

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

June 17, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-7700621, issued to ENERPLUS RESOURCES (USA) 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

Operator's Well No: TANNER 1-4H

Farm Name: TANNER, RITA

API Well Number: 47-7700621

Permit Type: Horizontal 6A Well

Date Issued: 06/17/2015

API Number:	77-00621
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PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 § 22-6A-5a (12), 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.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. 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.

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

1) Well Operator:	Enerplus Re	esources Corporation	49449649	77 (Preston)	05 (Portland)	637 (Terra Alta)
-			Operator ID	County	District	Quadrangle
2) Operator's We	II Number: T	anner 1-4H	Well Pad	Name: Tann	er 1-4H	
3) Farm Name/Su	ırface Owner	Annette Tanner/Rita	Tanner Public Road	d Access: Cro	oked Stum	np Road
4) Elevation, curr	ent ground:	2533' El	evation, proposed j	post-constructi	on: <u>2533'</u>	
,	a) Gas	■ Oil	Unde	erground Storag	ge	
	Other					
(1	•	nallow	Deep			
6) Existing Pad: Y		orizontal				
		(s), Depth(s), Antic	ingted Thickness as	nd Associated '	Draccura(c)	
		2 - 8013 ft TVD; 13	•		` ,	
8) Proposed Total	l Vertical De	oth: 7953 ft at landi	ng point (heel)			
9) Formation at T	otal Vertical	Depth: Marcellus				
10) Proposed Tot	al Measured	Depth: 14648'				
11) Proposed Hor	rizontal Leg I	ength: <u>6963</u>		<u> </u>		
12) Approximate	Fresh Water	Strata Depths:	10ft; 120ft; 225ft			
13) Method to De	termine Fres	h Water Depths:	learby wells & springs, ir	ncision depth of Littl	e Larel Ck, wat	ter show in Tanner 1-8 pilot
14) Approximate	Saltwater De	pths: none				
15) Approximate	Coal Seam D	epths: none				
16) Approximate	Depth to Pos	sible Void (coal mi	ne, karst, other): _r	none		
		on contain coal sear to an active mine?	ns Yes	No	V	
(a) If Yes, provi	de Mine Info	: Name:			RECEIVE	
		Depth:			Office of Oil and	Gas
		Seam:		•	JUN 01 21	015
		Owner:		v	W Department	t of
				Envi	ronmental Prote	ection

18)

CASING AND TUBING PROGRAM

4707700621

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20	new	J-55	94	40	40	to sfc; 46 cu ft
Fresh Water	13-3/8	new	J-55	54.4	375	375	to sfc; 356 cu ft
Coal		n/a					
Intermediate	9-5/8	new	J-55	36	2500	2500	to sfc; 1042 cu ft
Production	5-1/2	new	P-110	30	14647	14647	to 2000'; 3646 cu ft
Tubing	2-3/8	new	J-55	4.7			
Liners		n/a					

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	-	-	Class A 15.6 ppg	1.18
Fresh Water	13-3/8	17-1/2	.760	2730	Class A 15.6 ppg	1.18
Coal	n/a					
Intermediate	9-5/8	12-1/4	.704	3520	Class A 15.7ppg	1.29
Production	5-1/2	8-3/4	.722	16660	Class A 14.7ppg	1.37
Tubing	2-3/8	n/a	.474	770	n/a	n/a
Liners	n/a				Dr.	
				0	RECEIVED ffice of Oil and Gas	

PACKERS

WV Department of

Environmental Protection

Kind:		1	3 \
Sizes:			
Depths Set:			
L			

19) Describe proposed well work, including the dril	lling and plugging back of any pilot hole:
with air, at a minimum, until the freshwater protection case point then build a main curve to land at 8464' MD (7953' and cement casing. Demobilize the drill rig and mobilize stimulate, clean-out, run tubing, unload and test gas well	Drill vertically to kick-off point at 4244' MD. The hole will be drilled sing is cemented to surface. Drill a 24 degree tangent out to corner TVD) and drill horizontally to TD approximately 14648 MD. Rune the completion equipment. Complete well: perforate, fracture, set production equipment and tanks. Remedial cement ment volumes if cement return are not seen at the surface while
20) Describe fracturing/stimulating methods in deta	iil, including anticipated max pressure and max rate:
Fracturing method is 100 mesh and 40/70 sand slick wat	ter job. Will be using approximately 2000 gallons of 15%acid per ocide (0.25 gpt), and O2 scavenger (0.1 gpt). Anticipated maximum
21) Total Area to be disturbed, including roads, stoo	ckpile area, pits, etc., (acres):
22) Area to be disturbed for well pad only, less acce	ess road (acres):
23) Describe centralizer placement for each casing	string:
Surface and Intermediate Strings - centralizers will be pla	aced on the first two joints and then every other joint. Lateral se top of the curve then every fourth joint from the top of the curve
24) Describe all cement additives associated with ea	ach cement type:
See Attachment.	Color
	0/
25) Proposed borehole conditioning procedures:	
	or cementing. Circulate as many bottom-up as necessary once nenting. If any losses are noted, stop and circulate LCM pill around
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*Note: Attach additional sheets as needed.	WV Department of Environmental Protection

24) Describe all cement additives associated with each cement type:

Freshwater/Coal protection string: These respective 20" and 13 3/8" strings will be cemented back to surface with Class A Portland cement, containing no additional additives. Should a void be encountered, the 13 3/8" casing will be run to a depth of 50' below the void and cemented back to the surface using cement baskets above and below the void.

Intermediate cement (for 9 5/8" string): will contain retarder/extender to allow all cement to be pumped into the annulus and accelerator to speed the cement hardening process once it begins. Other cement additives used will be an expansion agent to provide complete bonding/fill between the casing and the hole and gas-block product, used to prevent migration of gas up the liquid cement before it hardens. As in the surface job, lost material will be added if necessary.

