

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

October 28, 2014

WELL WORK PERMIT

Secondary Recovery Well

This permit, API Well Number: 47-3305847, 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: AMOS CARTER 8

Farm Name: CUMBERLEDGE, ARZANA

API Well Number: 47-3305847

Permit Type: Secondary Recovery Well

Date Issued: 10/28/2014

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 with 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.
- 8. 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.

FORM WW-3 (D)			_ water		IV Date:		o las	lacut
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1/12			12	1	E.	2) Operator's		Amos C	arter 8
			16.3			3) API Well N	1		* s
77.4			1.7		19	Transaction of		ate C	ounty Permit
3/1 10/28/	11-		1,	-	and a second	4) UIC Permit	No. L	JIC2R03301AI	p
FOR THE 5) WELL TYPE 6) LOCATION: 7) WELL OPER	Elevation District ATOR:	id Injection: 13 It: Ten HG Energy 5260 Dupo	ion visits on the second secon	OR WANVIRO	ASTE DIS NMENTA Gas Inje	AL PROTECT	LL WORI FION, OF ge) Ten Mile Cre on	PFICE OF (Vec Vec	Supont Road
9) OIL & GAS I		Parkersbur				IO DRUIT			sburg, WV 26101
	Ward	IN TOB	ENOTIF	IED		10) DRILLIN			
	Box 2327				-	Name To	be Determ	ined Upon Ap	proval of Permit
All the second s	hannon, W	/ 26201				Address	-		
11) PROPOSED			- N. N.			-			
 14) Approximate 15) Approximate 16) Is coal being 	coal seam	depths:	Yes		No No	_ Feet	Salt	1405	_ Feet
Virgin reserv	oir pressu	re in targ	et formati	ion 12	50 psi	g Source	Estimate	d	
Estimated res				25	1 350			26	psig (BHFP)
19) MAXIMUM	PROPOS	ED INJE	CTION C	PERAT	IONS:	Volume per hou	r 25 BBL	Bottom I	nole pressure 2400 psi
20) DETAILED	IDENTIFI	CATION	OF MA	TERIAL	STOBE	NJECTED, INC	CLUDING	ADDITIVE	S Fresh water, produced
water, bactericie	des and oth	er chemic	als as need	ded to ma	intain water	quality and impro	ve oil recove	ery	
21) FILTERS (IF									
22) SPECIFICAT	HONS FO	RCATH	ODIC PI	ROTECT	ION AND	OTHER COR	ROSION (CONTROL	
23) CASING AND	THOMAS	DDOGDA							
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	Size	Grade	Weight per ft.	New	Used	For Drilling	Left In Well	FILL-UP	
			P				WEII	OR SACKS (CU. FT.)	
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Coal					W. T.				Sizes
ntermediate	1								2.375" x 4.5"
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iners		7 127	D = 1						Perforations
			-					3-	Ton Pottom

24) APPLICANT'S OPERATING RIGHTS were acquired from

Harrison

/ lease _X / other contract

County Clerk's office in

DCT 2 8 20

Office of Oil and San

Amos M Carter

Lease

dated 09/23/1916

of record in the

Page 492

FORM WW-3 (A) 1/12



1) Date:	Septemb	er 24.	2014		
2) Operator's Well	No.	Amo	s Carter 8		
3) API Well No.:	47	-	033	-	
To the street of	State	7	County		Permit
4) UIC Permit No.	UIC2	R0330	1AP		

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

Surface Ow	ner(S) To Be Served 7) (a	a) Coal Oper	ator				
(a) Name	The desired of the second of t	lame					
Address		Address					
41.51	Salem, WV 26426	7) (b) Coal Owner(S) With Declaration Of Record					
(b) Name		lame	ci(s) with Di	eciatation Of	Record		
Address		ddress					
		durcas	-				
(c) Name		lame					
Address		ddress					
- definitions							
) Inspector	7) (c) Coal Less	ee with Decla	ration Of Re	cord		
Address		lame	Murray Coal				
	A	ddress	46226 Nation	nal Road e, OH 43950			
Telephone			St. Clairsville				
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10/31/2014

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Office of Oil and Gas

OCT 02 2014

Environmental #0/31/2014

WW-2B	1
(5-12)	

Well N	10.	Amos	Carter	8

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.

