

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 09, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-702378, 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: TINNEY 1629

Farm Name: BARNETT, JAMES & SHIRLEY

API Well Number: 47-702378 Permit Type: Plugging

Date Issued: 05/09/2014

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

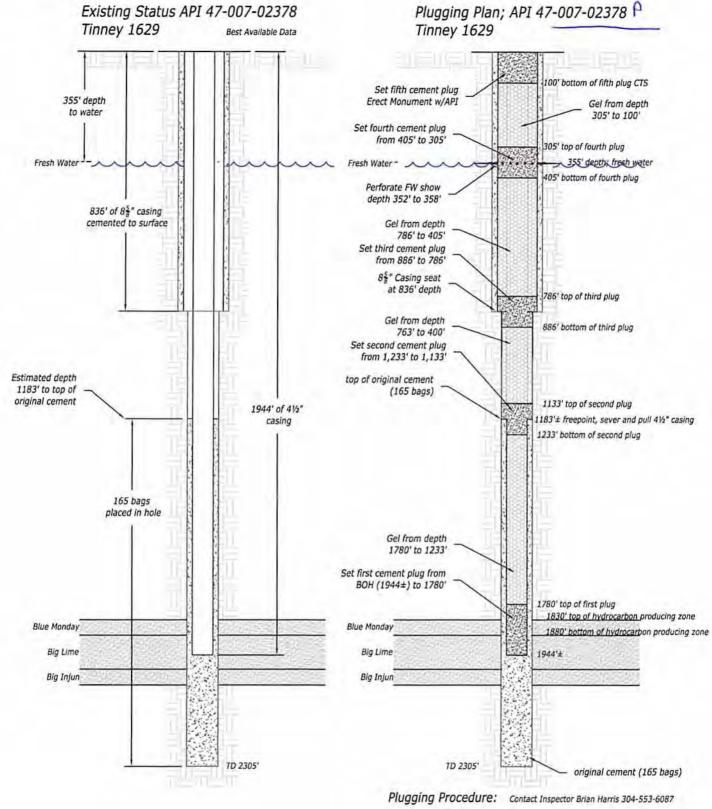
- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars 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.

WW-4B Rev. 2/01

1) Date November 20	,	20 13
2) Operator's		
Well No. Tinney 1629		
3) API Well No. 47-007		- 02378

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

	APPLICATION FOR A PE	CRMIT TO PLUG AND ABANDON
4)		id injection/ Waste disposal/
	(If "Gas, Production or U	Inderground storage) Deep/ Shallow XX
5)	Location: Elevation 1347.55	Watershed Long Run of Birch River
-,	District Otter 03	County Braxton 7 Quadrangle Herold WV 71/2 397
6)	Well Operator Hayden Harper Energy KA, LLC	7,500,3110,000,1130110
	Address 1001 Moorehead Square Drive - Suite 35 Charlotte, NC 28203	Address
	Chanotte, NC 20203	Charlotte, NC 28203
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Bryan Harris	Name Patchwork Oil and Gas
	Address P.O. Box 157	Address 8165 Elizabeth Pike
	Volga WV 26238	Elizabeth, WV 26143
	GEL SPACERS BETWEEN ALL WATER WITH AT LEAST 6	DO BENTONITE BY WEIGHT.
		Glips of Cill and Gas
		JAN 9 D 20 W
		ary oppartment of
		Boller Marie Care
	ification must be given to the district k can commence.	oil and gas inspector 24 hours before permitted
Work	k order approved by inspector	Date
	OK Ochlin Inda	
	OK 9NM 1/09/2014	05/09/201



PERFORATE

Do ver

CASING.

1) Attempt to clean out well bore to total depth.

Circulate gel to 20' above cleaned out area, place the first cement plug from BOH' to 1780 to close the hydrocarbon producing zone. Attempt to pull the 41/2" casing; freepoint, sever and pull the 41/2"

casing above the original cemented depth; 1183±.

 Circulate gel from 1780' to 1233' depth, place the second cement plug from 1233' to 1133' to include casing cut and top of original cement. Circulate gel from 1133' to 886' depth, place the third cement plug from 886' to 786' to include casing seat at 836' depth.

