

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

November 06, 2013

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-2105764, issued to DORWARD ENERGY CORPORATION, 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

hiaf

Operator's Well No: SPROUSE #9

Farm Name: HEARTWOOD FOREST LAND FU

API Well Number: 47-2105764
Permit Type: Vertical Well
Date Issued: 11/06/2013

Promoting a healthy environment.

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. 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 within 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. If well work related activities require the use of water obtained by withdrawals from waters of this state in amounts that exceed two hundred ten thousand gallons during any thirty day period, the operator is required to consult, and adhere to, the guidance provided by DEP's Water Withdrawal Guidance Tool prior to any water withdrawals.

WW - 2B (Rev. 8/10)

Depths Set



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

					21	03	
) Well Operato	or: Dorwa	ard Energ	gy Corporation	309135	Gilmer	Glenville	Gilmer 7.5'
				Operator ID	County	District	Quadrangle
) Operator's V	Vell Numb	er:_Spro	use No. 9		3) Elevation:	833'	-5
) Well Type: (a	a) Oil	or Ga	ıs X				
(1	o) If Gas:	Produ	ction X / Un	derground Sto	rage		
		Deep	o/ S	Shallow X	_		
) Proposed To) Approximate	otal Depth fresh wa	: 2,960 ter strata	: Gordon & 5th S Feet a depths: 140' : None shown on offs	Formation at F	Proposed Tar Proposed Tota	get Depth: Gor	2520', 2640', 2880' don & 5th Sand
) Approximate	coal sea	m depths	s: None				
				None shown o	on offset records		
о) Арргохіпа	ie void de		al, Karst, other):				-
					No.		
1) Does land	contain co	al seam	s tributary to ac	tive mine? _			
Does land Describe pro			s tributary to ac				
2) Describe pro	posed we	ll work ar		nods in detail (a			
2) Describe pro	posed we	ll work ar	nd fracturing meth	nods in detail (a			
2) Describe pro	posed we	ll work ar	nd fracturing meth	nods in detail (a			
2) Describe profill and stimulate.	See attack	ll work ar	nd fracturing meth g & Frac Schedule	nods in detail (a	ttach additiona	al sheets if ne	eeded)
2) Describe profill and stimulate.	posed we	ll work ar	nd fracturing meth g & Frac Schedule	nods in detail (a	ttach additiona	al sheets if ne	eeded)
2) Describe profill and stimulate.	See attack	ll work ar	nd fracturing meth g & Frac Schedule	nods in detail (a	ttach additiona	al sheets if ne	eeded)
2) Describe pro ill and stimulate. 3) TYPE S	See attack	II work ar	nd fracturing meth g & Frac Schedule	nods in detail (a BING PROGR FOOTAGE	ttach additiona	al sheets if ne	eeded)
2) Describe profill and stimulate. 3) TYPE Conductor	See attack SPECIFIC Size	Il work ar hed Drillin CA ATIONS	nd fracturing mething & Frac Schedule ASING AND TU Weight per ft	BING PROGR FOOTAGE For Drilling	ttach additiona	al sheets if ne	eeded)
2) Describe profill and stimulate. 3) TYPE Conductor Fresh Water	SPECIFIC Size 10.75"	Il work ar hed Drillin CA ATIONS Grade J-55	Meight per ft	BING PROGR FOOTAGE For Drilling 40' 600'	AM INTERVALS	S CEME	eeded)
2) Describe profill and stimulate. 3) TYPE S Conductor Fresh Water Coal	SPECIFIC Size 10.75"	Il work ar hed Drillin CA ATIONS Grade J-55	Meight per ft	BING PROGR FOOTAGE For Drilling 40'	ttach additiona	S CEME	eeded) ENT I. Ft.) S
2) Describe profill and stimulate. 3) TYPE S Conductor Fresh Water Coal Intermediate	SPECIFIC Size 10.75"	CAATIONS Grade J-55 J-55	Meight per ft 40.5#	BING PROGR FOOTAGE For Drilling 40' 600'	AM INTERVALS	CEME Fill -up (Cu CTS	ENT I. Ft.) S A T T T T T T T T T T T T
2) Describe profill and stimulate. 3) TYPE S Conductor Fresh Water Coal Intermediate Production	SPECIFIC Size 10.75" 7"	CAATIONS Grade J-55 J-55	Weight per ft 20#	BING PROGR FOOTAGE For Drilling 40' 600'	AM INTERVALS	CEME Fill -up (Cu CTS	eeded) ENT I. Ft.) S S
2) Describe pro rill and stimulate.	SPECIFIC Size 10.75" 7"	CAATIONS Grade J-55 J-55	Weight per ft 20#	BING PROGR FOOTAGE For Drilling 40' 600'	AM INTERVALS	CEME Fill -up (Cu CTS	S /3 S