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

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labora Sampling Contra	•	Sturm Environmental Laboratory Sturm Environmental Laboratory
Campling Contractor		
Well Operator Address HG Energy, 5260 Dupont Parkersburg,		LLC
		Road
		WV 26101
Telephone	304-420-111	9
•		

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 underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

* No water sources identified within 2'000 feet of PECEIVED Office of Oil and Gas

OCT 02 2014

WV Department of Environmental Protection 10/31/2014

WW-9 Rev. 5/10

	Page	of	
API Number 47 -	033		
Operator's Well N	o. Amos o	Carter 8	

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

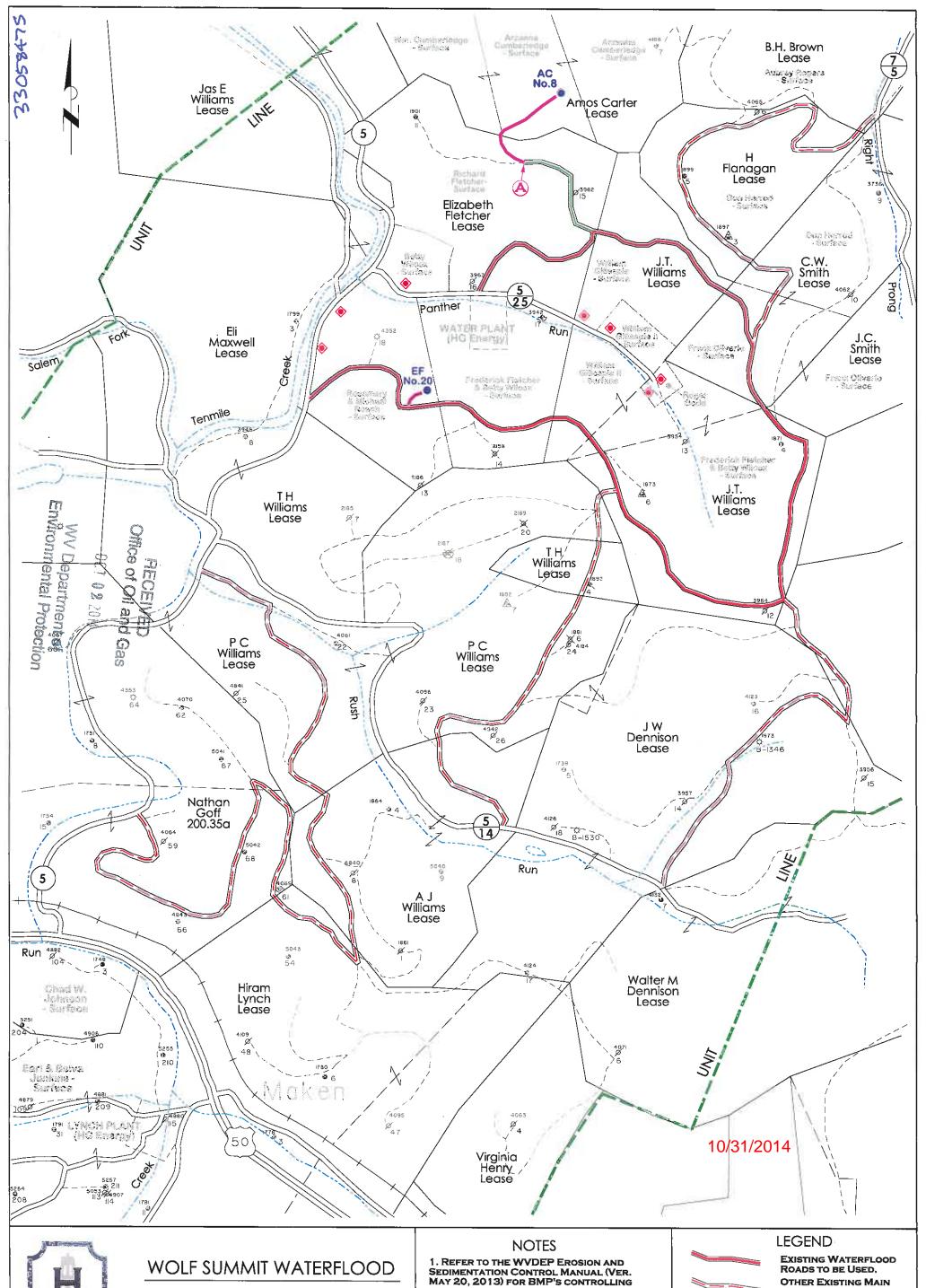
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name HG Energy, LLC		OP Code _494497948	
	Quadrangle	e Wolf Summit 7.5'	
Elevation County		District_Ten Mile	
Description of anticipated Pit Waste: Fluids encoun	tered while drilling subje	ct well	40
Do you anticipate using more than 5,000 bbls of water			X
Will a synthetic liner be used in the pit?Yes	If so, what mil	.?20	
Proposed Disposal Method For Treated Pit Wastes: X Land Application Underground Injection (U	IIC Permit Number		5 Da
Off Site Disposal (Supply Other (Explain	form WW-9 for disposa	al location)	
Orilling medium anticipated for this well? Air, fresh -If oil based, what type? Synthetic, petroleu Additives to be used? Air, Fresh Water	m, etc.	ir, Fresh Water	
Will closed loop system be used ?No Drill cuttings disposal method? Leave in pit, landfill -If left in pit and plan to solidify what medit -Landfill or offsite name/permit number?	im will be used? Cemer	nt, lime, sawdust_ watte son, come	nt, lime
I certify that I understand and agree to the ton August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Vilaw or regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and obtaining the information, I believe that the information penalties for submitting false information, including	personally examined a that, based on my inq nation is true, accurate the possibility of fine or	nent of Environmental Protection. condition of the general permit and am familiar with the information uiry of those individuals immedia , and complete. I am aware that	d/or other applicab on submitted on the
Company Official Signature Diane L	2hite		
Company Official (Typed Name) Diane White			
Company Official Title Agent			
Subscribed and sworn before me this 24th	_day ofSeptember		CEIVED of Oil and Ga
My commission expires Nov.	12.2018	Notary Public OFF	FICIAL SEAL, ARY PUBLIC F WEST VIRGINIA L. PETHTEL Energy: ULC 10 11 O Dupont Road

