

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 12, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-1705441, issued to PROFESSIONAL OILFIELD SERVICES, INC., 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: G. HINTERER 2

Farm Name: RILEY, FAYE HINTERER

API Well Number: 47-1705441 Permit Type: Re-Work

Date Issued: 02/12/2015

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

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WV₂ - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operat	or: Profe	ssional (Olfield Services, In	c. 494461323	Doddridge	Cove	Vadis 7 5']
				Operator II		District	Quadrangi	ie
2) Operator's V	Vell Numl	ber: Gerti	rude Hinterer #2		3) Elevation	859'	-	
4) Well Type: (a) Oil	or G	as X					
(1	b) If Gas:	Prod	uction _X_ / Unc	derground St	orage			
		Dee	ep/ S	hallow X				
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	fresh wa	ter strat		ormation at	Proposed Ta Proposed Tot	rget Depth: _ al Depth: _ ^{Big}	2,010'	
9) Approximate	coal sea	m depth	s: N/A					
10) Approximat	e void de	pths,(co	al, Karst, other):	None shown o	n offset record	(8)		
11) Does land o	contain co	al seam	s tributary to acti	ve mine? _	No			
Re-work - Set bridg	e plug at 2.	.085', per	nd fracturing metho	ation at 1.970' -	2.010' After o	completion of	of the re-	wor
the well will	be put i	nto pro	oduction and ev	aluated. I	he bridge p	lug will re	main in pla	ace
and abandon th	e well a	t wich	the Bridge plu time the bridg	g and produ e plug will	be drilled	out.	w, or 2) pl	Lug
13)			SING AND TUB			SF-07- E-4		
TYPE S	PECIFICA	ATIONS		FOOTAGE	INTERVALS	CEMEN	<u>vt</u>	
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	Ft.)	
Conductor								
Fresh Water						7.71		
Coal			Existing -	See attached	Well	Recor	-	
Intermediate								
Production			0	RECENT RECENT	/ED			
Tubing					-110 003			
Liners			-	FEB 9	2015	sette a g	. == = =	
Packers Kind Sizes			V Envi	VV Departi ronmental	ment of Protection			

WR-35 Rev (5-01) DATE: 12-28-09

12-28-09 API #: 47-1705441 - F

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Riley Faye Hinterer, et al	Open	ator Well No.: 9	Gertrude Hintere	e <u>r #2</u>
LOCATION: Elevation: 880'	Quad	rangle:_ <u>Vadis 7</u>	7.5°	
District: Cove 2	County:	Doddridge		
Latitude: 4,480 Feet South of 39	Deg. 06	Min. 45.5	Sec.	
Longitude 11,180 Feet West of 80		Min. 51.9	Sec.	
				
Company: Profesional Oilfield Services, Inc.		20		
	Casing &	Used in	Left in well	Cement fill
	Tubing	drilling		up Cu. Ft.
Address: 221 1/2 S 6th St. PO Box 247	11 3/4"		211	133
Byesville, OH 43723	8 5/8"		1232	378
Agent: Clinton Means	4 1/2"		524	992
Inspector: David Scranage 500			N. 614	
Date Permit Issued: 9-26-07 × 10/13/09			10000	
Date Well Work Commenced: 11-12-09 × 1			10/3	
Date Well Work Completed: 11-12-09				
Verbal Plugging: NA				
Date Permission granted on: NA				
Rotary Cable Rig		L	VC- 2	
Total Depth (feet): 5318'				
Fresh Water Depth (ft.): 85				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No			~	
Coal Depths (ft.):_NA	l	1		1
ODEN EL ONI DATA				
OPEN FLOW DATA				
Producing formation Alexander Sandsto	one Pay zone	a denth (A) 50	na I	DEOF
	l: Initial open		bl/d	RECEIVED
	Final open flo		bl/d	Office of Oil & Gas
Time of open flow between initial and				DEC 3 0 2009
Static rock Pressure 1800 psig (sur	iace pressure)	aner	iours	WV Department of
6dd	D	J4. (0) 45	421	nvironmental Protection
Second producing formation Benson Sand				
	: Initial open		Bbl/d	
	Final open flo		bl/d	
Time of open flow between initial and		12 Hour		
Static rock Pressure 1800 psig (sur	face pressure)	after 24_F	Iours	
NOTE, ON DACY OF THE FORM BUT THE	COLLOWING.	1) DETAILS	DE DEDECOR AT	
NOTE: ON BACK OF THIS FORM PUT THE I INTERVALS, FRACTURING OR STIMULATIN				
LOG WHICH IS A SYSTEMATIC DETAILED				
INCLUDING COAL ENCOUNTERED BY THE		JALCOND OF	ALL FORMA	110143,
	,, apadom.			
Signed:	JR L			
By: David R	. H:11			
Date: /2-28-0	9			

