

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Tuesday, August 21, 2018 WELL WORK PERMIT Vertical / New Drill - Secondary Recovery

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for EJ MAY 150 47-043-03586-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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) 926-0450.

James A. Martin Chief Operator's Well Number: EJ MAY 150 Farm Name: JOHN & TAMMIE COOPER ET U.S. WELL NUMBER: 47-043-03586-00-00 Vertical New Drill - Secondary Recovery Date Issued: 8/21/2018

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

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.
- 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.

43-035865

FORM WW-3 (B) 1/12



1)	Date:	07/19/201	8				
2)	Operato	r's Well N	Jo.	E. J.	May No. 150		
3)	API We	ll No.:	47	-	0.43	-	035865
			State	-	County		Permit
4)	UIC Per	mit No.	UIC2F	20430	2AP		

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 TY	PE: Liq	uid Injection] /	Gas I	Injection (n	iot sto	rage)	·	/ Waste	e Disposal	
6) LOCATIO	DN: Eleva	tion: 804'			Watershee	d: _	Straight F	ork			
	Distri	ct: Duval			County	Lincol	n		Quadrangle	Griffithsville	7.5'
7) WELL OP	ERATOR:	HG Energy, LLC			8) DI	ESIGN	NATED	AGENT	Diane White	•	
.,	Address	5260 Dupont Road					A	Address	5260 Dupont I	Road	
	artic hore and controls	Parkersburg, WV 26101							Parkersburg, \	WV 26101	
9) OIL & GA	S INSPECT	OR TO BE NOTIFI	ED		10) D	RILL	ING C	ONTRAC	TOR		
	effery L. Smith				Name	е.	To Be De	termined Upo	on Approval of P	ermit	
	369 Big Tyler Ro	bad			Addr	ess					
	ross Lanes, WV	25313				-					
 PROPOS GEOLOO Estimated Approxim Approxim 	GIC TARGE 1 Depth of C nate water st	Plug off Other p T FORMATION Be ompleted Well, (or a rata depths: Fr	erea	ion ange	rill deeper in well (sp existing we Feet	ecify) Dept) th253 2720' TMI		Feet (top) to		ulate
16) Is coal be				N	Ιo						
		ure in target formati	on 1250)	psig S	Sourc	e Estin	nated			
		acture pressure 26									ig (BHFP)
19) MAXIM	UM PROPO	SED INJECTION C	PERATIO	NS:	Volume				Bottom hole	pressure	2400 psi
20) DETAILI	ED IDENTI	FICATION OF MA	TERIALS '	TO E	BE INJECT	ED, I	NCLUI	DING AD	DITIVES	Fresh water,	produced water,
bactericides a	and other chemic	als as needed to maintain v	vater quality ar	nd Imp	rove oil recove	ry.			•		
21) FILTERS	S (IF ANY)	Cartridge filters and chard	coal bed filters							*	
22) SPECIFIC	CATIONS F	OR CATHODIC PH	OTECTIC)N A	ND OTHE	RCC	RROSI	ON CON	TROL		

23) CASING AND TUBING PROGRAM CASING OR FOOTAGE INTERVALS CEMENT PACKERS SPECIFICATIONS FILL-UP TUBING TYPE Grade Weight New Used For Drilling Left In Size GS OR SACKS Well per ft. (CU. FT.) Kinds Conductor 430' CTS Fresh Water 7" LS 17# х 430' Sizes Coal 2.375" Intermediate 2720' 2720' 150 sks Depths set Production 4 1/2" J-55 10.5# х 2420' Tubing 2 3/8" J-55 4.6# x 2520' 2520' Liners Perforations Bottom Top 24) APPLICANT'S OPERATING RIGHTS were acquired from EJ May of record in the / dated 02/07/1983 by deed / lease x / other contract County Clerk's office in Lease Book 35 Page 154 Lincoln