10/31/2014

Operator's Well No. Amos Carter 8

	LEGEND	
Property Boundary	Diversion (1-1/11/11/11/11/11/11/11/11/11/11/11/11/	THE
Road = = = = = = = = = = = = = = = = = = =	Spring →	
Existing Fence — X — X — X	Wet Spot	
Planned Fence / / /	Drain Pipe with size in inches	
Stream	Waterway C	$\rightarrow \leftarrow \leftarrow$
Open Ditch		
Rock ESESS	Artificial Filter Strip XXXX	XXXXXXXXXXXXXXX
North N	Pit: cut walls	ALLEY.
Buildings	Pit: compacted fill walls	France
Water wells	Area for Land Application of Pi	it Waste
Drill site	<u> </u>	
roposed Revegetation Treatment: Acres Disturb	2.0 acres Prevegetation pH	1
	CE	
Lime Tons/acre or to	500	
Fertilizer (10-20-20 or equivalent)	lbs/acre (500 lbs minimum)	
Mulch Straw	2 Tons/acre	
wuici	-	
	Seed Mixtures	
Area I		ea II
Seed Type lbs/acre	Seed Type	lbs/acre
Tall Fescue 40	Tall Fescue	40
Ladino Clover 5	Ladino Clover	5
Zudilio Civici		
Attach: Drawing(s) of road, location,pit and proposed ar	ea for land application.	
Photocopied section of involved 7.5' topographic	sheet.	
Plan Approved by: 500	hera Fell	
Pian Approved by:		Den II mi
Comments: Pre-Seed Mulchall	disturbed a reas as soon as	I CASOMAD IN PASS
recreatlation 1/parade	Eds as necessary par Eds +	Kagarta France
		Office of Oil and Gas
Title: Oil + Gas Inspector	Date: 10/1/2014	0.57 0.0 000
		UC1 02 2014
Field Reviewed? (Hagison) Yes	() No	WV Department of
	-	nvironmental Protect
	E	Mildimental Fielest