Operator Name:

Professional Oilfield Services, Inc.

API#

47-1705441

Well Name:

G. Hinterer #2

Formation Intervals: Salt Sand

1630' - 1667' Greenbriar 1868' - 1918' Big Injun Sandstone 1918' - 2009' Weir Sandstone 2088' - 2204' Berea Sandstone 2292' - 2301' Gordon Sandstone 2499' - 2517' Warren Sandstone 3182' - 3228' Speechley Sandstone 3357' - 3397' Riley Sandstone 4316' - 4350' **Benson Sandstone** 4743' - 4757' Alexander Sandstone 5004' - 5128'

Perforated Intervals: Stage 1

5004 - 5010 13 shots, 5025 - 5029 9 shots, 5036 - 5050 33 shots, 5066 - 5074 17 shots, 5089 - 5096 15 shots, 5113 - 5128 31 shots

Stage 2

4540 - 4554 9 shots, 4613 - 4618 11 shots 4648 - 4679 63 shots, 4744 - 4756 25 shots

Stage 3

3710 – 3714 9 shots, 3792 – 3800 17 shots, 3835 – 3842 15 shots 3887 – 3902 31 shots, 3912 – 3918 13 shots, 3929 – 3932 7 shots 3966 – 3970 9 shots, 3976 – 3980 9 shots, 4078 – 4081 7 shots

Stage 2

4234 – 4238 9 shots, 4320- 4348 57 shots

Stage 1

Fracturing Details	3:
--------------------	----

	•		
Breakdown Pressure:	402 PSI	1602 PSI	1619 PSI
Average Pressure:	2731 PSI	2656 PSI	2440 PSI
Instant Shut-In:	1675 PSI	2160 PSI	1469 PSI
Average Rate:	13 BPM	13 BPM	13 BPM
Total 15% HCL:	1250 gallons	NA	250 gallons
Total Nitrogen:	261,000 SCF	276,000 SCF	223,000 SCF
Total Sand:	265 sacks	303 sacks	302 sacks

