

#### 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

January 08, 2014

#### WELL WORK PERMIT

#### Rework-Secondary Recovery

This permit, API Well Number: 47-9501512, 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: C. C. PENNICK M-14 Farm Name: McCOY, DONALD L.

API Well Number: 47-9501512

Permit Type: Rework-Secondary Recovery

Date Issued: 01/08/2014

### 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	August 12, 2013						
2) Operator's Wel	l No.	(	C. C. Penni	ck M	-14		
3) API Well No.	47	_	095		1512		
	State		County		Permit		
4) UIC Permit No		τ	JIC2R0950	1AP			

# 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 TYP	E:	Liqui	d Injection	1 X	_	Gas Injecti	on (not stor	age)	Waste D	isposal	
6) LOCATION	:	Elevation	1030	) <sup>†</sup>		W	atershed	Lefth	and Fork		
	Distric	et	McElroy	05	Co		er as		Quadrangle	Cer	nterpoint 7.5" 236
7) WELL OPE	RATOR:	HG Ener	gv. LLC		494497	7948 8) I	ESIGNAT	ED AGENT	r. Mil	e Kirso	
		T (05 T) 18 CS 14	pont Road	l		,-		DD 110D111		A	nt Road
		Parkersh	ourg, WV	26101						-	rg, WV 26101
9) OIL & GAS	INSPECT	OR TO BE	NOTIFI	ED:		10)	DRILLING	CONTRA	CTOR:		
	Nam	e Joe Tayl	or				to synthetic or other	Nam			
	Addres	s 1478 Cla	V 30 0000000	d				Addres	s		
		Ripley, V	VV 25271								
11) PROPOSED	WELL W	ORK:	Dril	1		Drill Deep	er	Redri	ll Sti	mulate	X
					Old Forma cal Chang	ation e in Well (specif		e New Forr	nation		Convert
12) Geological ta	arget form	ation		Gordo	on	Dej	oth	2,994	Ft. (Top) to		3,054 Ft. (Botton
13) Estimated d	epth of co	mpleted we	ell (or acti	ial dep	th of exis	ting well)		3136'	Ft.		117 12 12 12
14) Approximate	e water st	rata depths	s:	Fresh	1	170	Ft.		Salt	2,30	00 Ft.
15) Approximate	e coal sear	n depths:			843		Ft.		-		
16) Is coal being	mined in	the area?			7	l'es	_ x	No			
17) Virgin reserv	voir press	ure in targe	et formati	on:			1,400	psig.	Source		Estimated
18) Estimated re	eservoir fr	acture pres	ssure:				3,500	psig.	4 1 4 1 1		
19) MAXIMUM	PROPOSI	ED INJEC	TION OPI	ERATIO	ONS:	Volume per ho	ır 25 bb	1	Bottom Hole Pr	essure	2,332 psi
20) DETAILED	IDENTIF	ICATION (	OF MATE	RIALS	TO BE I	NJECTED, INC	LIDING	DDITIVES			
and other ch	emicals as	s needed to	maintain	water	quality a	nd improve oil r	ecovery.	DDITIVES	rresn water	, proau	ced water, bactericio
21) FILTERS (II			VA. 7 1. 1.	28.6		oal bed filters					
		P CATHOL	OF STATE OF STREET		V-T-V-	OTHER CORRO	CIONI COM	TROI			
52) BIECIFICA	IION FOI	N CATHOL	JIC PROI	ECITO	IN AND	JIHER CORRO	SION CON	TROL			
23) CASING AN	D TUBIN	G PROGR	AM								
30) CHOHOTHY	I TOBIN	d I itodit	TIVI								
CASING OR			FICATION	NS		FOOTAGE	NTERVAL	S	CEMENT FIL	7	PACKERS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left	in Well	OR SACKS (CI	J. FT.)	
Conductor	2000		- 220								Kinds
Fresh Water Coal	8 5/8"	LS & ST&C	20#	Х		308'	30	18'	Existing Casing	3	Tension
ntermediate							-	-	C(V)	34	Sizes
Production	4 1/2"	J-55	10.5#	X		3082'	20	182'	Existing Casing		2.375"x4.5"
Cubing	2 3/8"	J-55	4.6#	X		2925'	-	25'	Existing Casing	- C	Depths Set 2825'
iners	20.0	0.00	2.011	- 11		2020	20	20	01,	7775	Perforations
									100	> 0	Top Bottom
										UST I	20 DOVIOLIT
							1		182%	181	
		1		_						1553	
4) APPLICANT	SOPERA	TING RIG	HTS were	acquir	red from	MI	I. & C.C. Pe	ennick	2000		

