma ray
 - i induction (includes dual induction, medium induction, deep induction, etc.)
 - l lithology
 - m dipmeter
 - n neutron (includes neutron porosity, sidewall neutron-SWN, etc.)
 - o other
 - s sonic or velocity
 - t temperature (includes borehole temperature, BHT, differential temperature, etc.)
 - z spontaneous potential or potential
- mechanical log types:
- b cement bond
 - c caliper
 - o other
 - p perforation depth control or perforate

There is no Plugging data for this well
 There is no Sample data for this well

WW-4A
Revised 6-07

1) Date: October 24 2022
2) Operator's Well Number
Hannigan-Smith 2
3) API Well No.: 47 - 021 - 04042

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>I L Morris</u>	Name <u>N/A</u>
Address <u>PO Box 397</u>	Address _____
<u>Glenville WV 26351</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Stephen E McCoy</u>	(c) Coal Lessee with Declaration
Address <u>13016 Indian Creek Rd</u>	Name <u>N/A</u>
<u>Jacksonburg WV 26377</u>	Address _____
Telephone <u>681-344-3265</u>	_____

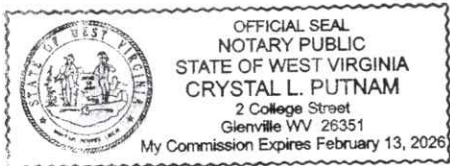
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

RECEIVED
Office of Oil and Gas
OCT 31 2022
WV Department of
Environmental Protection



Well Operator Waco Oil & Gas Co. Inc

By: Jamie Haga

Its: Agent

Address PO Box 397

Glenville WV 26351

Telephone 304-462-5741

Subscribed and sworn before me this 24th day of October, 2022
Crystal L. Putnam Notary Public
My Commission Expires February 13 2026

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

12/16/2022

SURFACE OWNER WAIVER

4702104042P

Operator's Well
Number

Hannigan-Smith 2

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

RECEIVED
Office of Oil and Gas
OCT 31 2022

WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,



Signature

Date 10/24/22 Name _____
By _____
Its _____

Signature _____ Date 12/16/2022

WW-9
(5/16)

4702104042 P

API Number 47 - 021 - 04042

Operator's Well No. Henniger-Smith 2

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

Operator Name Waco Oil & Gas Co Inc OP Code 306294

Watershed (HUC 10) Mudlick Run Quadrangle Glenville

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 WELLS EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING PROPERLY OFF-SITE.

If so, please describe anticipated pit waste: 9 m m

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

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? If so, describe: _____

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

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

Additives to be used in drilling medium? _____

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

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

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) Jamie Haga

Company Official Title Agent

RECEIVED
Office of Oil and Gas
OCT 31 2022
WV Department of Environmental Protection

Subscribed and sworn before me this 24th day of October, 2022

Crystal L Putnam

Notary Public
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CRYSTAL L. PUTNAM
2 College Street
Glenville WV 26351
My Commission Expires February 13, 2026

My commission expires February 13, 2026

12/16/2022

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Contractors Mix	30	Contractors Mix	30

Well area is in a stoned lot

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: Stephen M. Gay

Comments: _____

RECEIVED
Office of Oil and Gas

OCT 31 2022

WV Department of
Environmental Protection

Title: WV Oil & Gas Inspector

Date: 10/27/22

Field Reviewed? () Yes (/) No

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

Operator Name: Waco Oil & Gas Co Inc
Watershed (HUC 10): Mudlick Run Quad: Glenville
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Mudlick Run

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No material will be used.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

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8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

Signature: 

Date: 10/24/2022

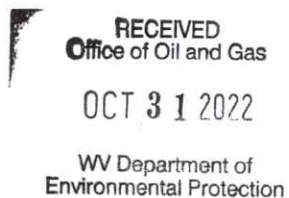


User Notes:

