

#### 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

May 27, 2014

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-5101725, issued to CHEVRON APPALACHIA, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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.

Chief

James Martin

Operator's Well No: BERGER 3H

Farm Name: BERGER, GARY & LINDA

API Well Number: 47-5101725

Permit Type: Horizontal 6A Well

Date Issued: 05/27/2014

API Number: 51-01725

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

#### **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.



#### west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street, SE Charleston, WV 25304 (304)926-0499, Ext 1656 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

May 22, 2014

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-01725

COMPANY: Chevron Appalachia, LLC

FARM: Berger #3H

COUNTY Marshall DISTRICT: Clay QUAD: Powhatan

The application for the above company is <u>approved to drill to Utica/Point Pleasant Shale formation</u>. Exception location hearing Docket 226-118

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; \*see below
- 3. Provided a plat showing that the proposed location is a distance of 500 feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines

Executive Assistant

\*47-051-01725 drilled from same pad (Berger 7H) 47-051-01599 – 2,500' WW - 6B (3/13)

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

1) Well Operator:	Chevro	on Appala	chia, LLC	49449935	51	Clay	Glen Easton, WV 7.5'
() tray obstance =				Operator ID	County	District	Quadrangle
2) Operator's Well N	umber:	зн			Well Pad N	ame: Berger	
3 Elevation, current	ground:	1292'		Elevation, proposed	d post-consti	ruction:	1292'
4) Well Type: (a) Ga	ıs		Oil	Undergrou	nd Storage		
	ther						
(b) If (	277 677	Shallow		Deep			
		Horizontal	10			Sha	- 1/22/14
5) Existing Pad? Yes	or No:	YES				M	- 1/22/14 SK /22/14
6) Proposed Target Fo				pated Thicknesses a Lancellus 4249		ed Pressure(s):	1081
7) Proposed Total Ve	ertical D	epth:	10,967'				
8) Formation at Total	Vertica	al Depth:	Point Pleasa	int			
9) Proposed Total Me	easured	Depth:	18,271				
10) Approximate Free	sh Wate	er Strata De	pths:	165'			
11) Method to Determ	nine Fr	esh Water I	Depth:	Local stream base, offset	well data		
12) Approximate Salt	twater I	Depths:	2565'				
13) Approximate Coa	al Seam	Depths:	825'				
14) Approximate Dep	pth to P	ossible Voi	d (coal min	e, karst, other):	Not An	ticipated	
<ol> <li>Does proposed w adjacent to an act</li> </ol>				s directly overlying and depth of mine		d, 825'	
16) Describe propose	d well	work:	Drill 26* hole to 300'	then rum and cement 20" casing to	surface covering the fr	esh water. Drill 17 1/2" hole :	to 2,665' then run and cement
Drill 17 1/2" hale to 2,665" then n	run and ceme	nt to surface 13 3/8"	casing, covering th	e Berea. Drill 12 1/4" to 8,650" the	en run and cement to	surface9 5/8" casing, cover	ring the Lockport Limestone
Then drill 7-778* hale to Kick all point. Dr	kili 7-7/8" hole to	the payve and lateral to	18,271' MD and 10,967	TVD. Then run and cement 5 tr2' produ	uction casing to surface. I	a void is encountered; (see eithe	chreent)
17) Describe fracturin							
Complete, the 2 disease was	distang oot	Account of the Co.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
18) Total area to be d	listurbe	d. including	Brads-sto	cknile area, pits, etc	c. (acres):	23.4 ac.	
19) Area to be disturb		8 37775		4 feet	2.2 ac.		
19) Alea to be distuit	ocu ioi	wen pad of	11y, 1035 ale	way way acress.			Page 1 of 3
		( =	EB 1 0 20	14			-0

Environmental Protection

WW - 6B (3/13)

### 20)

### CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	30"	New	Line		40'	40'	CTS
Fresh Water	20"	New	J-55	94#	300'	300'	CTS
Intermediate1	13-3/8"	New	H-40	72#	2,665'	2,665'	CTS
Intermediate 2	9-5/8"	New	P-110	53.5#	8,650'	8,650	CTS
Production	5-1/2"	New	P-110	23#	18,271'	18,271'	CTS
Tubing							
Liners							- 11-f