Perforate FW show from 352' to 358'

Circulate gel from 786' to 405'; set fourth cement plug from depth 405' to 305'.

7) Circulate gel from 305' to 100' then cement to surface 5/09/2014 8) Remove tubing and erect monument with API number arrived.

not to scale

WK-JO

-02378 API # 47-007-02358

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

MI

Well Operator's Report of Well Work

Farm name:

James F. Barnett etux

Operator Well No.: Tinney 1629

LOCATION:

Elevation: 1370.00'

Quadrangle: Herold 7.5"

District: Otter

County: Braxton

Latitude: 14320 Longitude: 7900 Feet South of 38 Feet West of 80

Deg. 37 Min. 30 Sec. Deg. 45 Min. 00 Sec.

Company: Linn Operating, LLC

P. O. BOX 368

GLENVILLE, WV 26351-0368

Agent: Judson E. Shreves

INSPECTOR: Craig Duckworth
Permit Issued: 06/24/04
Well work commenced: 07/12/04
Well Work completed: 07/15/04

Verbal Plugging

Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2305'
Fresh water depths (ft) 355'
Salt water depths (ft) none

Is coal being mined in area (Y/N)? n

Coal Depths (ft): none

	1 1 2 2
836'	C.T.S.
1944'	165 sks

OPEN FLOW DATA

Producing formation Gas: Initial open flow Final open flow Time of open flow Static Rock pressure	60 MCF/d between initial and	Pay zone depth (ft : Initial open flow Final open flow final tests pressure) after 4	na Bbl/d na Bbl/d Hours
---	---------------------------------	--	-------------------------------

Second producing formation pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATION, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Linn Operating, LLC

By: Daniel R Chapman, Geologist

Envisacene November 12/02004

ម្លី 05/09/2014 1st Stage: Blue Monday(1870-1850) 500 gal 15% HCl, 359 sks 20/40, 160 mcf N2, 146 bbl H20

Sand, shale	0	1415	1" stream @ 355'
Sand, shale, RR	1415	1635	
Sand, shale	1635	1786	
Little Lime	1786	1806	
Shale	1806	1830	
Blue Monday	1830	1880	
Big Lime	1880	1990	
Big Injun	1990	2041	
Shale	2041	2305	T.D.

