

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

Wednesday, November 28, 2018 WELL WORK PERMIT Vertical / New Drill

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit approval for E. J. MAY 148 REV Re: 47-043-03590-00-00

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: E. J. MAY 148 REV

Farm Name: JUDY R. SMITH

U.S. WELL NUMBER: 47-043-03590-00-00

Vertical New Drill

Date Issued: 11/28/2018

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 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 (B) 1/12



2) Operator	's Well 1	Vo.	EJI	May 148 Rev		
3) API Wel	l No.:	47	-6	043	-	\$03590
		State		County		Permit
4) UIC Pen	mit No.	UIC2F	30430	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

	Distric	t: Duval			Co	unty Lincoln		Quadrar	ngle Griffithsville 7.5'
7) WELL OPERA	ATOR: H	IG Energy, L	LC			8) DESIGNA	ATED AGE	NT Diane W	hite
Ad	dress 5	260 Dupont	Road				Addre		pont Road
	P	arkersburg,	WV 26101	112				Parkerst	ourg, WV 26101
9) OIL & GAS IN	VSPECTO	R TO BI	ENOTIFI	ŒD		10) DRILLIN	NG CONTI	RACTOR	
Name Jeffery	Smith					Name To	Be Determine	d Upon Approva	of the Permit
Address 5369 B	lig Tyler Roa	d				Address			
Cross I	anes, WV 2	5313			_	_			
12) GEOLOGIC 13) Estimated De 14) Approximate 15) Approximate 16) Is coal being	TARGET pth of Conwater stra coal seam	FORMA mpleted Value depths depths: the area?	Other process of the	ohysical erea actual de esh 200	change in vepth of exis	well (specify) Depth ting well): 262 Feet	prate new fo	Feet (top	/ Stimulate / Convert
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I bactericides and off 21) FILTERS (IF	oir pressur ervoir frace PROPOSI DENTIFI her chemicals ANY)	cture pres ED INJE CATION s as needed Certridge filte	sure 26 CTION O OF MA to maintain v	DPERAT TERIAL vater quality	S TO BE I y and improve ers	Volume per hou NJECTED, IN oil recovery.	CLUDING	ADDITIVE	psig (BHFP) nole pressure 2400 psi CS Fresh water, produced water,
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I bactericides and oth 21) FILTERS (IF 22) SPECIFICAT	oir pressur ervoir frac PROPOSI DENTIFI her chemicals ANY) _C TONS FO	cture pres ED INJE CATION s as needed Certridge filte PR CATH	sure 26 CTION O OF MA to maintain v rs and chard ODIC PR	DPERAT TERIAL vater quality	TONS: V S TO BE I y and improve ers	Volume per hou NJECTED, IN oil recovery.	ır 25 BBL CLUDING	ADDITIVE	nole pressure 2400 psi CS Fresh water, produced water,
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED In bactericides and off 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND	oir pressur ervoir frac PROPOSI DENTIFI her chemicals ANY) _C TONS FO	cture pres ED INJEC CATION S as needed Cartridge filte R CATH	SURE 26 CTION O OF MA to maintain v rs and charc ODIC PR	PERAT TERIAL water quality coal bed filt ROTECT	TONS: V S TO BE I y and improve ers	Volume per hou NJECTED, IN oil recovery. OTHER COR	nr 25 BBL CLUDING ROSION C	ADDITIVE	nole pressure 2400 psi S Fresh water, produced water, NA
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I	oir pressur ervoir frac PROPOSI DENTIFI her chemicals ANY) _C TONS FO	cture pres ED INJEC CATION S as needed Cartridge filte R CATH	sure 26 CTION O OF MA to maintain v rs and chard ODIC PR	PERAT TERIAL water quality coal bed filt ROTECT	TONS: V S TO BE I y and improve ers	Volume per hou NJECTED, IN oil recovery.	nr 25 BBL CLUDING ROSION C	ADDITIVE	nole pressure 2400 psi CS Fresh water, produced water,
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Interpretation bactericides and other 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE	oir pressur ervoir frace PROPOSI DENTIFI her chemicals ANY) _C TONS FO	cture pres ED INJEC CATION S as needed Certridge filte OR CATH PROGRAM	Sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight	DPERAT TERIAL water quality coal bed filt ROTECT	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR	TERVALS Left In	CONTROL CEMENT FILL-UP OR SACKS	nole pressure 2400 psi CS Fresh water, produced water, NA PACKERS