# State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: McCOY, DONALD L. Operator Well No.: C. C. PENNICK M-14 LOCATION: Elevation: 1030' Quadrangle: CENTER POINT District: MCELROY County: TYLER 9,200 Feet South of 39 Deg. 30Min. 0 Sec. Latitude: 2,550 Feet West of 80 Deg. 40 Min. 0 Sec. Longitude Company: PENNZOIL PRODUCTS COMPANY P. O. BOX 5519 Casing | Used in Left Cement VIENNA, WV 26105-5519 ||Fill Up Tubing | Drilling | in Well|Cu. Ft. Agent: JAMES A. CREWS Size Inspector: MIKE UNDERWOOD Permit Issued: 11/02/92 Well work Commenced: 12/20/92 Well work Completed: 05/01/93 8-5/8" Verbal Plugging 307.55' 307.55' 140 sks Permission granted on: Rotary X Cable Total Depth (feet) 3136' 4-1/2" 3082.45' 3082.45 300 sks. Fresh water depths (ft) N/A Salt water depths (ft) Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA (Water Injection Well) Producing formation Gordon Pay zone depth (ft) 2994-3054 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure \_\_\_\_psig (surface pressure) after \_\_ Hours Second producing formation Pay zone depth (ft) Gas: Initial open flow MCF/d Oil: Initial open flow Bb1/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure \_\_\_\_psig (surface pressure) after Hours NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE INCLUDING COAL ENCOUNTERED BY THE WELLBORE For: PENNZOLL PRODUCTS COMPANY Timothy P. Roush, Supervisor - Surveying/Mapping Date: September 14, 1993

#### Treatment

Perforated: Gordon w/4 holes 3024' - 3026' w/20 holes 3029' - 3039'
Treated: w/300 gal. 15% HCL acid, 278 bbls. gelled water, 1500# 80/100 sand

and 3500# 20/40 sand

#### Well Log (Measured depths)

(Well was directionally drilled)

Shale	0	_	350
Sand and Shale	350	_	596
Shale			695
Limestone			735
Shale ·			865
Sand and Shale			1120
Sand	1120		
Sand and Shale	1160		
Shale	1290		
Sand	1475		
Shale ·	1596		
Sand	1675		
Shale	1834		•
Sand and Shale	1922		
Shale	2035		
Little Lime	2130		
Shale	2144		
Big Lime	2172		
Big Injun	2225		
Shale	2414		
Gordon	2994		
T.D.	3136		

WW-3A 10/07



1) Date:		August 12	, 2013		
2) Operator's We	ell No.	C. C. Penr	4		
3) API Well No.	47	095		1512	
	State	County		Permit	
4) UIC Permit N	o.	UIC2R095	501AP		