Harrison County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2014 **DRILLING PROGRAM**

Amos Carter No.8

- May 20, 2013) for BMP's controlling **EROSION AND SEDIMENTATION FROM ALL** SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT A TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG FROM 2003 - 2009 (As Shown). SEE PERMITS ON FILE FOR MORE DETAIL.

WATERFLOOD ROADS (POSSIBLE ACCESS). EXISTING LEASE OR **FARM ROADS TO BE**

UPGRADED. NEW ROADS TO BE

CONSTRUCTED.

LOCATION FOR PROPOSED WELLS

AC No.8

POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED

TEMBER 22, 2014

PAGE 2

Reclamation Plan For:

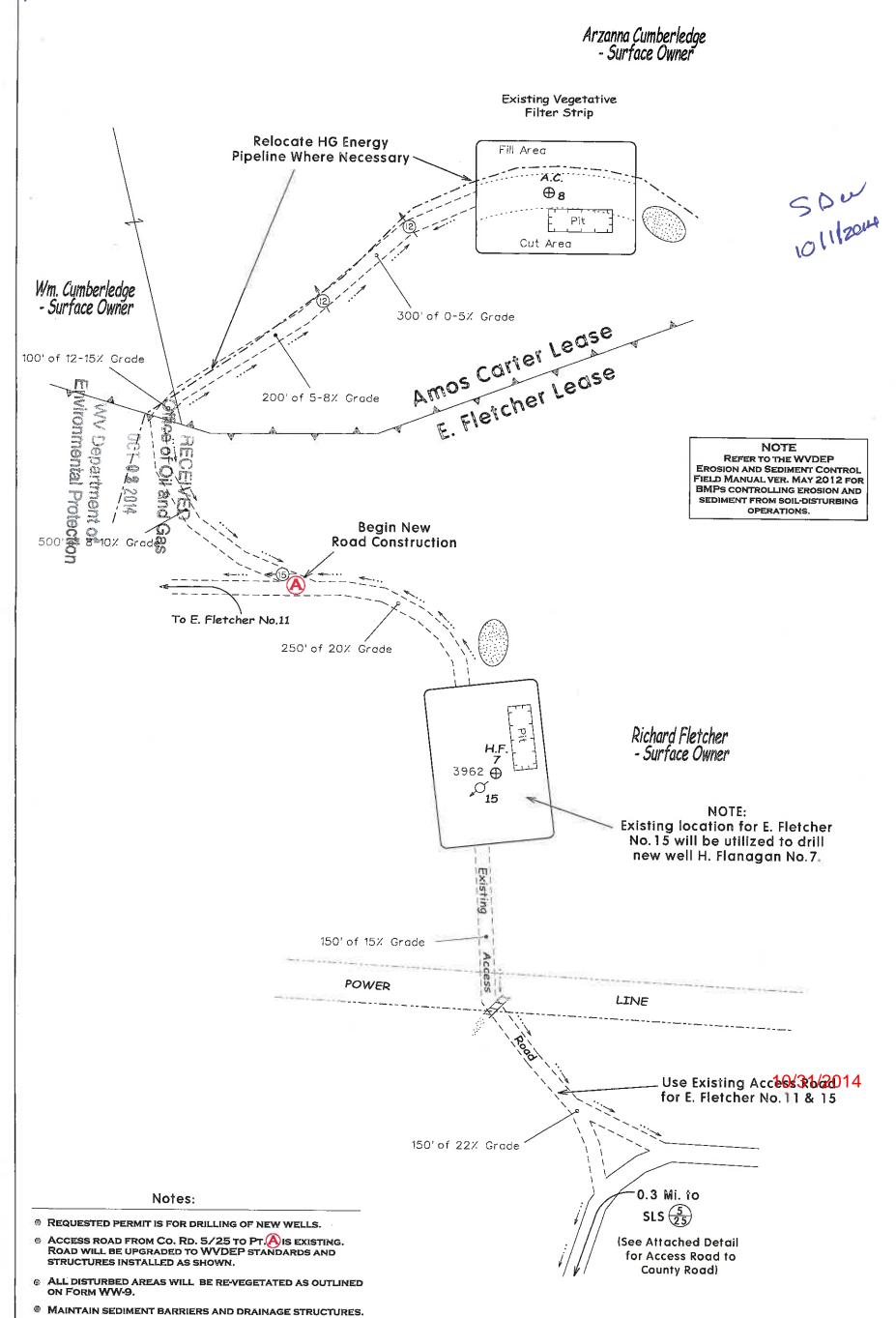
● ALL ROAD GRADES <5% EXCEPT AS NOTED.

