

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

August 27, 2013

WELL WORK PERMIT Secondary Recovery Well

This permit, API Well Number: 47-3305760, issued to HG ENERGY, 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 feet free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: W.B. CARPENTER #141

Farm Name: JUNKINS, EARL & BELVA

API Well Number: 47-3305760

Permit Type: Secondary Recovery Well

Date Issued: 08/27/2013

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.

WELL TYPE:



Liquid Injection X

1) Date		N	Iay 21, 20	13	
2) Operator's Wel	l No.	V	V. B. Carp	enter N	lo. 141
3) API Well No.	47		033	•	
-	State		County		Permit
4) UIC Permit No		τ	ЛС2R033	01AP	

Gas Injection (not storage) Waste Disposal

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

LOCATION:		Elevation	1390'			Wate	shed	Branc	h of Lick Run			
	District		Tenmile	09	Coun	tyHarris	on 33		Quadrangle	Sale	m 7.5'	596
WELL OPER	ATOR:	HG Energ	gy, LLC		49449794	8 8) DES	IGNATEI	AGENT	: Mike	Kirsch		
4		5260 Dup								Dupont R		
		Parkersb	urg, WV 2	6101		<u>-</u>			Parke	rsburg, V	VV 2610	1
OIL & GAS I	NSPECTO	OR TO BE	NOTIFIE	D:		10) DR	ILLING C	CONTRAC	CTOR:			
		Sam War				=2		Name				
	Address	P. O. Box		4004				Address	S			
		Buckhan	non, WV 2	6201		-1			5.0	40		
1) PROPOSED	WELL WO	ORK:		Off O	d Formati	Drill Deeper on in Well (specify)	Perforate	Redril New Forn		ulate Cor	X ivert	
2) Geological ta	rget forms	ation		Fifth S	and	Depth		3,285	Ft. (Top) to	3,	292 Ft	. (Bottom)
B) Estimated de	pth of con	npleted we	ell (or actu	al dept	h of existir	ng well)	3225' TVD	3425' T	MD Ft.			
4) Approximate	water str	ata depths	3:	Fresh		100	Ft.		Salt	1,498	F	
5) Approximate	coal seam	depths:			780		Ft.					
6) Is coal being	mined in	the area?			Ye	s	X	No No				
7) Virgin reserv	oir pressu	re in targe	et formati	on:		1,2	50	psig.	Source	Es	timated	
N 77 (* 1 1	convoir fr	activo neo	eenro'			2.6	50	psig.				
8) Estimated re	servoir ir	acture pres	bourc.			2,0	-					
 Estimated re MAXIMUM 1 				ERATIC	NS: V	olume per hour			Bottom Hole Pre	ssure	2,40	00 psi
9) MAXIMUM I	PROPOSE	ED INJEC	TION OPE	RIALS	TO BE IN		25 BBL DING AD			-		-
9) MAXIMUM I	PROPOSE DENTIFI emicals as	ED INJEC	TION OPE OF MATE maintain	RIALS water	TO BE INquality an	Volume per hour	25 BBL DING AD			-		-
9) MAXIMUM I 0) DETAILED I and other che 1) FILTERS (IF	PROPOSE DENTIFI emicals as ANY)	ED INJECT CATION (needed to	TION OPE OF MATE maintain Cartridge	RIALS water	TO BE INquality and	Volume per hour JECTED, INCLU d improve oil reco	25 BBL DING AD very.	DITIVES		-		-
D) MAXIMUM I D) DETAILED I and other cha	PROPOSE DENTIFI emicals as ANY) FION FOR	CATION (cat	TION OPE OF MATE maintain Cartridge DIC PROT	RIALS water	TO BE INquality and	Volume per hour JECTED, INCLU d improve oil reco	25 BBL DING AD very.	DITIVES		-		-
9) MAXIMUM I 10) DETAILED I 11 and other characteristics (IF 12) SPECIFICATION	PROPOSE DENTIFI emicals as ANY) FION FOR	CATION (cat	TION OPE OF MATE OF MATE OF MAINTAIN Cartridge DIC PROT	RIALS water filters ECTIO	TO BE INquality and	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO	25 BBL DING AD very. DN CONT	DITIVES	Fresh water,	produced	water,	bactericide