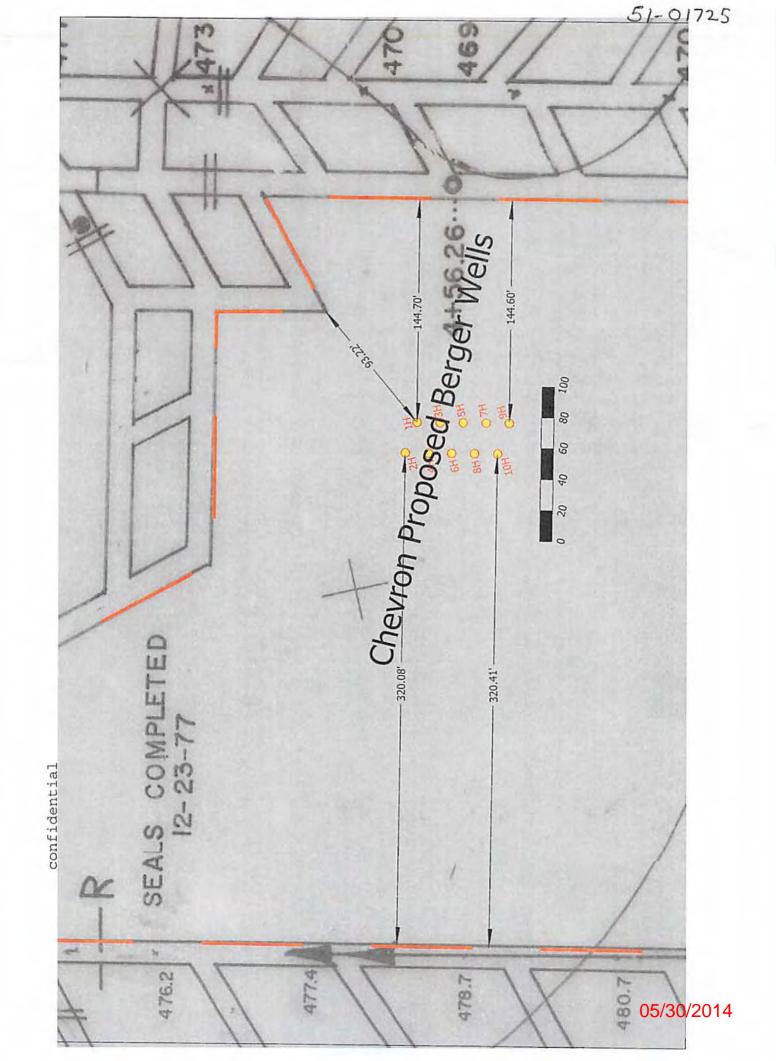
Wellbore TYPE Size Wall Burst Cement Cement Yield Thickness Diameter Pressure Type 0.375" 30" 36" Conductor 0.438" 1.18 20" 26" 2,110 Class A Fresh Water 1.18 0.514" Intermediate1 13-3/8" 17-1/2" 5,380 Class A Intermediate 2 12-1/4" Class G 1.18 9-5/8" 0.545" 10,980 5-1/2" 7-7/8" 13,580 Class G 2.2 0.545" Production Tubing Liners

### **PACKERS**

Kind:	None		
Sizes:			
Depths Set:			

21) Describe centralizer placement for each casing string.	
There will be a bow spring centralizer every two jts on the Water str	ing, Coal String, 1st Intermediate, and 2nd intermediate.
The production string will have a centralizer every jt in the lateral	and curve, then one every two jts from KOP to surface
22) Describe all cement additives associated with each cemen	
The Water String the blend will contain class A cement, 3% Ca	CI2, and flake.
The 1st intermediate will contain class A cement, 10% CaCl2, S	Salt, and flake.
The 2nd intermediate will have lead and tail cement. The lead will c	ontain class G cement, Poz Mix, Latex, Friction reducer,
defoamer, suspension agent, and 1% CaCl2. The Tail will contain	ain class G cement and 1/2% CaCl2
The production will have a lead and tail cement. The lead will contain	Class A cement, KCl, Fluid loss additive, suspension agent,
and retarder. The tail will contain Class G cement, Calcium Carbonate	KCI, Fluid loss additive, Suspension Agent, and Retarder.
23) Proposed borehole conditioning procedures. Well wi	Il be circulated a minimum of 3 bottoms up once casing
point has been reached on all hole sections. And until uniform r	nud properties are achieved.