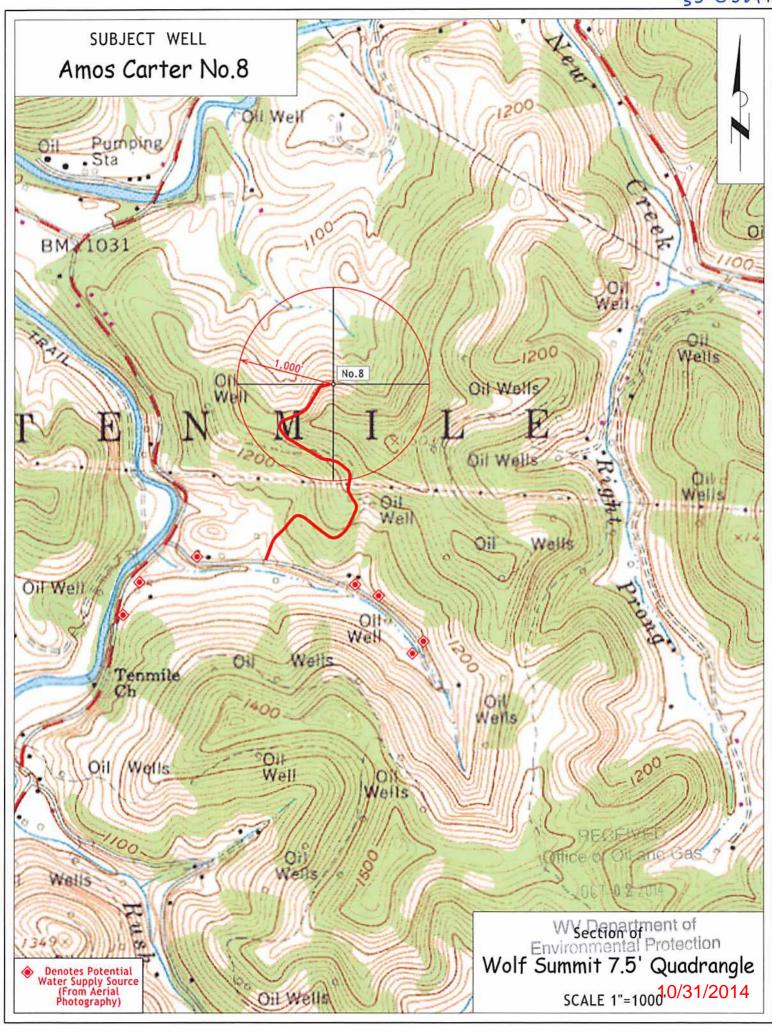
AS-BUILT CONSIDERATIONS. DRAWING NOT TO SCALE.

