

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

February 22, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301769, issued to HG ENERGY, LLC, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Chief

James Martin

Operator's Well No: 6

Farm Name: HORSE CREEK TRACT C

API Well Number: 47-4301769 Permit Type: Plugging

Date Issued: 02/22/2016

WW-4B Rev. 2/01

1) Date_January 22, 20_16	_
2)Operator's	
Well No. Horse Creek Tract "C" 6	
3) API Well No. 47-043 - 1769	_

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil <u>X</u> / Gas <u>X</u> / Liquid (If "Gas, Production X or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 930'	Watershed Laurel Fork
	District Duval	County Lincoln Quadrangle Garrett's Bend 7.5'
6)	Well Operator HG Energy, LLC Address 5260 Dupont Road	7)Designated Agent Diane White Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified Name Jeremy James Address P. O. Box 36 Clendenin, WV 25045	9) Plugging Contractor Name To Be Determined Upon Approval of Permit Address
	** See Attach	ed Sheet ** FEB 10 2016 Office of Oil and Gas WV Dept. of Environmental Protection
	fication must be given to the district oi can commence.	l and gas inspector 24 hours before permitted
Work	order approved by inspector	Date 1-26-/6

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B - Conti Rev. 2/01

1) 2)	Date: Ja Operator's Well Horse Creek				
3)	API Well No:	47 -	043	-	1769
•		State	County		Permit

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	(If "Ga	x s", Pr	_Gas oduction	X	_Liquid Injec _Undergroun			_Waste Di) Deep	-	Sha	illow _	х
5)	LOCATION:		vation: trict:		930' Duval		_Watershed: _County:		Laurel Fork Lincoln		Quadran	gle	Garre	tt's Bend 7.5'
6)	WELL OPERAT Address	OR:	5260 D	upon			494497948	7)	DESIGNAT	ED AGENT Address	526		pont R	oad V 26101
8)	OIL & GAS INS Name Address	Jere P. C	TOR TO my Jame D. Box 36 ndenin, V	es S				9)	PLUGGING Name Address			Jpon	Approv	al of Permit
•	WORK ORDER	: Th	e work o	order f	or the manne	r of plu			as follows:	1\2	300			

Plug #1 - 2300 - 2200 7460 - 2300 Tag plug + rest if Free point, part and pull 4 1/2" casing at approx 1850' if anable to pull, Set 10047 Cement play over Plug # 2 - Approx. 1900' - 1800'
Located at 4 1/2" casing stub
Plug #3 - 975' - 875'

Plug #3 - 975' - 875'

Located at elevation

Plug #4 - 325' - 0'

Located at 8 5/8" casing stub, fresh water to surface

Recover all possible casing. If casing can not be recovered, perforate for plug placement.

Monument -6" minimum diameter metal pipe 30" above surface 10' in well below surface Sealed with cement API identification (1/2") height numbering

6% Gel between all plugs

Monument to extend 30" above surface. 10' Well: Horse Creek Tract C #6 into well. 6" min metal pipe, sealed with cement. API i.D. 913' Elevation: 175 sacks cement to surface Casing Information 4 Size Depth Weight 4 Freepoint Cut and Pull Casing 8 5/8" 282' 20#/ft. 4 1/2" 2470' 10.5#/ft. Size Approx. Depth 1850' 4 1/2 Hole Size 6.75" \rightarrow Cement Plugs NO. Bottom Top -2300 24a 2200 2300 1 2 1900 1800 3 975 875 4 325 0 5 3 **Bottom Hole Cement Level Calculations** # Sacks Used Cement Depth 75 2015.619 Hole Size **Casing Size** Depth 6.75 4.5 2476 2 bbls / ft. diameter delta Conv. Factor 25.3125 1029.4 0.02459 cubic ft. per vertical ft. depth 0.138058122 75 Sacks Cement T.O.C. 2015' 4 Sacks per vertical ft. depth 0.162908584 Highest Perforation 2420' 1 Yield options Received 50/50 posmix 6% gel = 1.64 Neat w/ salt flakes = 1.19 FEB 10 2016 50/50 w/ 2% gel = 1.27 TD 2476'

> Office of Oil and Gas WV Dept. of Environmental Protection.