\*Note: Attach additional sheets as needed.



#### WW-6B Attachment- Berger Unit 3H & 7H

If a void is encountered the contingency will be the following:

- Once unexpected mine void is encountered drill 19" hole to 100' below bottom of mine void.
- Run 16", 75 lb/ft, J-55 casing with cement basket 20' above mine void.
- Cement casing using displacement method to bottom of mine void using 100 percent excess.
- Grout from surface to cement basket using whatever volume of cement is necessary to get cement to surface.
- Drill 15" hole to 2665'.
- Run 11-3/4", 60 lb/ft, N-80 casing.
- Cement casing to surface using the displacement method with 30% excess.
- Drill 10-5/8" hole to 8650'.
- Run 9-5/8", Flush Joint, 53.5 lb/ft, P-110 casing.
- Cement casing to surface using the displacement method with 15% excess.
- Drill 7-7/8" hole to TD.
- Run 5-1/2" 23 lb/ft, P-110 casing to TD.
- Cement to surface using displacement method with 10% excess.

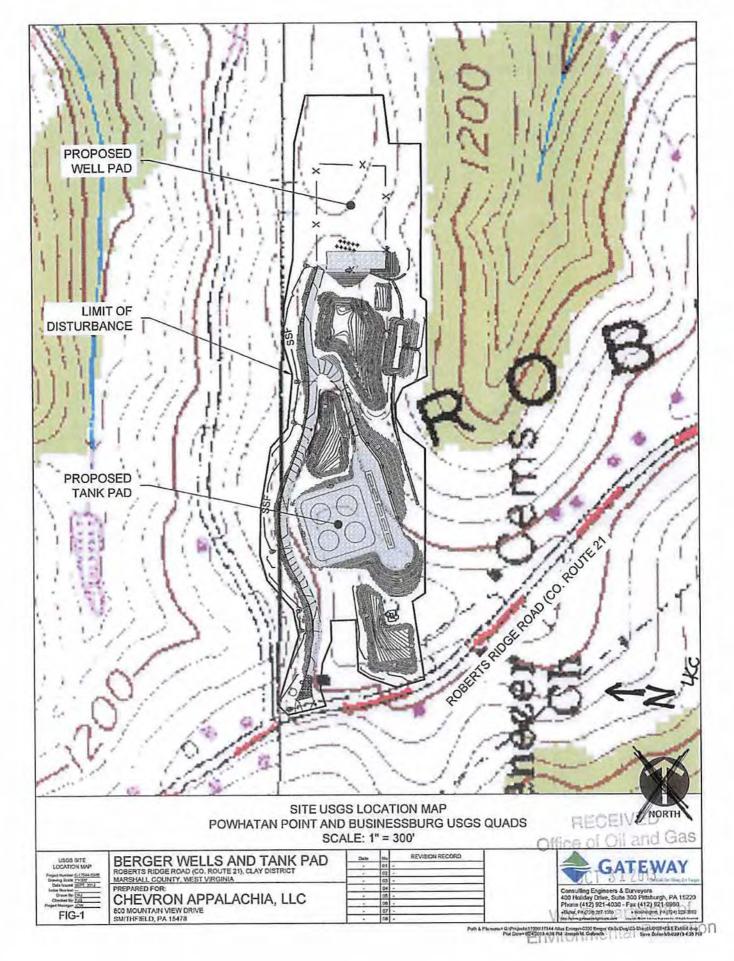
API Number 47 -	51	- 01725
Operator's	s We	II No. Berger 3H