MAXIMUM I DETAILED I and other che II) FILTERS (IF EXECUTED AT SPECIFICAT CASING AN ASING OR	PROPOSE DENTIFI emicals as ANY) FION FOR	CATION (cat	TION OPE OF MATE organisation Cartridge DIC PROT AM FICATION	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco l bed filters THER CORROSIO	25 BBL DING AD very. DN CONT	ROL	GEMENT FILE	produced	water,	-
MAXIMUM I DETAILED I and other che FILTERS (IF E) SPECIFICAT CASING AN ASING OR	PROPOSE DENTIFI emicals as ANY) FION FOR	CATION (cat	TION OPE OF MATE OF MATE OF MAINTAIN Cartridge DIC PROT	RIALS water filters ECTIO	TO BE INquality and	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO	25 BBL DING AD very. DN CONT	ROL	Fresh water,	JUP	water,	bactericide
MAXIMUM I DETAILED I and other che II) FILTERS (IF III) SPECIFICAT B) CASING AN ASING OR UBING TYPE onductor	PROPOSE DENTIFI emicals as YANY) FION FOR D TUBIN Size	CATION (carried to a needed to general to g	TION OPE OF MATE o maintain Cartridge DIC PROT AM FICATION Weight	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco al bed filters THER CORROSIO FOOTAGE IN For Drilling	25 BBL DING AD very. ON CONT	ROL G a Well	CEMENT FILL OR SACKS (CU	JUP FT.)	PAC	bactericide
MAXIMUM I D) DETAILED I and other che I) FILTERS (IF E) SPECIFICAT B) CASING AN ASING OR UBING TYPE onductor resh Water	PROPOSE DENTIFI emicals as ANY) FION FOR	ED INJECT CATION (Enceded to R CATHOL G PROGR. SPECI	TION OPE OF MATE organisation Cartridge DIC PROT AM FICATION	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco l bed filters THER CORROSIO	25 BBL DING AD very. DN CONT	ROL G a Well	GEMENT FILE	JUP . FT.) Ki ce Te	PAC	bactericide
9) MAXIMUM I 20) DETAILED I and other che 31) FILTERS (IF 32) SPECIFICAT 33) CASING AN ASING OR UBING TYPE onductor resh Water	PROPOSE DENTIFI emicals as YANY) FION FOR D TUBIN Size	CATION (carried to a needed to general to g	TION OPE OF MATE o maintain Cartridge DIC PROT AM FICATION Weight	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco al bed filters THER CORROSIO FOOTAGE IN For Drilling	25 BBL DING AD very. ON CONT	ROL G a Well	CEMENT FILL OR SACKS (CU	JUP . FT.) Ki ce Te	PAC	bactericide KERS
MAXIMUM I and other che and other che i) FILTERS (IF E) SPECIFICAT CONTROL CON	PROPOSE DENTIFI emicals as FANY) FION FOR D'TUBIN Size 7"	CATION (a needed to reeded to reed	FION OPE OF MATE OF MA	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco l bed filters THER CORROSIO FOOTAGE IN For Drilling 855'	25 BBL DING AD very. ON CONT TERVALS Left in	ROL G a Well	CEMENT FILL OR SACKS (CU	JUP FT.) Ki ce Te Si 2.3	PAC	bactericide KERS
MAXIMUM I and other che and other che in FILTERS (IF E) SPECIFICAT B) CASING AN ASING OR UBING TYPE conductor resh Water coal intermediate reduction	PROPOSE DENTIFIEM in the semicals as FANY) FION FOR D'TUBIN Size 7" 4 1/2"	CATION Conceeded to R CATHOL G PROGRESPECTION Grade L.S. J-55	TION OPE OF MATE OF MA	RIALS water efilters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco al bed filters THER CORROSIO FOOTAGE IN For Drilling	25 BBL DING AD very. ON CONT	ROL G Well 5'	CEMENT FILL OR SACKS (CU	JUP FT.) Ki ce Te Sid 2.8	PAC	bactericide KERS
MAXIMUM I and other che and other che ii) FILTERS (IF E) SPECIFICAT CONTROL CO	PROPOSE DENTIFI emicals as FANY) FION FOR D'TUBIN Size 7"	CATION (a needed to reeded to reed	FION OPE OF MATE OF MA	RIALS water filters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO FOOTAGE IN For Drilling 855'	25 BBL DING AD very. ON CONT TERVALS Left in 856	ROL G Well 5'	CEMENT FILL OR SACKS (CU	LUP King Sing Sing Sing Sing Sing Sing Sing S	PAC nds nsion zes 375" x 4	KERS 5"