Dorward Energy Corporation

DEC Contacts

	Home Phone	Cell/Work Phone	E-mail
Dave Dorward	(304) 462-4006	(614) 395-1524	Dave@dorwardenergy.com
Eddie Bartlett	(304) 659-2870	(304) 481-5827	Eddie@dorwardenergy.com
Dustin Haddox	(304) 349-2757	(304) 539-2127	Dustin@dorwardenergy.com
DEC Office	(727) 490-1778	(614) 559-6672 (fax)	(727) 490- 1780 (fax #2)

Sprouse #9

833' elevation 38° 56' 39.8" N 80° 39' 45.3" W

Expected Stratigraphy	Depth (ft.)	Thickness (ft.)	Gas Checks	Expected Pay Zones
Third Salt Sand Top	1471	31	1502	
Salt Layers Top	1502	30		
Salt Layers Bottom	1532			
Maxton Top	1842	34	1876	
Little Lime Top	1876	29		
Blue Monday Top	1905	25	1930	
Big Lime Top	1930	116	2016	
Big Injun Top	2045	31		
Keener Top	2077	13	2089	
Squaw Top	2089	20		/
Weir Top	2110	105		
Weir Bottom	2215			
Godron Stray Top	2491	14		✓
Gordon Stray Bottom	2504			
Gordon Top	2597	35		✓
Gordon Bottom	2632			
Fifth Sand Top	2842	19		· ·
Fifth Sand Bottom	2861			
Well Total Depth	2960			
Rathole Below Bottom Perf's	99			
Prod CSG Cement Above Top Perf's	300	1171		
Top Perf's in Squaw	2089		At market and the state of the	

Office of Oil and Gas

NOV 5 2013

WV Department of Environmental Protection

210576

Dorward Energy Corporation Sprouse #9

Hardware						
10.75" J-55 or H-40 Conductor	1	joint of 40' pipe @	40	total pipe depth	10.75	"OD
10.75 1-35 01 11-40 conductor		40.5#/ft.	-10	total pipe depth	10.05	"ID
7" J-55 Surface Casing	21	joints of 40' pipe	840	total pipe depth	7	"OD
7 3-33 Surface Casing	2.1	@ 20#/ft.	040	total pipe depth	6.456	"ID
4.5" J-55 Production Casing	74	joints of 40' pipe	2960	total pipe depth	4.5	"OD
4.5 1-55 Floduction Casing	/4	@ 10.5#/ft.	2900	total pipe deptil	4.052	"ID

Bit Sizes Per Drilling Sequence		
12.25" Bit	Conductor Drill Out	12.25
9.625" Bit	Surface Drilling	9.625
6.25" Bit	Production Drilling	6.25

Expected Annular Volumes				
			Annular Volume/ Vertical F	
	CSG OD (in.)	Annular OD (in.)	ft ³ /vert. ft.	bbl/vert. ft.
Conductor vs. Open Hole	10.75	12.25	0.18816831	0.03351172
Surface Casing vs. Open Hole	7	9.625	0.238022686	0.042390505
Production Casing vs. Open Hole	4.5	6.25	0.10260627	0.018273601
Production CSG vs. Surface CSG	4.5	6.456	0.116882169	0.020816059