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I bactericides and ot 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor	oir pressur ervoir frace PROPOSI DENTIFI her chemicals ANY) _C TONS FO	cture pres ED INJEC CATION S as needed Certridge filte OR CATH PROGRAM	Sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight	DPERAT TERIAL water quality coal bed filt ROTECT	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR	TERVALS Left In	CONTROL CEMENT FILL-UP OR SACKS	nole pressure 2400 psi S Fresh water, produced water, NA
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I bactericides and ot 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal	pressure ervoir frace proposition proposition of the proposition of th	cture pres ED INJEC CATION S as needed Certridge filte PROGRAI SP Grade	Sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft.	DPERAT TERIAL water qualit coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling	CLUDING ROSION C	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	nole pressure 2400 psi CS Fresh water, produced water, NA PACKERS
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Interpretation of the second of the s	pressure ervoir frace proposition proposition of the proposition of th	cture pres ED INJEC CATION S as needed Certridge filte PROGRAI SP Grade	Sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft.	DPERAT TERIAL water qualit coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling	CLUDING ROSION C	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	NA PACKERS Kinds
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Interpretation of the second of the s	pressure ervoir frace proposition proposition of the proposition of th	cture pres ED INJEC CATION S as needed Certridge filte PROGRAI SP Grade	Sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft.	DPERAT TERIAL water qualit coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling	CLUDING ROSION C	CONTROL CEMENT FILL-UP OR SACKS (CU. FT.)	NA PACKERS Kinds Sizes
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Instruction bactericides and other 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	oir pressurervoir frace PROPOSIDENTIFI there chemicals ANY) CIONS FOR TUBING I	cture pres ED INJE CATION S as needed Cartridge filte R CATH PROGRAM SP Grade	sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft.	DPERAT TERIAL vater quality coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling 450'	CLUDING ROSION C TERVALS Left In Well 450'	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2,375"
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Instruction bactericides and other 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	oir pressurervoir frace PROPOSIDENTIFI her chemicals ANY) COTONS FOR TUBING 1 Size	cture pres ED INJE CATION S as needed Cartridge filte R CATH PROGRAM SP Grade LS J-55	sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft. 17#	DPERAT TERIAL vater quality coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling 450'	TERVALS Left In Well 450'	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2,375" Depths set
17) Virgin reserve 18) Estimated res 19) MAXIMUM 20) DETAILED I bactericides and oth 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR	oir pressurervoir frace PROPOSIDENTIFI her chemicals ANY) COTONS FOR TUBING 1 Size	cture pres ED INJE CATION S as needed Cartridge filte R CATH PROGRAM SP Grade LS J-55	sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft. 17#	DPERAT TERIAL vater quality coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling 450'	TERVALS Left In Well 450'	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2,375" Depths set 2300'
17) Virgin reserved 18) Estimated res 19) MAXIMUM 20) DETAILED Interpretation of the second of the s	oir pressurervoir frace PROPOSIDENTIFI her chemicals ANY) COTONS FOR TUBING 1 Size	cture pres ED INJE CATION S as needed Cartridge filte R CATH PROGRAM SP Grade LS J-55	sure 26 CTION O OF MA to maintain v rs and charc ODIC PR M ECIFICATI Weight per ft. 17#	DPERAT TERIAL vater quality coal bed filt ROTECT TONS New	TONS: V S TO BE I y and improve ters	Volume per hou NJECTED, IN oil recovery. OTHER COR FOOTAGE IN For Drilling 450'	TERVALS Left In Well 450'	CONTROL CEMENT FILL - UP OR SACKS (CU. FT.) CTS	NA PACKERS Kinds Sizes 2.375" Depths set 2300' Perforations