Production cement (for 5 ½" string): will contain additional retarder/extender to allow all cement to be pumped into the annulus and accelerator to speed the cement hardening process once it begins. This cement blend will contain additional gas migration/gas block additive to prevent gas from migrating from the producing zone through the cement while the cement is still liquid. The production cement contains a solubility enhancer to ensure that the large volume of production cement pumped will thoroughly blend with dry additives and mix water before being pumped downhole.

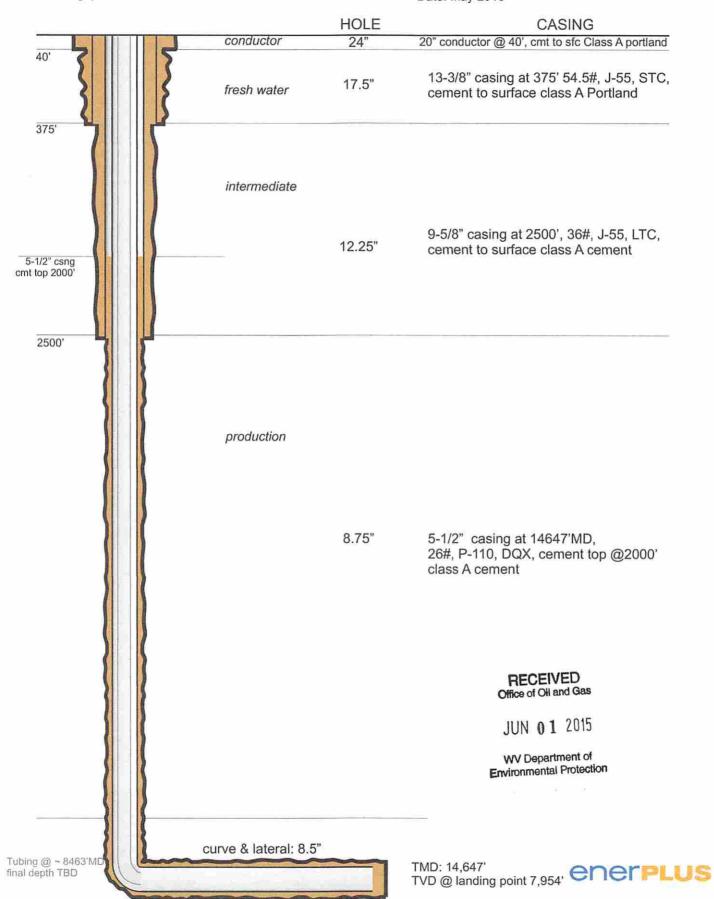
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ENERPLUS Tanner 1-4H Casing plan #3

County: Preston Co., WV Prepared by: TA/ JPK Date: May 2015



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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Enerplus Resources (USA)	Corporation OP Code 49449649	
Watershed (HUC 10) Little Laurel Run	Quadrangle 537 (Terra Alta)	
Elevation 2533'	County Preston District Portland	
Do you anticipate using more than 5,000 Will a pit be used? Yes No	bbls of water to complete the proposed well work? Yes No No	
If so, please describe anticipated	pit waste:	
Will a synthetic liner be used in	the pit? Yes V No L If so, what ml.?	
Proposed Disposal Method For	Freated Pit Wastes:	
Reuse (at AP	ion Injection (UIC Permit Number	
Other (Explai		
	No.	
Will closed loop system be used? If so, o	Marting heils defined on the seal had	rad Internal
Drilling medium anticipated for this well	(vertical and horizontal)? Air, freshwater, oil based, etc. synthesic oil-based mud	53. 1000-100
-If oil based, what type? Synthe	tic, petroleum, etc.Oil-based synthetic	
Additives to be used in drilling medium?	See Attached	
Drill cuttings disposal method? Leave in	pit, landfill, removed offsite, etc. Removed offsite	
-If left in pit and plan to solidify	what medium will be used? (cement, lime, sawdust) NA	
	number 2WSi - Mosteller Landfill in Vintendate, Somerse: County, PA 10157	
on August 1, 2005, by the Office of Oil a provisions of the permit are enforceable law or regulation can lead to enforcement 1 certify under penalty of law 1 application form and all attachments the obtaining the information. I believe that penalties for submitting false information.	hat I have personally examined and am familiar with the information submitted on this sereto and that, based on my inquiry of those individuals immediately responsible for the information is true, accurate, and complete. I am aware that there are significant, including the possibility of fine or imprisonment.	e s r t
Company Official Signature	Office of Oil a	nd Gas
Company Official (Typed Name) Tim M	ller DEC 1 5 20	244
Company Official Title_Landman	DEC 1 5 20	J14
Subscribed and sworn before me this	111 day of October 20 14 Environmental P	ent of rotection
My commission expires April	03, 2023	OFFICIAL SEAL

Office of Oil & Gas

JAN 2 3 2015

NOTARY PUBLIC OFFICIAL SEAL RIChard R Burnside
State of West Virginia
My Commission Expires
April 03 2023
Clear Mountain Bank
PO 80x 85
1101 E State Ave

Form WW-9

Operator's Well No.	Tanner 1-4H

Enerplus Resources (L	JSA) Corporation		
Proposed Revegetation Treatment	t: Acres Disturbed 26	Prevegetation pl	I 6.4
	Tons/acre or to correct to pH		
10-20-20 Fertilizer type			
Fertilizer amount 500	lbs	/acre	
Mulch2-3	Tons/ac	rre	
	Seed	<u>Mixtures</u>	
Tempo	=	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall fescue	40	Tall fescue	40
Annual rye	10	Annual rye	10
Ladino clover	5	Ladino clover	5
Birdsfoot trefoil	10	Birdsfoot trefoil	10
Plan Approved by:	pm J Kintows		
Comments.			
Title: Tuspe + Tri		Date: 10/30/20,4	RECEIVED Office of Oil and Gas
	×) Yes (DEC 1 5 2014
Office of Oil & Gas			WV Department of
JAN 2 3 2015			Environmentad Protezions

