

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

June 26, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-1706526, issued to KEY OIL COMPANY, 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.

Operator's Well No: TARGA / MAXWELL NO. 19

James Martin

Farm Name: MORRIS, I.L. (IKE)

API Well Number: 47-1706526 Permit Type: Vertical Well Date Issued: 06/26/2014

Promoting a healthy environment.

1706526

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.

WW - 2B (Rev. 8/09)

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

) Operator's W			IPANY	300	347 DOD RIDO		V NEW
) Operator's W				Oper ID	ator Cou		
	ell Numb	er: <u>TA</u>	RGA/MAXWEL	L #19	_	3) Eleva	ation: <u>1150'</u>
Well Type: (a) OilX	or G	Sas <u>X</u>				
(b) If Gas:	Produ	ction X / U	nderground S	orage		
		Deep	/ \$	Shallow X			
) Approximate) Approximate) Approximate 0) Does land c	fresh wa salt wate coal sea contain co	ter strate er depths m depths pal seam	0' Feet a depths: :1561' s:NONE RE s tributary to ac in detail	PORTED ON	DRILLERS NO	LOGS	oth: GORDON
2) TYPE S	PECIFIC	the second of	ASING AND TU	BING PROGR FOOTAGE	AM INTERVA	LS CI	EMENT
	PECIFIC Size	ATIONS		FOOTAGE	- 1 4 T Ule	ППТТ	
		ATIONS		FOOTAGE	INTERVA	ППТТ	
TYPE S Conductor Fresh Water	<u>Size</u>	ATIONS Grade	Weight per ft	FOOTAGE For Drilling 35 -168 /80	INTERVA Left in We	ППТТ	S.TO
TYPE S Conductor Fresh Water	<u>Size</u> 13 3/8	Grade ERW	Weight per ft 48	FOOTAGE For Drilling 35 468	Left in We	70 SK	S.TO
TYPE S Conductor	<u>Size</u> 13 3/8	Grade ERW	Weight per ft 48	FOOTAGE For Drilling 35 -168 /80	Left in We	70 SK	S.TO
Conductor Fresh Water Coal	<u>Size</u> 13 3/8 9 5/8	Grade ERW ERW	Weight per ft 48 29	FOOTAGE For Drilling 35 468 180	Left in We 0 168 /80	70 SK	S.TO ACE KS. CTS
Conductor Fresh Water Coal Intermediate	<u>Size</u> 13 3/8 9 5/8	Grade ERW ERW ERW	Weight per ft 48 29	FOOTAGE For Drilling 35 468 180	108 108 180	70 SK: SURF 190 S	S.TO ACE KS. CTS

^{**} BLUE MONDAY, KEENER, BIG INJUN, WEIR, GANTZ, GORDON

WW-2A (Rev. 6-07)

1). Date: April 1	1, 2014		_
2.) Operator's Wel	l Number		GA/MAXWELL #19
3.) API Well No.:	State 47-	Count 017	Permit -

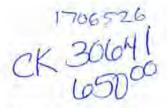
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator
(a) Name	I. L. MORRIS	Name NONE
Address	P O BOX 397	Address
, , , , , , , , ,	GLENVILLE, WV 26351	
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name
1.15.51.55.5		Address
(c) Name		Name
Address		Address
	1	
6) Inspector	DOUGLAS NEWLON	(c) Coal Lessee with Declaration
Address	4060 DUTCHMAN ROAD	Name
	MACFARLAN, WV 26148	Address
Telephone	304-932-8049	
0.5040.05103		IAMED ABOVE TAKE NOTICE THAT:
Included is t		g contract or contracts by which I hold the right to extract oil and gas
OR		
Included is t	he information required by Chapter 2	2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify	that as required under Chapter 22	-6 of the West Virginia Code I have served copies of this notice
application, a loc	ation plat, and accompanying docum	nents pages 1 through on the above named parties by:
<u> </u>	Personal Service (Affidavit atta	ached)
	X Certified Mail (Postmarked postmarked)	
_	Publication (Notice of Publicat	
		and 35 CSR 4, and I agree to the terms and conditions of any pe
issued under this	s application.	n e e e e e e e e e e e e e e e e e e e
I certify	under penalty of law that I have per	sonally examined and am familiar with the information submitted on on my inquiry of those individuals immediately responsible for obtain
	believe that the information is true,	
		ies for submitting false information, including the possibility of fine
imprisonment.	210 Mar 2021 202 203 103 103 Panano	
		KEY OIL COMPANY
The same	KERRI LIPSCOMB By:	tend dryman
1 目的变形目	NOTARY PUBLIC Its:	PRESIDENT /
	PO BOX 97 Address Address	22 GARTON PLAZA
	Smithburg, WV 26436 My Commission Express Nov 16, 2022	WESTON, WV 26452
	Telephone	304-269-7102
Subscribed and	sworn before me this 11th day of	of APRIL , 2014 RECEIVED
	4 . 4	Notary Publiffice of Oil and Gas
Mu Commission	Expires November 16, 2022	Notary Publicase of Oil and Gas
My Commission		MAY 3 0 2014
Oil and Gas Privacy	Notice	2014

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 normal course of business on as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Office at OCTION depprivacyofficer@wv.gov

WW-2A Surface Waiver

SURFACE OWNER WAIVER



County	DODDRIDGE	Operator	KEY OIL COMPANY
		Operator well number	TARGA/MAXWELL #19

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: 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

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEN** (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.
- The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 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.