Map created on October 27, 2022

Legend

- Districts
- WVParcels



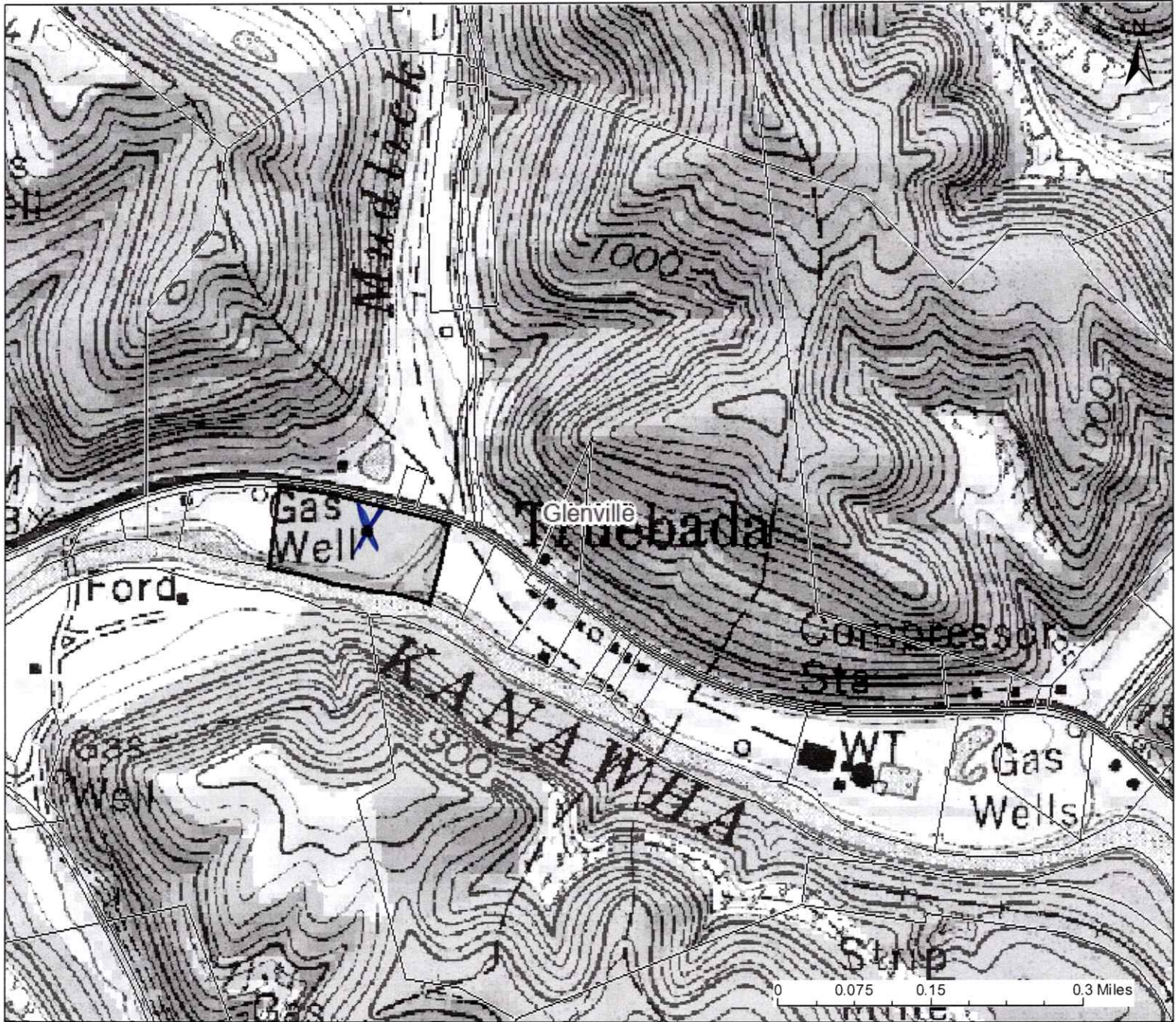
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Owner(s):
No Parcel Selected

