

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

May 15, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2101484, issued to HARPER, HAYDEN ENERGY KA, 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: 1

Farm Name: BALL, LAURA

API Well Number: 47-2101484

Permit Type: Plugging Date Issued: 05/15/2014

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 within two years of the date of issuance of this permit.

1) Date February 20 ,	20 14
2)Operator's	
Well No. L. Ball #1	
3) API Well No. 47-cm	 01484

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/ Gas X/ Liquid	i injection / Waste disposal /		
- •		derground storage) Deep / ShallowX		
	(II das, Floudection A of the	derground storage/ Beep/ Sharrowx		
5)	Location: Elevation 710'	Watershed Little Kanawha River		
	District DeKalb	County Gilmer Quadrangle Glenville		
6)	Well Operator Hayden & Harper KA, LLC	7) Designated Agent Brett McDonough		
	Address 1001 Moorehead Square Dr. Suite 350	Address 1001 Moorehead Square Dr. Suite 350		
	Charlotte, NC 28203	Charlotte, NC 28203		
٥,	Oil and Con Inspector to be matified	OND waster Control to		
8)	Oil and Gas Inspector to be notified			
	Name Bryan Harris	Name Patchwork Oil & Gas, LLC		
	Address P.O Box 157	Address 8165 Elizabeth Pike		
	Volga, WV 26238	Elizabeth, WV 26143		
	See attached procedure and diagram on the	e following page, L. Ball #1 47-021-01484.		





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MAY 7 2014

WV Department of **Environmental Protection**

Elevation 710'

PULL 16" CONDUCTOR (NOT COMENTED) GEL HOLE, SET BOTTOM HOLE PLUG FROM 1587' - 1300'. CUT & PULL 4/2" CASING @ FREEPOINT ≈ 1300'. IF 4/2 IS PULLED DOWN TO 1300', SET 700' CEMENT PRUG FROM 700' - TO SURFACE . [INCUMES ELEV. PLUES] 1 = 41/2" IS CUT & PULLED FROM DIFFERENT DEPTH, THEN SET 100' CEMENT PLUG ACROSS CASING CUT.)

Attempt to rip casing at 1300'.

2

(2.5) 50lb sacks of 6% gel used (161) 100lb sacks of cement

Plugs

Plug #2 650-Surface Plug #1 1300'-1587' (bottom & gas show)

Cement plugs are at a minimum of 100' Class A Cement with no more than 3% CaCl2 and no other additives.

Gel spacers between all cement plugs must be fresh water with at least 6% Bentonite by weight

1587

: Cement

: Gel

:Bridge Plug (if any)



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

Glenville Quadrangle

				~
Oil	-	C	Wall	Gas

Permit No. GIL-1484 WELL	RECORD		Oil or	Gas Well Gas
Company Sinstar Development Company Address Box 350, Spencer, West Virginia Farm Laura Ball Acres 152	Casing and Tubing	Used in Drilling	Left in Well	Packera
Location (waters)Little Kanawha Well No. 1 Elev. 710 District DeKalb County Gilmer	Size 16	16'	16'	Kind of Packer
The surface of tract is owned in fee by <u>Ball et al</u> Address Glenville, W.Va.	10	189'	0	Size of
Mineral rights are owned by Same Address 12-3-62	6% -53/10-4½	1525'	1525'	Depth set
Drilling commenced 12-3-62 Drilling completed 1-1-63 Date Shot No From To	2 Linera Used			Perf. top Perf. bottom Perf. top
With Open Flow /10ths Water in Show Inch	Cinera Osud			Perf. bottom
Volume Show Inch Cu. Ft.		tached r		No. Ft. Date
Rock Pressure 40# lbs. 24 hrs. 0ii None bbls., 1st 24 hrs.	COAL WAS E	S. H. E.	Cement ED AT None	
WELL FRACTURED 700 barrel H20 and 30,000	FEE sand		ICHES	

RESULT AFTER TREATMENT 800,000 wft

ROCK PRESSURE AFTER TREATMENT 680# -- 24 hrs.