RECEIVED
Office of Oil and Gas

OCT 2 2 2018

FORM WW-3 (A) 1/12



 Date: Operate 	October 8, or's Well		EJ Ma	y 148 Revi	sed	
3) API W		47	-	043	- 4	
		State		County	у —	Permit
4) UIC Per	mit No.	UIC2R	04302A	P		

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,

5) Surface Ow	mer(S) To Be Served 7)	(a) Coal O	perator	
(a) Name		Name	NA	
Address		Address		
Entrant 20	Yawkey, WV 25573 \			
(b) Name		(b) Coal O	wner(S) With I	Declaration Of Record
Address		Name	NA	
		Address	,===	
(a) Name		Torre -		
(c) Name Address		Name Address		
, radicos				
6) Inspector			essee with Decl	aration Of Record
Address	5369 Big Tyler Road	Name	NA:	
	Cross Lanes, WV 25313	Address		
Telephone	681-313-6743			
THE REASON	proposed for the first injection or waste dis N YOU HAVE RECEIVED THESE DOCUM N WHICH ARE SUMMARIZED IN THE "IN ATION [(FORM WW-3(B)] DESIGNATED T	MENTS IS	ONS" ON THI	E REVERSE SIDE OF THE COPY OF
Notice and Ap West Virginia Application an and Reclamation	at under Chapter 22-6 of the West Virginia Cod oplication and accompanying documents for a Vice Department of Environmental Protection, with displayed on the attached Form WW-6. Copion Plan have been mailed by registered or certain certain circumstances) on or before the day of	Well Work th respect es of this I fied mail o	Permit with the to a well at the Notice, the Apport delivered by	ne Chief of the Office of Oil and Gas, the location described on the attached lication, the plat, and the Construction hand to the person(s) named above (or
	The person signing this document	shall mak	e the followin	g certification:
"I certify under	r penalty of law that I have personally examined	and V	Vell Operator	HG Energy, LLC
	th the information submitted in this document as		ddress	5260 Dupont Road
	d that, based on my inquiry of those individuals			Parkersburg, WV 26101
	sponsible for obtaining the information, I believ	41	y:	Diane White
the information	is true, accurate and complete. I am aware that	there It	s:	Agent
	penalties for submitting false information, inclu-	ding		
the possibility	of fine and imprisonment.)	ignature:	Diane White
	Office of Oil and	d Gas		

OCT 2 2 2018

W	V-	-2	В	1
(5-	1	2))	

Well No.	EJ May 148 Revised	

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	atory Name	Sturm Environmental Lab
Sampling Contr	ractor	Sturm Environmental Lab
Well Operator	HG Energy, LL0	<u> </u>
Address	5260 Dupont Ro	oad
	Parkersburg, W	V 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 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.

** See Attached Sheet **

RECEIVED Office of Oil and Gas

OCT 2 2 2018

WV Department of Environmental Protection

EJ May 148 Revised

W€

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.

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:

- Linda L. Owsley
 PO Box 246
 Griffithsville, WV 25521
- Gregory & Sheila Brisendine
 12452 Havana Avenue
 New Port Richey, FL 34654
- Herbert & Tammy Morgan Jr.
 72 Bear Fork Road
 Yawkey, WV 25573
- Michael Saul
 90 Bear Fork Road
 Yawkey, WV 25573
- Justin White
 90 Bear Fork Road
 Yawkey, WV 25573
- * David Adkins 5115 Straight Fork Griffithsville, WV 25521
- Judy Smith25 Pond GapYawkey, WV 25573

- * David Lawson 54 Bear Fork Road Yawkey, WV 25573
 - John & Judith Chandler
 PO Box 1291
 Scott Depot, WV 25560
- Lester & Sherry Smith
 82 Bear Fork Road
 Yawkey, WV 25573
 - Ronald & Debra Tawney
 91 Pond Gap
 Yawkey, WV 25573
- * Ruth Jones
 PO Box 172
 Griffithsville, WV 25521
- Leonard McCormick
 16 Bear Fork Road
 Yawkey, WV 25573
- Russel & Kathryn Wright
 135 Bay Ridge Road
 Hampstead, NC 28443

RECEIVED
Office of Oil and Gas

OCT 2 2 2018

WV Department of Environmental Protection WW-9 (2/15)

API Number 47 - 043	-
Operator's Well No.	EJ May 148 Rev

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

FLUIDS/ CUTTING	S DISPOSAL & RECLAMATION PLAN	
Operator Name HG Energy, LLC	OP Code 4944979	48
Watershed (HUC 10) Bear Fork	Quadrangle Griffithsville 7.5'	
Oo you anticipate using more than 5,000 bbls of water to will a pit be used? Yes No No		No 🗸
If so, please describe anticipated pit waste:F	Fluids encountered while drilling the well	
Will a synthetic liner be used in the pit? Yes		
Proposed Disposal Method For Treated Pit Wa	astes:	Office of Oil and Gas
Land Application		
Underground Injection (UIC	Permit Number	OCT, 2 2 2018
Reuse (at API Number Off Site Disposal (Supply fo Other (Explain	orm WW-9 for disposal location)	WV Department of Environmental Protectio
Will closed loop system be used? If so, describe: No		
Drilling medium anticipated for this well (vertical and h	norizontal)? Air, freshwater, oil based, etc. Air	, Freshwater
-If oil based, what type? Synthetic, petroleum,	etc. NA	
Additives to be used in drilling medium? Water, soap, K	SCI	
Orill cuttings disposal method? Leave in pit, landfill, re		
-If left in pit and plan to solidify what medium		
-Landfill or offsite name/permit number? To B		
Permittee shall provide written notice to the Office of O West Virginia solid waste facility. The notice shall be puwhere it was properly disposed.		
on August 1, 2005, by the Office of Oil and Gas of the V provisions of the permit are enforceable by law. Viola law or regulation can lead to enforcement action.	rsonally examined and am familiar with the int, based on my inquiry of those individuals ion is true, accurate, and complete. I am average possibility of fine or imprisonment.	otection. I understand that the permit and/or other applicable information submitted on this immediately responsible for
Company Official (Typed Name) Diane White		
Company Official Title Agent		
Subscribed and sworn before me this 8th da	ay of October , 20 18	
Casua IA. Com	Notary Publi	character .
My commission expires 7/31/2022	Totaly I don	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A, BOARDMAN 5301 13th Ave Vienna, WV 26 My Commission Expires July 31,