Comment of the or the file

Stage 3

\$ 1 € \$ \$ € € €

Received Office of Oil & Gas

DEC 08 5014

02/13/2015

Notary Public						1 (0)	
(Rev. 6-14) 1). Date: 2.) Operator's Well Number State County Permit 3.) API Well No.: 47- 017 *** O5441 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: 5) (a) Coal Operator (a) Name Rilev Fave Hinterer, et al Name None Address 3663 US Hiahway 33 W Address (b) Name Address (b) Coal Owner(s) with Declaration Name None Address Address (c) Name Address Name None Address Address (c) Name Address Name None Address Name None Address Address 6) Inspector Address Address Name None Address None Name None Address Name None Address None Name None Address None Name None Address None None None Address None None None None None Address None None None None None None None None							
2.) Operator's Well Number State County Permit 3.) API Well No.: 47- 017 - 06441 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: 5) (a) Coal Operator (a) Name Riley Fave Hinterer, et al. Name None Address 3663 US Hichway 33 W Address Weston. WV 26452 (b) Name Address	COLO DICT. DEC. D		1). Date:				
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Riley Fave Hinterer, et al Name None Address Weston, WV 26452 (b) Name Address (b) Name Address (c) Name Address (d) Name Address (e) Name Address (f) Inspector Address (g) Inspector	(Nev. 0-14)		2) Opera	ator's Well Numb	er Gertru	de Hinterer #2	
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: 5) (a) Coal Operator (a) Name Riley Fave Hinterer, et al Address Address Address Address (b) Name None Address None Address None Address Address (c) Name None Address (d) Name None Address (e) Name None Address (f) Name None Address (g) Name None Address Address (g) Name None Address (g) Name None Address Address Address Address Address Address Address (g) Name None Address Ad			2., opore			500 950	
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Riley Fave Hinterer, et al. Name None Address 3663 US Highway 33 W Weston, WV 26452 (b) Name Address None Address None Address None Address None Address Address (c) Name None Address Address (c) Name None Address Address 6) Inspector Douglas Newlon (c) Coal Lessee with Declaration Address Address Telephone 304-932-8049 To THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR I certify that as required under Chapter 22- Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22- of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by. Personal Service (Affidavit attached) A Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application form and all attachments, 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 penaltics for submitting false information, including the possibility of fine and improve the personal DOHN A SUHAR Well Operator Well Operator Professional Oilfield Services. Inc. Office and Professional Oilfield Services. Inc.			3.) API W	4-7	· · · · · · · · · · · · · · · · · · ·		
4) Surface Owner(s) to be served: (a) Name Riley Fave Hinterer, et al Address (b) Coal Operator (a) Name Riley Fave Hinterer, et al Address (b) Name Address (c) Name Address (c) Name Address (d) Name Address (e) Name Address (f) Inspector Address (g) Inspector Address (h) Inspector Addr			*.				
A) Surface Owner(s) to be served: (a) Name Rilev Fave Hinterer, et al Address Weston, WV 26452 (b) Name Address Weston, WV 26452 (c) Name Address (d) Inspector Address (e) Douglas Newlon (c) Coal Lessee with Declaration Address (f) Inspector Address (g)	DED				E OIL AND	CAS	
4) Surface Owner(s) to be served: (a) Name Rilev Fave Hinterer, et al Address 3663 US Highway 33 W Address Weston, WV 26452 (b) Name Address Name None Address (c) Name Address (c) Name Address (d) Inspector Address (c) Inspector Address (d) Inspector Address (e) Inspector Address (f) Inspector Address (g) Inspector Address (h) Coal Lessee with Declaration (h) Coal Lessee with Declaration (h) Inspector Address (h) I	DEF					GAS	
(a) Name Address		NO HOL AND ALL LIGATIO	JIL I GIV / IVI		1 (1011)		
Address Meston, WV 26452 (b) Coal Owner(s) with Declaration	4) Surface Ow	mer(s) to be served: 5)	(a) Coal Oper	rator			
(b) Name Address (c) Coal Lessee with Declaration Name None Address (d) Ducthman Road Name None Address (e) Coal Lessee with Declaration Name None Address (f) Name Address (g) Name Address (h) Coal Lessee with Declaration Name None None None None Address (h) Coal Lessee with Declaration Name None None None None Address (h) Coal Lessee with Declaration Name None None None None None None None Non	(7) X			None		-	
(b) Coal Owner(s) with Declaration Name None Address (c) Name Address (c) Name Address Name Address (c) Name Address Name Address (d) Inspector Address (e) Inspector Address (f) Inspector Address (g) Inspector Address Address (g) Inspector Address (h) Inspector Inspector Address (h)	Address		Address				
Address (c) Name	/L\ NI	Weston, WV 26452	(h) C1 C-				
(c) Name Address Address Address Address 6) Inspector Address Douglas Newlon Address (c) Coal Lessee with Declaration Address Telephone To the Persons Name Address Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Thave read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Professional Oilfield Services, Inc. Officer The Gas			the second second second		aration		
(c) Name Address Address Address 6) Inspector Address 6) Inspector Address Address Compact	Address			Inone			
Address Address Address Address Address Co Coal Lessee with Declaration Name None Address Telephone To THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and Imprisonment. Well Operator Professional Oilfield Services, Inc. Office and Cass			Addless				
Address Address Address Address Douglas Newlon Address 4060 Dutchman Road Address Name None Macfarlan, WV 26148 Telephone To THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and Imprisonment. Well Operator Professional Oilfield Services, Inc. Office and Professional Oilfield Services, Inc.	(c) Name		Name				
Address 4060 Dutchman Road	No. 10	· · · · · · · · · · · · · · · · · · ·	Address				
Address 4060 Dutchman Road							
Telephone Macfarlan. WV 26148 To the persons named and and service of Publication I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and conflicted Services, Inc. Macfarlan. WV 26148 Address A	60				ition		
Telephone 304-932-8049 TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached)	Address			None			
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and programment. Well Operator Professional Oilfield Services, Inc. Office O	T 1 1		Address				
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas Note	Telephone		D ABOVE TA	VE NOTICE TH	\т.	19	
Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and improsonment. Well Operator Professional Oilfield Services, Inc. Office Case Gas	Included is th					ract oil and gas	
Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and professional Oilfield Services. Inc. Well Operator Well Operator Well Operator Professional Oilfield Services. Inc. Office Offic		to readed or readed or earner community com	master semes			J	
application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Z Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Professional Oilfield Services, Inc. Office Case Gas	x Included is the second of						
Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Professional Oilfield Services, Inc. Office Accurate Gas	I certify t	that as required under Chapter 22-6 of	the West Virgin	ia Code I have se	erved copies of	this notice and	
Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and professional Oilfield Services. Inc. Well Operator Well Operator Professional Oilfield Services, Inc. Office Gas	application, a loc	Personal Service (Affidavit attache	s pages i tilloug ed)	gii oii tile abov	e nameu parti	es by.	
I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator JOHN A SUHAR By: Professional Oilfield Services, Inc. Office Gas	_)			
issued under this application. 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, 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 and procession and processio	_			2	V 1006		
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, 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 and professional oilfield Services. Inc. Well Operator JOHN A SUHAR By: Professional Oilfield Services, Inc. Gas			5 CSR 4, and I	agree to the term	s and conditio	ns of any permit	
this application form and all attachments, 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 and Feesived Well Operator JOHN A SUHAR By: Professional Oilfield Services, Inc. Office Gas			ally examined a	nd am familiar wit	n the informati	on submitted on	
I am aware that there are significant penalties for submitting false information, including the possibility of fine and Pacsived Well Operator JOHN A SUHAR By: Professional Oilfield Services, Inc. Office Control Gas	this application f	orm and all attachments, and that base	d on my inquiry	of those individua			
JOHN A SUHAR Notary Bublic Well Operator By: Professional Oilfield Services, Inc. Office Gas					iding the peed	bility of fine and	
JOHN A SUHAR Well Operator By: Professional Oilfield Services, Inc. Office Gas		are that there are significant penalties for	r submitting rais	e information, incit	ding the poss	Received	
Notary Public	1177	Well Operator P	Professional C	ilfield Services.	Inc.	5.00	Gae
In and for the State of Ohio.	03	Motory Public Dy. —	0				~~
Address: 221 1/2 Cith Stroot Lin Boy 2/17	*	n and for the State of Ohio			v 2/17	DET 6.8.71114	
My Commission Expires November 06, 2018		,			A 471		