43-03586 S

CK	380
	00

650. 1) Date: July 19, 2018

/	240003000000			
2)	Onorator	., .	Wall	No

2) Operator s wen	1110.	E. J. Wie	ay 140. 100			
3) API Well No.:	47	-	43	-	03586	
	State		County	-	Permit	
4) UIC Permit No.	LIIC2R	043024	0			

E I May No 150

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	mer(S) To Be Served	7) (a) Coal Operator
(a) Name	Michael & Pam Cooper	Name NA
Address	46 Torque Drive	Address
	Yawkey, WV 25573	
(b) Name	Johnny & Tammie Cooper	7) (b) Coal Owner(S) With Declaration Of Record
Address	P. O. Box 175	Name NA
	Griffithsville, WV 25521	Address
(c) Name	David Adkins	Name
Address	5115 Straight Fork	Address
	Griffithsville, WV 25521	
6) Inspector	Jeffery L. Smith	7) (c) Coal Lessee with Declaration Of Record
Address	5369 Big Tyler Road	Name NA
	Cross Lanes, WV 25313	Address
Telephone	681-313-6743	

TO THE PERSONS NAMED ABOVE: You should have received this form and the following documents

- (1) The Application For A Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and

FORM WW-3 (A)

1/12

(3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is

20 18

THE REASON YOU HAVE RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION [(FORM WW-3(B)] DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ACTION AT ALL.

Take notice that under Chapter 22-6 of the <u>West Virginia Code</u>, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and	Well Operator	HG Energy, LLC	_
am familiar with the information submitted in this document and all	Address	5260 Dupont Road	
attachments and that, based on my inquiry of those individuals		Parkersburg, WV 26101	
immediately responsible for obtaining the information, I believe that	By:	Diane White	
the information is true, accurate and complete. I am aware that there	Its:	Agent	
are significant penalties for submitting false information, including		2	
the possibility of fine and imprisonment.	Signature:	Diane White	_

WW-2A / 3A Surface Waiver

Lincoln

SURFACE OWNER WAIVER

County

Operator Operator well number HG Energy, LLC EJ May 150

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A / 3A

The well operator named on page WW-2A / 3A is applying for a permit from the State to do oil or gas well work. (<u>Note:</u> If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

- The Chief has the power to deny or condition a well work permit based on comments on the following grounds:
- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A / 3A, and attachments consisting of pages 1 through _____ including a work order on Form WW-2B / 3A, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERS	ON	FOR EXECUTION BY A CORPORATION, ETC.			
Pamela Cooper	Date	Company Name			
Signature	-	 Ву			
		lts	Date		
Michael & Pamela Cooper					

Michael looper

Signature

Date

WW-2A / 3A Surface Waiver

SURFACE OWNER WAIVER

County

Lincoln

Operator Operator well number HG Energy, LLC EJ May 150

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FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

John K. Coon	Date 7-2 6-18	Company Name	·
Signature	-	By	
Johnny & Tammie Cooper		lts	Date

Print Name

Signature

Date

SURFACE OWNER WAIVER

County

Lincoln

Operator Operator well number HG Energy, LLC E.J. May 150

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FOR EXECUTION BY A NATURAL PERSON

FOR E	XECUTION	BY A	CORPOR	ATION,	ETC.
-------	----------	------	--------	--------	------

Daul	Cold-	Date 7-2	6-16 Company		
Signat	lite		By		
·			lts	•	Date
David Adkins					
· · · · · · ·					

Print Name

Signature

Date

WW-2B1 (5-12) Well No. E. J. May 150

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 Laboratory Name	Sturm Environmental
Sampling Contractor	Sturm Environmental

HG Energy, LLC	
5260 Dupont Road	
Parkersburg, WV	
304-420-1119	
	5260 Dupont Road Parkersburg, WV

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.

Water source owners are listed on the topo (see * attached). The water wells have been tested recently.

Well No.

EJ May 150

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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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.