RECEIVED Office of Oil and Gas

JAN 1 0 2014

WV Department of Environmental Protection

FORM WW &	7,800	1 702
	WELL NO. 1629 LATITUDE 38"37"30"	IT
TINNEY LEASE	STATE PLANE COORDINATES (SOUTH ZONE)	
<i>54 ACRES</i> ±		 -
J4 AUNES ±	/ \ \ \ \ \	11
_		£ 1
	WELL NO. 1629 WELL NO. 1629 ON SE BANK	11
V. & S. COWGER	30° BEECH (FOUND)	11
79.0 AC± (SURFACE)	OCIONNIAI -O	[]
(SURFACE)	2100	
	*** / · · · · · · · · · · · · · · · · ·	
SAMUEL S. AND		[] ·
ELIZABETH ANN COWGER	TINNEY NO. 1604 API # 47-007-2350	Ĭ I
ISURPACE)	****	11
3,9	TOM WILLIAMS	ļ
TRACE JONG SERVICE	b	1 <u>5</u>
TRACE ZONO ZZZ	(SURFACE)	lī
\{\bar{\chi}\}	SHIRLEY BARNETT \ # 80° C	[]
	5) AC.± \ STONE 330.00 4	!
// // XAM //	S 48 E (FOUND)	
MERZOUK	N 78'51' E	11 1
// '^\ //	5 A 7.08	
X Xx	, and a second s	
WELL NO. 1629	10 % - 231.00' S 155 ²¹⁵ Note: Married WELL NO.	[] [
- /	- 46	
, NO 25 ON SORVET	1629 \	
OH OWN WORTH FOR THE MY STATE PERME	IOMAS AND/OR REFERENCES	!
COORDINATE SYSTEM SOUTH ZONE NAD '27. 2. TIES TO PETERENCES ARE BASED ON	JOYCE WARD 199.61 AC+	{} }
MACHETIC NORTH 5/24/04. 3. LEASS BOUNDARY SHOWN HEREON TAKEN	(SURFACE)]
FROM DEED BOOK 485 AT PAGE 513 AND ADJUNING DEED DESCRIPTIONS.	S 85-00 M WELL NO. 1629 (118.6 5LDPE) @ P	i į l
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND	, no. * were no isse	
COUNTY CLERK RECORDS OF BRAXION COUNTY IN FEBRUARY, 2004.	S 650 50 PE WELL AND INCE	f
5. WELL LAT./LONG. ESTABLISHED BY DOPS(SUBWETER MAPPING GRADE).	118.8 350	<u> </u>
6. MAPPING DISCREPANCIES IN THIS AREA OF THE LEASE CREATE UNCERTAINTY AS TO		
OWNERSHIP DUE TO VAGUE AND INCOMPLETE DEED DESCRIPTIONS.	MAPLE TO SUBAR	
	MAPLE MAPLE	
SLS	//1" = 100"	1
		1
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY	STATES TOPOGRAPHIC MAPS.	1
KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND	CONTRACTOR NATIONAL TRANSPORTATION ASSESSMENT	[]
THE RECULATIONS ISSUED AND PRESCRIBED	No. 677 OPERATORS WELL NO. TINNEY NO. 1629	
BY THE DIVISION OF ENVIRONMENTAL PROTECTION.	WELL 47 - 000 - 00210	{
P.S. Gregory G. Smith	VIRGO NO. THE COUNTY PERMIT	{
Zarajo wy V. Zomilos	STATE COUNTY PERMIT	1 1
MINIMUM DEGRÉE OF ACCURACY 1/200 FILE NO.	SIATE OF WEST VIRGINIA	(I
PROVEN SOURCE SCALE		1 1
OF ELEVATION DGPS (SUBMETER MAPPING GR	ADE) OFFICE OF OIL AND GAS	1 1
WELL LIQUID WAST TYPE: CIL GAS X INJECTION DISPO	E IF SALGAS* PRODUCTION _X STORAGE DEEP SHALLOW _X	ļ. I
LOCATION:		!
ELEVATION 1,370 WAT	ERSHED LONG RUN	1 I
	COUNTY BRAXTON QUADRANGLE HEROLD 7.5' &	<u> </u>
SURFACE OWNER JAMES F. AND/OR SHIRLEY BAR		2
ROYALTY OWNER WILLIAM A. DUNN, ET AL	LEASE ACREAGÉ 544 F	[~
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER	REDAMICE OF STATURE OR STIMULATE X PLUG OFF OLD	i
FORMATION PERFORATE NEW FORMATION		ı l
PHYSICAL CHANGE IN WELL (SPECIFY)	TABORT PORMATION BIG INJUN TO	
	JAN 1 CESTANATED DEPTH 2,400' E	17
WELL OPERATOR LINN OPERATING, LLC	\\\\\ BESIGNATED AGENT JUDSON E. SHREVES	05/00/201
ADDRESS 1700 NORTH HIGHLAND ROAD, SU	77 7767 617 77 78 78	05/09/201
PITTSBURGH, PA 15241	Environmental Protestylks w 28351]
		, I