		Cement Vo	lume Needed	With Safety Factor:	1.20
Cement Volume	Fill-Up (ft.)	ft ³	bbl	ft ³	ldd
Conductor vs. Open Hole	N/A	N/A	N/A		
Surface Casing vs. Open Hole	840	199.939	35,608	239.927	42.730
Production Casing vs. Open Hole	1171	120.113	21.392	144.136	25.670
Production CSG vs. Surface CSG	N/A	N/A	N/A		

Frac Baffles on Top of Joint #'s	21	11	8	2	
at Depths of:	2120	2520	2640	2880	
Centralizers	9	*to be run every this	rd joint starting on join	t one	
Cement Baskets	9	*to be run every third joint starting on joint two			

WW-2	2A
(Rev.	6-07)

1). Date:				
2.) Operator's Wel	l Number	Sprouse I	No. 9	
	State	County		Permit
3.) API Well No.:	47-	21	-	05764

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

 Surface Ov (a) Name 	Heartwood Forest Land F	und IV	Name	N/A			
Address	3001 Emerson Avenue		Address				
	Parkersburg, WV 26104						
(b) Name	-		(b) Coal Ov	wner(s) with	Declaration	n _:	
Address			Name	N/A - No Decla	aration on record	1	
			Address				
(c) Name			Name	-	H		
Address	-		Address				
71001000	O C			4			
6) Inspector	Bryan Harris		(c) Coal Le	ssee with D	eclaration		
Address	P.O. Box 157		Name	N/A			
	Volga, WV 26238		Address				
Telephone							
			MED ABOVE TA				
OR × Included is t I certify	he lease or leases or he information require that as required und cation plat, and accon Personal Servi	ed by Chapter 22 er Chapter 22-6 npanying docume	, Article 6, Section of the West Virgingerts pages 1 throu	n 8(d) of the 0 nia Code I h	Code of Wes	st Virginia (see page copies of this notic	2)
N Included is to I certify application, a local I have received under this I certify this application obtaining the information.	he information require that as required und cation plat, and accon Personal Servi X Certified Mail (Publication (No cad and understand C	ed by Chapter 22-6 er Chapter 22-6 er Chapter 22-6 er (Affidavit attace Postmarked postotice of Publication Chapter 22-6 and that I have persents, and that bat the information nificant penalties	, Article 6, Section of the West Virginal pages 1 throughed) al receipt attached are accorded at a sed on my inquiring true, accurate a for submitting fallows.	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above named terms and the idea with the idividuals immediate.	st Virginia (see page copies of this notice med parties by: d conditions of any particles information submitted	2) e and ermit ed on le for
OR X Included is to I certify application, a look application and I have received under this I certify this application obtaining the inful I am aw	he information require that as required und cation plat, and accon Personal Servi X Certified Mail (Publication (No ead and understand C s application. under penalty of law form and all attachme	ed by Chapter 22-6 in panying docume ce (Affidavit attace) Postmarked postotice of Publication Chapter 22-6 and that I have persents, and that bat the information inficant penalties	, Article 6, Section of the West Virginal pages 1 throughed) al receipt attached attached attached attached attached attached attached attached attached as CSR 4, and I conally examined a seed on my inquiries true, accurate for submitting fall	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above named terms and the idea with the idividuals immediate.	st Virginia (see page copies of this notice med parties by: d conditions of any particles information submitted	e and ermited on the for
OR X Included is to a certify application, a look application, a look application obtaining the inful am aw imprisonment.	he information require that as required undication plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Costa application. under penalty of law form and all attachmormation, I believe that are that there are significant conficulties.	ed by Chapter 22 er Chapter 22-6 npanying docume ce (Affidavit attac Postmarked post otice of Publicatio Chapter 22-6 and that I have pers ents, and that ba at the information nificant penalties Well Operator By:	, Article 6, Section of the West Virginal pages 1 throughed) al receipt attached are accorded at a sed on my inquiring true, accurate a for submitting fallows.	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above named terms and the idea with the idividuals immediate.	st Virginia (see page copies of this notice med parties by: d conditions of any particles information submitted	e and ermi
Included is to a local state of the local state of	he information require that as required und cation plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Costant and all attachment are that there are signification, state of West Virginia	ed by Chapter 22-6 in panying docume ce (Affidavit attace) Postmarked postotice of Publication Chapter 22-6 and that I have persents, and that bat the information inficant penalties	, Article 6, Section of the West Virginal pages 1 throughed) al receipt attached on attached) as CSR 4, and I conally examined assed on my inquiries true, accurate for submitting fallonward Energy Corpord	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above named terms and the idea with the idividuals immediate.	st Virginia (see page copies of this notice med parties by: d conditions of any particles information submitted	e and ermi