My Commission Expires

//-۵-20/8

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 peeded to comply

Email: OilWell@netscape.com

Notary Public

Telephone: 740-685-5168

day of

Subscribed and sworn before me this

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 about 015 depprivacyofficer@wv.qov

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County	Doddridge	Operator Operator	Professional Oilfield Services, Inc.	
and and an artist and an artist and artist artist and artist artist and artist artist and artist ar	1 =====	Operator well number	Gertrude Hinterer #2	
		•		

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 FIFTEEN (15) 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 a dequate 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:

- 1) 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.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on F orm WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON	FOF	R EXECUTION BY A CORF	PORATION, ETC.
Date 1	Company Name		
Signature	By		
Don't Rily Zickle Exec.	Its		Date
J	•		
Print Name Receiv	iod -		
Office of O	il & Gas	Signature	Date

No. 18 No. 18 No. 18 18 No. 18 18 No. 18 No.

en Turk in State of the State o

n de la composition della comp

THE PARTY OF THE PROPERTY OF THE PARTY OF TH

প্ৰথম আই মানুন প্ৰতিপ্ৰতিষ্ঠা কৰিছে এই চন্দ্ৰ এই কিছিল অনুষ্ঠান কৰিছেই প্ৰতিবাদন

. H. 282 75

THE M. PARTY OF A P. OF ARRESTS.