<u>List of Water Testing Laboratories.</u> 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, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, 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 Chave no objection to a

permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON

Signature

Date

| Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Date

1706526

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
PORTER MAXWELL	MICHAEL MURPHY	1/8	14/236
TARGA DEVELOPMENT, INC.	KEY OIL COMPANY	1/8	343/173

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: KEY OIL COMPANY

By:Its:

PRESIDENT

BECEIVEL Office of Oil and Gas

MAY 3 0 2014

WV Department of Environme nai Pro- 255h WW-2B1

Well No. TARGA/MAXWELL NO. 19

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 Name	Reliance Laboratories, Inc.
_	Well operator's private laboratory	
	Well Operator	Key Oil Company
	Address	22 Garton Plaza
	7777	Weston, WV 26452
	Telephone	(304) 269-7102

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 please indicate such.

THERE APPEARS TO BE NO KNOWN WATER WELLS OR SPRINGS WITHIN 1000 FEET VED OF THE PROPOSED WELL LOCATION

SEE PERMIT CONDITIONS

MAY 3 0 2014

WV Department of Environmental Protection



WW-9 Rev. 5/10

	P	age		of	_	
API Number	47 -	017				
Operator's W	ell No.	TAR	GA/M	AXW	ELL NO. 15	9

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

perator N	ame Key Oil Comp	oany		OP Code	
Vatershed_	Lick Run		Quadrangle		New Milton 7.5'
levation _	1,150'	County	Doddridge	District	New Milton
escription	of anticipated Pit Was	te: Drill Water,	Frac Blow Back	& Various	Formation Cuttings.
o vou ant	icipate using more than	5,000 bbls of water to	complete the proposed v	vell work? Ye	sNo_XX
ill a synti	hetic liner be used in th	e pit?yes	If so, what ml.?	6 mil. 20	No XX DC W 5.21.1014
roposed D	Reuse Off Site	pplication round Injection (UIC (at API Number	rm WW-9 for disposal lo		5.21
-1	edium anticipated for the	nis well? Air, freshwa Synthetic, petroleum,			
dditives	to be used?	is all landfill so	emoved offsite etc.	eave in pit	
-1	fleft in nit and plan to	solidify what medium	will be used? Cement, li	me, sawdust	
on August provisions law or reg I applicatio obtaining penaitles	t 1, 2005, by the Office of the permit are enfo culation can lead to enfo certify under penalty on form and all attach	of Oil and Gas of the receable by law. Viol occement action. of law that I have puments thereto and the layer that the informations.	ations of any term or corersonally examined and at, based on my inquiry tion is true, accurate, and e possibility of fine or im	andition of the general familiar with of those individual complete. I prisonment.	ATER POLLUTION PERMIT issued natal Protection. I understand that the eneral permit and/or other applicable in the information submitted on this viduals immediately responsible for am aware that there are significant
Company	Official (Typed Name	Jan Chapn	nan		
	Official Title	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Subscribe	ed and swom before me	ethis 1/4L	day of April	, 2	RECEIVED
	4	Cerri Lys	coup	Notas	Office of Oil and Gas
My com	mission expires	- y loven	her 16, 200	12	MAY 3 U Z014
		OFFI	CIAL SEAL LIPSCOMB		WV Department of Environmental Protection

Property Boundary Road = = = = = = = = = = = = = = = = = = =	Spring (Wat Spot Drain Pipo Waterway Cross Drain Artificial F Pit: cut wa Pit: compa	with size in inches	- ®> >
roposed Revegetation Treatment: Acres Disturbed	2.3±	Prevegetation pH	5.5
Lime Tons/acre or to correct			
Fertilizer (10-20-20 or equivalent) 1/3 TON	lbs/acre (500 lbs	minimum)	
Mulch HAY 2	Tons/acre		
	Seed Mixtures		
Area I Seed Type lbs/acre		Area II Seed Type	lbs/acre
KY-31 40		KY-31	40
ALSIKE CLOVER 5		ALSIKE CLOVER	5
ANNUAL RYE 15		ANNUAL RYE	15
Attach: Drawing(s) of road, location, pit and proposed area for le Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Douglas Doublas	INStall	Ets to 5-21-2014	RECEIVED
Title: Oil + Gas Inspector Field Reviewed? Yes	No		or on and
Livid restorious.			MAY 3 0 2014

WV Department of Environmental Protection

PAGE OF WW9 TARGA MAXWELL NO. REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MODIFICATION TO THE ± @ 10% SPACING FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS 110. 150. OCCUR. ACING 4 EXISTING WELL ROAD O PCING TARGA/ MAXWELL DETAIL SKETCH 40 2772 ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ^{₩000}5 ARE TO UTILIZED DOWNSLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE. REF RECEIVED Office of Oil and Gas EATO REF MAY 3 U 2014 TEMPORARY SEED AND WORLD ALL SLOPES UPON WORKSTBYDEEN THE TOTAL OF AND SURVEYII P.O. BOX 681 GRANTSVILLE, WV 26147 Environmental Protection (304) 354-0065 angleright@frontiernet.net 080450 03/24/2014 t.

WW9

TARGA/MAXWELL WELL NO. 19

PAGE OF

