



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

Monday, February 27, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 4-S-A-491
47-041-01907-00-00

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

Operator's Well Number: 4-S-A-491
Farm Name: HALL, HARVEY
U.S. WELL NUMBER: 47-041-01907-00-00
Vertical Plugging
Date Issued: 2/27/2023

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4704101907P

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.

03/03/2023

4704101907P

WW-4B
Rev. 2/01

1) Date January 19, 2023
2) Operator's
Well No. Harvey Hall A-481
3) API Well No. 47-041 - 01807

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 X / Gas ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1250 Watershed Polk Creek
District Freemans Creek County Lewis Quadrangle Camden
- 6) Well Operator HG Energy II Appalachia, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Kenneth Greynolds Name To Be Determined Upon Approval of Permit
Address 613 Broad Run Road Address _____
Jane Lew, WV 26378

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

**** See Attached Plugging Manners ****

RECEIVED
Office of Oil and Gas

FEB 02 2023

WV Department of
Environmental Protection

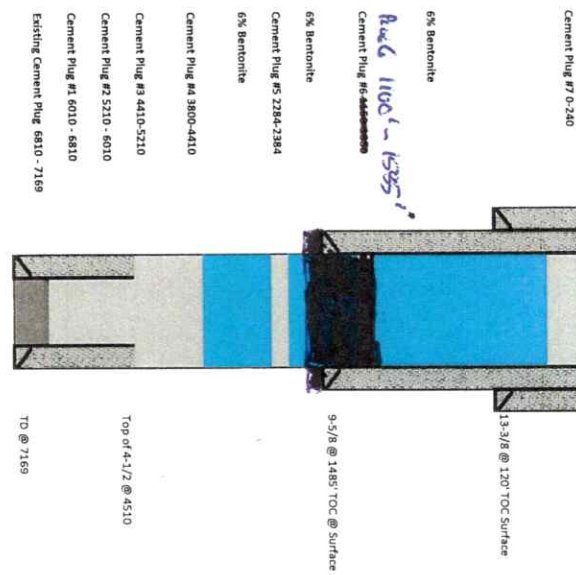
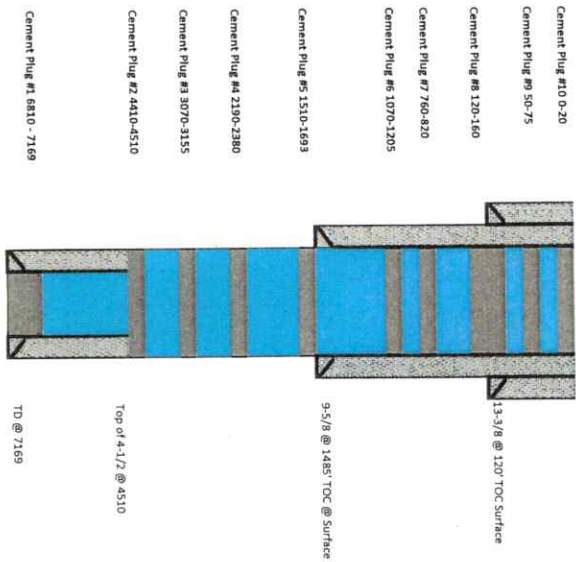
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Kenneth Greynolds Digitally signed by Kenneth Greynolds
DN: cn = Kenneth Greynolds, email = Kenneth.L.Greynolds@dep.gov, c = AD, o = WVDEP, ou = Oil and Gas, ou = WVDEP, ou = WVDEP Date _____

03/03/2023

API No: 47-041-01907
 Farm: Harvey Hill
 Well #: A-491
 County: Lewis
 TD: 7206
 Elevation: 1250
 Water: 55' 140'
 Coal: None encountered per Well Record
 Casing: 13-3/8 @ 120' TOC Surface
 9-5/8 @ 1485' TOC @ Surface
 4-1/2 Top @ 4510

Oil & Gas Show @ 1110'
Gas Show @ 2384'
100m



PLUGGING PROCEDURE

- 1 Clean Out to last cement plug @ ~~6810~~ **6810'**
- 2 Run Tubing to TD
- 3 Establish Circulation w/ Fresh Water, Load Hole w/ Fresh Water
- 4 Set Cement Plug #1 (Balanced Plug), TOOH
- 5 Tag TOC
- 6 TH, Set Cement Plug #2 (Balanced Plug), TOOH
- 7 Set Cement Plug #3 (Balanced Plug), TOOH
- 8 Tag TOC
- 9 TH, Set Cement Plug #4 (Balanced Plug), TOOH
- 10 Tag TOC
- 11 TH, Set Cement Plug #5 (Balanced Plug), TOOH
- 12 Tag TOC
- 13 Set Cement Plug #6 (Balanced Plug), TOOH
- 14 Tag TOC
- 15 Set Cement Plug #7 (Balanced Plug), TOOH
- 16 Install Monument