FORM WW-9 FLUIDS/CUTTINGS DISPOSAL AND RECLAMATION PLAN

ENERPLUS RESOURCES (USA) CORPORATION TANNER 1-4H

The following additives may be used for drilling at the Tanner 1-4H Well:

Base Oil
Calcium Chloride Flake
Carbo-Gel
Carbo-TEC
Carbo-Trol HT
Caustic Soda
Citric Acid
Conqor
Defoam
DFE 459
LC Glide
Magma Fiber
Mil-Bar Big Bag
Mil-Bar
Mil Carb

Mil-Graphite Mil-Lime Mil Pac LV Mil Pac Mil Sorb Mil Starch Milmica Fine New Drill Omni-Cote Potassium Chloride Rheo-Sweep Salt Shrink Wrap Soda Ash Walnut - Medium Xan-Plex

Note: Additional additives may be requested as operation permits. The SDS for the additives will be available onsite.

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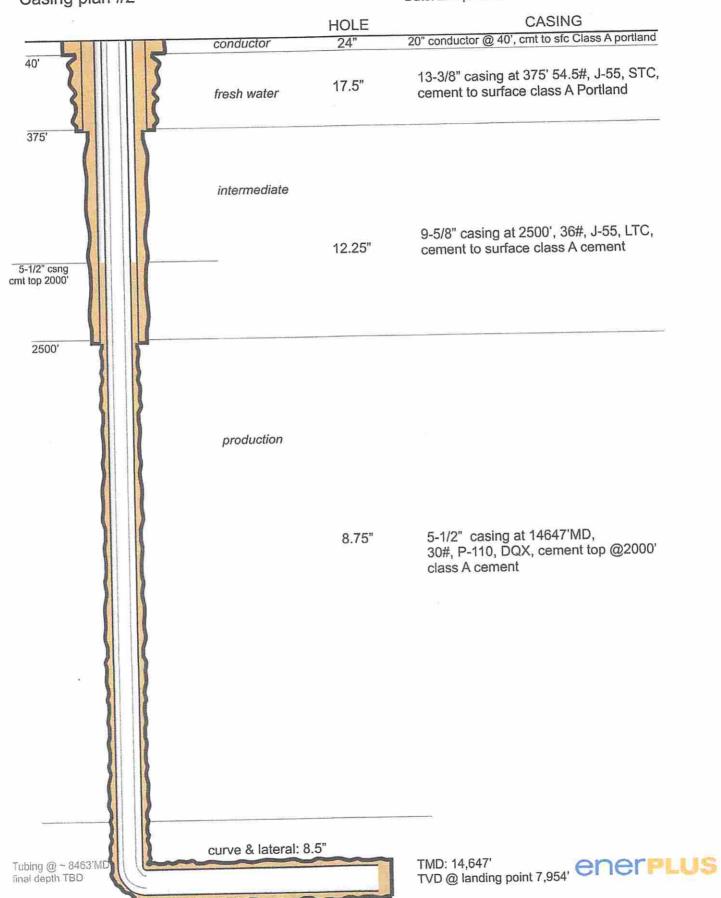
WV Department of Environmental Protection

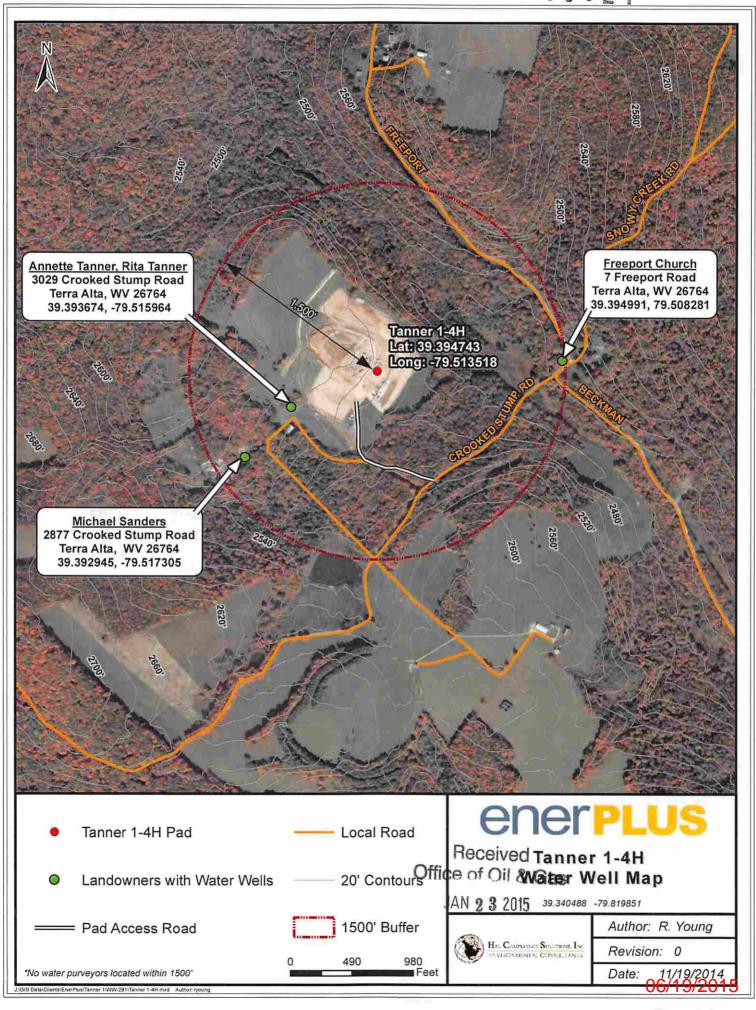
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Office of Oil & Gas