### 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) Surface Owne	r(s) To Be Served	7 (a) Coal Operato	or
(a) Name	WV Public Lands Corporati	Name	NA
Address	1900 Kanawha Blvd. East 2530	Address	
- Tudi Coo	Charleston, WV 2530		
(b) Name	Donald McCoy	7 (b) Coal Owner	(s) With Declaration Of Record
Address	HC 62, Box 80-B	Name	NA
Address	Alvy, WV 26377	Address	11/1
(c) Name	James & Betty McCoy	Address	
(c) Name_ Address	HC 62, Box 80-C	Nome	
Address	Alvy, WV 26377	Name	
+	Alvy, W V 20311	Address	
6) Inspector	Joe Taylor	7(c) Coal Lessee V	With Declaration Of Record
Address	1478 Claylick Road	. (1)	NA
- Tutar coo	Ripley, WV 25271	-	2144
Telephone	304-380-7469	-	
The Said La			
			orm and the following documents:
(1) The Applica	ation for a Liquid Injection or Waste Disposal W	ell Work Permit	on Form WW-3(B), which
sets out the	parties involved in the drilling or other work;		
(2) The plat (st	urveyor's map) showing the well location on Form	m WW-6; and	
(3) The Constr	uction and Reclamation Plan on Form WW-9 (un	nless the well wo	rk is only to plug a well),
which sets	out the plan for erosion and sediment control an	d for reclamation	n for the site and access road.
the second of th	sed for the first injection or waste disposal is		
The professional and the second of the secon	OU RECEIVED THESE DOCUMENTS IS THAT YOU		로그램은 경기의 전문 보험하게 되었다. 그는 경기에 있는 이 이 이 시간에 살아 있다면 사용을 통해 있다.
	MMARIZED IN THE "INSTRUCTIONS" ON FORM V	WW-3(A) DESIGNA	ATED TO YOU. HOWEVER YOU
ARE NOT REQU	IRED TO TAKE ANY ACTION AT ALL.		
Take notice that un	der Chapter 22-6 of the West Virginia Code, the undersigned	d well operator propo	ses to file or has filed this Notice and
Application and acc	ompanying documents for a Well Work Permit with the Chie	of of the Office of Oil	and Gas, West Virginia Department of
<b>Environmental Prot</b>	ection, with respect to a well at the location described on the	e attached Applicatio	n and depicted on the attached Form
WW-6. Copies of thi	s Notice, the Application, the plat, and the Construction and	l Reclamation Plan h	ave been mailed by registered or
certified mail or del	ivered by hand to the person(s) named above (or by publicati	ion in certain circums	stances) on or before the day of the
mailing or delivery	to the Chief.		
		*****	
	The person signing this document shall make the	following certificat	
w		WILL	HG Energy, LLC
	alty of law that I have personally examined and am	Well Operator	
	formation submitted in this document and all attachments	Address	5260 Dupont Road
	ny inquiry of those individuals immediately responsible		Parkersburg, WV 26101
	Formation, I believe that the information is true, accurate aware that there are significant penalties for submitting	By:	Diane C. White
	actuding the possibility of fine and imprisonment."	Its:	Accountant
mice information, if	comming one possibility of this and imprisonment.	100.	- Idoutitalit
			and Danilley
		Signature	Diane C White

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 please contact DEP's Chief Privacy Officer at:

depprivacyofficer@wv.gov

WW-2B1

Well No.	C. C. Pennick M-14

### West Virginia Department of Environmental Protection Office of Oil and Gas

#### NOTICE TO SURFACE OWNERS

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

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

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

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Nam	e Sturm Environmental Services
Well operator's	private laboratory
Well Operator	HG Energy, LLC
Address	5260 Dupont Road
	Parkersburg, WV 26101
Telephone	304-420-1119

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

No known Water Supply Sources are located within 2000' of proposed well.

Office of Charles of the Charles of

Form	WW-9
Rev.	10/94

7	43	13	0.0		Page.	. 3 .	of		: .3	11 .
			API	Nun	aber 47-	095	-		1512	
Ope:	rator's	Well	No.		C. C. I	Pennick	M-14	-		