Digitaly signed by Kenneth Greynolds
 Kenneth Greynolds
 Greynolds@wv.gov C = AO O = WVDEP OU = OH and Gas
 Date: 2023.01.27 13:50:20 -0500

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 Office of Oil and Gas
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 WV Department of
 Environmental Protection

03/03/2023

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NOV 25 1974

FORM 00-4

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Elmer C. & Dorothy Cox
Rt. 4 COAL OPERATOR OR OWNER
Weston, WV 26452
ADDRESS

Allegheny Land & Mineral Co.
P.O. Box NAME OF WELL OPERATOR 1740
Clarksburg, WV 26301
COMPLETE ADDRESS

COAL OPERATOR OR OWNER

November 15, 1974
WELL AND LOCATION

ADDRESS

Freemans Creek District

Sara
LEASE OR PROPERTY OWNER

Lewis County

ADDRESS

Well No. A-491

Harvey Hall Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert Bates

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Lewis } ss:

Charles Lamp and Ray Reed
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Allegheny Land & Mineral Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 23 day of October, 1974, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			COG PULLED	COG LEFT IN
<u>Oriskany Sand</u>	<u>Cement - 7206' - 6810'</u> <u>Aquagel - 6810' - 4510'</u>			
<u>Benson Sand</u>	<u>Cut casing 4 1/2" at 4510'</u> <u>Cement - 4510' - 4410'</u>		<u>4510'</u>	<u>2659' - 4 1/2"</u>
<u>Sand</u>	<u>Aquagel - 4410' - 3155'</u> <u>Cement - 3155' - 3070'</u>		<u>XRX</u>	<u>120' - 13"</u>
<u>Fifth Sand</u>	<u>Aquagel - 3070' - 2380'</u> <u>Cement - 2380' - 2190'</u>			<u>1485' - 9-5/8"</u>
<u>Injun Sand</u>	<u>Aquagel - 2190' - 1633'</u> <u>Cement - 1633' - 1510'</u>			
<u>Oil & Gas Show</u>	<u>Aquagel - 1510' - 1205'</u> <u>Cement - 1205' - 1070'</u>			
	<u>Aquagel - 1070' - 820'</u> <u>Cement - 820' - 760'</u>			
	<u>Aquagel - 760' - 160'</u>			
COAL SEAMS	<u>Cement - 160' - 120'</u>			
(NAME)	<u>Aquagel - 120' - 75'</u>			
(NAME)	<u>Cement - 75' - 50'</u>			
(NAME)	<u>Aquagel - 50' - 20'</u>			
(NAME)	<u>Cement - 20' - surface</u>			
			DESCRIPTION OF MONUMENT	
			<u>Erect marker in accordance with Rule 14</u>	

and that the work of plugging and filling said well was completed on the 7th day of November, 1974

And further deponents saith not.

Sworn to and subscribed before me this 21st day of November, 1974

My commission expires:
April 14, 1977

Charles W Lamp
Ray Reed
Notary Public

Permit No. LEW-1907-P

4704101907P

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OCT 29 1974

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S PLUGGING REPORT

Permit No. Lew-1907Well No. A-491

COMPANY Allegheny Land and Mineral Co. ADDRESS Box 1740, Clarksburg, W.Va. 26301
FALLS Harvey Hall DISTRICT Freemans Creek COUNTY Lewis

Filling Material Used _____

Liner		Location	Amount	Packer	Location	
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE
7206-6810	Cement	35 sacks			4510	4 1/2"
6810-6500	Gel					
6500-6400	Cement	34 sacks				
6400-4510	Gel					
4510-4410	Cement	34 SACKS				
4410-2380	Gel					
2380-2290	Cement	30 sacks				
2290-1633	Baroid and Gel	12 sacks Baroid				
1633-1500	Baroid and cement	60 sacks				

Drillers' Names Claron Dawson in chargeLarry Butcher; Halliburton Engineer

Remarks:

Decision was made to remove all the 4 1/2" casing and run a Test on the Fifth Sand. Consol Gas Supply may take over the well and produce it.

10-21-74

~~10-21-74~~

10-25-74

I hereby certify I visited the above well on this date.