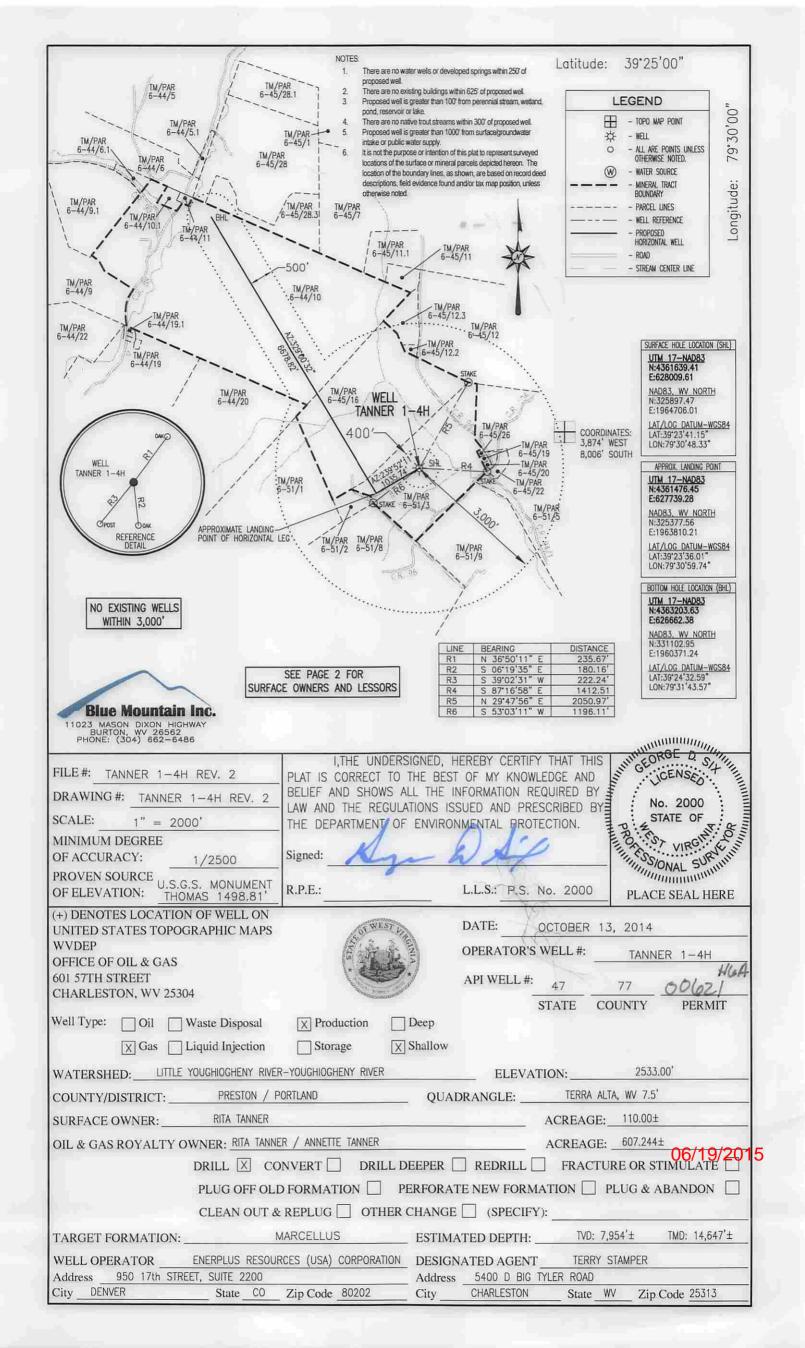
JAN 2 3 2015

ENERPLUS Tanner 1-4H Casing plan #2

County: Preston Co., WV Prepared by: JPK Date: 27 Apr 2015







TANNER 1-4H PAGE 2 OF 2

DIST-TM/PAR	SURFACE OWNER
6-44/5	ALBERT D. JR. & CATHERINE L. CALHOUN
6-44/5.1	SCOTT H. WARD
6-44/6	DONALD GOFF SR.
6-44/6.1	DENNIS H. & CRYSTAL D. TERRANT
6-44/9.1	MICHAEL S. & JUNE A. SISLER
6-44/9.2	DONETTA S. NICE
6-44/10	DARWIN E. & SHARON L. STEMPLE
6-44/10.1	CHARLES & JANET NELLIE STEMPLE
6-44/11	CHARLES J. & JANET NELLIE STEMPLE
6-44/19	DONALD W. FALKNER
6-44/19.1	DOUGLAS ARNOLD FALKNER
6-44/20	BRADLEY K. & RICHARD A. STEMPLE
6-44/22	COTHELSTONE LLC
6-45/1	SHERI LYNN MCGUIRE & JOHN HOWELL
6-45/7	FREEMAN H. & W. W. WINTERS
6-45/11	ROBERT & KAREN DURR
6-45/11.1	RICHARD L. & ALMA ROBINSON
6-45/12	RUSSELL PETER SANDERS
6-45/12.1	GERALD & CAROLYN SANDERS
6-45/12.2	LAURENT PETER SANDERS
6-45/12.3	RUSSELL PETER & BARBARA ANN SANDERS
6-45/12.4	TIMOTHY SANDERS & TRINA STANTON
6-45/16	STEPHEN D. TANNER ET AL
6-45/19	DAVID A. CLUTTER
6-45/20	FREEPORT KING JAMES BIBLE CHURCH
6-45/22	MCCLUNG LLC
6-45/26	TIMOTHY KEVIN & TRINA LYNNE SANDERS
6-45/28	SCOTT H. WARD
6-45/28.1	DARWIN E. JR. & DARWIN E. STEMPLE SR.
6-45/28.3	SUSAN I. GAITHER & ALBERT J. HYMILLER
6-51/1	STEPHEN D. TANNER ET AL
6-51/2	MICHAEL E. & SUSAN R. SANDERS
6-51/3	RITA TANNER
6-51/5	MESSENGER LIMITED PARTNERSHIP LLLP
6-51/8	MCCLUNG LLC
6-51/9	MCCLUNG LLC