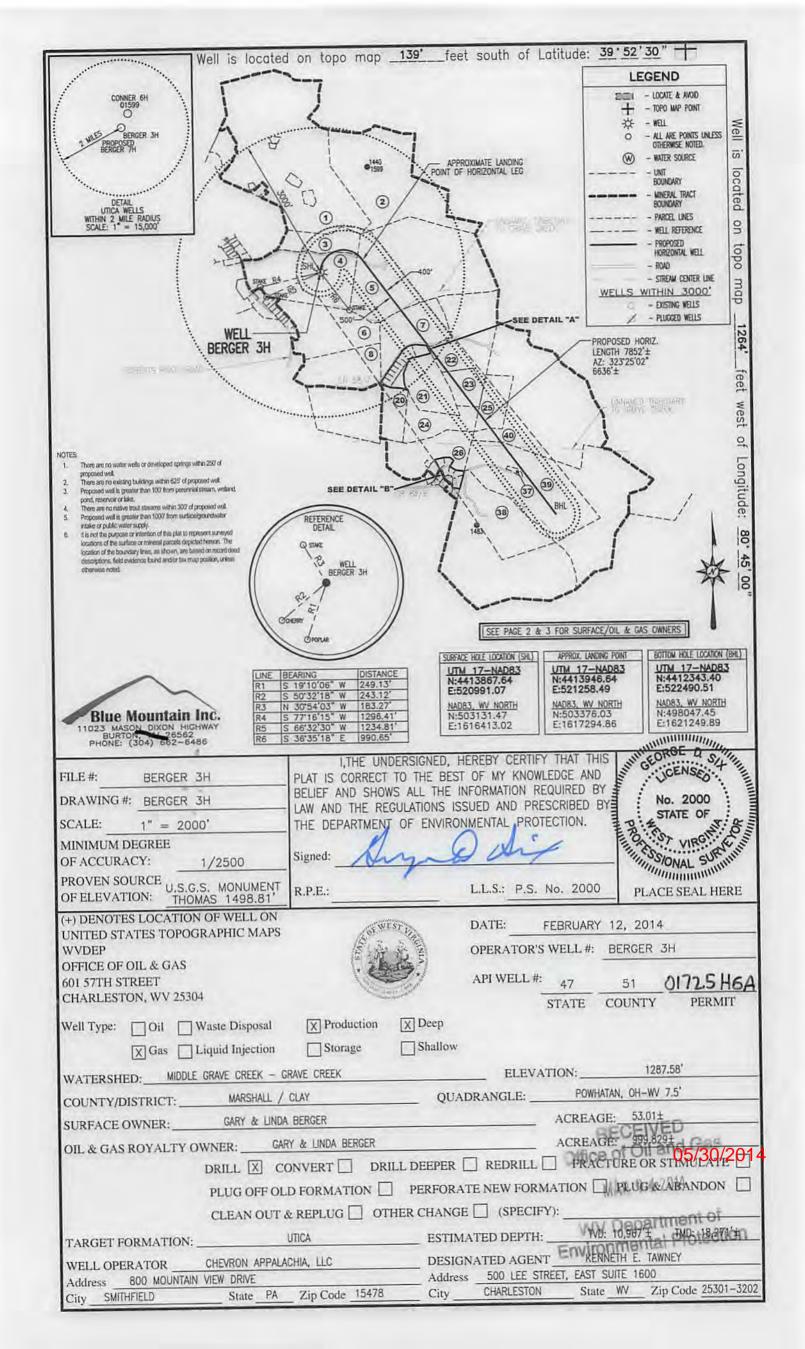
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

## FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ Chevron Appalachia, LLC	OP Code 4944935
	Powhatan, OH-WV 7.5'
Elevation 1287.58' County Marshall	District_Clay
Do you anticipate using more than 5,000 bbls of water to complete the proposed we Will a pit be used? Yes No	ell work? Yes No V
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Number	tion)
Will closed loop system be used? If so, describe:N/A	hambitation of the Residence of Chairman Commission
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater	, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc. Highly refined mineral oil based	ased mud
Additives to be used in drilling medium? emulsifiers, wetting agents, organophillic clays, barite,	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed	
-If left in pit and plan to solidify what medium will be used? (cement, lim	e, sawdust) N/A
-Landfill or offsite name/permit number? Arden Landfill- permit #- PA DEP 1001	72
I certify that I understand and agree to the terms and conditions of the GE on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and of penalties for submitting false information, including the possibility of fine or imprisonment.	of Environmental Protection. I understand that the tion of the general permit and/or other applicable familiar with the information submitted on this f those individuals immediately responsible for complete. I am aware that there are significant
Company Official (Typed Name) Jeremy Hirtz	RECEIVED
Company Official Title Permitting Term Lead	Office of Oil and Gas
	OCT 217013
Subscribed and swom before me this 27th day of September	. 20 13 COMMONWEALTH OF PENNSYLVANIA
Rodry Lee Frage My commission expires January 12, 2016	Notarial Seal Notary Public Rodney Lee Frazee, Notary Public Henry Clay Twp., Fayette County My Commission Expires Jan. 12, 2016 MEMBER, PENNSYLVANIA (\$50300) (\$10000)

