

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 29, 2013

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-10302812, 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 feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: MCCOY HEIRS 17

Farm Name: WAYNE, ROBERTA B.

API Well Number: 47-10302812

Permit Type: Secondary Recovery Well

Date Issued: 08/29/2013

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.

WW-3B 10/07



1) Date		J	uly 11, 20	13	
2) Operator's Well	No.	N	IcCoy Hei	irs 17	
3) API Well No.	47	_	103	120	2812
	State		County		Permit
4) UIC Permit No		I	JIC2R095	01AP	

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

5) \	WELL TYPE:	Liquid	Injection	X		Gas Inj	jection (no	t storage	e)	Waste Disj	oosal	
6) I	LOCATION:	Elevation	810'				Waters	hed	Piney I	Fork		
7	Dist		Green	05	Co	unty	Wetzel	103		Quadrangle	Pine Grove 7	5' 548
7) \	WELL OPERATOR	: HG Ener	gy, LLC		494497	7948	8) DESIG	NATED	AGENT:	Mike	Kirsch	
			ont Road							5260 I	Dupont Road	
		Parkersb	urg, WV 2	26101						Parke	rsburg, WV 261	101
9) (OIL & GAS INSPE	CTOR TO BE	NOTIFIE	D:			10) DRII	LING C	ONTRAC	TOR:		
		me Derek Ha								To be Determined	Upon Approva	l of Permit
	Addr	ess PO Box 8	85 le, WV 261	170		_			Address			
					-						7 / /	
11) I	PROPOSED WELL	WORK:	Drill		117	Drill I		C	Redrill New Form		ulate Convert	
					ld Form	ge in Well (sp		riorate r	New Form	ation	Convert_	Λ
12) (Geological target for	rmation	Other	Gordo		,e II ((e)	Depth		2,898	Ft. (Top) to	2,905 I	Ft. (Bottom)
	Estimated depth of		all (or actu	al dent	h of exis	ting well)		5.00 T.	2883' TV			0.40-12-12-1
							Ft		2000 1	Salt	NA I	řt.
	Approximate water		3:	Fresh		120'				San	INA I	. 6.
15) <i>I</i>	Approximate coal se	eam depths:			546' - 5		Ft					
16) I	s coal being mined	in the area?				Yes	-	X	$-^{N_0}$			
17)	Virgin reservoir pre	ssure in targ	et formati	on:			1,250		_ psig.	Source	Estimate	d
18) I	Estimated reservoir	fracture pre	ssure:				2,650		psig.			
19) I	MAXIMUM PROPO	SED INJEC	TION OPI	ERATIC	NS:	Volume pe	r hour	25 BBL		Bottom Hole Pres	ssure 2,4	00 psi
	DETAILED IDENT								DITIVES	Fresh water, p	produced water,	bactericides
	FILTERS (IF ANY)	as needed to				coal bed filte		13.				
	SPECIFICATION F	OD OAMHOI						CONTRE	201			
22) 5	SPECIFICATION F	OR CATHOL	IIC PROT	ECTIO	N AND	OTHER CO	RROSION	CONT	IOL	-		
23) (CASING AND TUB	ING PROGR	AM									
			7.6 - 5.2	10		TOOMA	OF INDE	DVALO		CEMENT FILL	IID DA	CKERS
	NG OR NG TYPE Size		FICATION Weight	New	Used	For Drill	GE INTE	Left in	Well	OR SACKS (CU.		JKEKS
Condu		Grade	Weight	IVEW	Oseu	TOI DIM	ing	Licit III	· · · · ·	On Brionib (CC.	Kinds	
17 7 6 7 7 7	Water 7"	L.S.	17#	X		805'		805'		Existing Casing	Tension	
Coal											Sizes	
	nediate				E. 21						2 3/8" x 4	1/2"
Produ	A COLUMN TO A COLU		10.5#	X		3053'		3053		Existing Casing	Depths S	et
Tubing		3" J-55	4.6#	X		2770'		2770)'	nec	2650'	
Liners		_									CP4/Q	1 1
		_								. Ware	Top	30ttom
							_			JUL	30 2012	_
24)	APPLICANTS OPE	DATING DIC	HTC	. 00001	od from		To	hn R Ma	Coy, et al		17013	-
24)	by Deed	Lease			her Con			ted	Februa	m: 14 10000	of record	in the
	by Deed	Wetzel				Office in	Lease	-	Book	48. of Entitles	e and Ges	
		1160261		Jount	, CICIA	Jine III	Licust				mentara	

State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work

Farm name:

WAYNE, ROBERTA B.