Operator's Well No. EJ May 148 Rev

Proposed Revegetation Treat	tment: Acres Disturbed 0	0.6 acres Prevegetation pl	H
Lime	3 Tons/acre or to correc		
Fertilizer type 10-		8	
Fertilizer amount	500	lbs/acre	
Mulch_Straw	2	_Tons/acre	
		Seed Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Drawing(s) of road, location, provided) Photocopied section of invol	, pit and proposed area for laved 7.5' topographic sheet.	At All Times** and application (unless engineered plans in	cluding this info have be
Attach: Drawing(s) of road, location, provided) Photocopied section of invol	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of invol	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional Plan Approved by: Comments: All Sec	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional Plan Approved by: Comments:	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional Plan Approved by: Comments:	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional Plan Approved by: Comments:	, pit and proposed area for laved 7.5' topographic sheet. Hey Sm. 44	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional provided by: Comments: All Section Secti	yed 7.5' topographic sheet. Herey Smith Timen t Control	and application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involutional Plan Approved by: Comments:	yed 7.5' topographic sheet. Herey Smith Timen t Control	and application (unless engineered plans in	

OCT 2 2 2018

WW Department of Environmental Procession

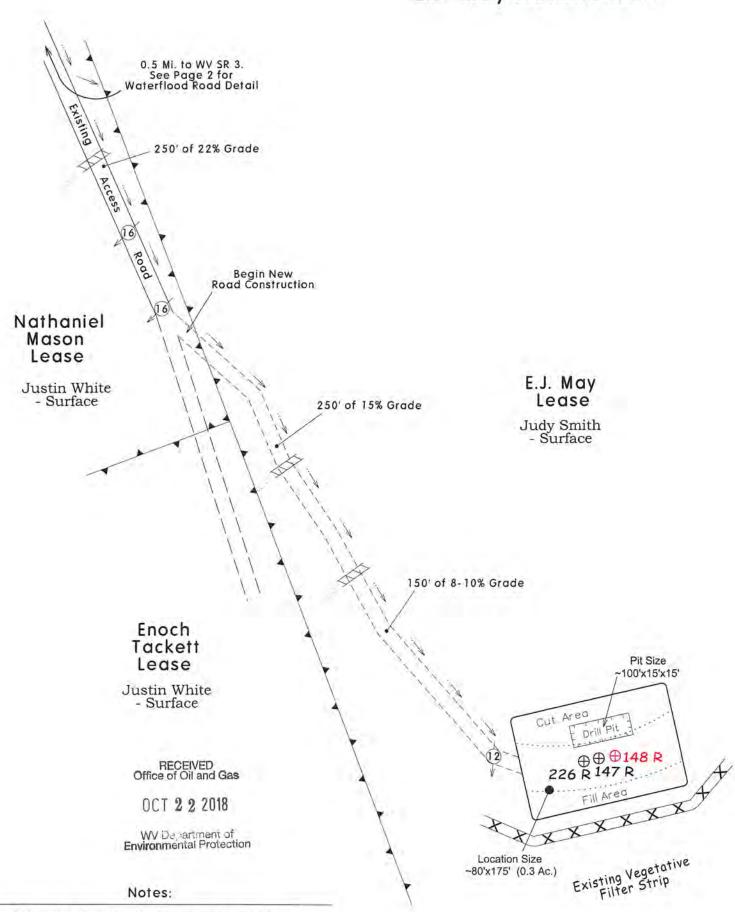
1

Reclamation Plan For:

E.J. May No. 147 Rev.

E.J. May No. 148 Rev.

E.J. May No. 226 Rev.



- . REQUESTED PERMIT IS FOR DRILLING OF NEW WELL.
- SOME ACCESS ROADS ARE EXISTING AND WILL BE UPGRADED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN.
- STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION DURING RECLAMATION
- 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.
- LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS.
- STACK BRUSH BELOW DISTURBED AREAS FOR SEDIMENTATION CONTROL.
- DRAWING NOT TO SCALE.

NOTE

REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPS CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