Robert Bates
DISTRICT WELL INSPECTOR

DISTRICT WELL INSPECTOR

03/03/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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MAY 29 1973

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. LCW-1907

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Allegany Land & Mines</u>	Size			
Address <u>Clarksburg, W. Va.</u>	<u>20"</u>	<u>8'</u>	<u>1000' from surface</u>	
Farm <u>Harry Hill</u>	<u>13</u>	<u>119'</u>	<u>1000' from surface</u>	
Well No. <u>4 (A-491)</u>	<u>9 5/8"</u>	<u>1498'</u>	<u>690' from surface</u>	
District <u>Greenock County, Lewis</u>	<u>8 1/4"</u>			
Drilling commenced <u>5-3-73</u>	<u>6 3/16"</u>			Depth set _____
Drilling completed _____ Total depth _____	<u>3</u>			Perf. top _____
Date shot _____ Depth of shot _____	<u>2</u>			Perf. bottom _____
Initial open flow _____ /10ths Water in _____ Inch	Liners Used			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch				Perf. bottom _____
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Block pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water <u>6.5</u> feet <u>140</u> feet	_____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES			

Drillers' Names Luedin - Zschygar - Alderman
Chris - Daly Co - Potay

Remarks:
They are having problems at 6603ft. Drill Pipe has too much torque when rotating, they was stuck. Got loose in that when 5-25-73 got the torque back at 6603 45/10 thru 2"

Big Tom 1469-1540
Lyon 1540-1630
Hew 1653-1665
6th 2326-2750
Densen 4248-4269
Lucy Limp 6493-6575
Marshall shale 6515
Paul [Signature]
DISTRICT WELL INSPECTOR

39-15
9-24
(A)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Vadis

WELL RECORD

Permit No. LW-1907

Oil or Gas Well Gas

Company <u>Allegheny Land & Mineral Co.</u>	Casing and Tubing	Set in	Left in	Packers
Address <u>P.O. Box 1479 Clarksburg, W. Va.</u>	Size			
Farm <u>Harvey Hall</u> Acres <u>225</u>	16 20"	8'	8'	Kind of Packer
Location (waters) <u>Dry Fork of Polk Creek</u>	13	120'	120'	
Well No. <u>A-491</u> Elev. <u>1250</u>	10 9-5/8"	1485'	1485'	Size of
District <u>Freemans Creek</u> County <u>Lewis</u>	8 3/4			Depth set
The surface of tract is owned in fee by <u>Elmer C. Coz</u>	6 3/4			
<u>Weston, W. Va.</u> Address <u>Route 4</u>	5 3/16			Perf. top
Mineral rights are owned by <u>Consolidated Gas Supply Corporation</u>	4 1/2	7169'	7169'	Perf. bottom
Address <u>Clarksburg, W. Va.</u>	3			Perf. top
Drilling commenced <u>May 3, 1973</u>	2			Perf. bottom
Drilling completed <u>May 28, 1973</u>	Liners Used			
Date Shot From To				
With				

Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 189,000 Cu. Ft.
 Rock Pressure 2150 lbs. hrs.
 Oil _____ bbls. 1st 24 hrs.
 WELL ACIDIZED (DETAILS) _____
 WELL FRACTURED (DETAILS) _____

