

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

April 30, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-701716, 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: 4

Farm Name: SHAVER, A.

API Well Number: 47-701716

Permit Type: Plugging

Date Issued: 04/30/2014

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

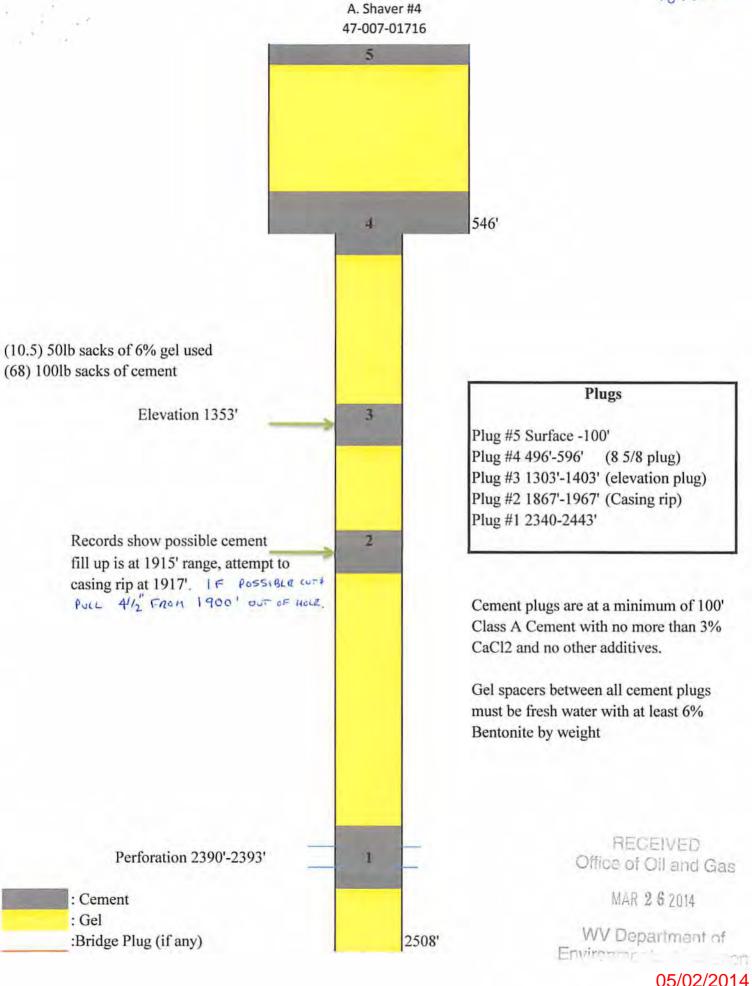
- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars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

WW-4B Rev. 2/01

1) Date	e Febru		,	20 14		
210pe:	rator	¹s				_
Wel:	l No.	A. Shav	er #4			
3) API	Well	No.	47-007		- 01716	

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

5)	Location: Elevation 1353'	Watershed Shaver Fork				
3)	District Otter 3	County Braxton Quadrangle Burnsville 7.5' 27				
6)	Well Operator Hayden & Harper KA, LLC	7) Designated Agent Brett McDonough				
	Address 1001 Moorehead Square Dr. Suite 3					
	Charlotte, NC 28203	Charlotte, NC 28203				
8)	Oil and Gas Inspector to be notified Name Bryan Harris	9) Plugging Contractor Name Patchwork Oil & Gas, LLC				
	Address P.O Box 157	Address 8165 Elizabeth Pike				
	Volga, WV 26238	Elizabeth, WV 26143				
(0)		n the following page, A. Shaver #4 47-007-01716.				
	See attached procedure and diagram or	n the following page, A. Shaver #4 47-007-01716.				





IV-35 (Rev 8-81)

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Gil und Ges Birision

Date	March 29, 1982
Operator Well No.	s Four (4)
Farm	Shaver
API No. 4	7 - 007 - 1716

