

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

October 09, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8504375, issued to RITCHIE PETROLEUM CORP., 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.

Operator's Well No: 1

Farm Name: SMITH, HARLIE

James Martin

API Well Number: 47-8504375

Permit Type: Plugging
Date Issued: 10/09/2015

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.

CK# 43403

WW-4B Rev. 2/01

1) Date	August	17	,	20 15	
2)Opera	tor's	575-74 577-91 T/A			
Well	No. H	larley Smith	No.	1	
3) API W	ell No	. 47 - 085		- 04375	

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

	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON	
4)	Well Type: Oil X / Gas X / Liquid	d injection / Waste disposal /	
		derground storage) Deep/ Shallow_X_	
5)	Location: Elevation 1,025'	Watershed Husher's Run	
57	District Clay		37
6)	Well Operator Ritchie Petroleum Corporation	7) Designated Agent Jarrett W. Shepherd	
	Address P.O. Box 545	Address P.O. Box 545	
	Pennsboro, WV 26415	Pennsboro, WV 26415	
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor	
	Name David Cowan	Name	
	Address 1597 Devil Hole Road	Address	
	Harrisville, WV 26362-7543		
		RECEIVED	
		Office of Oil and Cas	
	fication must be given to the district oi can commence.	1 and gas inspector 24 hours before permitted	
Work	order approved by inspector	WV Department of Environmental Stotestion	

Harley Smith No.1

47-085-4375

CASING	LEFT IN WELL	CEMENT	TOC (EST.)
8 5/8"	250'	CTS	0
4 1/2"	2,929'	270 sks	1,400'
TD	2,912'		

FORMATIONS	DEPTHS	COMPLETED
Fifth Sand	2,852' - 2,870'	Yes
Gordon	2,740' - 2,754'	
Berea	2,560' - 2,568'	
Lower Weir	2,380' - 2,402'	Yes
Upper Weir	2,176' - 2,222'	
Squaw	1,976' - 2,074'	
Big Injun	1,903' - 1,976'	
Keener	1,876' - 1,903'	
Big Lime	1,836' - 1,876'	
Maxton	1,722' - 1,754'	

	MANNER OF PLUGGING
Plug 1	2,900' - 2,800'
Plug 2	2,425' - 2,325'
Free point, cu	t & pull 4 1/2" casing @ 1,400' (Estimated TOC)
Plug 3	1,450' - 1,350'
Plug 4	1,075' - 975'
Plug 5	300' - 200'
Plug 6	100' - Surface

Fill well-bore with 6% gel between cement plugs

Erect Monument with API Number

RECEIVED
Office of Oil and Gas

SEP 0 1 2015

WV Department of Environment Protection

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FORM IV-			DEP	artme	MT OF	MINES, OI	L AN	D GYZ DIAIZIO	N Operator's Well No.	1
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[08-78]		DRILLI	nj, Fra	37 <u>"8</u> 3	::: AI	NITE ROVE	ILATI	ING. IR PHYSIC	AL CHANGE	. <u>-7 - 085-2 - 1375</u> State County Permi
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PERMITTED WOR										ure op stimulate
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FORM IV-35 (Reverse)

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perferated zones 2,839 - 2,8171 10 shots Fifth Sand: Weir Sand 2368 - 2383

Well fracturedwith 27,500# sand and 600 bbls. water, Fifth Sand

Weir Sand fractured with 27,000 lbs. sand and 600 bbls. water

WELL LOG .

buff, tan	Shaly	1722 1836 1 9 76	1754 1876	
Grey	Silty Shaly	1903 1976 2176 2380 2560 2710 2852	1903 1976 2074 2222 24:02 2568 2754 2870 2912	•
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	light gre grey grey	light grey Shaly grey Silty grey Shaly	light grey Shely 2560 grey Silty 2710 grey Shely 2852	light grey Shely 2560 2568 grey Silty 2740 2870 2870 2912

(Attach esparate sheets to complete as necessary)