Attach copy of cementing record.
 CASING CEMENTED 4 1/2" SIZE 905 No. FL-5-29-73 Date _____
 Amount of cement used (bags) 290
 Name of Service Co. Halliburton
 COAL WAS ENCOUNTERED AT _____ FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) Could not get accurate test
 ROCK PRESSURE AFTER TREATMENT 2175# HOURS 144
 Fresh Water 65 Feet Est. 1 1/2" stream Water _____ Feet
 Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	8			
Red Rock			8	65	Water	65	Show
Shale & Red Rock			65	154	Water	140	Est. 1 1/2" stream
Sand			154	167			
Shale			167	180			
Shale & Red Rock Sand			180	213			
Shale & Red Rock			213	300			
Sand & shale			300	572			
Sand White			572	790			
Shale & sand			790	829			
Sand Gray			829	982			
Shale			982	995			
Sand & shale			995	1108			
Sand			1102	1175	Oil & Gas	1110	Show
Shale			1175	1258			
Red Rock & shale			1258	1406			
Sand & shale			1406	1427			
Lime			1427	1444			
Pencil cave			1444	1469			
Big Lime			1469	1540			
Injun sand			1540	1603			
Sand			1603	1630			
Sand & shale			1630	1653			
Sand			1653	1665			
Sand & shale			1665	2103			
Sand			2103	2130			
Sandy shale			2130	2177			
Sand			2177	2191			
Sand & shale			2191	2320			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Dep't Found	Remarks
Sand & shale	5th	sand	2320	2348	Gas	2348	100 M
Sand & shale			2348	2750			
Sand	Gray		2750	2768			
Sand & shale			2768	3104			
Sand			3104	3125			
Sand & shale			3125	4170			
Benson sand			4170	4200			
Sand & shale			4200	4248			
Benson sand			4248	4269			
Sand & shale		Med.	4269	5180			
Sand & shale		Soft	5180	6375			
Lime & shale			6375	6472			
Tulley Lime			6472	6590			
Shale			6590	6728			
Onondaga Lime			6728	6790			
Chert			6790	7040			
Oriskany			7040	7122			
Helderberg Lime			7122	7206			
Total depth				7206			
4 1/2" Casing perforated:							
		1 hole					
7111	--	1					
7096	--	1					
7094	--	1					
7082	--	1					
7080	--	1					
7091	--	1					
7049	--	1					
7048	--	1					
6995	--	1					
6964	--	1					
6947	--	1					
6924	--	1					
6907	--	1					
6868	--	1					
6859	--	1					
6842	--	1					

Date July 11, 1973

APPROVED Allegheny Land & Mineral Co. Owner

By Claron Dawson, Supt.
(Title)



Select County: (041) Lewis

Enter Permit #: 01907

Get Data Reset

Select datatypes: (Check All)

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

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

WV Geological & Economic Survey

Location Information: [View Map](#)

Well: County = 41 Permit = 01907 [Link to all digital records for well](#)

Report Time: Monday, February 27, 2023 11:26:21 AM

API: 4704101907 COUNTY: PERMIT: 1907 TAX: DISTRICT: 1907 QUAD: 75 QUAD: 15 LAT: DD: LON: DD: UTM: UTM:

4704101907 Levis 1907 Freemans Creek Camden Vads 39.053964 -80.329141 540736.1 4323294.7

API: 4704101907 CMP: DT: 5/1/1973 STATUS: Completed SURFACE: OWNER: Hervey Hill WELL: NUM: 4 LEASE: LEASE: NUM: 4 A-491 OPERATOR: ALLEGHENY Land and Mineral Co.

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	P	AFT	TI
4704101907	5/1/1973	5/1/1973	1250	Ground Level	Murphy Creek	Helderberg	6842	Huntersville	Chert	6995	Huntersville	Chert	7111	Oriskany	0	0	189	Gas w/ Oil	Shallow	7206	7206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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
4704101907	5/1/1973	5/1/1973	Water	Fresh Water	Vertical	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	5/1/1973	5/1/1973	Water	Fresh Water	Vertical	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	5/1/1973	5/1/1973	Pay	Gas	Vertical	7048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Production Gas Information: (Volumes in Mcf)

API	PRD	YEAR	AWN	GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4704101907	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1995	0	0	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	AWN	OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4704101907	1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4704101907	1995	0	0	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	SUF	FX	FM	QUALITY	DEPTH	TOP	DEPTH	QUALITY	THICKNESS	THICKNESS	QUALITY	ELEV	DATUM
4704101907	Original	Loc	Little	Well Record	1427	Reasonable	17	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Perini	Well Record	1444	Reasonable	25	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Big Lime	Well Record	1451	Reasonable	160	Reasonable	1250	Kelly Bushing	1250	Ground Level	
4704101907	Original	Loc	Granbiter	Well Record	1469	Reasonable	134	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Big Lime	Well Record	1486	Reasonable	71	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Undr PRCE	Well Record	1540	Reasonable	63	Reasonable	1250	Kelly Bushing	1250	Ground Level	
4704101907	Original	Loc	Undr PRCE	Well Record	1611	Reasonable	211	Reasonable	1250	Kelly Bushing	1250	Ground Level	
4704101907	Original	Loc	Filly-foot	Well Record	1822	Reasonable	21	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Filly-foot	Well Record	1848	Reasonable	8	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Gordon	Well Record	2034	Reasonable	159	Reasonable	1250	Kelly Bushing	1250	Ground Level	
4704101907	Original	Loc	Fifth	Well Record	2320	Reasonable	28	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Bayard	Well Record	2402	Reasonable	17	Reasonable	1250	Ground Level	1250	Ground Level	
4704101907	Original	Loc	Base of Warren	Well Record	2738	Reasonable	0	Reasonable	1250	Ground Level	1250	Ground Level	