Surface Owners Identified With Water Sources to be Sampled and Tested:

- Michael Cooper
 P. O. Box 32
 Yawkey, WV 25573
- Robert & Beth Miller
 142 Bear Fork Road
 Yawkey, WV 25673
- David & Vicky Adkins
 5115 Straight Fork Road
 Griffithsville, WV 25521
- Jonathan Johnson
 5 Bethel Drive
 Yawkey, WV 25573
- Dwight Lovejoy
 5 Bethel Drive
 Yawkey, WV 25573
- Carolyn Brogan
 4553 Midway Road
 Yawkey, WV 25573

- Tammy Mahone
 6 Anchor Drive
 Yawkey, WV 25573
- James & Rebecca Corbitt
 5710 MacCorckle Ave, SE Charleston, WV 25304
- David Terlikowski
 P. O. Box 173
 Griffithsville, WV 25521
- David Clark
 PO Box 149
 Griffithsville, WV 25521
- John Chandler
 62 Bear Fork Road
 Yawkey, WV 25573
- Lorene Cooper, Est, c/o Johnny Cooper
 PO Box 175
 Griffithsville, WV 25573

RECEIVED Office of Oil and Gas

AUG 20 2018

WV Department of Environmental Protection

David Pauley P. O. Box 198 Griffithsville, WV 25521

WW-9	A DY NEVER Law 47
(2/15)	API Number 47 Operator's Well No. E. J. May No. 150
DEPARTMENT OF ENVI	WEST VIRGINIA RONMENTAL PROTECTION F OIL AND GAS
FLUIDS/ CUTTINGS DISP	OSAL & RECLAMATION PLAN
Operator Name HG Energy, LLC	OP Code UIC2R04302AP
	Quadrangle Griffithsville 7.5'
Do you anticipate using more than 5,000 bbls of water to compl Will a pit be used? Yes <u>No</u>	
If so, please describe anticipated pit waste:	countered while drilling
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20 ML
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit	: Number)
Reuse (at API Number)
Off Site Disposal (Supply form WW Other (Explain	-9 for disposal location)
· · · · · · · · · · · · · · · · · · ·	
Will closed loop system be used? If so, describe: <u>No</u>	
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc. Air, Fresh Water
-If oil based, what type? Synthetic, petroleum, etc. NA	\
Additives to be used in drilling medium?Water, Soap, KCl	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Remove offsite
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust <u>) NA</u>
-Landfill or offsite name/permit number?	
	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Vi provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based obtaining the information, I believe that the information is t penalties for submitting false information, including the possibil Company Official Signature Diane Uhite Company Official (Typed Name) Diane White	conditions of the GENERAL WATER POLLUTION PERMIT issued rginia Department of Environmental Protection. I understand that the f any term or condition of the general permit and/or other applicable v examined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant lity of fine or imprisonment. OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA TIMOTHY P ROUSH 9260 Oupont Road Parkersburg West Virginia 28101
Company Official Title Agent	My Commission Expires Apr 26, 2020

Subscribed and sworn before me this 19th day of July	, 20 <u>18</u>	RECEIVED Office of Oil and Gas
PERTICE	Notary Public	AUG 2 0 2018
My commission expires 4/26/2020		

WV Department of Environmental Protection

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TOTH H H H	Form	WW-9	
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Comments:

Operator's Well No. E. J. May No. 150

HG	Energy,	L	_C
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Proposed Revegetation Trea	atment: Acres Distur	rbed 1.12	Prevegetation pl	H
Lime	3 Tons/acre or to	o correct to pH	6.5	
Fertilizer type <u>10-</u>	20-20			
Fertilizer amount_	· ·		/acre	
_{Mulch} Straw		2Tons/ad	cre	
		Seed	<u>Mixtures</u>	
Т	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
Tall Fescue	40		Tall Fescue	40
Ladino Clover	5		Ladino Clover	5
Sediment Contro	Will Be Maint	ained At Al	I Times	
Attach: Drawing(s) of road, locatior provided)	ı, pit and proposed ar	ea for land appl	ication (unless engineered plans in	cluding this info have bee
Photocopied section of invo	lved 7.5' topographic	: sheet.		
Plan Approved by: Je	Krey Smit	h		