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

WW-4A Revised 6-07

August 17, 2015 1) Date: 2) Operator's Well Number Harley Smith No.1

3) API Well No.: 47 -

085

04375

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

4) Surface Ow	vner(s) to be served:	(a) Coal Operator Name	
(a) Name	Steven & Darrel Lipscomb WAIVII	Name	NA
Address	115 Sarah Jane Lane	Address	
	Pennsboro, WV 26415		
(b) Name			vner(s) with Declaration
Address		Name	NA
		Address	
(c) Name		Name	-
Address		Address	
6) Inspector	David Cowan	(c) Coal Les	esee with Declaration
Address	1597 Devil Hole Road	Name	NA
	Harrisville, WV 26362-7543	Address	INA
Telephone	304-389-3509		
Totopilone			-
Protection the Applic	ying documents for a permit to plug and abandon , with respect to the well at the location describes	a well with the Chief of the d on the attached Application and or certified mail or del	operator proposes to file or has filed this Notice and Application and e Office of Oil and Gas, West Virginia Department of Environmental on and depicted on the attached Form WW-6. Copies of this Notice, livered by hand to the person(s) named above (or by publication in
	Well Operate		
NOTARY		or Ritchje Petroleum Cor	poration
STA		Ritchje Petroleum Cor	Jarrett W. Shepherd
1 dboards 151	PUBLIC OFFICIAL SEAL BY:	Pesignated Agent	
SAME LAND	PUBLIC OFFICIAL SEAL BY: IE OF WEST VIRGINIA ITS: JODI L JONES Andress	T. tw.S	
	PUBLIC OFFICIAL SEAL BY: IE OF WEST VIRGINIA ITS: JODI L JONES Address 300 PIKE AVENUE	Designated Agent	Jarrett W. Shepherd
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PE MY COMM	PUBLIC OFFICIAL SEAL BY: IE OF WEST VIRGINIA ITS: JODI L JONES Address 300 PIKE AVENUE	Designated Agent P.O. Box 545 Pennsboro, WV 2641	Jarrett W. Shepherd
MY COMM	PUBLIC OFFICIAL SEAL BV: TE OF WEST VIRGINIA ITS: JODI L JONES Address 300 PIKE AVENUE ENNSBORO WV 26415 ISSION EXPIRES MAY 19, 2021 olephone	Designated Agent P.O. Box 545 Pennsboro, WV 2641	Jarrett W. Shepherd 5 RECEIPTOR AND Gas
MY COMM	PUBLIC OFFICIAL SEAL BV: TE OF WEST VIRGINIA ITE: JODI L JONES Address 300 PIKE AVENUE	Designated Agent P.O. Box 545 Pennsboro, WV 2641 304-659-2123	Jarrett W. Shepherd 5 REGEL VIGAS OPTICE OF OFF and Gas
MY COMM	PUBLIC OFFICIAL SEAL BV: IE OF WEST VIRGINIA ITS: JODI L JONES Address 300 PIKE AVENUE ENNSBORO WV 26415 ISSION EXPIRES MAY 19, 202Folephone sworn before me this	Designated Agent P.O. Box 545 Pennsboro, WV 2641 304-659-2123	Jarrett W. Shepherd 5 REPER PART AND GAS OPHIE OF OFFI AND GAS AND
MY COMM	PUBLIC OFFICIAL SEAL BV: IFE OF WEST VIRGINIA ITS: JODI L JONES Address 300 PIKE AVENUE ENNSBORO WV 26415 ISSION EXPIRES MAY 19, 202Folephone sworn before me this Expires May 19, 202Folephone	Designated Agent P.O. Box 545 Pennsboro, WV 2641 304-659-2123	Jarrett W. Shepherd 5 REPER PARAMETERS OPHICO OPHICAL AND

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.

SURFACE OWNER WAIVER

Operator's Well Number

Harley Smith No.1

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.

<u>Comments must be in writing.</u> 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:

- 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.

and Application For A Fermit 1	o riug Ana Abandon on Forms ww-4	A and ww-4b, and a survey plat.
objection to a permit being issue	ed on those materials.	rk described in these materials, and I have no
FOR EXECUTION BY A NATU	JRAL PERSON	FOR EXECUTION BY A CORPORATION,
ETC.	E 17-15	SEP 01 200
	Date 5-27-15 Name	-tment of
Signature	$_{ m By}$	INV Depart Protection
	Its	EnvironmentoDate
		1,11

Signature

Date 10/09/2015

WW-9
(2/15)