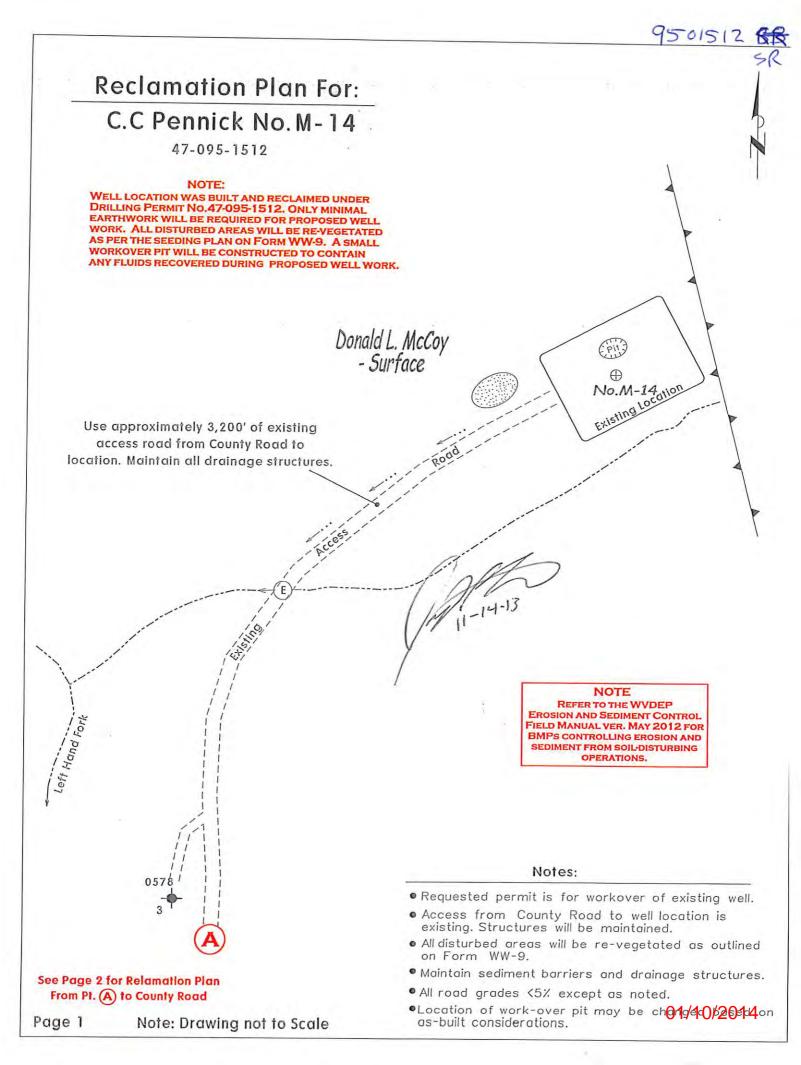
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