Address:
No Parcel Selected

Class Type:
No Parcel Selected

Legal Description:
No Parcel Selected



User Notes:

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Map created on October 24, 2022

Legend

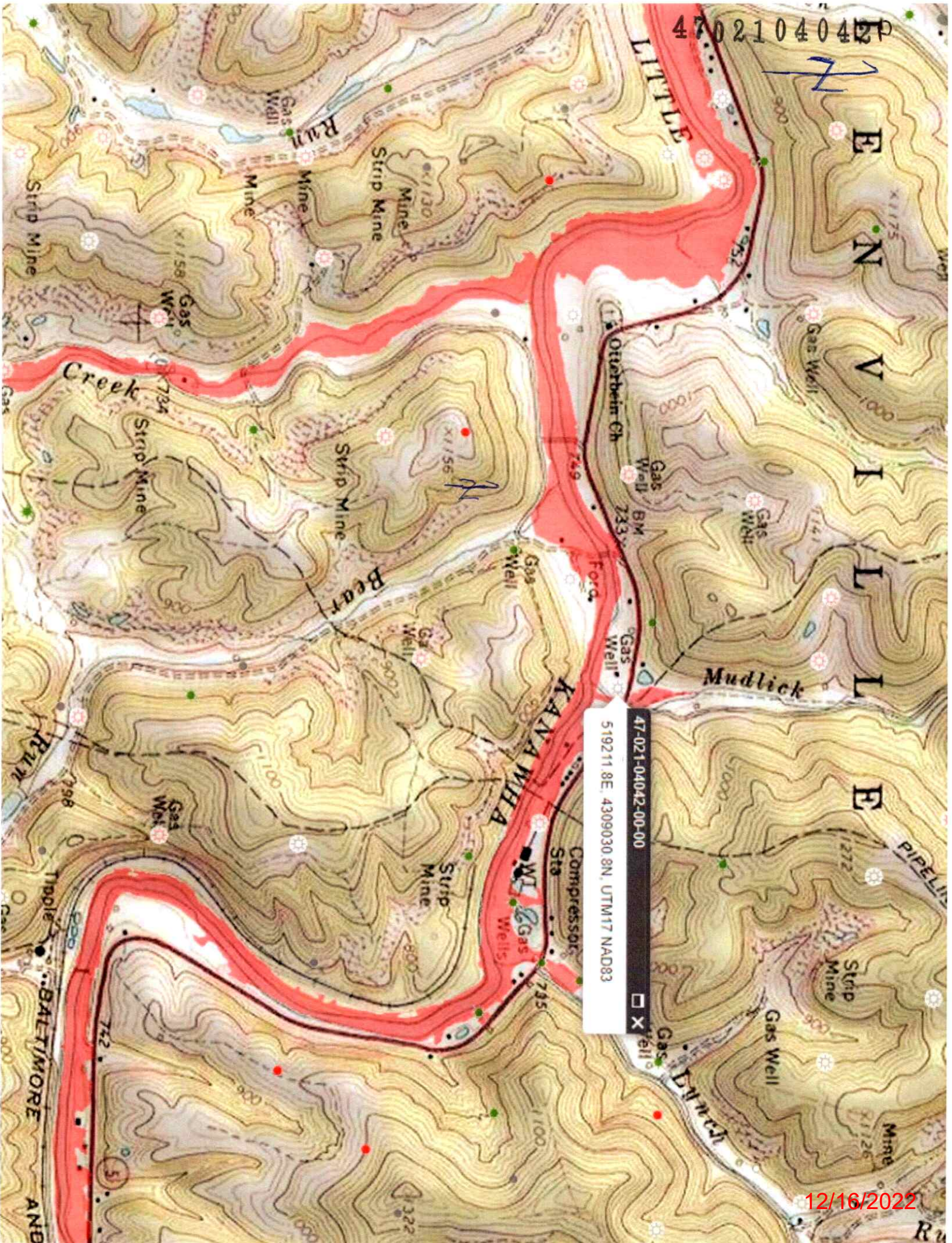
- Districts
- WVParcels

Owner(s):
No Parcel Selected

Address:
No Parcel Selected

Class Type:
No Parcel Selected

Legal Description:
No Parcel Selected



4702104042P



47-021-04042-00-00
519211 8E, 4309030 8N, UTM17 NAD83

12/16/2022



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

API: 47-021-04042 WELL NO.: 2

FARM NAME: Hannigan Smith

RESPONSIBLE PARTY NAME: Jamie Haga

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Glenville

SURFACE OWNER: I L Morris

ROYALTY OWNER: _____

UTM GPS NORTHING: 4309030.8

UTM GPS EASTING: 519211.8 GPS ELEVATION: 721'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____

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4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.


Signature

Agent
Title

10/24/2022
Date



4702104042P

IV-35
(Rev 8-81)

Date September 21, 1983
Operator's Hannigan-Smith #2
Well No. _____
Farm Hannigan Smith
API No. 47 - 021 - 4042

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 ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 721 Watershed Mudlick Run
District: Glenville County Gilmer Quadrangle Glenville 7.5

COMPANY Eastern American Energy Corporation
ADDRESS P. O. Box N, Glenville, WV 26351
DESIGNATED AGENT Donald C. Supcoe
ADDRESS P. O. Box N, Glenville, WV 26351
SURFACE OWNER Edwin L. Minney
ADDRESS RT. 76, Box 27, Glenville, WV 26351
MINERAL RIGHTS OWNER E. Paul Floyd, et al
ADDRESS 228 Marshall St., Duxbury, MA 02332
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Rt. 1, Box 65 Sandridge, WV 25274

PERMIT ISSUED 05/25/83 RECEIVED Office of Oil and Gas
DRILLING COMMENCED 08/09/83
DRILLING COMPLETED 08/15/83 **OCT 31 2022**

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20'	--	--
13-10"			
9 5/8			
8 5/8	435'	435	Surface
7			
5 1/2			
4 1/2	5990	5990	667 ³ /ft.
3			
X 2 1/2"	---	4247	---