API Number 47 - 085 - 04375

Operator's Well No. Harley Smith No.1

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

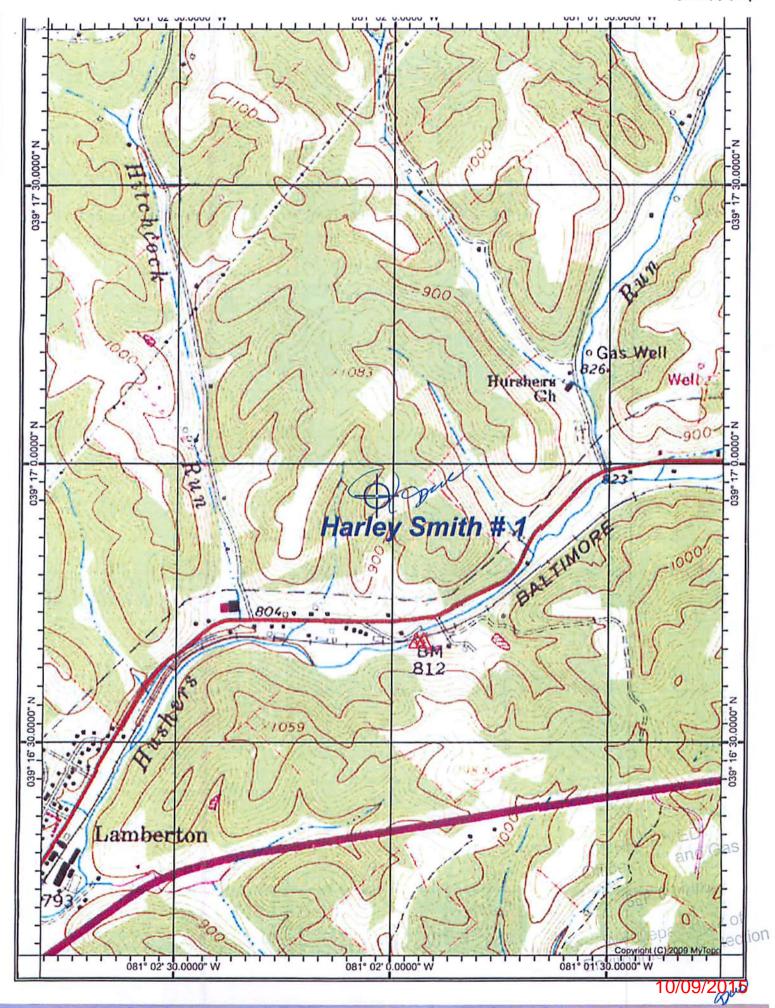
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Ritchie Petroleum Corporation OP Code 308319
Watershed (HUC 10) Husher's Run Quadrangle Ellenboro 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes V No No
If so, please describe anticipated pit waste: Fluids encountered in plugging subject well
Will a synthetic liner be used in the pit? Yes No If so, what ml.?20 mil
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number)
Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop system be used? If so, describe:
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium?
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any 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.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 Company Official (Typed Name) larrett W. Shepherd Company Official Title Designated Agent Designated Agent Designated Agent Notary Public Notary Public
My commission expires

1 10 15

roposed revegetation fre	atment: Acres Disturbed _	~0.5	Prevegetation pH	6.0
Lime 2	Tons/acre or to corr	ect to pH		
Fertilizer type 10	-20-20			
Fertilizer amount_	500	lbs/acre		
Mulch_Straw	2	Tons/acre		
		Seed Mixtures	er e e e e e e e e e e e e e e e e e e	
7	Cemporary		Permanen	it
Seed Type	lbs/acre		Seed Type	lbs/acre
Tall Fescue	40	Tall F	escue	40
Ladino Clover	5	Ladin	Clover	5
provided)	n, pit and proposed area for		ess engineered plans incluc	ling this info have
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Form WW-9

Ritchie Petroleum (
Proposed Revegetation Treatn	nent: Acres Disturbed	0.5 Prevegetation p	н <u> </u>		
Lime 2	Tons/acre or to correc	t to pH			
Fertilizer type 10-20	0-20				
Fertilizer amount 5	500	lbs/acre			
Mulch Straw	2	Tons/acre			
		<u>Seed Mixtures</u>			
Ten	iporary	Perma	Permanent		
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 provided) Photocopied section of involve		and application (unless engineered plans in	cluding this info have b		
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WW-7 8-30-06

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

API:	47-085-04375	WELL NO:	HARLEY	SMITH # 1
FARM NAME:		SMITH		
RESPONSIBL	E PARTY NAME:_	JASON F. SHEPHI	ERD	
COUNTY:	RITCHIE	DISTRICT:	CLAY	
QUADRANGL	E:	ELLENBORO		
SURFACE OW	NER: STEVE	N D. LIPSCOMB & L	DARREL D	. LIPSCOMB
ROYALTY OV	VNER:	HARLEY SMITH		
UTM GPS NOI	RTHING:	4348114		
UTM GPS EAS	TING:	497131		
GPS ELEVATI	ON:	312 METERS (102	25')	
new well locatio The Office of Oi 1. Datum: NA Altitude: H 2. Accuracy t 3. Data Colle Survey gra Mapping O 4. Letter size I, the undersigne	n plat for plugging per land Gas will not act AD 1983, Zone 17 Noteight above mean set to Datum - 3.05 meter ction Method: de GPS : Possible Copy of the topograd d, hereby certify this equired by law and the	orth, Coordinate Units: met a level (MSL) - meters.	ber on the abodo not meet theres. Ell location. of my knowled rescribed by the	dge and belief and shows he Office of Oil and Gas. RECEIVED Millional Surveyor # 551
-			Title	SEP 0 1 2015
August 6th, 2 Date	013		En	WV Department of wirenmental Protection