FEB 1 0 2016

Office of Oil and Gas WV Dept, of Environmental Protection

PENNZOIL COMPANY Well Completion Report

Lease: HORSE CREEK TRACT "C" Wel	11 No. 6 New Well X Old Well
District: Duval County: Lincoln	State: West Virginia
Pool Name: <u>Griffithsville Northeast</u> Poo	ol No. 57 Elevation 921,22' KB:XAL
Producing Formation: Berea	Depth: From <u>2413'</u> to <u>2433'</u>
Date Drilled In: April 15, 1977	Pays: 0il: From 2413' to 2433' to
Original Total Depth: <u>2476'</u>	Gas: From 2413' to 2433'
Plug Back Depth: 2456'	From to
Production Initial Pr	resent After Fracture
0il	
Gas 8-578"	
Surface Csg. set 0 288' KB:GK Gr. H-40 N	New:Used Wt. 20# Collars
Cement Reg. Neat Amount 175 Sacks Plug	Down @ 9:00 AM:PXX Date 4/11/77
Production Csg. set @2476.41 KB: GK Gr. ERW	New:Used Wt. 10.50# Collars
Cement 50/50 Posmix Amount 75 Sacks Plug	Down 0 6:00 AM:PM Date 4/15/77
Logged by: Basin Surveys	Date: April 15, 1977
Logs Used: Gamma Ray-Comp. Density-Caliper	***************************************
Perforated by: McCullough	Date: April 21, 1977
Perforations: 2420'-2425' - 4 holes/ft 20	holes
Treatment Data Fluid Sand Acid Solvent Lease	Breaking Fluid F.R. N.E. Gel Agent Loss Agent Agent
Type Crude 20/40 15% HC1 Parathin	15-N
Amount55826,0005001 drum	2
Breakdown Pressure: 2000 Treating Pressure:	Max. 2700 Min. 2500 Avg. 2600
Avg. Inj. Rate 30.0 BPM ISIP 1550 @	12:40 XM:PM 5 min. SIP 1300
Avg. Inj. Rate 30.0 BPM ISIP 1550 @	12:40 AM:PM 5 min. SIP 1300 Other
10 min. SIP 1200 15 min. SIP 1150	

CONFIRMING COMPLETION TICKET

AND DUNEADIZO	CLION LICKET
ANY REMARKS	WRS COMPLETION REPORT 38-15-00 81-50-00 PERMIT 1769
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	API 47-043- 21769-00
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Š.	DTO 2476 PB 2456 FM/TD MISS
	CASING DATA
-	CSG 8 5/8 a 288 W/ 175 4 1/2 a 2476 W/ 75 01 02
	LOCATION DESCRIPTION
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100	SPL BL LIME 1723 810- BBG LIME 1917 1004- BB INJUN 1978 1065- SPL BWEIR 2125 1212- BBEREA 2433 1520-
6	PRODUCTION TEST DATA
	PTU 18BOPD 22MCFD
	BEREA PERF 003
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	FEB 1 0 2016
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WW-4A Revised 6-07

1) Date:	January 22, 2	016		
2) Operator's Horse Creek Tract "C		er		
3) API Well N	o.: 47 -	043	1769	

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

(a) Name Address	Larry & Sue Carroll		tor	
Address		/ Name	NA	
-2002000	P. O. Box 186	Address		
	Sod, WV 25564			
(b) Name	Mark & Arthur Dunlap		Owner(s) with Declara	ation
Address	110 - A. S. R. 19	Name	NA	
	Hurricane, WV25526	Address		
(c) Name		Name	-	
Address		Address		
6) Inspector	Jeremy James	(c) Coal I	essee with Declaration	on
Address	PO Box 36	Name	NA	
	Clendenin, WV 25045	Address	-	
Telephone	304-951-2596			
	plat (surveyor's map) showing the			4. 4. 4
The reason However, y Take notice accompany Protection, the Applica	you received these documents is that you are not required to take any action at that under Chapter 22-6 of the West Ving documents for a permit to plug and with respect to the well at the location	vou have rights regarding the ap all. firginia Code, the undersigned w abandon a well with the Chief o described on the attached Applicy registered or certified mail or	plication which are summarized ell operator proposes to file or f the Office of Oil and Gas, We cation and depicted on the atta	has filed this Notice and Application and est Virginia Department of Environmental ched Form WW-6. Copies of this Notice, son(s) named above (or by publication in
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My Commission Expires 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.

202

Notary Public

WW-9 (2/15)