		GAS LESSORS
TAX MAP#	PARCEL#	OIL & GAS ROYALTY OWNERS
6-51	3	RITA TANNER / ANNETTE TANNER
6-45	16	RITA TANNER
6-45	16	ANNETTE TANNER
6-45	16	THOMAS J. NORDECK
6-45	16	JOY A. NORDECK MOSELEY
6-45	16	CONNIE S. STEMPLE
6-45	16	RICHARD A. STEMPLE
6-45	16	BRADLEY K. STEMPLE
6-45	16	BRANDY L. STEMPLE
6-45	16	STEVEN A. NORDECK
6-45	16	GEORGE V. NORDECK
6-45	16	STEPHEN ALAN NORDECK, TRUSTEE FOR DIANE L. NORDECK
6-45	16	ESTATE OF ROSE N. MINOR
6-44	10	DARWIN E. & SHARON L. STEMPLE

47-077-00621 06/19/2015



WW-6A1 (5/13)

Operator's Well No. T	anner 1-4H	
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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 -

- 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:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

see attachments

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 hereby properties the possibility of the need for permits and/or approvals from local, state, or federal entities of the possibility of Office of Oil and Gas, including but not limited to the following:

MAY 01 2015

- 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

WV Department of Environmental Protection

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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Enerplus Resources (USA) Corporation

By:

Debbie Wilpolt

Its:

Land Lease Analyst

Page 1 of 4

WW-6A1	
(5/13)	

Operator's Well No.	Tanner 1-4H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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- (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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Rita Tanner	Magnum Land Services, LLC	13.50%	698/146
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	725/362
	Annette Tanner	Magnum Land Services, LLC	13.50%	698/140
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	725/326
	Richard A. Stemple	Magnum Land Services, LLC	12.50%	735/848
	Magnum Land Services, LLC	Enerplus Resources (USA) Corporation	Assign	744/74

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 hereby acknowledges 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:

Office of Oil and Gas, including but not limited to the following:

• WV Division of Water and Waste Management

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- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers

• U.S. Fish and Wildlife Service

WV Department of Environmental Protection

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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Enerplus Resources (USA) Corporation

By: Tony Lucero Lead, Regulatory Programs

Page 1 of 1

Attached to and made a part hereof the WW-6A1 for the Tanner 1-4H paragraph (2) the parties and recordation data (if recorded) for lease(s) or other contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
06-45-28.3	Albert Hymiller and Susan Gaither	Magnum Land Services, LLC	12.50%	682/187
06-44-10 (Wellbore)	Darwin E and Sharon L Stemple	Magnum Land Services, LLC	12.50%	577/633
06-45-16 (Wellbore), 06-51-03 (Wellbore)	Stephen D and Rita D Tanner	Magnum Land Services, LLC	13.50%	698/146
06-45-16 (Wellbore), 06-51-03 (Wellbore)	Annette H Tanner	Magnum Land Services, LLC	13.50%	698/140
06-45-16 (Wellbore)	Joy Ann Nordeck	Magnum Land Services, LLC	12.50%	735/867
06-45-16 (Wellbore)	Thomas J Nordeck	Magnum Land Services, LLC	12.50%	735/852
06-45-16 (Wellbore)	Connie Sue Stemple	Magnum Land Services, LLC	12.50%	735/857
06-45-16 (Wellbore)	Brandy Lynn Stemple	Magnum Land Services, LLC	12.50%	735/862
06-45-16 (Wellbore)	Richard Alan Stemple	Magnum Land Services, LLC	12.50%	735/850
06-45-16 (Wellbore)	Bradley Kaylor Stemple	Magnum Land Services, LLC	12.50%	735/848
06-45-16 (Wellbore)	Steven Alan Nordeck	Magnum Land Services, LLC	12.50%	735/882
06-45-16 (Wellbore)	George Vaugh Nordeck	Magnum Land Services, LLC	12.50%	735/877
06-45-16 (Wellbore)	Steven Alan Nordeck for Diane Lyn Nordeck	Magnum Land Services, LLC	12.50%	735/905

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WV Department of Environmental Protection



September 25, 2014

West Virginia Department of Natural Resources Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

RE: Road Crossing for Tanner 1-4H

Dear Sir or Madam,

Upon investigation of the proposed path of the Tanner 1-4H wellbore, it has been determined that the path will not cross under any state and/or county owned or maintained roadway.

Best regards,

Timothy Miller

Landman

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Office of Oil and Gas

DEC 1 5 2014

WV Department of Environmental Protection

Received Office of Oil & Gas

JAN 2 3 2015

Enerplus Resources (USA) Inc. 950 17th Street, Suite 2200 Denver . CO 8020**26**/51**9**/2015