02378

WW-4A	
Revised	6-07

1) Date:	November 20, 2013	
	or's Well Number	
Tinney 1629		

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

3) API Well No .: 47 -

	ner(s) to be served:		5)/(8	a) Coal Operator			
(a) Name	James F. and/or Shirley	y Barnette	V	Name	n/a		
Address	2507 GEM RD	ió.e.		Address			
0.131	BURNSVILLE, WV 263	35	_	- 0.0.10	(A) All Doll	Col 6. col	
(b) Name	-				ner(s) with Decla	ration	
Address				_ Name Address	n/a		
				_ riumess	-		
(c) Name				Name			
Address				Address			
) Inspector	Bryan Harris		V		see with Declarat	ion	
Address	P.O Box 157			Name	n/a		
m	Volga WV 26238	04 470 470		Address	-		
Telephone	304-553-6087 cell, or 3	04-4/2-1/32		_			
(1) The well (2) The The reason	RSONS NAMED application to Plug and At its and the plugging work plat (surveyor's map) show you received these document you are not required to take any	oandon a We order; and ving the well s is that you h	ell on F	orm WW-4B, which n on Form WW-6.	sets out the parties i	nvolved in the	work and describes the
(1) The well (2) The The reason However, Take notic accompany Protection, the Applic	application to Plug and At its and the plugging work plat (surveyor's map) show you received these document	pandon a We order; and ving the well s is that you h vaction at all. he West Virgin plug and abar location desc mailed by reg	ell on F location have right haia Code hadon a wribed on gistered	orm WW-4B, which n on Form WW-6. ats regarding the applications, the undersigned well with the Chief of the the attached Application certified mail or del	sets out the parties is ation which are summari operator proposes to file to Office of Oil and Gas, on and depicted on the at	nvolved in the fixed in the fixed in the instruction has filed this Nest Virginia Dettached Form WW	work and describes the ctions on the reverses side Notice and Application and partment of Environmenta /-6. Copies of this Notice
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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.

Bd Mail Provides: ig receipt ing receipt	
SENDER: COMPLETE THIS SECTION COMPLETE	ETE THIS SECTION ON DELIVERY
James Barnette 2507 Gem Road Burnsville, WW 26335	ivery address different from item 12 Yes S, enter delivery address below. No DEC
Re In:	ertified Mail
2. Article Number 7011 0110	0002 2788 0318

ceipi and present it when making an inquir.

Adyrise the clerk or mark to the addresses or mark the malipiece with the



JAN 0.2 2014

65/09/2014

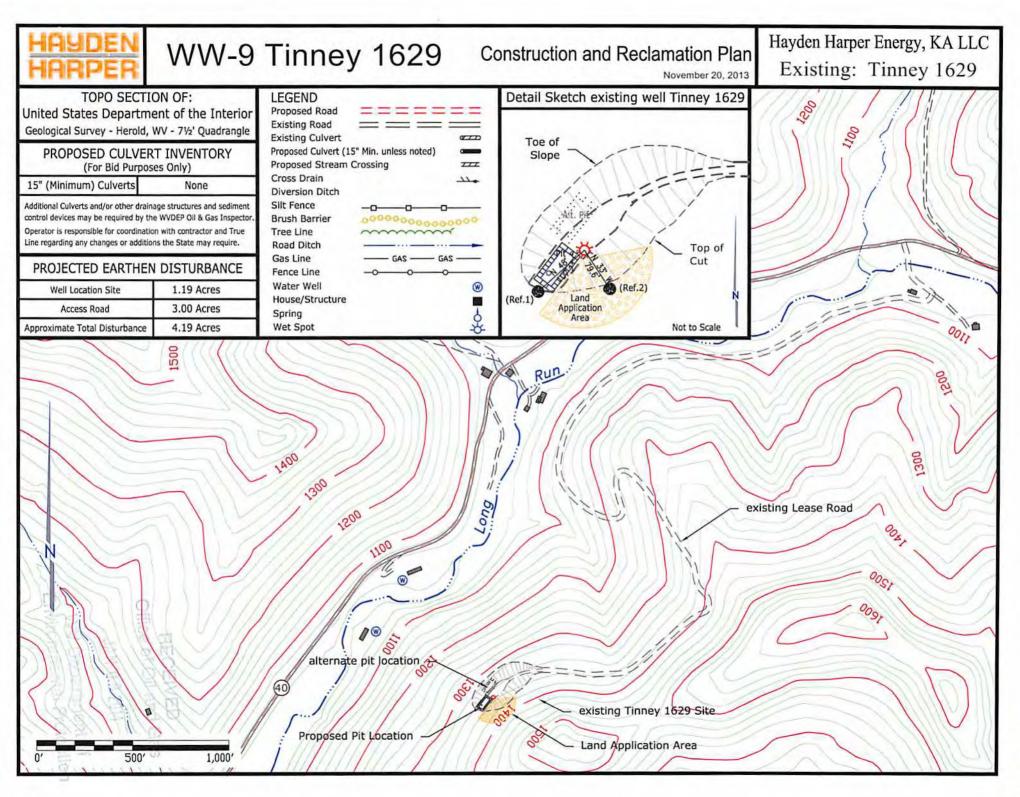
WW-9 (5/13)