Operator Well No.: MCCOY HEIRS 17

LOCATION:

Elevation:

810'

Quadrangle: PINE GROVE 7.5'

District:

GREEN

County: WETZEL

Latitude:

11,005 Feet south of

Longitude:

5,160 Feet west of

39 Deg 32 Min 30 Sec. 80 Deg 40 Min 0 Sec.

Company Address:	HG Energy 5260 DuPon Parkersburg,		Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft,
Inspector:	Derek H	aught				
Date Permit Issue	ed: 08.	/31/2012				
Date Well Work	Commenced:	10/24/2012				
Date Well Work	Completed:	11/07/2012	9 5/8"	201	201	
Verbal Plugging:			9 3/8"	32'	32'	
Date Permission	Granted On:					
Rotary X Ca	ible R	ig	7"	805'	805'	175 sks
Total vertical De	pth (ft):	2883'				
Total Measured I	Depth (ft):	3132'				
Fresh Water Dep	th (ft):	50', 120'	4 1/2"	3052.8'	3052.8'	250 sks
Salt Water Depth	ı (ft):	None				*
Is Coal being min	ned in ares (Y/N)?	No	1			
Coal Depths (ft):	x 54	16'-554'	1	234		
Void(s) encounte	red (Y/N) depth(s): NONE	le.				ò

OPEN FLOW I	DATA * Waterflood P	roducer					
	This well drille	d directi	onally 2	94° NW a distance	of 802'.	28	70'-2883'
Produc	ing formation	Gordo	n	Pay zon	e depth (ft)	289	98'-2905'
Gas:	Initial open flow	*	MCF/d	Oil: Initial open f	low	*	Bbl/d
	Final open flow	*	MCF/d	Final open flo		*	Bbl/d
	Time of open flow between	initial	and fina	l tests	* <u>T</u>	Iours	
Static r	ock pressure	*	psig (su	rface pressure)	after	*	_Hours
Second	l producing formation			Pay zon	e depth (ft)		
Gas:	Initial open flow		MCF/d	Oil: Initial open f			Bbl/d
	Final open flow		MCF/d	Final open flo			Bbl/d
	Time of open flow between	initial	and fina	l tests	Ī	Iours	
Static r	ock pressure			rface pressure)	after	0-	Hours
						100	Tail.
certify under pena	alty of law that I have personally exam	ined and a	m familia	r with the information	submitted on	this doc	ument and all the
attachments and t	that, based on my inquiry of those indi	viduals im	mediately	responsible for obtain	ing the inform	nation I	believe that the
	information	on is true,	accurate, a	nd complete.		001 3	0 2012
	11/ Noel-			3/2/12			EUIJ.
8.	Signature			Date	WV Dan O	flice of ou	
				222	-Mr. C	of Environ	and Gas
							l and Gas mental Protection
							-110/

Were core samples taken?

No

Were cuttings caught during drilling? No

Were $\frac{Y}{Y/N}$ Electrical, $\frac{N}{Y/N}$ Mechanical, $\frac{N}{Y/N}$ or Geophysical logs recorded on this well?

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

<u>Treatment:</u> Treated perfs 2870'-2883', and 2898'-2905' w/ 1250 gals 15% HCL, 379 bbls cross linked gel, and 20,000# 20/40 sand.