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notic	ce Certification: 10/1/14		API No. 4	7- 077 -0	599
			Operator's	Well No. Tar	nner T-4H
			Well Pad	Name: Tanne	t 1
Notice has I			7474 N. V	W 12 76	-/-
below for the	e provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has pro	vided the rec	paired parties	with the Notice Forms listed
State:	West Virginia		Easting:	39.296772	
County:	Preston	UTM NAD 83	Northing:	79.54205	
District:	Portland	Public Road Acc		Crooked Stump	Road
Quadrangle:	Terra Alta	Generally used fi		Tanner	
Watershed:	Little Laurel Run			10	
it has provide information re of giving the requirements Virginia Code of this article	Vest Virginia Code § 22-6A-7(b), the secretary, shall be verified and ad the owners of the surface descriptured by subsections (b) and (c), surface owner notice of entry to stoff subsection (b), section sixteen (c) § 22-6A-11(b), the applicant shall have been completed by the applicant	shall contain the following info ibed in subdivisions (1), (2) a ection sixteen of this article; (i urvey pursuant to subsection (of this article were waived in tender proof of and certify to the	ormation: (14 nd (4), subs i) that the rec a), section t writing by the secretary	4) A certificat dection (b), se quirement was den of this art the surface of that the notice	ion from the operator that (i) ection ten of this article, the s deemed satisfied as a result icle six-a; or (iii) the notice where and Pursuant to West.
Pursuant to V that the Oper	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to the	ris Notice Co	ertification	
	CK ALL THAT APPLY				OOG OFFICE USE
CLEASE CHE	COALL THAT APPLY				ONLY
☐ I. NOT	ICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/
■ 2. NOT	ICE OF ENTRY FOR PLAT SURV	VEY or NO PLAT SURVE	EY WAS CO	NDUCTED	RECEIVED
■ 3. NOT	ICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR F WAS CONDUCTED OF			RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER E (PLEASE ATTACH)	BY SURFAC	E OWNER	
■ 4. NOT	ICE OF PLANNED OPERATION				RECEIVED
■ 5. PUB	LIC NOTICE				RECEIVED
■ 6. NOT	ICE OF APPLICATION				RECEIVED
the required particles of the Advertisement Certifications of Pursuant to W	tachments: shall attach to this Notice Certificat rities and/or any associated written with publication date verificatio of Notice shall serve as proof that th est Virginia Code § 22-6A-11(b), th ipt card or other postal receipt for ce	waivers. For the Public Notice, n or the associated Affidavi e required parties have been no e Certification of Notice to the	the operator tof Publication as requestion may	r shall attach attach attach. The attach under W	a copy of the Class II Legal stached Notice Forms and

Received Office of Oil & Gas JAN 2 3 2015

DEC 1 5 2014

WV Department of Environmental Protection

WW-6AC (1/12):

4707700621

Certification of Notice is hereby given:

THEREFORE, | Tim Miller , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification 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: Energlus Resources (USA) Corporation Address: 950 17th Street, Suite 2200 By: Tim Miller Denver Colorado 80202 Its: Landman Facsimile: 720-279-5550 Telephone: 720-279-5500 Email tmiller@enerplus.com Subscribed and sworn before me this I day of October MUTARY SEAT NOTARY PUBLIC OFFICIAL SEAL Richard R Burnside State of West Virginia My Commission Expires Notary Public April 03, 2023 Clear Mountain Bank PO Box 65

1101 E State Ave Terra Alta, WV 26764 Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

My Commission Expires

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WV Department of Environmental Protection

4 7 100 747 777 0 006 2 1 OPERATOR WELL NO. Tanner 1-4H Well Pad Name: Tanner

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 09/23/2014 Date Permit Application Filed: 12/03/2014 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED ☐ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b), no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. Notice is hereby provided to: ■ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: Rita Tanner Name: Same Address: 2 Waterfront Place Address: RECEIVED Morgantown, WV 26505 Name: Anita Tanner Office of Oil and Gas Address: 712 South Hills Drive ☐ COAL OPERATOR Morgantown, WV 26505 Name: DEC 1 5 2014 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) WV Department of Environmental Protection Address: ☐ WATER PURVEYOR(s) Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE ■ SURFACE OWNER(s) (Impoundments/Pits) FIELD Name: Same Name: Received Address: Address: Office of Oil & Gas *Please attach additional forms if necessary JAN 2 3 2015

WW-6A (5-12)

4P7 0 47 77 0 000	521
OPERATOR WELL NO.	Tanner 1-4H
Well Pad Name: Tanner	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application: (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall also include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3)the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures. facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and vol REGEN Compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied of location drilling of horizontal wells as they relate to the well location restrictions regarding occupied of location drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells. including reasonable means of mitigating such

WV Department of Environmental Protection 6/19/2015

factors, if necessary.

A17(047770 Qs 6 2 1 OPERATOR WELL NO, Tanner 1-4H Well Pad Name: Tanner

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2). Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek reviewed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

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Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Notice is hereby given by:

Well Operator: Enerplus Resources (USA) Corporation

Address: 950 17th Street

Telephone: 720-279-5500

Denver, Colorado 80202

Email: tmiller@enerplus.com

Facsimile: 720-279-5550

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOTE BY PUBLIC OFFICIAL SEAL STATE OF WEST VIRGINIA MARSON LIGHT IE 2430 CAMPGROUND RD TURNELTON, WV 26444 MY COMMISSION EXPIRES AUG. 7, 2015

Subscribed and sworn before me this 18 day of 100, 2014.

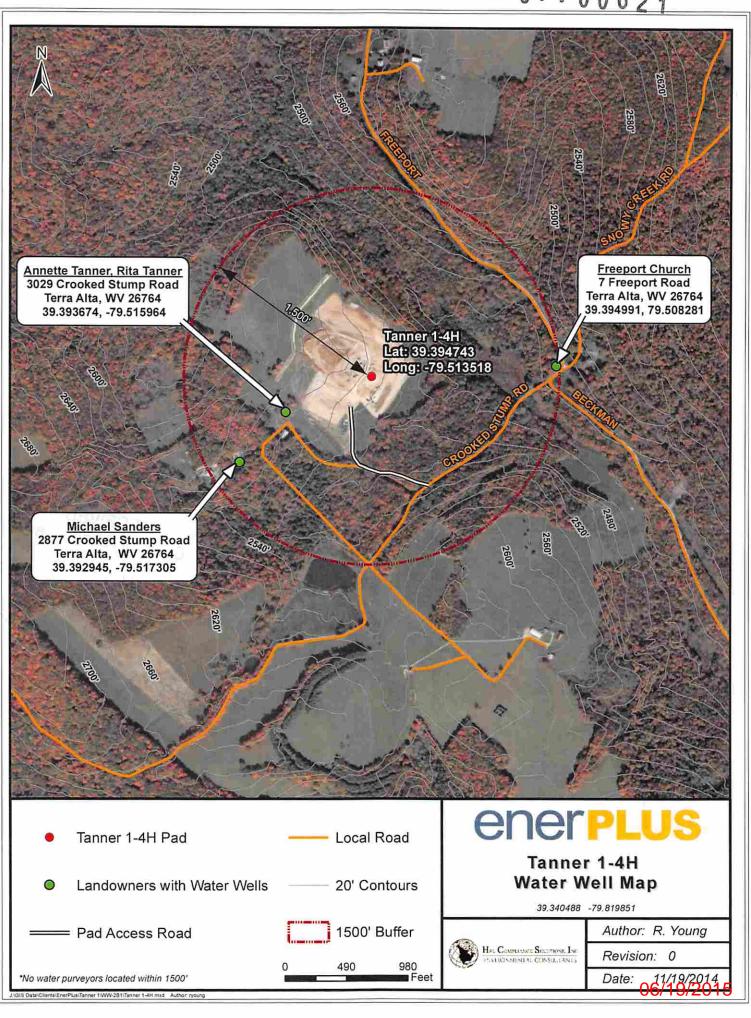
Thus in 1 Subscribed My Commission Expires 14 2016