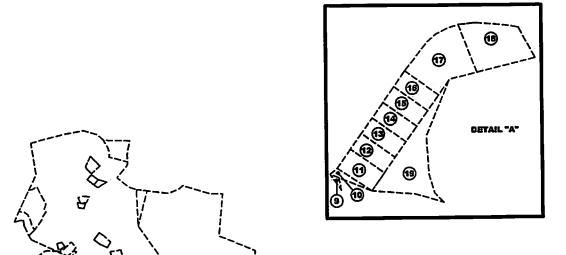
Proposed Revegetation Treatment: Acres Disturbed 21.2	Prevegetation pH 7
Lime Tons/acre or to correct to p	
10-20-20 Fertilizer type	
1000	lbs/acre
2	s/acre
	- LWG-town
	eed Mixtures Permanent
Seed Type Ibs/acre Annual Ryegrass Mixture 48.4 Ibs/acre	Seed Type lbs/acre Perennial Ryegrass Mixture 435.6 lbs/acre
	Creeping Red Fescue or Chewings Fescue
Attach	Kentucky Bluegrass Mixture
Attach: Drawing(s) of road, location, pit and proposed area for land a	Creeping Red Fescue or Chewings Fescue Kentucky Bluegrass Mixture  application (unless engineered plans including this info have been plans including the plans including this info have been plans including the plant including the
Attach: Drawing(s) of road, location, pit and proposed area for land a provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	Kentucky Bluegrass Mixture  Application (unless engineered plans including this info have been plans)  Application (unless engineered plans)  Application (unless engineered plans)  Application (unless engineered plans)
Attach: Drawing(s) of road, location, pit and proposed area for land a provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	Kentucky Bluegrass Mixture



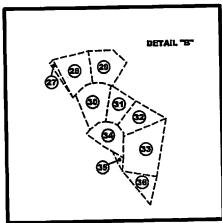


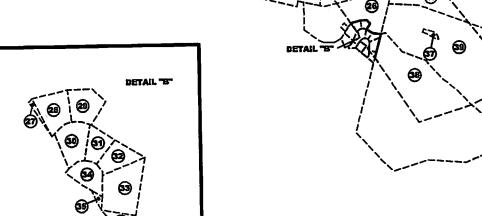
## UNIT CONSOLIDATION MAP BERGER 3H UNIT **PAGE 2 OF 3**





DETAIL "A"





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## **LEGEND**

- LOCATE & AVOID

- UNIT BOUNDARY

---- - PARCEL LINES

05/30/2014

Blue Mountain Inc. 1023 MASON DXON HIGHWAY BURTON, WY 28582 PHONE: (304) 682-6488

It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary times, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise nated. The location of the unit boundary times, as shown, a based on a .pdf (fieldmage referenced into the drawing, unless otherwise noted.