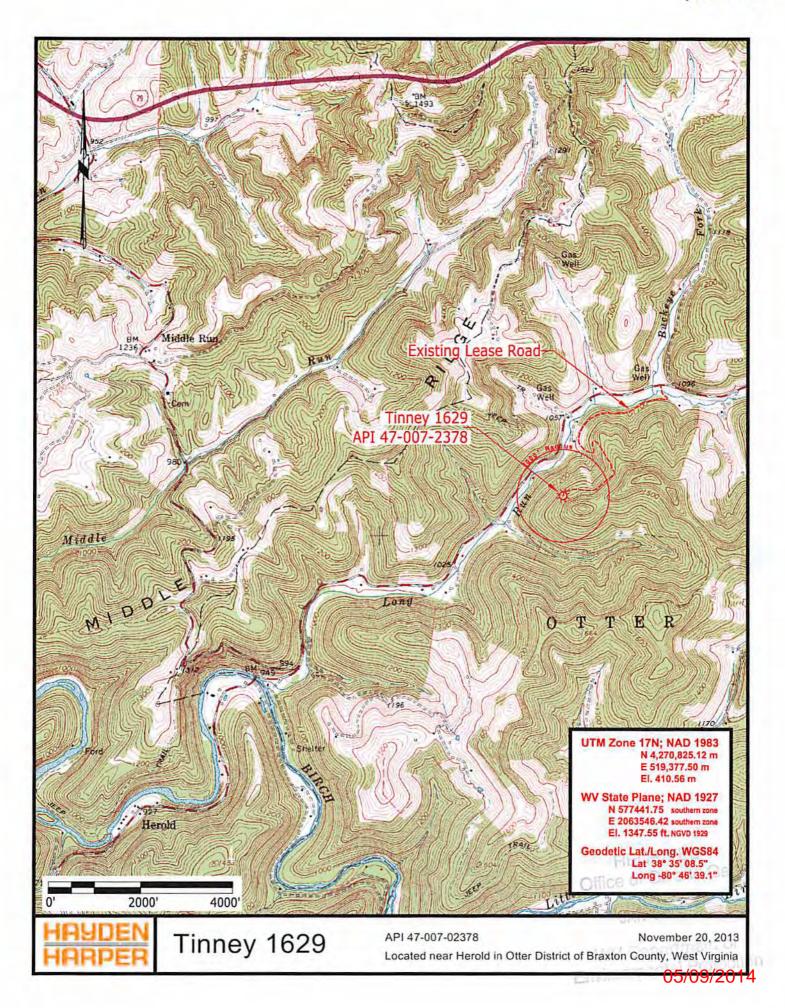
	Page of	
API Number 47 - 007	- 02378	
Operator's Well	l No. Tinney 1629	