Well Log: All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	. 0	-	546
Coal ·	546	-	554
Shale w/ sand streaks	554	-	1084
Sand	1084	-	1120
shale	1120	-	1194
sand	1194	-	1280
shale	1280	-	1304
sand	1304		1323
shale	1323	-	1350
sand	1350	_	1375
shale	1375	-	1506
sand	·1506	-	1552
shale	1552	-	1603
sand	1603	-	1624
shale	1624	-	1758
sand	1758	-	1770
shale	1770	-	1787
sand	1787	-	1803
shale	1803	-	1812
Big Lime	1812	-	1892
Big Injun	1892	-	2144
shale	2144	-	2834
Gordon stray	2834	-	2854
shale	2854	-	2864
Gordon	2864	-	2886
shale	2886	-	2896
sand	2896	-	2908
shale	2908	-	3132
TD	3132		
T.DLogger	3097	KB	
T.DDriller	3132	KB	

WW-3A 10/07

5) Surface Owner(s) To Be Served

(a) Name

Roberta B. Wayne



have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at:

1) Date:		July 11, 2	013		
2) Operator's We	11 No.	McCoy He	irs 17		
3) API Well No.	47	103	•	2812	
	State	County		Permit	
4) UIC Permit N	0.	UIC2R098	501AP		

NA

depprivacyofficer@wv.gov

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

7 (a) Coal Operator

Name

	Address	HC 60, Box 315		Address	
		Pine Grove, WV 26419			
	(b) Name		7 (b)	Coal Owner(s)	With Declaration Of Record
	Address			Name	NA
	-			Address	
	(c) Name				
	Address			Name	
	-			Address	
	-				
6)	Inspector	Derek Haught	7(c)	Coal Lessee Wit	th Declaration Of Record
	Address	PO Box 85			
		Smithville, WV 26178			
	Telephone	304-206-7613		-	
	- 100 m				rm and the following documents:
THE WHIC ARE Take 1 Applic Enviro WW-6	REASON YO CH ARE SUM NOT REQUI notice that und cation and acco onmental Prote 3. Copies of this	ed for the first injection or waste disposal is URECEIVED THESE DOCUMENTS IS THAT YOU MARIZED IN THE "INSTRUCTIONS" ON FORM VERED TO TAKE ANY ACTION AT ALL. er Chapter 22-6 of the West Virginia Code, the undersigned impanying documents for a Well Work Permit with the Chiestion, with respect to a well at the location described on the Notice, the Application, the plat, and the Construction and wered by hand to the person(s) named above (or by publication the Chief.	U HAV WW-3(A d well of ef of the e attach d Reclan	A) DESIGNAT perator proposes Office of Oil and ed Application a mation Plan have	EGARDING THE APPLICATION FED TO YOU. HOWEVER YOU s to file or has filed this Notice and d Gas, West Virginia Department of and depicted on the attached Form e been mailed by registered or nnces) on or before the day of the
		The person signing this document shall make the	followi	ng certificatio	HG Energy, LLC
"I cert	tify under nena	lty of law that I have personally examined and am	Well	Operator	HG Energy, LLC
		ormation submitted in this document and all attachments		ress	5260 Dupont Road
and th	hat, based on m	y inquiry of those individuals immediately responsible			Parkersburg, WV 26101
or ob	taining the info	ormation, I believe that the information is true, accurate	2		Diane C. Whiteor Street
		ware that there are significant penalties for submitting	By:		Diane C. Whiteof Style
false i	information, in	cluding the possibility of fine and imprisonment."	Its:		Accountant Accountant To is me Cl. Voite
					Proton.
			Cian	ature	Diane CWhite
Oilan	nd Gas Privacy	Natice	ngie	ature	Limite Curine
Your	personal inforn	Gas processes your personal information, such as name, ad nation may be disclosed to other State agencies or third part ements, including Freedom of Information Act requests. Our	ties in t	he course of bus	siness or as needed to comply with statutory

Form WW-9 Rev. 10/94

	Page_	.3	of ·	3
AI	PI Number 47-	103	-	2812
Operator's Well No.	McCo	y Heir	s 17	_