**FEBRUARY 12, 2014** 

6000' 4000' 20004

## UNIT CONSOLIDATION MAP BERGER 3H UNIT PAGE 3 OF 3

	CHIEF OF CHEFF	OIL & GAS OW	NER	TDIST-TM/PAR	IAC. IN UNIT
	SURFACE OWNER SARAH J. KNABENSHUE ET AL	HOWARD BONA	R CONNER ETAL	4-5/55	0.156
3	TERRY L. PATTERSON	TERRY L. PATT	ERSON	4-7/5.2	10.539
	GARY K. & LINDA K. BERGER	GARY K. & LIN	IDA K. BERGER		26.022
1	STANLEY L. & SHIRLEY L. PATTERSON	STANLEY L. &	SHIRLEY L. PATTERSON	4-8/1	35.161
- 1	GEORGE E. & REBECCA VUCELICK	GEORGE E. &	REBECCA VUCELICK	4-7/23	
	GEORGE E. & REBECCA VUCELICK	GEORGE F. &	REBECCA VUCELICK	4-8/2	41.552
_ !	OCODOS E & REDECCA VICELION	CEUBCE E V	REBECCA VUCELICK	4-7/24	1
_ [	GEORGE E. & REBECCA VUCELICK	CHARLES A &	CINDY K. SEBROSKI	4-7/24.1	0.370
	CHARLES A. & CINDY K. SEBROSKI		COLISIA A. HUFF	4-8/4	0.250
	MILTON L. HUFF JR.			4-8/3.1	0.250
5	WILLIAM L. LOY & NAOMI LOY	WILLIAM E. LOY			0.828
<del>7</del> Ti	ESTHER & JAMES NEMURAS		STHER L. NEMURAS	4-8/3	0.710
8 7	AMY JO HELMS	AMY JO HELMS		4-8/3.8	
9 1	EDGAR E. HAMMOND III	EDGAR E. HAM	IMOND III	4-8/3.7	0.965
0 7	ANDREW S. HAMMOND	ANDREW S. &	TINA HAMMOND	4-8/3.5	2.950
1 1	ROGER HAMMOND	ROGER W. &	CINDY A. HAMMOND	4-8/3.6	8.285
<del>.  </del>	BONAR FAMILY IRREVOCABLE TR	RONAR FAMILY	IRREVOCABLE TR	4-8/9	15.2595
2	BONAR FAMILY IRREVOCABLE TR		IRREVOCABLE TR	4-8/8	713.2333
3	BUNAR PANILT IRREVOCABLE IR	CLARA E. HAM		4-8/3.3	8.2998
4 1	HUNTER W. & ROGER W. HAMMOND	JOHN ROBERT	BONAR	4-8/10.1	10.039
	JOHN ROBERT BONAR	HEATH & CHR	ISTY TAYLOR	4-12/2	12.931
	HEATH & CHRISTY TAYLOR	INCALL OF CHK	& PATTY L. YOHO	4-12/2.28	1.096
	WOODROW J. YOHO	HOUDKOW J.	WE ET LIV	4-12/2.27	
	ROBERT D. LEWIS		VIS ET UX		
آآو	RYAN E. BLACK	RYAN E BLACK		4-12/2.26	0.525
<del>ŏ l</del> i	KIMBERLY SUE HILL	KIMBERLY SUE		4-12/2.23	
1	KATHLEEN C. TEREK	KATHLEEN C.	TEREK	4-12/2.16	
2	LAWRENCE K. ALTMEYER ET UX	LAWRENCE K.	ALTMEYER ET UX	4-12/2.12	
3	BRIAN P. CAREY ET UX	BRIAN P. CAR		4-12/2.14	
4	JAMES C. BOYD	JAMES C BOYE		4-12/2.8	0.554
	STEPHEN M. HENRY	STEPHEN M. H	IENRY	4-12/2.11	0.606
5	SOUTHER M. HERKI	PORFRT 1 &	DELCRES M. CARUSO		0.618
	ROBERT J. CAURSO	GRACE L. BON	JAP FTAI	4-8/10	12.549
0	GRACE L. BONAR ETAL	I GIONGE L. BUN	THE LIFE	1. 2/ .0	
		OUN P (Propos	EON HEIDE T	OTAL ACRES IN	UNIT 31.158
		Janes	OIL & OAE OWNERS		AC. IN UNIT
	SURFACE OWNER	DIST-IM/PAR	OIL & GAS OWNERS		SEE ABOVE
10	MAURICE W. & DIANE N. WALTER	4-8/3.4	KENNETH BROW PHILLIP & JOYCE CROUCE PAUL T. CUMMINGS		SEE ABOVE
11	MAURICE W. & DIANE N. WALTER	4-8/7	BHILLID & JOYCE CHOOC	н	
12	EVELYN MAXINE STANLEY	4~8/6			SEE ABOVE
	RODNEY A. KEREKES	4-8/5	JOHN W. JEFFERSON		SEE ABOVE
	MILTON L. HUFF JR.	4-8/4	JAMES K. JEFFERSON		SEE ABOVE
	WILLIAM L. LOY & NAOMI LOY	4-8/3.1	SHARON E. BRAXTON		SEE ABOVE
_		4-8/3.2	THOMAS LEE JEFFERSON		SEE ABOVE
16	JUNE HALL	4-8/3	LUCIDA K. LAVIANO		SEE ABOVE
17	ESTHER & JAMES NEMURAS		EDOLER II. ENTERE		SEE ABOVE
18	AMY JO HELMS	4-8/3.8			SEE ABOVE
19	EDGAR E. HAMMOND III	4-8/3.7			SEE ABOVE
20	ANDREW S. HAMMOND	4-8/3.5			SEE ABOVE
21	ROGER HAMMOND	4-8/3.6			
23	RONAR FAMILY IRREVOCABLE TR	4-8/8			SEE ABOVE