WELL OPERATOR:	2 VEECUT				
DRILLING, FRACTURING AND/OR STIME	LATING, OF	PHYSICAL	CHANGE		·
			,		
WELL, TYPE: Oil / Gas X/ Liquid Injection (If "Gas," Production X / Underground			/ Shai	110w <u>x</u> /)	
LOCATION: Elevation: 1353' Watershed	Shaver Fo	rk			
District: Otter County Brax	ton	Quadrangle	Burnsvil	<u>le 7.5'</u>	
	·		<u>, , , , , , , , , , , , , , , , , , , </u>		
COMPANY Trio Petroleum Corp.		22008 40	Left	Cement	
ADDRESS Rt. 76, Box 35-E, Glenville, WV 26351	Casing	Used in Drilling		fill up Oi. ft.	
DESIGNATED AGENT E. A. Broome	Tubing	permag	TIS MOTT		
ADDRESS Rt. 76, Box 35-E, Glenville, WY 26351	Size 20-16]			
SURFACE CANER Arthur Shaver	Cond.	ļ			
ADDRESS Exchange, WV 26619	13-10"				
MINERAL RIGHTS OWNER Arthur Shaver	9 5/8			 	l
ADDRESS Exchange, WV 26619	8 5/8	546'	546'	150 Sks.	
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			<u> </u>	•
Bates ADDRESS Weston, WV 26452	5 1/2				
PERMIT ISSUED September 14, 1981	4 1/2		2488'	75 Sks.	
DRILLING COMMENCED September 21, 1981	3	ļ		 	
DRILLING COMPLETED September 24, 1981	XX 15"		2371'	<u> </u>	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners				
CONTINUOUS PROGRESSION FROM DRILLING OR REMORKING. VERBAL PERMISSION CHIAINED	used]
CN				<u></u>	4
GEOLOGICAL TARGET FORMATION Injun Sand			oth 25		•
Depth of completed well 2508 feet		x_/ Cabl			•
Water strate depth: Fresh N/R feet;	Salt_N/R	feet	=		
Coal seam depths: -Hone-	_ Is coal	being mi	ned in th	e area? No	
	_				
OPEN FLOW DATA	Pa	v zane de	pth 2380'	-2406' feet	
Producing formation Injun Sand		itial ope		n Rht/d	FECRIVED
	F	nal open	flow	0 Bb1/6	of Oil and Gas
Final open flow 280 Mcf/d Time of open flow between ini-	tial and f	inal test	s N/A h	putrs),	(10.0 C 2011
Static rock pressure 590 psig(surfa	co measure	ment) aft	ex 4 ho	urs shut i	AR 2 6 2014
Static rock pressure 590 parguanta	I			1000	Department of
(If applicable due to multiple completion	707 19:	av zone de	eth	feel	population of
	Oil: T	nitial CCG	n flow	Bb1/	a let ust wiotection
	Oil. F	inal open	flow	Bbl/	a
Final open flow Mcf/d Time of open flow between int	A sact	final tesi	 :s 1	hours	
Static rock pressurepsig(surface		ment) aftr	er h	ours shut i	n05/02/2014
Static rock pressurepsig(surrac	· HERBUIC				
<i>∴</i>	•	(Con	tirue on :	reverse sid	e)

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INVERVALS, FRACTURING OR STIMILATING, PHYSICAL CHANGE, ETC.

9/27/81: Halliburton, Injun Sand - 2390'-2393' - 40,000# 20-40 Sand, 510 BGW and 500 GA.

WELL LOG

				W	ar me	
FORMATION	COLOR	HARD OR	SOFT	JOB LEEL	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand Sand Sand Sand Sand Litt Penc Big	. Shale . Shale . Shale	and Red and Red and Red and Red	Rock Rock	0. 310 390 560 600 820 880 1240 1380 2147 2197 2208 2280 2508	310 390 560 600 820 880 1240 1380 2147 2197 2208 2280 2508	

(Attach separate sheets as necessary)

TRIO PETROLEUM CORP.	
Well Operator	
By: E. A. Broome	1-3-re-
Date: March 29, 198	2