Included is to a local large state of the large sta	he information require that as required und cation plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Catana and understand Catana and all attachment or and all attachment are that there are signal of the companion of the compan	ed by Chapter 22 er Chapter 22-6 npanying docume ce (Affidavit attac Postmarked post otice of Publicatio Chapter 22-6 and that I have pers ents, and that ba at the information nificant penalties Well Operator By: Its:	, Article 6, Section of the West Virginal ents pages 1 throughed) al receipt attached on attached) at 35 CSR 4, and I conally examined a sed on my inquiring is true, accurate for submitting fallorward Energy Corpord David Dorward	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above named terms and the idea with the idividuals immediate.	st Virginia (see page copies of this notice med parties by: d conditions of any particles information submitted	e and ermi
Included is to a local large state of the large sta	he information require that as required und cation plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Os application. under penalty of law form and all attachme ormation, I believe that are that there are signal of the complete of the c	ed by Chapter 22 er Chapter 22-6 npanying docume ce (Affidavit attace Postmarked post otice of Publication Chapter 22-6 and that I have persents, and that ba at the information nificant penalties Well Operator By: Its: Address Telephone	, Article 6, Section of the West Virginal pages 1 throughed) all receipt attached on attached) as CSR 4, and I conally examined a seed on my inquiry is true, accurate for submitting fall Dorward Energy Corport David Dorward President 447 Third Ave. N Saint Petersburg, FL 3 727-490-1778	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above name terms and dividuals immediately including to the accordance of the accordance o	st Virginia (see page copies of this notice med parties by: d conditions of any prinformation submitted mediately responsibility of fin	e and ermi
Included is to a certify application, a local land a loca	he information require that as required und cation plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Catana and understand Catana and all attachment or and all attachment are that there are signal of the companion of the compan	ed by Chapter 22 er Chapter 22-6 npanying docume ce (Affidavit attac Postmarked post otice of Publicatio Chapter 22-6 and that I have pers ents, and that ba at the information nificant penalties Well Operator By: Its: Address	, Article 6, Section of the West Virginal pages 1 throughed) all receipt attached on attached) as CSR 4, and I conally examined a seed on my inquiry is true, accurate for submitting fall Dorward Energy Corport David Dorward President 447 Third Ave. N Saint Petersburg, FL 3 727-490-1778	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio	Code of Wes ave served of the above name terms and the terms and the terms and the terms are the terms and the terms are the terms and the terms and the terms are the terms and the terms are the terms and the terms are the ter	st Virginia (see page copies of this notice med parties by: d conditions of any prinformation submitted mediately responsibility of fin	e and ermi
Included is to a certify application, a local land a loca	he information require that as required und cation plat, and accon Personal Servi Certified Mail (Publication (Note and and understand Os application. under penalty of law form and all attachme ormation, I believe that are that there are signofficial State of West Virginia (Public, St	ed by Chapter 22 er Chapter 22-6 npanying docume ce (Affidavit attace Postmarked post otice of Publication Chapter 22-6 and that I have pers ents, and that bace at the information nificant penalties Well Operator By: Its: Address Telephone	, Article 6, Section of the West Virginary of the West Virginary on the control of the West Virginary on the control of the West Virginary on the control of the West Virginary	n 8(d) of the 0 nia Code I haugh on the d) agree to the and am family y of those incomplete se informatio pration	Code of Wes ave served of the above name terms and dividuals immediately including to the accordance of the accordance o	st Virginia (see page copies of this notice med parties by: d conditions of any prinformation submitted mediately responsibility of fin	e and ermi