Notary Public

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WV Department of **Environmental Protection**



Enerplus Resources (USA) Corporation - Tanner 1-4H Well Permit - List of Surface and Mineral Owners

Annette Tanner 712 South Hills Drive Morgantown, WV 26505

Surface, Coal and Mineral Owner

Rita Tanner 2 Waterfront Place Morgantown, WV 26505

Surface, Coal and Mineral Owner

Steven A. Nordeck 103 Aurora Avenue Terra Alta, WV 26764

Mineral Owner

George V. Nordeck 2196 Spruce Run Road Terra Alta, WV 26764

Mineral Owner

Diane L. Nordeck 205 Linwood Street Terra Alta, WV 26764

Mineral Owner

Joy Ann Nordeck Moseley 136 Silver Creek Drive Swansboro, NC 28584

Mineral Owner

Thomas J. Nordeck 10207 Song Sparrow Lane Highlands Ranch, CO 80129

Mineral Owner

Darwin Stemple 1576 Snowy Creek Road Terra Alta, WV 26764

Mineral Owner

Richard A. Stemple 405 Ringer Avenue Terra Alta, WV 26764

Mineral Owner

Bradley K. Stemple 3888 Aurora Pike Terra Alta, WV 26764

Mineral Owner

Connie Sue Stemple and Brandy Lynn Stemple 201 Gregg Memorial Drive Terra Alta, WV 26764

Office of Oil and Gas

Mineral OwneRECEIVED

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06/19/2015

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	ice: 10/23/2014 Date Permit Applic	ation Filed: 12/0	3/2014	 s
Delivery me	ethod pursuant to West Virginia Code § 22-6.	A-16(c)		
	IFIED MAIL	ND LIVERY		
return receip the planned required to b drilling of a damages to t	W. Va. Code § 22-6A-16(c), no later than the of requested or hand delivery, give the surface of operation. The notice required by this subset of provided by subsection (b), section ten of this horizontal well; and (3) A proposed surface under the surface affected by oil and gas operations to the ces required by this section shall be given to the	wner whose land tion shall include article to a surfa- ise and compens the extent the da	will be used for le: (1) A copy ace owner whose ation agreement mages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
	reby provided to the SURFACE OWNER(s)	of notice):		
Name: Rita Ta		-	Annette Tanner 712 South Hills Driv	ve
Name: Rita Ta Address: 2 W	/aterfront Place lorgantown, WV 26505	-	Annette Tanner 712 South Hills Driv Morgantown, WV 2	
Name: Rita Ta Address: 2W M Notice is he Pursuant to operation or State: County: District:	reby given: West Virginia Code § 22-6A-16(c), notice is her the surface owner's land for the purpose of dri West Virginia Preston Portland	Address reby given that the lling a horizonta UTM NAD 8 Public Road	re undersigned volume Easting: Northing:	well operator has developed a planned
Name: Rita Ta Address: 2W M Notice is he Pursuant to operation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide horizontal wasurface affectinformation headquarters	reby given: West Virginia Code § 22-6A-16(c), notice is here to the surface owner's land for the purpose of drivest Virginia Preston Portland Terra Alta Laurel Run Shall Include: West Virginia Code § 22-6A-16(c), this notice ded by W. Va. Code § 22-6A-10(b) to a surface vell; and (3) A proposed surface use and competed by oil and gas operations to the extent the related to horizontal drilling may be obtained so, located at 601 57th Street, SE, Charleston	Address reby given that the lling a horizonta UTM NAD 8 Public Road A Generally uses shall include: (1) ce owner whose insation agreement adamages are confrom the Secret	re undersigned value value undersigned value und	well operator has developed a planned ct of land as follows: 625720.08 4350723.72 Crooked Slump Road Tanner code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Name: Rita Ta Address: 2W M Notice is he Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to vote horizontal wasurface affectinformation headquarters gas/pages/de	reby given: West Virginia Code § 22-6A-16(c), notice is her the surface owner's land for the purpose of dria West Virginia Preston Portland Terra Alta Laurel Run Shall Include: West Virginia Code § 22-6A-16(c), this notice ded by W. Va. Code § 22-6A-10(b) to a surface vell; and (3) A proposed surface use and competed by oil and gas operations to the extent the related to horizontal drilling may be obtained so, located at 601 57th Street, SE, Charlestone fault.aspx.	Address reby given that the lling a horizonta UTM NAD 8 Public Road A Generally uses shall include: (1) ce owner whose insation agreement adamages are confrom the Secret	re undersigned value value undersigned value und	well operator has developed a planned et of land as follows: 625720.08 4350723.72 Crooked Stump Road Tanner code section; (2) The information required ised in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Name: Rita Ta Address: 2W M Notice is he Pursuant to operation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide horizontal wasurface affectinformation	reby given: West Virginia Code § 22-6A-16(c), notice is her the surface owner's land for the purpose of dria West Virginia Preston Portland Terra Alta Laurel Run Shall Include: West Virginia Code § 22-6A-16(c), this notice ded by W. Va. Code § 22-6A-10(b) to a surface vell; and (3) A proposed surface use and competed by oil and gas operations to the extent the related to horizontal drilling may be obtained so, located at 601 57th Street, SE, Charlestone fault.aspx.	Address reby given that the lling a horizonta UTM NAD 8 Public Road A Generally use shall include: (1) ce owner whose the sation agreement of the secret of	te undersigned value on the transport of the well of	well operator has developed a planned ct of land as follows: 625720.08 4350723.72 Crooked Slump Road Tanner code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the ter article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-te 2200