OG-10 Rev. - 9-71



RECEEVEL

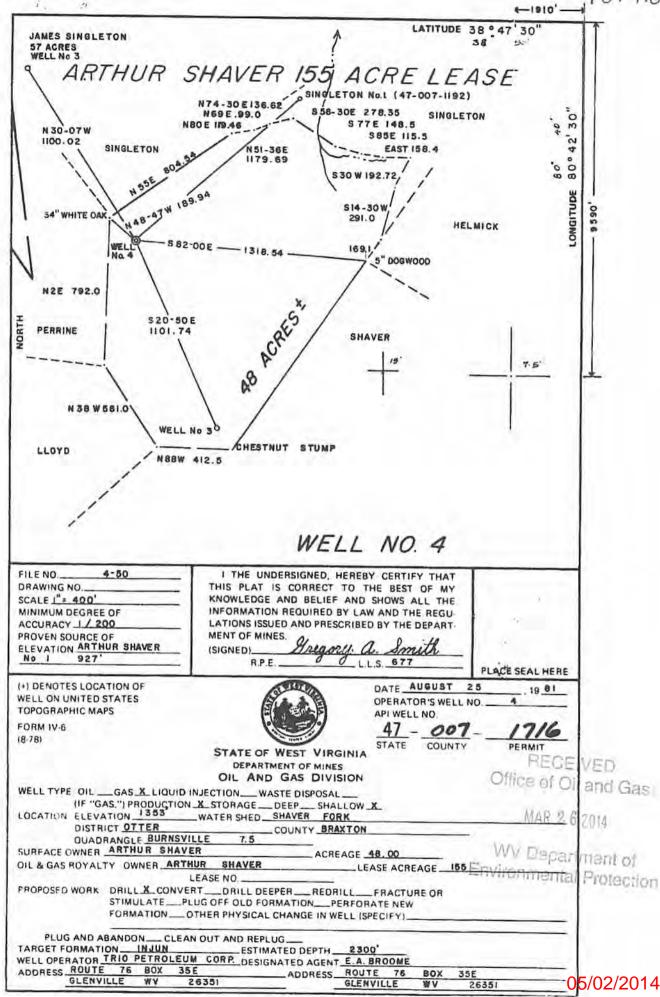
STATE OF WEST VIRGINIA DEPARTMENT OF MINES

CCT 1 9 1981

OIL AND GAS DIVISION

Quedrangle Burnsville 7.5' Permit No. 47-007-1716	WELL	RECORD		Rotary X Cable Recycling Water Floo Disposal	GasX Comb
Trio Petroleum Corp. Address Rt. 76, Box 35-E, Glenv Shaver.	ille, WV 26351	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu ft (Sks.)
Location (waters) Shaver Fork Well No. Four (4)	Elev. 1353'	Size 20-16			
	Braxton	Cond.			
the suited of these to section in the sale	Arthur	13-10"			
Shaver		9 5/8			Santa Danie
Address Exchange, WV 26619	hausu	R 5/R	546'	546'	150 Sks.
Mineral rights are owned by Arthur S Exchange, W	26619 .	5 1/2	-	-	
AGGITES		4 1/2		24881	
Drilling Commenced September 24 Drilling Completed September 24		3		-	70 0.0.
Initial open flow Show cu. ft.		xx 1"		2371'	
Final production 280 Mcu. ft. per de		Lineis Used			
			00 GA.		
			Inch		
Fresh water N/R	FeetFeet		Inch		Feet
Fresh water N/R	. Foel	Sait V	Inch	R -2406'	Feet
Fresh water N/R Producing Send Injun Sand	. Foel	Sait V Depth	Inch Vater	R -2406' Per Water	• Remarks
Fresh water N/R Producing Send Injun Sand Furnation Color Hard or Seft Sand and Shale Little Lime Pencil Cave Big Lime Injun Sand	Top Feet 0 2147 2197 2208 2280	Sait V Depth Bottom Feet 2147 2197 2208 2280	Inch Vater	R -2406' Per Water	THE SECOND

05/02/2014



WW-4A	
Revised	6-07

1) Date: Fe	ruary 20, 2014		
2) Operator's Well	l Number		
3) API Well No.: 4	7 - 0	07	01716