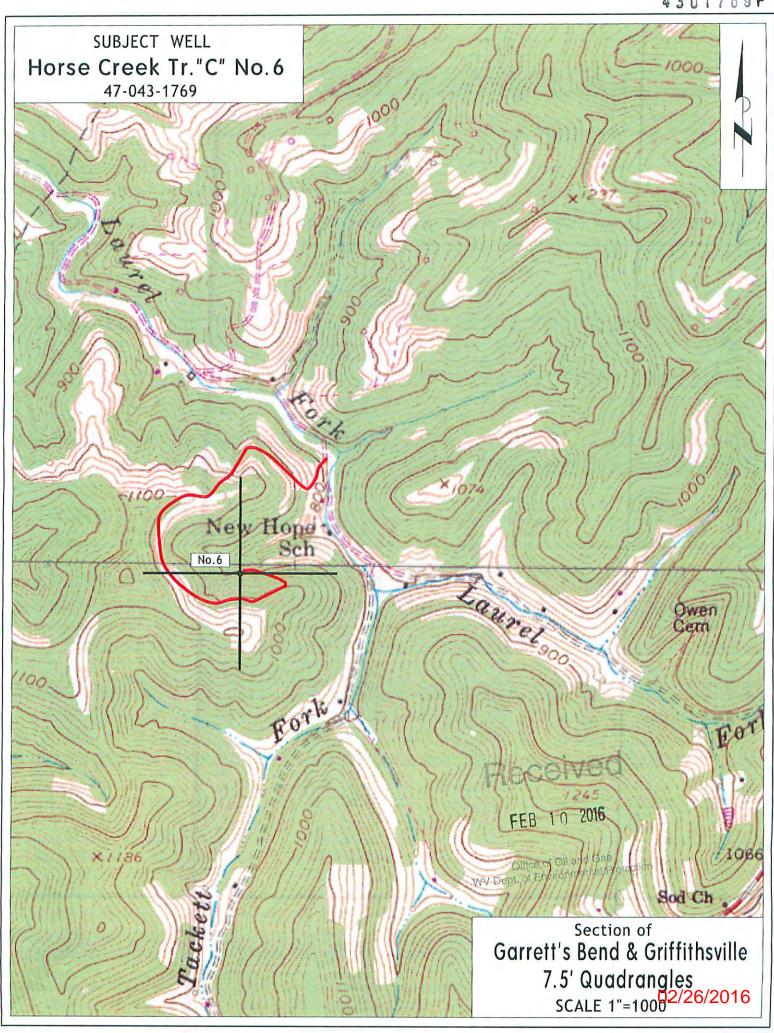
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Will a pit be used? Yes No No Sir Proposed well work? Yes No No No No No No No No No N	Operator Name HG Energy, LLC	OP Code 494497948
Will a pit be used? Yes No If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No If so, what ml.? 30 mil Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Additives to be used in drilling medium? NA Orill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA -I felt in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA -Landfill or offsite name/permit number? Next Virginia solid waste facility. The notice shall be provided writhin 24 hours of rejection and the permittee shall also disclose where it was properly disposed. Lecrify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issue on August 1, 2005, by the Office of Oil and Gas of any term or condition of the general permit and/or other applicate away or regulation can lead to enforcement action. Lecrify under penalty of law that I have personally examined and am familiar with the information is burbaining the information. I certify under penalty of law that I have personally examined and am familiar with the information submitted on the publication form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible following the information. I certify under penalty of law that I have personally examined and am familiar with the information is true, accurate, and complete. I am aware that there are significal repealed on the properties of the properties of the penalty of the	Watershed (HUC 10) Laurel Fork	Quadrangle Garrett's Bend 7.5'
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Subscribed and sworn before me this 22st day of January , 20 16 Notary Public NOTARY Public	Company Official Title Agent	oil and Gas
Notary Public Notary Public		Office of Oil and Protection
NOTARY PUBLIC.	Subscribed and sworn before me this 22st day	y of January , 20 16
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HG Energy, LLC			
Proposed Revegetation Treatm	nent: Acres Disturbed 1.1 a	cres Prevegetation p	Н
Lime	Tons/acre or to correct to p	ьн6.5	
Fertilizer type10-	20-20 or Equivalent	1	
Fertilizer amount 5	00	_lbs/acre	
_{Mulch} Straw	2 _{_Ton}	s/acre	
	<u>S</u> 6	eed Mixtures	
Ter	mporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Plan Approved by:			
Comments:			
			Receive
			FEB 1 0 2016
			Office of Oil and Gas
Title: inspector	006	Date: 1-26-/6	MA Debr of Figure



WW-7 5-02

West Virginia Department of Environmental Protection Office of Oil & Gas

WELL LOCATION FORM: GPS

API: <u>4</u>	7- 043 - 1769		WELL NO:	6
FARM NAME:	Horse Creek Tr."C" No.6			
RESPONSIBLE PARTY	NAME: H.G. En	ergy, LLC		
COUNTY:	Lincoln		DISTRICT:	Duval
QUADRANGLE:	Garrett's Bend 7.5	5'		
SURFACE OWNER:	Larry & Sue Carr	oll		
ROYALTY OWNER:	H.G. Energy, LLC	C et al.		
UTM GPS NORTHING:	4,233,926	(NAD 83)		928.48+
UTM GPS EASTING:	420,620	(NAD 83) GI	PS ELEVATION:	•
	ation plat for a plugging perm t GPS coordinates that do not			
Oil & Gas will not accept 1. Datum: N height abo 2. Accuracy	t GPS coordinates that do not IAD 1983, Zone:17 North, Cove mean sea level (MSL) - note to Datum - 3.05 meters	meet the follow Coordinate Units	ing requirements:	:
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Oil & Gas will not accept 1. Datum: N height abo 2. Accuracy 3. Data Coll Survey Grade Mapping Grad I the undersigned, hereby belief and shows all the i	t GPS coordinates that do not IAD 1983, Zone:17 North, Cove mean sea level (MSL) - reto Datum - 3.05 meters ection Method: GPS Post Processed DReal-Time Differ Real-Time Differ Certify this data is correct to information required by law a of Oil and Gas.	imeet the follow Coordinate Units neters. ifferential ifferential the best of my k and the regulation	ving requirements: s: meters, Altitude X x x cnowledge and ns issued and vvv D	FEB 1 0 2016 Office of Oil and Gas lept. of Environmental Protecti
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