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 4925 feet
Depth of completed well 5995 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 87 feet; Salt -- feet
Coal seam depths: --- Is coal being mined in the area? _____

OPEN FLOW DATA
Producing formation Elk, Benson Comingled Pay zone depth 4283-5844 feet
Gas: Initial open flow 10 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 219,000 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1050 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth 12/16/2022 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)

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

Perforate - 32 - 0.41" holes from 4440' to 5844'.

Frac with 1,500,000/SCF of N₂.

Perforate - 8 - 0.39" holes from 4283' - 4287'

Frac - with 10,000# 80/100 and 50,000# 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Redrock, sand and shale			0	1460	Top of E log @ 1366'
Big lime			1460	1535	
Big injun			1535	1634	
Weir			1634	1806	
Sand and shale			1806	2394	
5th Sand			2394	2414	
Sand and shale			2414	4274	
Benson			4274	4300	
Sand and shale			4300	5995	
TD			5995		

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(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By:

[Signature]

12/16/2022

Date:

9/22/83

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."

4702104042F

**PLUGGING PERMIT
APPLICATION
HANNIGAN-SMITH #2
API 47-021-04042**

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OCT 31 2022

WV Department of
Environmental Protection

WACO OIL & GAS CO. INC.

JAMIE HAGA

304-462-5741

Cell 304-844-2327

12/16/2022



Kennedy, James P <james.p.kennedy@wv.gov>

plugging permit issued 4702104042

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Thu, Dec 15, 2022 at 12:43 PM


To: jamie.haga@wacowv.com, Kenneth L Greynolds <kenneth.l.greynolds@wv.gov>, Melissa Jedamski <mjedamski@wvassessor.com>


To whom it may concern, a plugging permit has been issued for 4702104042.

James Kennedy

WVDEP OOG

2 attachments

 **IR-8 4702104042.pdf**
120K

 **4702104042.pdf**
3626K

12/16/2022