STATE OF WEST VIRGINIA NMENTAL PROTECTION, OFFICE OF OIL AND GAS

3) API Well No.: 47 -

(a) Name	ner(s) to be served: STEPHEN EARL WOR MARY KA	
Address	6343 Exchange Rd.	Address
411	Exchange, WV 26619	(b) Coal Owner(s) with Declaration
(b) Name		Name
Address		4.11
		Address
(c) Name		Name
Address		Address
Addicas		1144.000
) Inspector	Bryan Hants	(c) Coal Lessee with Declaration
Address	P.O Box 157	Name
Address	Volga, WV 26238	Address
Telephone	304-553-6087 or 304-472-1732	
(2) The The reaso However,	I its and the plugging work order plat (surveyor's map) showing t in you received these documents is the you are not required to take any action	that you have rights regarding the application which are summarized in the instructions on the reverses side ion at all.
The rease However, Take noti accompan Protection the Appli	I its and the plugging work order plat (surveyor's map) showing to anyou received these documents is it you are not required to take any action that under Chapter 22-6 of the We lying documents for a permit to plug with present to the well at the local	that you have rights regarding the application which are summarized in the instructions on the reverses side from at all. Yest Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and a management of an advantage of the Office of Oil and Gas, West Virginia Department of Environmentation described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice led by registered or certified mail or delivered by hand to the person(s) named above (or by publication is
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The rease However, Take noti accompan Protection the Appli	lits and the plugging work order plat (surveyor's map) showing to a you received these documents is it you are not required to take any action that under Chapter 22-6 of the Weiging documents for a permit to plug to with respect to the well at the location, and the plat have been maile cumstances) on or before the day of the By: Its: Additional Additional Chapter 22-6 of the Weiging documents for a permit to plug the well at the location. The plat have been maile cumstances on or before the day of the By: Its: Additional Additional Chapter 22-6 of the Weiging documents for a permit to plug the weight and the plat have been maile cumstances.	that you have rights regarding the application which are summarized in the instructions on the reverses side from at all. Yest Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmentation described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice do by registered or certified mail or delivered by hand to the person(s) named above (or by publication is mailing or delivery to the Chief. Haydan & Harper KA, LLC Bratt McDonough Michael Fore Maddle Research Copies of the Chief of the President CFO Charlotte, NC 28203
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Take noti accompany Protection the Applicertain ei	lits and the plugging work order plat (surveyor's map) showing to a you received these documents is it you are not required to take any action to the tax and the ce that under Chapter 22-6 of the We ying documents for a permit to plug, with respect to the well at the locat cation, and the plat have been maile cumstances) on or before the day of a Wel By: Its: Add Tele It sworn before me this	that you have rights regarding the application which are summarized in the instructions on the reverses side from at all. Yest Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmentation described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice led by registered or certified mail or delivered by hand to the person(s) named above (or by publication is mailing or delivery to the Chief. Haydan & Harper KA, LLC Breat McDonough MICHAEL FOR MAIL INC. Those President CFO Charlotta, NC 28203 TO4-343-2447 Short Paimer

regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of Protection 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 dopprivacyoffice www.gov.

Complete items 1, 2, and 3. Al item 4 if Restricted Delivery is Print your name and address on the work of the back of the bac	desired. on the reverse it to you. if the mailpiece, is.	B. Received by (Prints D. to deaver / courter If YE's, enter deliver	Name) C.	Agent Addressue Date of Delivery A Yes
FYCA COSE - DELLER	Provide C	☐ Registered ☐ Insured Mail 4. Restricted Dally	☐ Return Feeder ☐ C.O.D. ery? (Extra Fee)	A for time II II
Article Number (Transfer from service labe., PS Form 3811, February 20	7011 157	EUZD.		(OHOLT II)

RECEIVED
Office of Oil and Gas

MAR 2 6 2014

WV Department of Environmental Protection WW-9 Rev. 5/08

	Page		of	
API Number 47 -	. 007	. •	01716	
Operator's Well N	o. A. Shav	er #4		

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

CK 6356

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

	Name Hayden & Ha		OP Code 494495359	
Watershed	Shaver Fork	Quad	Irangle Burnsville 7.5'	
Elevation	1353'	County Braxton	District Otter	
Descriptio	n of anticipated Pit Wa	fluids used and associate	ed with well plugging activities	
Vill a syn	thetic liner be used in the	ne pit? Yes ZOMIL.		
roposed I	Disposal Method For To	reated Pit Wastes:		
		ground Injection (UIC Permit Number	r):
	Reuse	(at API Number		
	X Off Sit	e Dispposal (Supply form WW-9 for (Explain Solidify with cement and life,	disposal location) bury.	
roposed '	Work For Which Pit W	ill Be Used:		
	Drillin		Swabbing	
	Worko		Plugging	
	Other	(Explain		
pplication obtaining penalties f	form and all attache the information, I beli	ments thereto and that, based on pry	ned and an familiar with the information inquiry of those individuals immediate and complete. I am aware that the imprisonment.	ely responsible
		Brett McDonough	Office of	
company	Official Title Vice I			Oil and Ga
Company	Official File	President	MAR	Oil and Ga
Company		President	. WV De	2 6 2014 partment o
Company	I and sworn before me	President	. WV De	2 6 2014 partment o
Company		President	. WV De	2 6 2014 partment o
Subscribed		President	. WV De	2 6 2014 partment o