03/03/2023

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAILABLE	SCAN	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_MSRL	FROM
4704101907	Original Loc	Up Speechley																											
4704101907	Original Loc	Speechley																											
4704101907	Original Loc	Balltown																											
4704101907	Original Loc	Riley																											
4704101907	Original Loc	Berston																											
4704101907	Original Loc	Alexander																											
4704101907	Original Loc	Sycamore																											
4704101907	Original Loc	Driller's Tully																											
4704101907	Original Loc	Genesee Fm																											
4704101907	Original Loc	Marcellus Fm																											
4704101907	Original Loc	Onondaga Ls																											
4704101907	Original Loc	Huntersville Chert																											
4704101907	Original Loc	Onskany																											
4704101907	Original Loc	Heldenberg																											

Wireline (E-Log) Information:

Scanned/Paper Log Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAILABLE	SCAN	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_MSRL	FROM
4704101907	80	7240																											
Scanned/Paper Comment:																													

* There is no Digitized Log data for this well

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](#)

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
 - j induction (includes dual induction, medium induction, deep induction, etc.)
 - l laterallog
 - 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

*other 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

Scanned Logs

FILENAME
4704101907DFC_a.HH
4704101907L.HH
4704101907P.HH
4704101907L.HH

Plugging Information:

API	PLG_DT	DEPTH_PBT
4704101907	11/7/1974	0

There is no Sample data for this well

1) Date January 19, 2023
2) Operator's
Well No. Harvey Hall A-491
3) API Well No. 47-041 - 01907

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 / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow
- 5) Location: Elevation 1250 Watershed Polk Creek
District Freemans Creek County Lewis Quadrangle Camden
- 6) Well Operator HG Energy II Appalachia, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Kenneth Greynolds Name To Be Determined Upon Approval of Permit
Address 613 Broad Run Road Address _____
Jane Lew, WV 26378 _____

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

**** See Attached Plugging Manners ****

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Office of Oil and Gas

FEB 02 2023

WV Department of
Environmental Protection

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

Work order approved by inspector _____ Date _____

03/03/2023

4704101907P

WW-4A
Revised 6-07

1) Date: January 19, 2023
2) Operator's Well Number
Harvey Hall A-491

3) API Well No.: 47 - 041 - 01907

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>Nancy & Ronald Smith</u>	Name <u>NA</u>
Address <u>7591 Good Hope Pike</u>	Address _____
<u>Lost Creek, WV 26385</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ken Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name <u>NA</u>
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</u>	_____

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

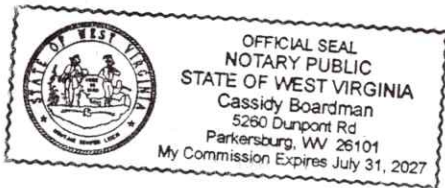
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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

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

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Well Operator	<u>HG Energy II Appalachia, LLC</u>	<u>FEB 02 2023</u>
By:	<u>Diane White <i>Diane White</i></u>	<u>WV Department of</u>
Its:	<u>Agent</u>	<u>Environmental Protection</u>
Address	<u>5260 Dupont Road</u>	
	<u>Parkersburg, WV 26101</u>	
Telephone	<u>304-420-1119</u>	



Subscribed and sworn before me this 20th day of JANUARY 2023

My Commission Expires 7/31/2027 *Cassidy Boardman* Notary Public

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 depprivacyoffier@wv.gov.

03/03/2023

4704101907P

7021 0350 0001 5706 7967

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT <i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ _____	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$ _____	
Total Postage and Fees \$ _____	
Sent To <u>Nancy and Ronald Smith</u>	
Street and Apt. No., or PO Box No. <u>7591 Good Hope Pike</u>	
City, State, ZIP+4® <u>Lost Creek WV 26385</u>	
PS Form 3800, April 2015 PSN 7530 02-000-9047 See Reverse for Instructions	

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 Office of Oil and Gas
 FEB 02 2023
 WV Department of
 Environmental Protection

03/03/2023



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

4704101907P

January 19, 2023

Nancy & Ronald Smith
7591 Good Hope Pike
Lost Creek, WV 26385

RE: Harvey Hall A-491 (47-041-01907)
Freemans Creek District, Lewis County
West Virginia

Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work (plugging) permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane White

Enclosures

cc - Ken Greynolds – WV DEP State Inspector

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FEB 02 2023
WV Department of
Environmental Protection