Fresh Water	None	Feet		Salt Water_	None	Feet	
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Soil Slate Slate Sand Red Rock Slate Red Rock Slate Red Rock Slate Red Rock Slate Slate Slate Sand			0 5 15 35 65 110 129 170 215 245 310 330 355 425 525 565 612 620 670 816 896 930 972 982 1155 1250 1265 1295	5 15 35 65 110 129 170 215 245 310 330 355 425 525 565 612 620 670 816 896 930 972 982 1155 1185 1250 1265 1295 1370	BA ELVESTING OF STATE	SESTIMENT OF THE PARTY OF THE P	Office of Cil and Ga

Formation	Color	Hard or Soft	Top 8	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate Lime Sand Slate Lime Sand Slate Total Dept	h 1587'		1370 1375 1399 1414 1424 1555 1586	1375 1399 1414 1424 1555 1586 1587	Show of g	as 1355'	
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			(RECEIVED Office of Oil and

Date February 18 , 19 63

Sinstar Development Company, Owner mant of By CT Mark (Title)

O5/16/2014

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New Location .	14.6.6	
Drill Deeper	W.C. BARTON	
Abandenment		
Company SINSTAR DEVELOPMENT CO.		
Address SARNCEA W. VA.	STATE OF WEST VIRGINIA	
Ferm LAURA BALL	DEPARTMENT OF MINES OIL AND GAS DIVISION	
Tract Acres /52 Lease No.	CHARLESTON	
Well (Farm) NoSeriel No	1	
Elevation (Spirit Level) 7/0'	WELL LOCATION MAP	
Quadrangle GLENVILLE	FILE NO. GIL-1484	
County GILMER District DEKALB	+ Denotes location of well on United States	
Engineer P.L SIMON		
Enginser's Registration No. 3978	and lengitude lines being represented by border lines as shown.	
File No Drawing No	Denotes one inch spaces on border line of	
Date //- 9- 62 Scale /"= 660"	original tracing.	,

05/16/2014

WW-4A Revised 6-07

1) Date: February 20, 2014 2) Operator's Well Number L. Ball #1

3) API Well No.: 47 -

01484

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

(a) Name	Roxil D. Hamric	5) (Namo
Address	PO BOX 196	/	Name Address
Address	Glenville, WV 26351		Address
(b) Massa	Gieriville, VVV 2033)		(b) Coal Owner(s) with Declaration
(b) Name Address			
Address			NameAddress
	_		Address
(c) Name			Name
Address			Address
2211112000	-		
6) Inspector	Bryan Harris		(c) Coal Lessee with Declaration
Address	P.O Box 157		Name
	Volga, WV 26238		Address
Telephone	304-553-6087 or 304-472-17	32	
5.9			
(2) The The reason However,	its and the plugging work or plat (surveyor's map) showing you received these documents you are not required to take any a	der; and g the well locatio s that you have righ ction at all.	on on Form WW-6. this regarding the application which are summarized in the instructions on the reverses side.
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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.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reviso that we can return the card to you. Attach this card to the back of the mailpor on the front if space permits. 	ete A. Signature X. A. Signature X. A. Signature A. Signature X. A. Signature
1. Article Addressed to: RUX. 1 D. Hamvi C P.O. BUX 196	D, is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
00x 110	
Glenville WU 26 ?	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchand
	☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchand ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee)

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WW-9 Re .. 5/08

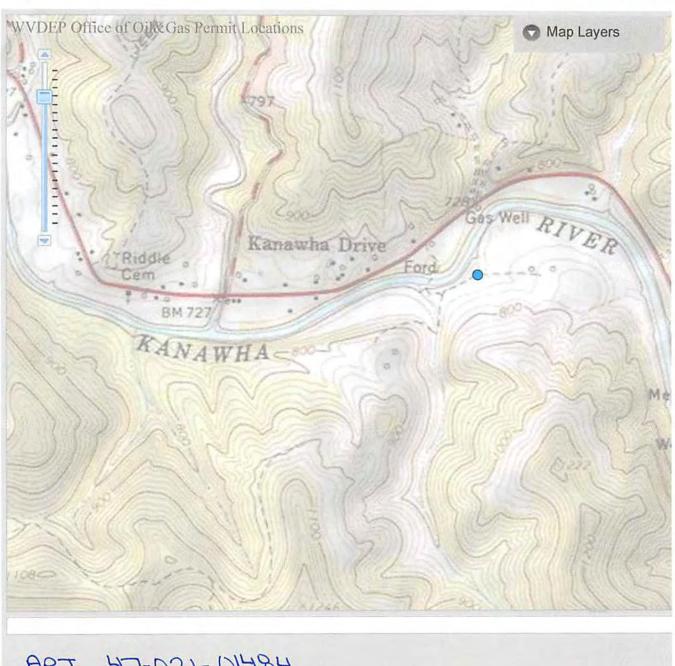
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API Number 47 -	021	+	01484	
Operator's Well N	O. L. Ball #1			