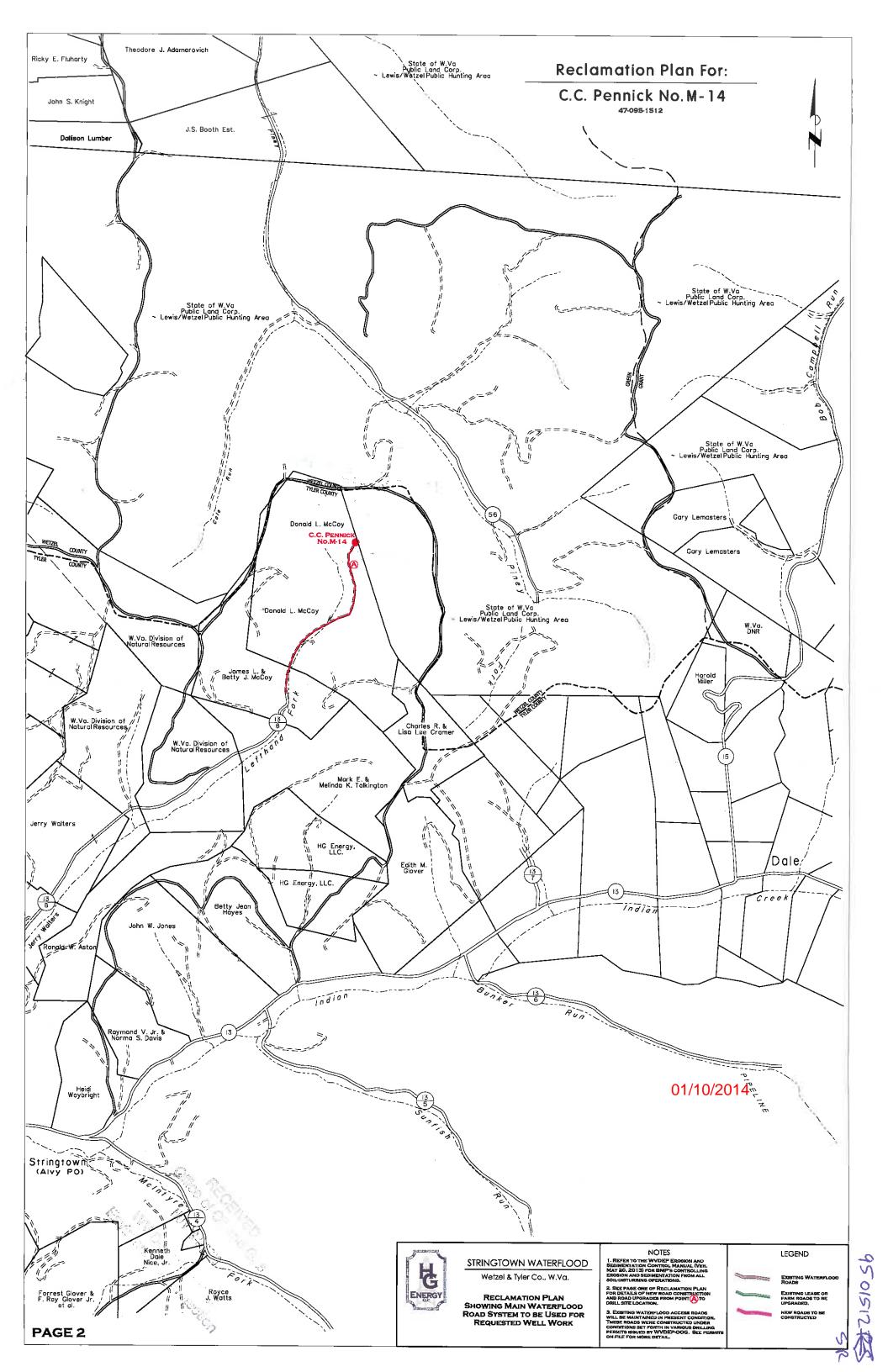
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

		y, LLC			0.1	Code	40	4497948	
Watershed	Lefthand	Fork		Quadra	angle	Cent	erpoint	7.5"	
Elevation	1030'	County	Tyler	Di	strict	Ĭ,	McElroy		
Description of a	nticipated Pit Waste:	Fluids encou	untered in drilling and	stimulating e	isting	well.			
Do you anticipa	te more than 5,000 bbls	of water to com	plete the proposed well w	vork Yes		No	Х		
Vill a synthetic	liner be used in pit?	Yes	If so, what mil.?	10 Mil. 20	MIL	-			
Proposed Dispos —		cation nd Injection (UIC	Permit Number					-	)
-	Reuse (at A								)
_	Off Site Dis	posal (Supply Fo (Explain	orm WW-9 for disposal lo	cation)					)
rilling medium	anticipated for this we	ll? Air, fresh wa	iter, oil based, etc.	NA					
	foilbased, what type? S	ynthetic, petrole	num, etc.						
dditives to be u	-							w) ,,	
	sposal method? Leave i		The state of the s	Leave in pit					
	left in pit and plan to s andfill or offsite name/p		dium will be used? Cem	ent, lime, sawdı	st Na	tive so	il, ceme	ent, lime	
sued on August ant the provision	t 1, 2005, by the Office on the permit are enf	of Oil and Gas of orceable by law.	e terms and conditions of the West Virginia Depar Violations of any term o	rtment of Envir	nmenta	l Prote	ction. I r	ınderstan	d
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### Legend