MAXIMUM I and other che and other che in FILTERS (IF E) SPECIFICAT B) CASING AN ASING OR UBING TYPE conductor resh Water coal intermediate reduction reduction	PROPOSE DENTIFIEM in the semicals as FANY) FION FOR D'TUBIN Size 7" 4 1/2"	CATION Conceeded to a needed t	TION OPE OF MATE OF MA	RIALS water efilters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO FOOTAGE IN For Drilling 855'	25 BBL DING AD very. ON CONT TERVALS Left in 856	ROL G Well 5'	CEMENT FILL OR SACKS (CU	LUP King Sing Sing Sing Sing Sing Sing Sing S	PAC nds nsion zes 375" x 4 epths Se 25' rforatio	KERS 5"
9) MAXIMUM I 20) DETAILED I and other che 31) FILTERS (IF 32) SPECIFICAT 33) CASING AN ASING OR UBING TYPE Conductor resh Water Coal intermediate reduction Cubing	PROPOSE DENTIFIEM in the semicals as FANY) FION FOR D'TUBIN Size 7" 4 1/2"	CATION Conceeded to a needed t	TION OPE OF MATE OF MA	RIALS water efilters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO FOOTAGE IN For Drilling 855'	25 BBL DING AD very. ON CONT TERVALS Left in 856	ROL G Well 5'	CEMENT FILL OR SACKS (CU	LUP King Sing Sing Sing Sing Sing Sing Sing S	PAC nds nsion zes 375" x 4 epths Se 25' rforatio	KERS 5" t
9) MAXIMUM I 10) DETAILED I 11 and other che 11 FILTERS (IF 12) SPECIFICAT	PROPOSE DENTIFIEM in the semicals as FANY) FION FOR D'TUBIN Size 7" 4 1/2"	CATION Conceeded to a needed t	TION OPE OF MATE OF MA	RIALS water efilters ECTIO	TO BE IN quality and and/or coa N AND OT	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO FOOTAGE IN For Drilling 855'	25 BBL DING AD very. ON CONT TERVALS Left in 856	ROL G Well 5'	CEMENT FILL OR SACKS (CU	LUP King Sing Sing Sing Sing Sing Sing Sing S	PAC nds nsion zes 375" x 4 epths Se 25' rforatio	KERS 5" t
9) MAXIMUM 1 20) DETAILED I and other che 11) FILTERS (IF 12) SPECIFICAT 13) CASING AN 14 ASING OR 15 UBING TYPE 16 conductor 17 cresh Water 18 condition 18 conduction 19 conduction 10	PROPOSE DENTIFIE Emicals as YANY) FION FOR D TUBIN Size 7" 4 1/2" 2 3/8"	CATION (a needed to reeded to reed	TION OPE OF MATE OF MA	RIALS water filters ECTIO	TO BE IN quality and and/or coan AND OT	Volume per hour JECTED, INCLU d improve oil reco d bed filters THER CORROSIO FOOTAGE IN For Drilling 855' 3425' 3125'	25 BBL DING AD very. ON CONT TERVALS Left in 856	ROL S 1 Well 5' 25'	CEMENT FILL OR SACKS (CU	LUP King Sing Sing Sing Sing Sing Sing Sing S	PAC nds nsion zes 375" x 4 epths Se 25' rforatio	kers t
9) MAXIMUM I 10) DETAILED I 11 and other che 11) FILTERS (IF 12) SPECIFICAT 13) CASING AN 14 ASING OR 15 CONTROL OF CONTROL 16 CONTROL OF CONTROL 17 CONTROL OF CONTROL 18 CONTR	PROPOSE DENTIFIED Emicals as FANY) FION FOR D'TUBIN Size 7" 4 1/2" 2 3/8"	CATION (a needed to reeded to reed	TION OPE OF MATE of maintain Cartridge DIC PROT AM FICATION Weight 17# 10.5# 4.6 #	RIALS water efilters ECTIO	TO BE IN quality and and/or coan AND OT	Volume per hour DECTED, INCLU d improve oil reco l bed filters THER CORROSIO FOOTAGE IN For Drilling 855' 3425' 3125' W. B.	25 BBL DING AD very. DN CONT FERVALS Left in 856 342 312	ROL S 1 Well 25' 25'	CEMENT FILL OR SACKS (CU	JUP . FT.) Ki ce Te Si 2.8 De 30 Pe	PAC nds nsion zes 375" x 4 epths Se 25' rforatio	KERS 5" t outom