	LEGEND	
Property Boundary	Diversion Contraction	munimum.
Road = = = = = = = = = = = = = = = = = = =	Spring O	
Existing Fence — X — X — X —	Wet Spot	
Planned Fence / / /	Drain Pipe with size in inches	· — • —
Stream A A A A A A A A A A A A A A A A A A A	Waterway \longleftrightarrow	\Leftrightarrow
Open Ditch	Cross Drain 77777	
Rock 636886	Artificial Filter Strip	***********
North N	Pit: cut walls	· · · · · · · · · · · · · · · · · · ·
Buildings	Pit: compacted fill walls	Francis
Water wells W	Area for Land Application of	Pit Waste
Drill site	<u> </u>	
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation	_{рН} 6.4
Lime 2 Tons/acre or to correct to p		
• • • • • • • • • • • • • • • • • • • •	bs/acre (500 lbs minimum)	
Mulch pulp fiber at 0.5-0.75	s/acre	
s	eed Mixtures	
Area I		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,pit and proposed area for land a	pplication.	<u> </u>
Photocopied section of involved 7.5' topographic sheet.		DEOC
I hotosopica section of involved 7.5 topographic shoot.		RECEIVED
		Office of Oil and Gas
Plan Approved by: Duy O Harry		MAR 2 6 2014
Comments:		
Commence.	F	Department of
		Environmental Protection
AV. A T.		
Title: O. V + Gaz Inspector	Date: 3-20-14	

701716P

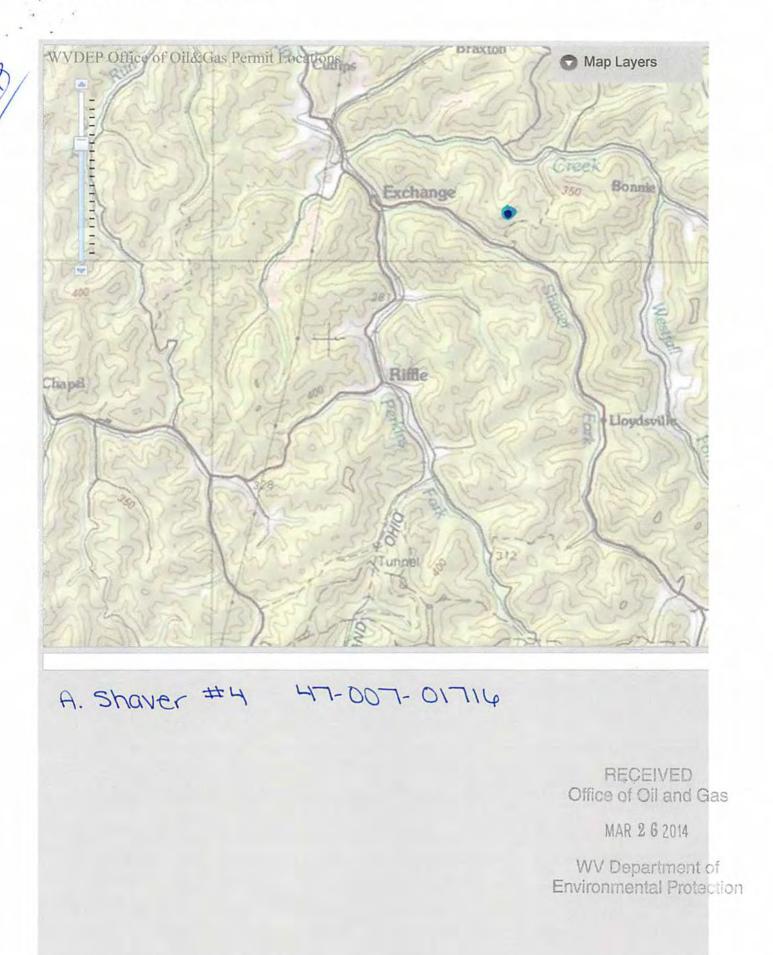


A. SHAVER #4

47-007-01716

0.4km
0.2mi

Measurement	
1	
Measurement Result	



WW-7 8-30-06



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

API: 47-007-01716 WELL NO.: #4 FARM NAME: A. Shaver RESPONSIBLE PARTY NAME: Hayden & Harper KA, LLC COUNTY: Braxton DISTRICT: Otter QUADRANGLE: Burnsville 7.5' SURFACE OWNER: Stephen E. &/or Mary K. Cutlip ROYALTY OWNER: Stephen E. &/or Mary K. Cutlip UTM GPS NORTHING: 4290767.7 UTM GPS EASTING: 524848 GPS ELEVATION: 1353' 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:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude:

height above me	ean sea level (MSL) – meters.	
Accuracy to Dat	um – 3.05 meters	
Data Collection	Method:	
Survey grade GPS xx	: Post Processed Differential XX	
	Real-Time Differential	
Mapping Grade GPS _	: Post Processed Differential	
	Real-Time Differential	RECEIVED
4. Letter size copy	of the topography map showing the well loo	

4. Letter size copy of the topography map showing the well location. of and Gas 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 2 6 2014 prescribed by the Office of Oil and Gas.

Signature

Office Manager
Title

2-25 Telepartment of Date