		7 [	
Property Boundary		Diversion	
Road		Spring	<del></del>
Existing Fence	xxx	Wet Spot	0
Planned Fence	//_	Drain Pipe	(12) ->
Stream		Waterway	(-> (-> (-> (-> (-> (-> (-> (-> (-> (->
Open Ditch	>	Cross Drain	
Rock	2000 S	Filter Strip	XXXXXXXXXX
****		Pit: Cut Walls	Curris .
. · North	N-		, miller
Buildings		Pit: Compacted Fill Walls	7
Water Wells	w w	Area of Land	
Drill Site	<u> </u>	Application of Pit Waste	(1277-12-17)
Dimpho	<u> </u>	Of the waste	
		rea I . 1.0 Ac. Pr	evegetation pH
Proposed Revegetation Treats	ment: Acres Disturbed Approx		
		rea II . 0.3 Ac.	
	Approx	. 0.5 Ao.	
Lime	2 Tons/Acre or	Correct to pH 6.5	
Line		500 Lbs./Acre (500	lbs. Minimum)
Mulci	0 m/	Acre	
1,1410		IIXTURES	•
	SEED.II.	INTOILES	
Are	ea I (Location)		Area II (Road) Lbs/Ac.
Seed Type	Lbs/Ac.	- Seed Type	40
Tall Fescue	40	Tall Fescue Ladino Clove	
Ladino Clover	5	Ladino Ciovo	
Attach:			
Drowing(s) of road, location	n, pit and proposed area for land applica	tion	
Photocopied section of invo	lved 7.5' topographic sheet.		
	12000		·
Plan approved by:	last the		
Comments:			
/			
Title:	Inspecto		Date:
Field Reviewed?		(	) No
0 1111111111111111111111111111111111111	210(1°70)	-	•
EST VIRORIA PETHTEL			
to all the co			01/10/2014
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39° 30' 00" LATITUDE 40' ONGITUDE **PLAT NOTES** The drawing shown hereon is from the original drilling permit plat dated 10-13-92. This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude. Latitude & Longitude shown was measured by DGPS -Sub-Meter Mapping Grade (NAD 1927) **UTM Coordinates** NAD 1983 (m.) N - 4,369,535 m. E - 527,903 m. S 14° 19' E 2678.4 N 39° 40' W 408.4 LOCATION REFERENCES Existing Well - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. FILE NO .\_ I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE MAP NO.\_ SCALE 1" = 1000 INFORMATION REQUIRED BY LAW AND THE REGU-MINIMUM DEGREE OF ACCURACY Sub-Meter LATIONS ISSUED AND PRESCRIBED BY THE DEPART MENT OF MINES. PROVEN SOURCE OF ELEVATION \_ DGPS Survey (SIGNED) (Sub-Meter Mapping Grade) TIMOTHY P. ROUSH PS 793 DATE August 5, 2013 WEST VIRGINIA C.C. Pennick No.M-14 FARM\_ Division of Environmental Protection API WELL NO. Office of Oil and Gas 601 57th Street Charleston, West Virginia 25304 WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION X WASTE DISPOSAL \_\_\_ (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_ LOCATION: ELEVATION \_\_\_ 1030' WATERSHED \_\_\_ Lefthand Fork DISTRICT McElroy \_ COUNTY \_\_\_ Tyler QUADRANGLE \_\_ Centerpoint 7.5' SURFACE OWNER \_\_\_\_\_ Donald L. McCoy ACREAGE P/O 71 Ac. OIL & GAS ROYALTY OWNER HG Energy LLC et al LEASE ACREAGE 228 Ac. 01/10/2014 67696-00 LEASE NO. \_ CONVERT\_ \_ DRILL DEEPER \_\_\_ REDRILL \_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) . PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG\_ TARGET FORMATION \_ Gordon \_\_ ESTIMATED DEPTH\_ WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch 5260 Dupont Road 5260 Dupont Road ADDRESS Parkersburg, WV 26101 Parkersburg, WV 26101