WW-3A 10/07



1) Date:		May 21, 2	013		
2) Operator's We	ll No.	W. B. Car	penter l	No. 141	
3) API Well No.	47	033	· ·		
	State	County		Permit	
4) UIC Permit N	o.	UIC2R033	301AP		

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

5) Surface Owner	HE DEPARTMENT OF ENVIRONMENTAL	7 (a) Coal Operator	
(a) Name	Earl & Belva Junkins	Name	NA
Address	RR 5, Box 1226	Address	TVA
Address	Salem, WV 26426	Address	
(b) Name	Edgar Lee Myers	7 (b) Coal Owner(s)	With Declaration Of Record
(b) NameAddress	RR 4, Box 532	Name	NA
Address _	Salem, WV 26426	Address	NA
(a) Name	Brian V. Huffman	Address	
(c) Name _	RR 4, Box 530	Nama	
Address	Salem, WV 26426	Name	
-		Address	
3	Salem, WV 26426		1.5.1
6) Inspector_	Sam Ward	7(c) Coal Lessee Wi	th Declaration Of Record
Address	P. O. Box 2327		Wolf Run Mining Co.
_	Buckhannon, WV 26201		2708 Cranberry Square
Telephone_	389-7583		Morgantown, WV 26505
HE REASON YO HICH ARE SUN RE NOT REQUI	ed for the first injection or waste disposal is OU RECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM V RED TO TAKE ANY ACTION AT ALL.	WW-3(A) DESIGNAT	EGARDING THE APPLICATION FED TO YOU. HOWEVER YOU
plication and acco vironmental Prote V-6. Copies of this	er Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chiesection, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and vered by hand to the person(s) named above (or by publication the Chief.	f of the Office of Oil and attached Application a Reclamation Plan have	d Gas, West Virginia Department of and depicted on the attached Form e been mailed by registered or
	The person signing this document shall make the	following certificatio	n:
certify under pena	lty of law that I have personally examined and am	Well Operator	HG Energy, LLC
	ormation submitted in this document and all attachments	Address	5260 Dupont Road
	y inquiry of those individuals immediately responsible		Parkersburg, WV 26101 Office of Oil & G
	ormation, I believe that the information is true, accurate	Desi	Ollige of on a
	ware that there are significant penalties for submitting	By:	Diane C. White
se information, inc	cluding the possibility of fine and imprisonment."	Its:	Accountant 2 201
		Signature	Diane CWhite

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the 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.gov

Form WW-9 Rev. 10/94

	Page	3	of	3
API	Number 47-	033		
Operator's Well No.	W. B. Car	pente	No. 141	

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM $\dot{}$ GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	HG Energ	gy, LLC		OH	Code 494	497948
Watershed	Branch of	Lick Run		Quadrangle	Salem 7.5	
Elevation	1390'	County	Harrison	District	Tenmile	
Description of a	anticipated Pit Waste:	Fluids encoun	tered in drilling shall	ow well.		4, -7
Do you anticipa	ate more than 5,000 bbl	s of water to comp	lete the proposed well w	orl Yes	No X	
Will a synthetic	c liner be used in pit?	Yes	If so, what mil.?	-10 Mil. 20 MI		
Drilling medium - 1 Additives to be Drill cuttings d - 1	Reuse (at A Off Site Di Other m anticipated for this w If oilbased, what type? used? Water, S isposal method? Leave	cation nd Injection (UIC and Injection (UIC and Injection (UIC and Injection (Explain and Injection (UIC a	ern WW-9 for disposal loc er, oil based, etc. Ai mm, etc. NA	ir, Fresh Water	ative soil, ceme)) int, lime
issued on Augusthat the provisi applicable law of I of this application for obtaining the	st 1, 2005, by the Office ons of the permit are er or regulation can lead to certify under penalty of form and all attachment to information, I believe	of Oil and Gas of offorceable by law. You enforcement action law that I have pents thereto and that that the information	terms and conditions of the West Virginia Depar Violations of any term of on. rsonally examined and a at, based on my inquiry of ion is true, accurate and cossibility of fine or impro-	tment of Environment r condition of the gene: am familiar with the in of those individuals im complete. I am aware	al Protection. I u ral permit and/or nformation submi mediately respon	inderstand other itted on isible
Company Offic	cial Signature		Diane Chi	Phite		
Company Offic	cial (Typed Name)		Diane C. White			
Company Offic	cial Title		Accountant		1	
Subscribed an	d sworn before me thi	s <u>21</u>	day of MAY	1 2013 DI NO	otary Public	
My commission	n expires		Nov 12 2	2018		
Form WW-9						