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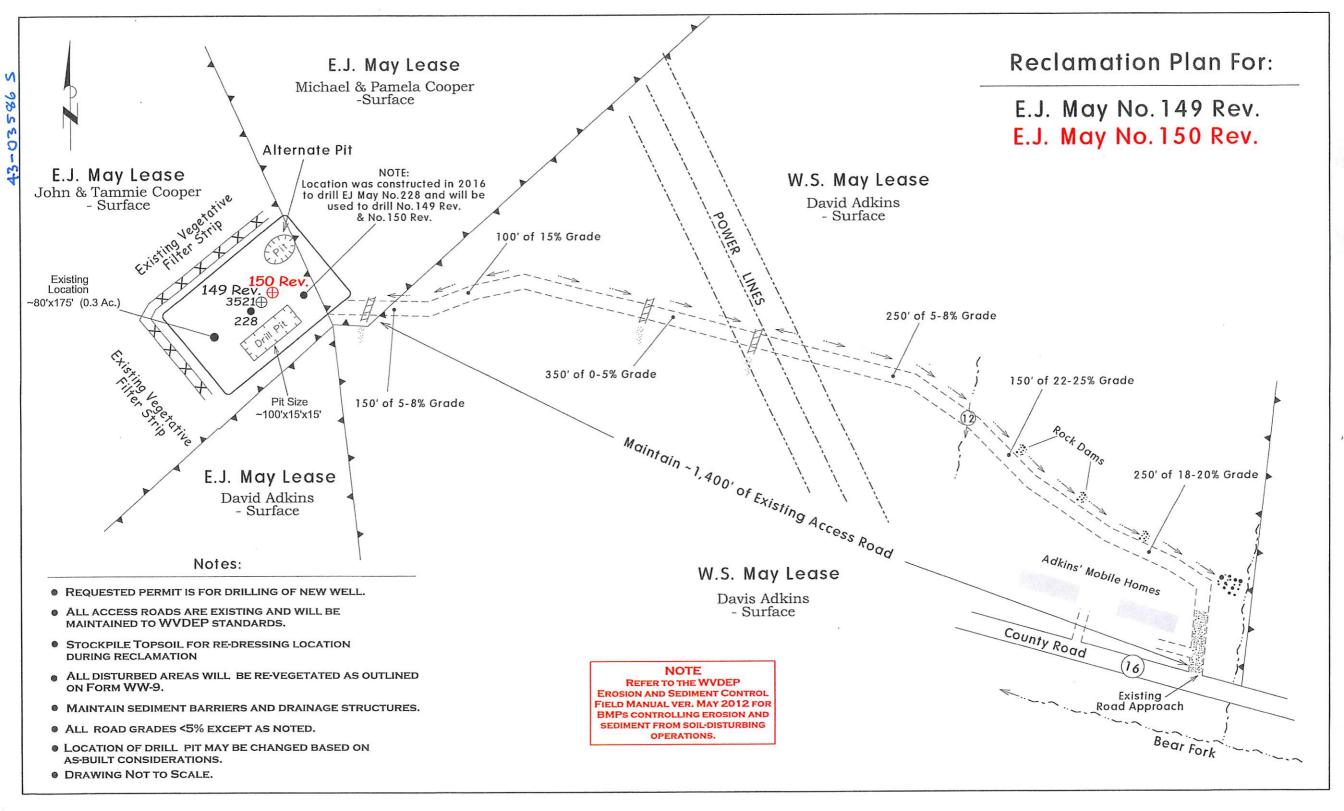
Title: 0:1	+ Gos Inspector	Date:	1-24-18
Field Reviewed?	())Yes	() No	

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