24	HUNTER W. & ROGER W. HAMMOND	4-8/3.3			SEE ABOVE
					101 TINE 1 OF
	KEN	NETH M. LEONA	D. LOY HEIRS	TOTAL ACKES	IAC. IN UNI
_	SURFACE OWNER		OIL & GAS OWNERS		SEE ABOVE
10	MAURICE W. & DIANE N. WALTER	4-8/3.4	PATRICIA L CROW		
	MAURICE W. & DIANE N. WALTER	4-8/7	PHYLLIS J. CROW-HEWIT	Т	SEE ABOVE
11	EVELYN MAXINE STANLEY	4-8/6	KENNETH D. LOY		SEE ABOVE
12	CARTIN MAYINE SIMILE	4-8/5	RONALD L. LOY		SEE ABOVE
13	RODNEY A. KEREKES	4-8/3.2	1		SEE ABOVE
16	JUNE HALL	17 0/ 5.2			
		MEDIY MEDIE	CHAPLIN ET UX	TOTAL ACRES	IN UNIT 81.93
<u> </u>		DIST_TM /DAD	TOU & CAS OWNERS		AC. IN UNI
	SURFACE OWNER	4-12/3.1	MARCELLUS TX MINERAL	PARTNERS. L	LC SEE ABOVE
7**	MERLE R. & JEAN E. CHAPLIN	4-12/3.1	PURPLEBURGH VENTURE	S. LLC	SEE ABOVE
37	MERLE R. & JEAN E. CHAPLIN	4-12/4	JMK IRREVOCABLE TRUS	T	SEE ABOVE
37 38	I CHARLE CHARLIN	14-12/3	TOWN INVESTIGATE INCO	<del></del>	
37 38 39	MERLE R. & JEAN E. CHAPLIN	1/-			
38	MERLE R. & JEAN E. CHAPON	-	LEASES	TOTAL ACRES	IN UNIT 1.705
38		PERSINGER	LEASES	TOTAL ACRES	IN UNIT 1.705
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	OIL & GAS OWNERS	TOTAL ACRES	AC. IN UN
38		PERSINGER	JOHN L. FOX	TOTAL ACRES	SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	JOHN L. FOX KAREN M. FOX	TOTAL ACRES	SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	OIL & GAS OWNERS  JOHN L. FOX  KAREN M. FOX  CHRISTI F. PRESTON	TOTAL ACRES	SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	R OIL & GAS OWNERS JOHN L FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II	TOTAL ACRES	SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON		SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	OIL & GAS OWNERS  JOHN L. FOX  KAREN M. FOX  CHRISTI F. PRESTON		SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. MAMILTON DOROTHY ANN ARGENTA		SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COLL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX !! CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS		AC. IN UNIVERSE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA		AC. IN UNIVERSE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER JANET C. HUNNEL		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COLL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE		AC. IN UNIVERSEL ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COLL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COLL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS WILLIAM B. FOX		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS WILLIAM B. FOX LINDA S. SMITH		AC. IN UNIVERSE ABOVE SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	COLL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS WILLIAM B. FOX		AC. IN UM SEE ABOVE
38	SURFACE OWNER	PERSINGER DIST-TM/PAR	CIL & GAS OWNERS JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY ANN ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNEL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS WILLIAM B. FOX LINDA S. SMITH		AC. IN UNIVERSE ABOVE SEE ABOVE

05/30/2014



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