03/03/2023

SURFACE OWNER WAIVER

Operator's Well
Number

Harvey Hall A-491

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

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

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

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date
03/03/2023

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FEB 02 2023
WV Department of
Environmental Protection

4704101907P

WW-9
(5/16)

API Number 47 - 041 - 01907
Operator's Well No. _____

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

Operator Name HG Energy II Appalachia, LLC OP Code 494519932

Watershed (HUC 10) Polk Creek Quadrangle Camden

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: NA

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 No fluids or waste is anticipated. Any well effluent found will be disposed of at an authorized disposal site.) _____

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

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

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

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. If any, remove to approved offsite disposal **RECEIVED**
Office of Oil and Gas

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

-Landfill or offsite name/permit number? NA

FEB 02 2023

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected to a 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. **WV Department of Environmental Protection**

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

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

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 20th day of January, 2023

Conrad Bad Notary Public

My commission expires 7/31/2027



Proposed Revegetation Treatment: Acres Disturbed .5 acre Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10/20/20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Latino Clover	5	Latino Clover	5

**** Sediment Control Will Be In Place At All Times ****

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: Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
 Date: 2023.01.27 13:44:51 -0500

Comments: _____

Title: _____ Date: _____

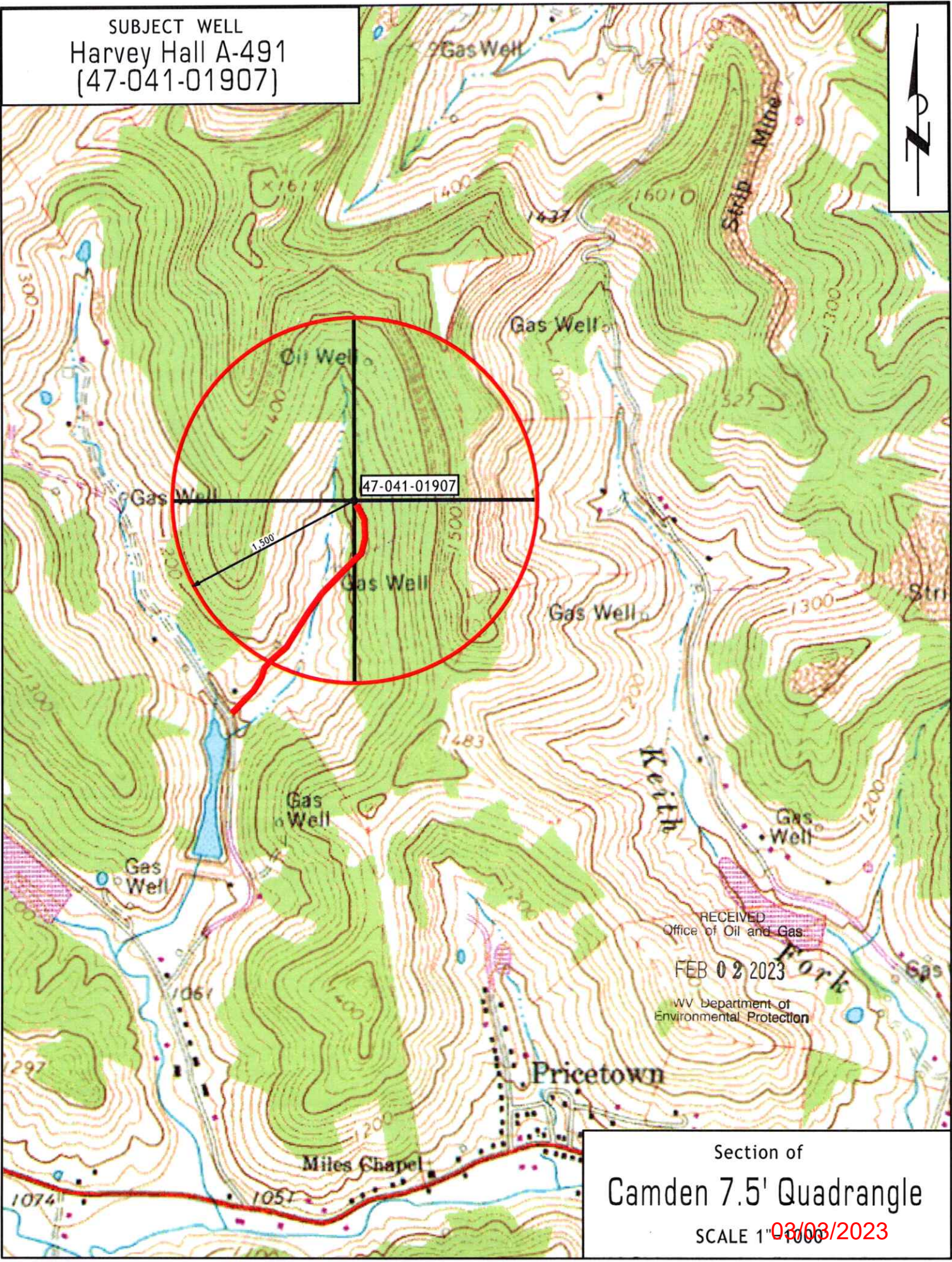
Field Reviewed? () Yes () No

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WV Department of
Environmental Protection

SUBJECT WELL
Harvey Hall A-491
(47-041-01907)



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Section of
Camden 7.5' Quadrangle
SCALE 1" = 1000'

03/03/2023

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 041 - 01907 WELL NO: A-491

FARM NAME: Harvey Hall

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Lewis DISTRICT: Freemans Creek

QUADRANGLE: Camden 7.5'

SURFACE OWNER: Nancy & Ronald Smith

ROYALTY OWNER: HG Energy, LLC et al.

UTM GPS NORTHING: 4,323,983

UTM GPS EASTING: 540,699 GPS ELEVATION: 376 m.

1232'

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

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

Survey Grade GPS Post Processed Differential
Real-Time Differential

Mapping Grade GPS Post Processed Differential
Real-Time Differential

*7591 Good Hope
Pike
Lost Creek
WV
26385*

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.

Diane C. White Diane C. White
Signature

Designated Agent
Title

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FEB 02 2023
WV Department of
Environmental Protection

December 28, 2022
Date

03/03/2023



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

4704101907P

January 19, 2023

Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

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Office of Oil and Gas

FEB 02 2023

WV Department of
Environmental Protection

RE: Harvey Hall A-491 (47-041-01907)
Freemans Creek District, Lewis County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, WW-7, OP-77-A, topo map, well record and copy of certified mailing receipt for a plugging application. This well was plugged in 1974. As a part of an Area Review in preparation for the Scranage 1204 drilling program the well will be replugged to avoid any possible communication with the 1204 wells. The well is being added to HG's bond for the duration of the plugging activity.

Please let me know if you have any questions or need further information. I can be reached at 304-420-1119 or dwhite@hgenergyllc.com.