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA TINA L. PETHTEL HG Energy, LLC 5260 Dupont Road Parkersburg. West Virginia 26101 My Commission Expires Nov. 12, 2018

Property Boundary

Legend

Diversion

Spring

1		Spring	<u> </u>
Existing Fence	_xxx-	Wet Spot	\tag{\tag{\tag{\tag{\tag{\tag{\tag{
Planned Fence	// /	Drain Pipe	
Stream		Waterway	\Leftrightarrow \Leftrightarrow \Leftrightarrow
Open Ditch		Cross Drain	
Rock	00000000000000000000000000000000000000	Filter Strip	XXXXXXXXXX
	9,40 Ap	Pit: Cut Walls	
North	N		
•		Pit: Compacted Fill Walls	\(\frac{1}{2}\)
Buildings	(W)	ĺ	77777
Water Wells	w	Area of Land Application	
Drill Site	(of Pit Waste	
•		_	
	Are		
osed Revegetation Treatme	ent: Acres Disturbed Approx.	1.0 Ac. Pre	vegetation pH
	. Area		
	Approx.	1.0 Ac.	
Lime	2 Tons/Acre or Co	orrect to pH 6.5	
	er (10-20-20 or Equivalent) 50		lbs. Minimum)
Mulch	· · · · · · · · · · · · · · · · · · ·	ere	
	SEED MI	XTURES	
			Avera II (Dood)
	I (Location)	Sood Type	Area II (Road)
Seed Type	Lbs/Ac.	Seed Type	Area II (Road) Lbs/Ac. 40
Seed Type Tall Fescue		Seed Type Tall Fescue Ladino Clover	Lbs/Ac.
Seed Type	Lbs/Ac.	Tall Fescue	Lbs/Ac. 40 5
Seed Type Tall Fescue	Lbs/Ac.	Tall Fescue	Lbs/Ac. 40 5
Seed Type Tall Fescue	Lbs/Ac.	Tall Fescue	Lbs/Ac. 40 5
Seed Type Tall Fescue Ladino Clover ch:	Lbs/Ac. 40 5	Tall Fescue Ladino Clover	Lbs/Ac. 40 5
Seed Type Tall Fescue Ladino Clover ch: wing(s) of road, location, p tocopied section of involve	Lbs/Ac. 40 5 it and proposed area for land application d 7.5' topographic sheet.	Tall Fescue Ladino Clover	Lbs/Ac. 40 5 Neceived Office of Oil & Gas
Seed Type Tall Fescue Ladino Clover ch: wing(s) of road, location, p tocopied section of involve	it and proposed area for land application d 7.5' topographic sheet.	Tall Fescue Ladino Clover	Lbs/Ac. 40 5 Received Office-of-Qil & Gas
Seed Type Tall Fescue Ladino Clover ch: wing(s) of road, location, p tocopied section of involve	Lbs/Ac. 40 5 it and proposed area for land application d 7.5' topographic sheet.	Tall Fescue Ladino Clover	Lbs/Ac. 40 5 Received Office of Oil & Gas
Seed Type Tall Fescue Ladino Clover ch: wing(s) of road, location, p tocopied section of involve Plan approved by: Comments:	it and proposed area for land application d 7.5' topographic sheet.	Tall Fescue Ladino Clover	Lbs/Ac. 40 5 Received Office of Oil & Gas
Seed Type Tall Fescue Ladino Clover ch: wing(s) of road, location, p tocopied section of involve Plan approved by: Comments:	it and proposed area for land application of 7.5' topographic sheet.	Tall Fescue Ladino Clover	Lbs/Ac. 40 5 Received Office of Oil & Gas MAN 2 2013