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

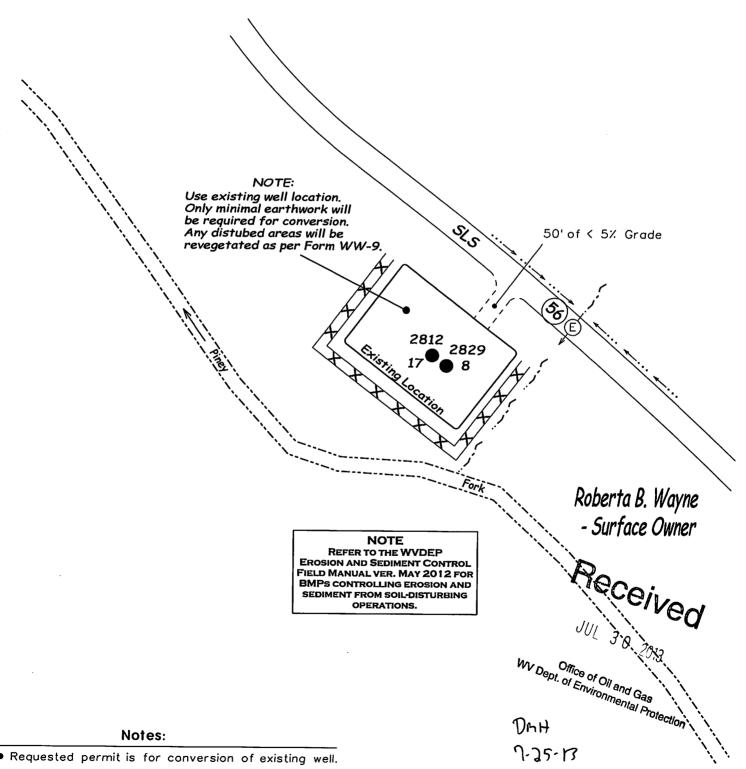
Operator	HG Energ	y, LLC			C	OP Code	494497948	
Watershed	Piney For		·	Qu	adrangle	Pine (Grove 7.5'	_
Elevation	810'	County	Wetzel		District		reen	
Description of	f anticipated Pit Waste:	– Fluids encoun	tered in convertin	g existing we	- 11			
Do you antici	pate more than 5,000 bbls	of water to comp	lete the proposed we	ll work Yes		No	Х	_
Will a synthe	tic liner be used in pit?	Yes	If so, what mil.?	20 Mil.				
Proposed Disp	Reuse (at A	cation nd Injection (UIC PI Number	Permit Number	ıl location)				<u>)</u>
_	um anticipated for this we - If oilbased, what type? S	ll? Air, fresh wat	_	NA				<u> </u>
Additives to b		·						_ ~ ~
	disposal method? Leave if If left in pit and plan to a Landfill or offsite name/	solidify, what med	· -	Leave in personal Leave in the Leave in th		Native soil	l, cement, lime	
this application for obtaining t	I certify under penalty of long form and all attachmen the information, I believe submitting false information.	ts thereto and tha that the informat	at, based on my inqu ion is true, accurate	iry of those inc and complete.	dividuals i I am awar	mmediately	responsible	
Company Of	fficial Signature	<u> </u>	Diane Ch	2hite				
Company Of	fficial (Typed Name)		Diane C. White				D	
Company Of	fficial Title		Accountant				Rece	TVRN
Subscribed a	and sworn before me thi	s 11	day of July	201	3	Wy Notary Pol	30	2010
My commiss	ion expires	1/0,	12,00	18			Office of Oll and G	es Protection
Form WW-9					WEST A		OFFICIAL SEA NOTARY PUBLI TE OF WEST VIF	-