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Hayden & Har	per KA, LLC	OP Code 494495359		
Watershed Little Kanawha Rive	er Quadra	angle Glenville		
Elevation 710'	County_Gilmer	District_Dekalb		
Description of anticipated Pit Was	te: fluids used and associate	d with well plugging activities		
Will a synthetic liner be used in th	e pit? Yes 20 MIL.			
Proposed Disposal Method For Tr	eated Pit Wastes:			
	round Injection (UIC Permit Number_	1		
	(at API Number	1		
Off Site	Dispposal (Supply form WW-9 for di Explain Solidify with cement and life, b	sposal location) ury.		
Proposed Work For Which Pit Wi	ll Be Used:			
Drilling		Swabbing		
Workov	ver X 1	Plugging		
Other (Explain			
application form and all attachn obtaining the information, I belie penalties for submitting false infor Company Official Signature	of law that I have personally examine the sents thereto and that, based on my eve that the information is true, accuration, including the possibility of fine	d and am familiar with the information submitted on thi inquiry of those individuals immediately responsible for ate, and complete. I am aware that there are significant or imprisonment.		
Company Official (Typed Name)	Brett McDorlough			
Company Official Title Vice F	President			
Subscribed and sworn before me to	his 12th day of Man	Notory Public Notory Public Of Street Pu		
My commission expires	ay 17, 2016	Notory Public Notary Public Mecklenburg County Mecklenburg Coun		

	1	LEGEND	
Property Boundary		Diversion www.	······································
Rond = = = = =	=====	Spring \longrightarrow	
Existing Fence — X —	- × ×	Wet Spot	
Planned Fence / _	_//_	Drain Pipe with size in inches	_
Stream		Waterway \longleftrightarrow	\Leftrightarrow
Open Ditch		Cross Drain	
Rock 655856		Artificial Filter Strip	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	~	Pit: cut walls	. 4 4 4 4
Buildings 📆		Pit: compacted fill walls	***************************************
Water wells W		Area for Land Application of	Pit Waste
Drill site		6	
Proposed Revegetation Treatm	nent: Acres Disturbed	Prevegetation p	н 6.4
•	Tons/acre or to correct to pH		
Fertilizer (10-20-20 c	or equivalent) 500 lbs/	acre (500 lbs minimum)	
_{Mulch} pulp fibe	r at 0.5-0.75 _{Tons/a}	сге	
	Seed	l Mixtures	
Area			rea II
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Drawing(s) of road, location,p	it and proposed area for land app	lication.	
Photocopied section of involv	ed 7.5' topographic sheet.		
Plan Approved by:	an O'Herin		HECEWEN
Comments:			Office of Oil and O
Comments.			lance (
	_ /	_ ,,,	Comments of the second
Title: ON + Ges]	ngreder	Date: 3.20.14	Silvinorii in the second
Field Reviewed?) Yes (Y) No	Thyronnania Frotection



IGA 47-021-01484

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-021-01484	WELL NO.: #	:1
FARM NAME: L. Ball		
RESPONSIBLE PARTY NAME:	Hayden & Harper K	A, LLC
	DISTRICT: De	
QUADRANGLE: Glenville	372	
SURFACE OWNER: Roxil D.	Hamric	
ROYALTY OWNER: Roxil D		
UTM GPS NORTHING: 43117		
UTM GPS EASTING: 509633		_{ION:} 710'
above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea lev 2. Accuracy to Datum – 3.03 3. Data Collection Method: Survey grade GPS ×× : Post Pro	: 17 North, Coordinate Units: movel (MSL) – meters.	
Real-Ti	me Differential	
Mapping Grade GPS: Post	Processed Differential	
Real	-Time Differential	
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information of prescribed by the Office of Oil and O	required by law and the regulation	knowledge and HEGEIVED ons issued and De of Oil and Gas
moly	Office manager	2-26-14
Signature	Title Title	Date Uspartment of
		05/16/2014