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 depprivacyofficer@wv.qov

WW-2A Surface Waiver

		SURFACE	OWNER WAIVER	
County	Gilmer		erator	Dorward Energy Corporation Sprouse No. 9
		Оро	erator well numbe	Spiouse No. 5
	11	ISTRUCTIONS TO SURFACE	OWNERS NAMED C	ON PAGE WW2-A
If the surface appeared on be the only permits are well as a second control of the control of th	e tract is owner the Sheriff's to owner who we alid for 24 mo nmediately if y	ed by more than three persons, tax ticket on the land or because ill actually receive these mater anths. If you do not own any in	, then these materialse you actually occupy rials.) See Chapter 2 terest in the surface to notify the well opera	the State to do oil or gas well work. (Note: s were served on you because your name of the surface tract. In either case, you may 22 of the West Virginia Code. Well work tract, please forward these materials to the tor and the Office of Oil and Gas. Y COMMENT. NAL INFORMATION:
Chief, Office	of Oil and Ga	s		
Department of 601 57 th St. S	of Environmer	ntal Protection		
Charleston, \				
(304) 926-04	50	2001 - Carlo		erials to be served on or before the date the
operator files be filed in pe be s ure of the handling. If y the planned y well operator from the app The 1) 2) 3) [4) 5) r If you request a co List to test your y the Application foorder on F or described the	his Applications on or received the control of the	con. You have FIFTEEN (15) Day red in the mail by the Chief's offeck with your postmaster to end contacted by the well operator of in these materials, then the period in the period in the approximation and and sediment control plan is a sed occur to publicly owned lands well work fails to protect fresh whas committed a substantial vides promulgated under Chapter proposed in the permit as it is issued in the permit as it is issued in the permit as it is issued in the permit in the permit of the p	AYS after the filing data fice by the time state in sure a dequate deliver and you have signed as must include your state location of the property of the safety of permot adequate or effect or resources; water sources or supplication of a previous 22, and has failed to the ded or a copy of the maintains a list of water drilling. Contact the surface owners and attachments consisting rosion plan, all for present a state of the property of the surface owners and attachments consisting rosion plan, all for present and the property of the property of the property of the surface owners and the property of	ate to file your comments. Comments must d above. You may call the Chief's office to very time or to arrange special expedited a "voluntary statement of no objection" to at any time. name, address and telephone number, the posed well site including district and county or photographs to support your comments. on comments on the following grounds: rsons. stive; blies; spermit or a substantial violation of one or abate or seek review of the violation", e order denying the permit, you should ater testing laboratories which you can hire the Chief to obtain a copy. ECTION that I have received copies of a Notice and ng of pages 1 through including a work roposed well work on my surface land as
I furt	her state that	I have no objection to the plann	ned work described in	these materials, and I have no objection to
a permit bein	g issued on th	nose materials.		
FOR EXECU	TION BY A N	ATURAL PERSON	FOR E	XECUTION BY A CORPORATION, ETC.
			Company	
-	Signature	Date	Name By	REOF
	Signature		lts	Office of Other
				of Oil and Q
	Print Name	DTWOOD FOREST! AND F	IND IV ID	007 18270
	A. M.	HEARTWOOD FORESTLAND FOR By: Heartwood Forestland Ad	visors IV LIC Si	gnature
		Its general partner	110010 1111	En Chamber
		By: The Forestland Group, LL	C	Environmental Protecti
		Its Manager		Protecti
		1 11	her	

S Manager

Ames & Wilhelm

James & Regional Director

Assistant & Regional 13

Office of Oil and Gas

Operator's Well Number Sprouse No. 9

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
Buster McHenry	W.D. Hancock	1/8	206/577
W.D. Hancock	Phillip A. Radford	W.I.	295/623
Phillip A. Radford	D. A. Dorward	W.I.	228/325

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.