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Received Office of Oil & Gas JAN 2 3 2015

WV Department of **Environmental Protection**

OPERATOR WELL NO. Tanner 1-4H Well Pad Name: Tanner 1

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

VOLUNTARY STATEMEN

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided. That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

ww-6A and required, and State:	attachments consisting of pages one (1) through the well plat, all for proposed well work on the trac West Virginia	TMANAD 92 Easting:	-79.18956
County:	Preston	Northing.	Crooked Stump Road
District:	Portland	ublic Road Access:	-10-00
Quadrangle:	Terra Alta	enerally used farm name;	Tallier
*Dlanca abaa	k the box that applies	FOR EXECUT	TION BY A NATURAL PERSON
I further state issued on the	that I have no objection to the planned work descrise materials.		
■ SURFA	CE OWNER	Signature:	Esta James
■ SURFA	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature:	Rita James
SURFASURFASURFA	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Print Name: Roate: Property	ita Tanner 2 2 / 14 TION BY A CORPORATION, ETC.
SURFASURFASURFA	CE OWNER CE OWNER (Road and/or Other Disturbance)	Signature:	ita Tanner 2-2-/14 TION BY A CORPORATION, ETC.
■ SURFA □ SURFA □ SURFA □ COAL	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Signature: Print Name: Roate: Print Name: Roate:	ita Tanner 2-2-/14 TION BY A CORPORATION, ETC.
SURFA SURFA SURFA COAL COAL WATE	CE OWNER CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Signature:	ita Tanner 2-2-/14 TION BY A CORPORATION, ETC.

The Office of Oil and Gas processes your personal information, such as name, address and telephone number as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal burst of our regulatory needed to comply with statutory or regulatory requirements, including Freedom of Information of personal information, please contact appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEC 1 5 2014 DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of **Environmental Protection**

JAN 2 3 2015

47 API NO.	Ò	7	7	005	0	6	2	1
OPERAT	OR	WE	LL	NO	_ Ta	nner	1-4H	
Well Pad	Na	me:	Tann	er 1				

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

VOLUNTARY STA

Instructions to Persons Named on Page WW-6A The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

	the well plat, all for proposed well work on the trac	Fai	sting:	ne eroșion and sediment control plar
ate:	West Virginia U	TM NAD 83 No	rthing:	39.12142
District: Portlar	Professional	ablic Road Access:		Crocked Stump Road
	Generally u		name:	Tanner
atershed:	Lauret Run			
	CE OWNER	Signatu	e M	with Tanner
Please chec	k the box that applies	l l		ION BY A NATURAL PERSON
		1	Am	nome Tonner &
SURFA	CE OWNER (Road and/or Other Disturbance)	Date: _	<u> UC</u> 7	, 22, 2014
] SURFA	CE OWNER (Impoundments/Pits)	FOR E	XECUT	ION BY A CORPORATION, ETC.
COAL	OWNER OR LESSEE	l Rv∙		
COAL	OPERATOR			
	R PURVEYOR	Datas	ure:	
	ATOR OF ANY NATURAL GAS STORAGE	FIELD		

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 or your personal information. If you have any questions about our use or your personal information.

Received Office of Oil & Gas

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

DEC 1 5 2014

Office of Oil and Gas

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin Charleston, West Virginia 25305-0430 • (304) 558-3505
Governor

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

April 29, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Tanner1 Pad, Preston County Tanner1 4H Well site

Dear Mr. Martin.

This well site will be accessed from a DOH permit #04-2011-0733 which has been issued to Enerplus Resources Corporation for access to the State Road for a well site located off of Route 96 SLS in Preston County.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Office of Oil and Gas

Very Truly Yours,

MAY 01 2015

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Tim Miller

Enerplus Resources Corporation

CH, OM, D-4

File

LIST OF CHEMICAL NAMES AND CAS NUMBERS FOR FRAC ADDITIVES

ENERPLUS RESOURCES (USA) CORPORATION Tanner 1-4H

The following additives may be used for the Tanner 1-4H Gas Well:

Descriptive Additive Type	CAS Number(s):
Fresh Water	N/A
Sand	68130-15-4
FRP 121 - Water Soluble Polymer	Mixture
ECS6116A - Bromine Based Biocide	3252-43-5, 10222-01-2, 25322-68-3
Scalehib 100 - Water Soluble Polymer	Mixture
Flomax 50 - Non-toxic surfactant	67-63-0
FE OXYCLEAR - 02 Scavenger	Mixture
CMHPG - Modified Guar Gum	68130-15-4
LEB 10X - Polymer breaker	Mixture
HCL - Muriatic Acid	7647-01-0
UniHib A - Corrosion Inhibitor	67-56-1, 68802-97-1, 64741-68-0, 64742-98-6
	008-20-6, 64742-81-0, 67-63-0, 95-63-0, 0-00-0,
	91-20-3

Note: Additional additives may be required as operations permit.

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