(A) The second of the secon

ा । स्व अनुहर्मान स्वेता भूतिक स्वार । हात्र अध्यक्त स्व १० ५००

A. The second of the second of

A. F. (2)

and the first of the same of the same

own and greating transfer that it presign

in the least of a series of the property of the property of the first of the property of the

r i de grande de

Operator's Well Number Gertrude Hinterer #2

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Riley Fay Hinterer, et al	JMI Smith	1/8th	4/31
JMI Smith	Professional Oilfield Services, Inc.	W.I.	By Assignment
	(David R. Hill, Inc.)		194/277

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- · U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Received Office of Oil & Gas Well Operator: By:Its:

Professional Oilfield Services, Inc.

David R. Hill , President

- Rb

WW-9 (5/13)

]	Page of
API Number 47 - 017	- 5441
Operator's Well No	. Gertrude Hinterer #2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Professional Oilfield Services, Inc.		OP Code494461	1323	
Watershed (HUC 10) Cove Creek	Quadrangle _	Vadis 7.5'		
Elevation 859' County Doddri	idge	DistrictCove		
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used for drill cuttings? Yes No _X		ell work? Yes	No _X	
If so, please describe anticipated pit waste:				
Will a synthetic liner be used in the pit? Yes	_ NoX If so	o, what ml.?		DCF 2019
Proposed Disposal Method For Treated Pit Wastes:				DC P 2014
Land Application Underground Injection (UIC Perm Reuse (at API Number_	nit Number_ 34-059-40			
Off Site Disposal (Supply form WV				WELL EFFLURNT
Other (Explain				F BE CONTAINED
Will closed loop system be used?			N	DE OPERLY
Drilling medium anticipated for this well? Air, freshwater, oil	based, etc.		01	J. Was
Additives to be used in drilling medium?			Rec	Pincal
-If oil based, what type? Synthetic, petroleum, etc Additives to be used in drilling medium? Drill cuttings disposal method? Leave in pit, landfill, removed	d effeite etc		Office of	Cukan
			DECA	0.000
-If left in pit and plan to solidify what medium will be		7,		8 71114
-Landfill or offsite name/permit number?				
I certify that I understand and agree to the terms and on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that, base obtaining the information, I believe that the information is penalties for submitting false information, including the possible process.	Virginia Department of any term or conditional of any term or conditional of a conditional of true, accurate, and of true, accurate, accurate, and of true, accurate,	of Environmental Petion of the general familiar with the f those individuals complete. I am as	rotection. I und permit and/or of information sul s immediately	lerstand that the other applicable bmitted on this responsible for
Company Official Signature 5 2				
Company Official (Typed Name) Clinton Means	David	R. Hill		
Company Official Title — Designated Agent	Preside	nt		=
Subscribed and sworn before me this 26 day of	Novembe *	Notary Pub	In and fo My Con	HN A SUHAR otary Public r the State of Ohio mmission Expires