Well Operator:

By: Its:

Dorward Energy Corporation

David Dorward, President

NOV 5 2013

WW-2B1 (5-12)

WV Department of Environmental Protection

Well No. Sprouse No. 9

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Reliance Labs
Sampling Contractor Smith Land Surveying, Inc. - Environmental Division

Well Operator _____

Dorward Energy Corporation

Address

447 Third Ave. N

Saint Petersburg, FL 33701

Telephone

727-490-1778

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

NOTE: There appears to be 2 potable water sources within 1,500', therefore tests will be offered and samples taken as required.

Duane & Rachel Brown 1125 Butchers Fork Rd Linn. WV 26384 Rose F. Snow 508 Butchers Fork Rd Linn, WV 26384 WW-9 (5/13)

	Page of
API Number 47 -	
Operator's Well No). Sprouse No. 9

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator NameDor	ward Energy Corporation		OP Code 309135
Watershed (HUC 10)	Tributary of Butchers Fork	Quadrangle	Gilmer 7.5'
Elevation 833'	County Gilmer		District Glenville
	ng more than 5,000 bbls of water to co		vell work? Yes No _ X
If so, please	describe anticipated pit waste: Rock	Cuttings/Drilled Solids	s, Drilling and Completion Fluids
Will a synthe	etic liner be used in the pit? YesX	No If s	so, what ml.? 60 ml
Proposed Dis	sposal Method For Treated Pit Wastes	į.	
=	Reuse (at API Number Off Site Disposal (Supply form)	WW-9 for disposal loc	ation)
Will closed loop syste	m be used? No		
Drilling medium antic	cipated for this well? Air, freshwater,	oil based, etc. Air	
-If oil based,	what type? Synthetic, petroleum, etc.		
	n drilling medium? Soap/Foam, if need		
Drill cuttings disposal	method? Leave in pit, landfill, remove	ved offsite, etc. Leave	in Pit
-If left in pit	and plan to solidify what medium will	be used? (cement, lin	ne, sawdust)_ Lime
-Landfill or o	offsite name/permit number?		
on August 1, 2005, by provisions of the perr law or regulation can I certify und application form and obtaining the informa-	with the Office of Oil and Gas of the Wes mit are enforceable by law. Violation lead to enforcement action. Her penalty of law that I have person I all attachments thereto and that, bation, I believe that the informationing false information, including the pos	t Virginia Department as of any term or cond ally examined and an ased on my inquiry is true, accurate, and asibility of fine or improved	ENERAL WATER POLLUTION PERMIT issue of Environmental Protection. I understand that the lition of the general permit and/or other applicable in familiar with the information submitted on the of those individuals immediately responsible for complete. I am aware that there are significant issue.
Company Official Sig	gnature Walter	ward	10 413
Company Official (T	yped Name) David Dorward		
Company Official Tit	lePresident		
		o October	. 20 /3 Notary Public
	res Jan 22 2023		

		LEGEND	
Property Boundary	→ △	Diversion Contraction	
Road = = = = =		Spring O	
Existing Fence — 🗶 -	_ × _ × _	Wet Spot	
Planned Fence / _	_/_/_	Drain Pipe with size in inches	_
Stream / 1, 7	7 7	Waterway	\Leftrightarrow
Open Ditch	·	Cross Drain 77777	
Rock & SSS & SSS		Artificial Filter Strip XXX	*****
North N	- 4	Pit: cut walls	
Buildings		Pit: compacted fill walls	THE PARTY OF THE P
Water wells W		Area for Land Application of	Pit Waste
Drill site			
	ment: Acres Disturbed 1 +	/- Prevegetation p)H
Fertilizer (10-20-20	or equivalent) 1/3 TON lbs	s/acre (500 lbs minimum)	
Mulah HAV	2 Tons/s	oure	
William HAT	Z I UIIS/	acie	
	See	ed Mixtures	
Are	ea I	A	rea II
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		- The state of the
Attach: Drawing(s) of road, location, Photocopied section of involv	pit and proposed area for land apposed 7.5' topographic sheet.	olication.	On Financial
			THOO OF THE PERSON
Plan Approved by:	ne Here		nos a
-			06/30/3
Comments:			En
			Environment
Title:		Date: 10-15-13	· · · · · · · · · · · · · · · · · · ·
	χ) Yes (
Tield Reviewed:	/1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