Legend

		-, [
Property Boundary	AAA	Diversion	
Road	=======================================	Spring	<u></u> →
Existing Fence		Wet Spot	24 5
_	— x	Drain Pipe	
Planned Fence		Waterway	
Stream	7	Cross Drain	
Open Ditch		Filter Strip	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Rock	૾૾ૺઌ૽ૺ	Filter Suip	ATTITUTE OF THE PARTY OF THE PA
		Pit: Cut Walls	Circula
North	N	Dit Compated	y de la constant de l
Buildings		Pit: Compacted Fill Walls	-
Water Wells	(W)	Area of Land	
m 111 min	Ď	Application	
Drill Site		of Pit Waste	
	•		
	Are	aĬ	
sed Revegetation Treatm			evegetation pH
	Area	a II	
	Approx.	0.5 Ac.	
	Approx.	0.5 Ac.	
Lime	Approx. 2 Tons/Acre or Co	0.5 Ac.	
Fertiliz	Approx. 2 Tons/Acre or Control of Equivalent	0.5 Ac. correct to pH 6.5 10 Lbs./Acre (500 l	lbs. Minimum)
	Approx. 2 Tons/Acre or Co	0.5 Ac. correct to pH 6.5 CO Lbs./Acre (500 1	lbs. Minimum)
Fertiliz	2 Tons/Acre or Constraint 50 Straw 2 Tons/Acre or Constraint 50	0.5 Ac. correct to pH 6.5 CO Lbs./Acre (500 lcre *	bs. Minimum)
Fertiliz	Approx. 2 Tons/Acre or Control (10-20-20 or Equivalent) 50	0.5 Ac. correct to pH 6.5 CO Lbs./Acre (500 lcre *	lbs. Minimum)
Fertiliz Mulch	Approx. 2 Tons/Acre or Control of Control o	0.5 Ac. correct to pH 6.5 CO Lbs./Acre (500 lcre *	Area II (Road)
Fertiliz Mulch	2 Tons/Acre or Constraint 50 Straw 2 Tons/Acre or Constraint 50	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type	Area II (Road) Lbs/Ac.
Fertiliz Mulch Area Seed Type Tall Fescue	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type	Approx. 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre SEED MI I (Location) Lbs/Ac.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type	Area II (Road) Lbs/Ac.
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover :: ing(s) of road, location, p	Approx. 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 SEED MI I (Location) Lbs/Ac. 40 5	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, p	Approx.	0.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, propied section of involve	Approx. 2 Tons/Acre or Content of the content of t	0.5 Ac. orrect to pH 6.5 to Lbs./Acre (500 learners) * XTURES Seed Type Tall Pescue Ladino Clover	Area II (Road) Lbs/Ac. 40 5
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, p copied section of involve Plan approved by:	Approx. 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 SEED MI I (Location) Lbs/Ac. 40 5 Sit and proposed area for land application of 7.5' topographic sheet.	O.5 Ac. correct to pH 6.5 Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, p copied section of involve Plan approved by:	Approx. 2 Tons/Acre or Content of the content of t	O.5 Ac. correct to pH 6.5 Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40 5
Fertiliz Mulch Area Seed Type Tall Fescue Ladino Clover in: ing(s) of road, location, propied section of involved the sec	Approx. 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 SEED MI I (Location) Lbs/Ac. 40 5 Sit and proposed area for land application of 7.5' topographic sheet.	O.5 Ac. correct to pH 6.5 Lbs./Acre (500 lcre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40 5
Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, p copied section of involve Plan approved by: Comments:	Approx. 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 Straw 2 Tons/Acre or Content (10-20-20 or Equivalent) 50 SEED MI I (Location) Lbs/Ac. 40 5 dit and proposed area for land application of 7.5' topographic sheet.	O.5 Ac. correct to pH 6.5 Lbs./Acre (500 Incre * XTURES Seed Type Tall Fescue Ladino Clover	Area II (Road) Lbs/Ac. 40 5
Area Seed Type Tall Fescue Ladino Clover h: ing(s) of road, location, p copied section of involve Plan approved by: Comments:	Approx. 2 Tons/Acre or Content of the content of t	O.5 Ac. correct to pH 6.5 Co Lbs./Acre (500 lcre * XTURES Seed Type Tall Pescue Ladino Clover	Area II (Road) Lbs/Ac. 40 5

Reclamation Plan For:

McCoy Heirs No. 17 47-103-2812



- Requested permit is for conversion of existing well.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.
- No pit will be constructed for requested well work.

Note: Drawing not to Scale