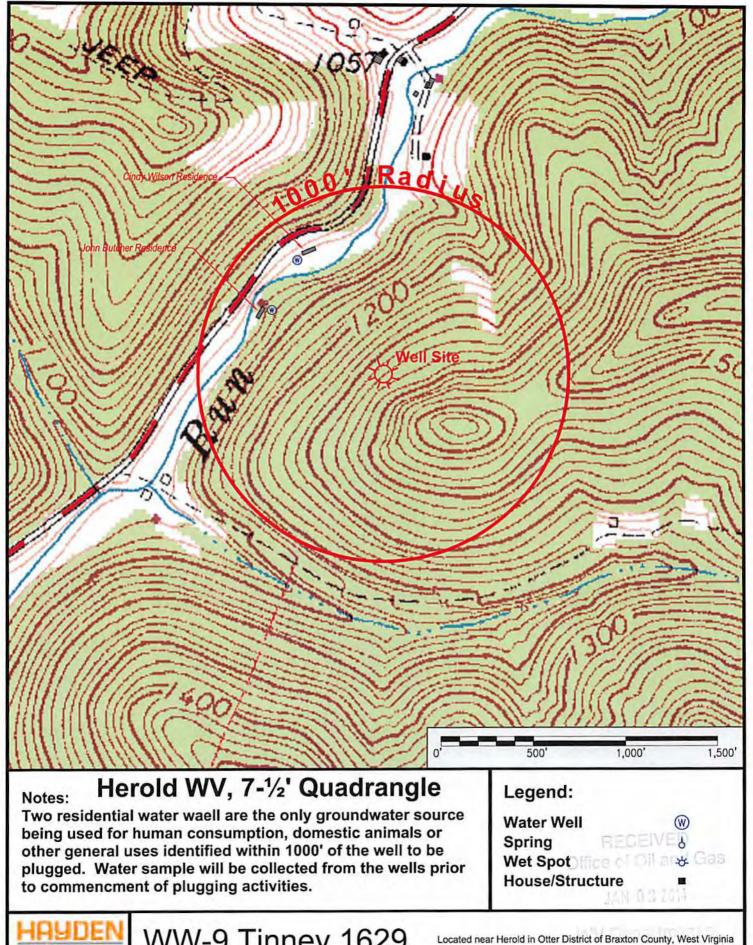
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HAYDEN HAR	PER ENERGY KA, LLC	OP Code 494495359	
Watershed (HUC 10) 05050	00704 Long Run of Birch River	Quadrangle Herold WV 7½'	
Elevation 1347.55	County_Braxton	District_ Otter	
Will a pit be used for drill cutt	ings? Yes XX No	the proposed well work? Yes N	
		If so, what ml.? 20 ml	
	lethod For Treated Pit Wastes:		
Uno Rei Off	use (at API Number		
Will closed loop system be us	ed? yes NO.		
		d, etc. n/a	
-If oil based, what typ	pe? Synthetic, petroleum, etc		
Additives to be used in drilling	g medium?		
		ite, etc	
-If left in pit and plan	to solidify what medium will be used	? (cement, lime, sawdust)	
-Landfill or offsite na	ame/permit number?		
on August 1, 2005, by the Off provisions of the permit are e law or regulation can lead to e I certify under penal application form and all atta obtaining the information. I	rice of Oil and Gas of the West Virgin enforceable by law. Violations of any enforcement action. Ity of law that I have personally exa achments thereto and that, based or	itions of the GENERAL WATER POLLUT ia Department of Environmental Protection. If term or condition of the general permit at mined and am familiar with the informat my inquiry of those individuals immediaccurate, and complete. I am aware that of fine or imprisonment.	I understand that the nd/or other applicable ion submitted on this iately responsible for
Company Official Signature_	M		
Company Official (Typed Na			THE CHAVEO
Company Official Title	Vice President	01	annimman,
	10.11	ecember 20 13	SHITTEEDEE TAKLOPILI
Subscribed and sworn before	me this 10th day of De	Notary Public	Notary Public Mecklenburg County







WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELLIC	CATION	OKM. GIS
API: 47-007-02378		WELL NO.: Tinney 1629
FARM NAME: James F. and	or Shirley Ba	rnette
RESPONSIBLE PARTY NAME:	: Hayden Harp	er Energy KA, LLC
COUNTY: Braxton	DI	ISTRICT: Otter
QUADRANGLE: Herold WV 7	7½' Series	
SURFACE OWNER: Barnette L	ura F & James I	F & Shirley A Life ETAL
ROYALTY OWNER: William	A Dunn et als	
UTM GPS NORTHING: 4270	825.12	
UTM GPS EASTING: 5193	377.50	GPS ELEVATION: 410.56n 1347, 55 F
the following requirements:	ne: 17 North, Coor evel (MSL) – met 05 meters :	
	Time Differential	
Mapping Grade GPS: Pos	st Processed Diffe	erential
Re	al-Time Different	tial
4. Letter size copy of the I the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and	is data is correct to required by law	
Signature	Titl	le Date