Yours Truly,

Diane White

Diane White

Enclosures

cc: Nancy & Ronald Smith – Certified
Ken Greynolds – WV DEP State Inspector

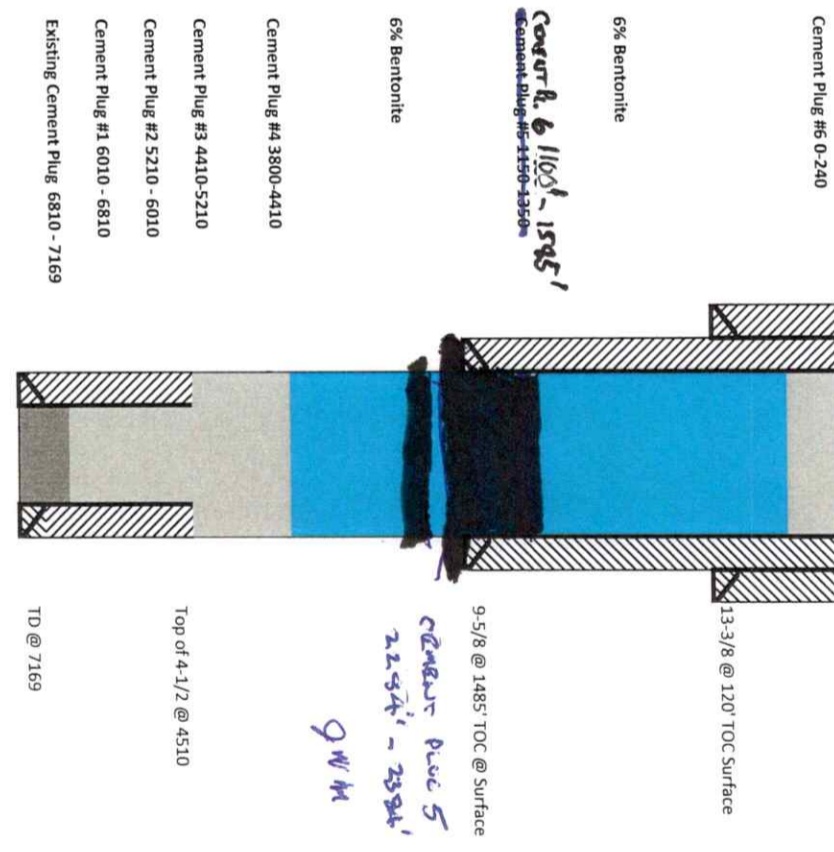
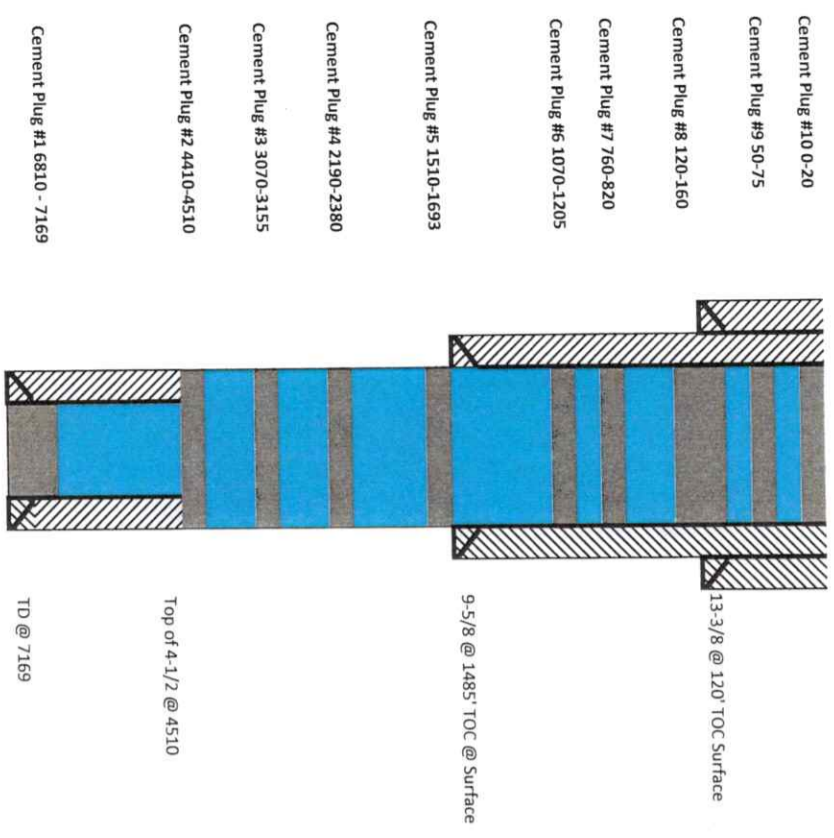
03/03/2023

API No: 47-041-01907
 Farm: Harvey Hall
 Well #: A-491
 County: Lewis
 TD: 7206
 Elevation: 1250
 Water: 65', 140'
 Coal: None encountered per Well Record
 Casing: 13-3/8 @ 120' TOC Surface
 9-5/8 @ 1485' TOC @ Surface
 4-1/2 Top @ 4510

*Oil & Gas Show @ 1100'
 Gas Show @ 2348' 100M*

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 WV Department of
 Environmental Protection

CURRENT WELLBORE



PLUGGING PROCEDURE

- 1 Clean Out to last cement plug @ 6180'
- 2 Run Tubing to TD
- 3 Establish Circulation w/ FW, Load Hole w/ FW
- 4 Set Cement Plug #1 (Balanced Plug), TOOH
- 5 Tag TOC
- 6 T1H, Set Cement Plug #2 (Balanced Plug), TOOH
- 7 Set Cement Plug #3 (Balanced Plug), TOOH
- 8 Tag TOC
- 9 T1H, Set Cement Plug #4 (Balanced Plug), TOOH
- 10 Tag TOC
- 11 T1H, Set Cement Plug #5 (Balanced Plug), TOOH
- 12 Tag TOC
- 13 Set Cement Plug #6 (Balanced Plug), TOOH
- 14 Install Monument

03/03/2023



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

plugging permit issued 4704101907

1 message

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

Mon, Feb 27, 2023 at 1:52 PM


To: Diane White <dwhite@hgenergyllc.com>, Kenneth L Greynolds <kenneth.l.greynolds@wv.gov>, jbreen@assessor.state.wv.us


To whom it may concern, A plugging permit has been issued for 4704101907.

James Kennedy

WVDEP OOG

2 attachments

 **ir-8 4704101907.pdf**
120K

 **4704101907.pdf**
2843K

03/03/2023