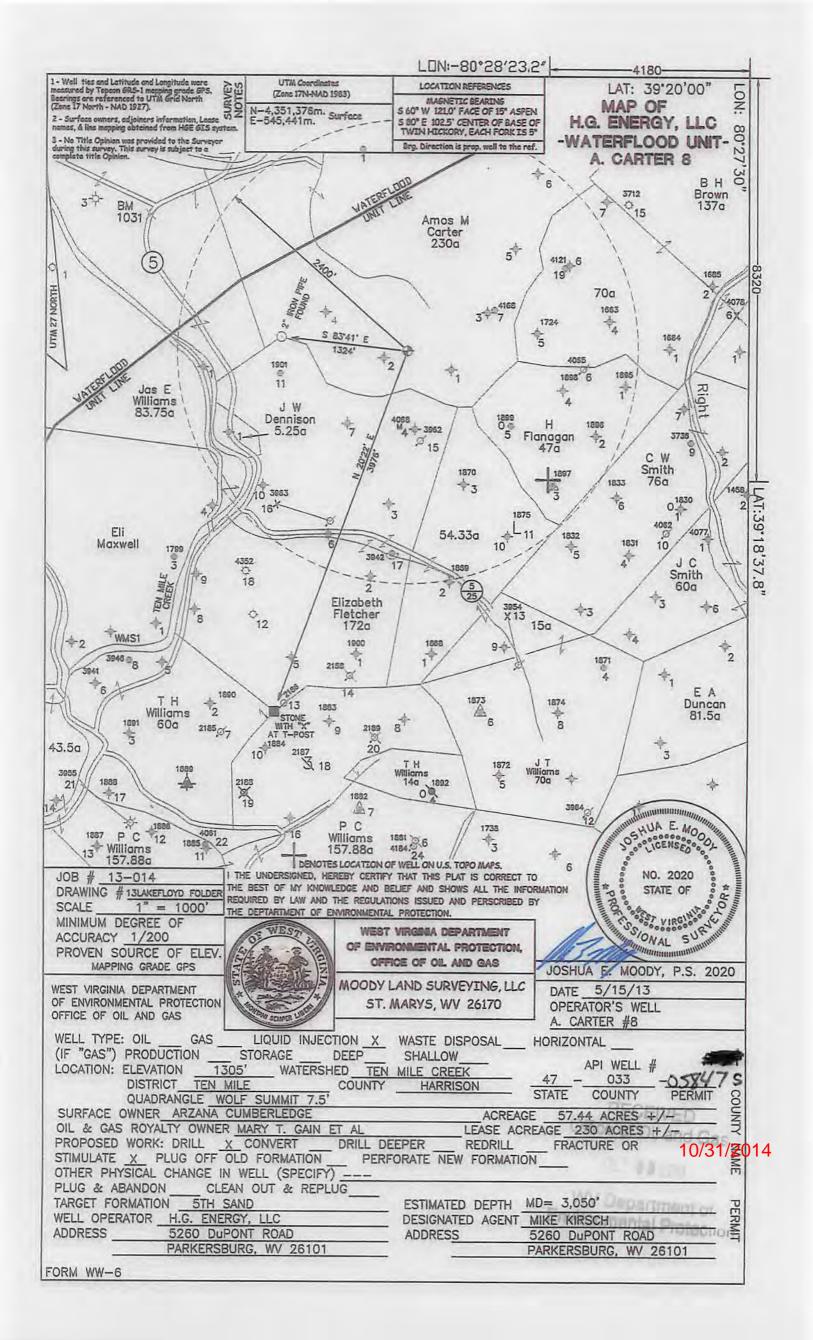
• LOCATION OF DRILL PIT MAY BE CHANGED BASED ON

H. Flanagan No. 7 and Amos Carter No. 8





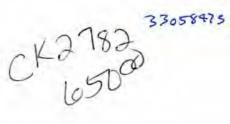






HG Energy, LLC

5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax



September 24, 2014

Mr. Jeff McLaughlin WVDEP Division of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: Amos Carter No. 8

Ten Mile District, Harrison County

West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-3A, WW-3B, WW-9, WW-3(B1), mylar of plat, reclamation plan, topo map and copies of the certified mailing receipts for a permit to drill a production well. Also enclosed is our check in the amount of \$650.00 to cover the associated permit fees.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: William & Arzanna Cumberledge - Certified

Murray Coal – Certified Sam Ward – Inspector

Office of Oil and Gas

OCT 0 2 2014

WV Department of Environmental Protection