	EGEND
Property Boundary	Diversion Control of the Control of
Road = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow
Open Ditch	Cross Drain 7////////////////////////////////////
Rock # 888	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 1 ±	Prevegetation pH
Lime3 Tons/acre or to correct to pH	6.5
Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/a	cre (500 lbs minimum)
Mulch HAY 2 Tons/ac	re
Seed	Mixtures
Area I	Area II
Area I Seed Type lbs/acre	Area II Seed Type Ibs/acre
Seed Type Ibs/acre	Seed Type lbs/acre
Seed Type lbs/acre KY-31 40	Seed Type Ibs/acre ORCHARD GRASS 15
Seed Type lbs/acre KY-31 40 ALSIKE CLOVER 5	Seed Type Ibs/acre ORCHARD GRASS 15
Seed Type lbs/acre KY-31 40 ALSIKE CLOVER 5	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type lbs/acre KY-31	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type lbs/acre KY-31	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type lbs/acre KY-31	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type KY-31 ALSIKE CLOVER 5 ANNUAL RYE 15 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Daugles Assulting	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5 cation.
Seed Type lbs/acre KY-31	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type KY-31 ALSIKE CLOVER 5 ANNUAL RYE 15 Attach: Drawing(s) of road, location, pit and proposed area for land applie Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Douglas Newlor Comments: 115 Attach: Drawing(s) of road, location, pit and proposed area for land applie Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Douglas Newlor Comments: 115 Attach: Drawing(s) of road, location, pit and proposed area for land applie Photocopied section of involved 7.5' topographic sheet.	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5
Seed Type KY-31 AU ALSIKE CLOVER 5 ANNUAL RYE 15 Attach: Drawing(s) of road, location, pit and proposed area for land applic Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Dougles Powler Comments: 115 Comments: 115 Need Proof 4 12 hength in well Title: O, I - bag inspector	Seed Type Ibs/acre ORCHARD GRASS 15 ALSIKE CLOVER 5

		LEGEND	
Property Boundary		Diversion (1-1/11)	
Rond = = = = =		Spring	
Existing Fence — 🗶 —	- × ×	Wet Spot	
Planned Fence /	-/-/-	Drain Pipe with size in inches	— ⊕ —→
Stream		Waterway $\longleftrightarrow \longleftrightarrow \longleftrightarrow$	$\Rightarrow \Leftrightarrow \Longleftrightarrow$
Open Ditch		Cross Drain	
Rock ESSES	*	Artificial Filter Strip	****
North N	·	Pit: cut walls	MALL.
Buildings		Pit: compacted fill walls	PT TITES
Water wells W		Area for Land Application of Pit	Wester Company
Drill site		<u> Ezz</u>	
Proposed Revegetation Treatme	ent: Acres Disturbed	1 ± Prevegetation pH	
Lime 3	Tons/acre or to correct	to pH6.5	
Fertilizer (10-20-20 or	requivalent) 1/3 TON	lbs/acre (500 lbs minimum)	
Mulch HAY	2	Tons/acre	
		Seed Mixtures	
Area	I	Area	11
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15	-	
Attach: Drawing(s) of road, location,pit	and proposed area for lar	nd application.	
Photocopied section of involved	d 7.5' topographic sheet.		
Plan Approved by: <i>Douge</i>	les Newbor		
Comments: 115ta.//	ESS TO WO	Den resolations	
Nac O ila O il II	10.46	Dep regolations 11 524' on record	
HEER PROOF 72	rengin in we	V 524 on record	
Title: O, 1 - bag 103	Prector		
Gield Paviewed?) Voc	/ NNo	

Form WW-9

Gertrude Hinterer Lease Well No. 2

1705441W

page of

A7-017-5441

DISC MARGE

SURFAIG

JOSE J

SURFAIG

JBOUNDARY

MIN . CUT + FILL MELDED

MIN . CUT + FILL MELDED

C. HINTERER # 2

47-017-5441

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANGE WITH WY D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WY D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

EXISTING CULVERT S

SEDIMENT BASINS(TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND CUTLETS AS REQUIRED IN THE WV D.E.P. CIL AND GAS BMP MANUAL. FIELD CONDITIONS(ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACK BRUSH BELOW LOCATION FOR SEDIMENT CONTROL.

Received
Office of Oil & Gas

DEC 0 8 2014

118

RT

55,

N.V.

DAMME NOT TO SCALE)



SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

Phone (304) 462-5634 Fax 462-5656 email: sls@rtol.net

10/1/14

DRAWN BY C.P.M. DATE 8/25/09 FILE NO. GOTZ

1705441 W

FORM WW-9

GERTRUDE HINTERER LEASE WELL NO. 2

page of

(47-017-5441)





