



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

Friday, January 25, 2019
WELL WORK PERMIT
Vertical / Plugging

VIKING INTERNATIONAL RESOURCES CO. INC.
125 PUTNAM STREET
MARIETTA, OH 457500000

Re: Permit approval for 1
47-085-01234-00-00

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: 1
Farm Name: MILLER HEIRS
U.S. WELL NUMBER: 47-085-01234-00-00
Vertical Plugging
Date Issued: 1/25/2019

I

47-085-01234P

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B
Rev. 2/01

1) Date July 25, 2018
2) Operator's
Well No. Mayme Golden #1
3) API Well No. 47-085-01234

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil / Gas / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow

5) Location: Elevation 674 Watershed Little Kanawha
District Murphy County Ritchie Quadrangle Harrisville

6) Well Operator Viking International Resources 7) Designated Agent CEC - Tim Denicola
Address 125 Marietta Street Address 600 Marketplace Ave. Suite 2
Marietta, OH 45750 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified Name Michael Goff 9) Plugging Contractor
Address 3045499823 Name Hydrocarbon Well Services, Inc.
Address PO Box 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
Please see attached plugging prognosis

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Michael Goff

Date 11-15-18 RECEIVED
Office of Oil and Gas

JAN 18 2019

PLUGGING PROGNOSIS

Mayme Golden etal #1
 Ritchie Co. WV
 District, Murphy
 API # 47-085-01234

BY: Kevin Metz
 DATE : 4/9/18

CURRENT STATUS:

13" csg @ 20'
 10" csg @ 232'
 8 1/4" csg @ 765'
 6 5/8" csg @ 1559'

WELL RECORD INDICATES
 10" & 8 1/4" WERE NOT LEFT
 IN THE WELL. gwm 1/25/19

Elevation @ 674'

TD: 1749'

Fresh Water @ 25' Coal @ None Reported

Saltwater @ None Reported

Gas & Oil shows @ 1694'-1686', 1625'-1616', 1482'-1469'

1. Notify State Inspector, Michael Goff, 304-549-9823, 48 hrs. Prior to commencing operations.
2. Check TD w/wireline ^{349'}
3. TIH w/tbg to 1749', set ~~249'~~ ¹⁴⁰⁰ C1A cement plug from 1749' to ~~1500'~~. (Gas & Oil shows @) 1694'-1686', 1625'-1616')
4. TOOH w/tbg to ~~1400'~~ ^{1400'}. GEL HOLE FROM 1400' TO 700'.
5. TOOH w/tbg, Free point 6 5/8" csg, cut csg @ free point, TOOH w/csg.
6. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
~~TIH w/tbg to 1500' set 100' C1A cement plug from 1500' to 1400', (6 5/8" csg @ 1559' & Gas & Oil Show @ 1482'-1469').~~
~~TOOH w/tbg to 1400' gel hole 1400' to 1200'.~~
~~TOOH w/tbg to 1200', set 100' C1A cement plug 1200' to 1100'. (6 5/8" csg cut est 1150')~~
~~TOOH w/tbg to 1100' gel hole 1100' to 715'.~~
- 7 TOOH w/tbg, TO 800' SET 100' C1A CEMENT PLUG FROM 800'-700'
~~Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.~~
~~TOOH w/tbg to 715', set 100' C1A cement plug, 715' to 615'. (elevation @ 674')~~

MAG
 11-15-18

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 Office of Oil and Gas

JAN 18 2019

WV Department of
 Environmental Protection

8. TOOH w/tbg to 615' gel hole from 615' to 300'.
9. TOOH w/tbg to 300', set 300' C1A cement plug, 300' to 0'. (10" @ 232')
10. Erect monument with API#, Date plugged
11. Reclaim location and road to WV-DEP specifications.

M DG
11/15/18



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Harrisonville

WELL RECORD

Permit No. Rit#1234

Oil or Gas Well Comb.
(KIND)

Company Clyde Kelly
Address 1814 Spring St. Parkersburg, W.Va.
Farm Mayme Golden Et Al Acres 267
Location (waters) Hughes River
Well No. 1 Elev. 574
District Murphy County Ritchie
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Mayme Golden Et Al.
Address Bartley, West Va.
Drilling commenced May 18 1948
Drilling completed June 9
Date Shot From _____ To _____
With _____
Open Flow 150/10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 111,336 Cu. Ft.
Rock Pressure 350 lbs. 24 hrs.
Oil 5 1/2 bbls. 1st 24 hrs.
Fresh water 25 feet
Salt water _____ feet

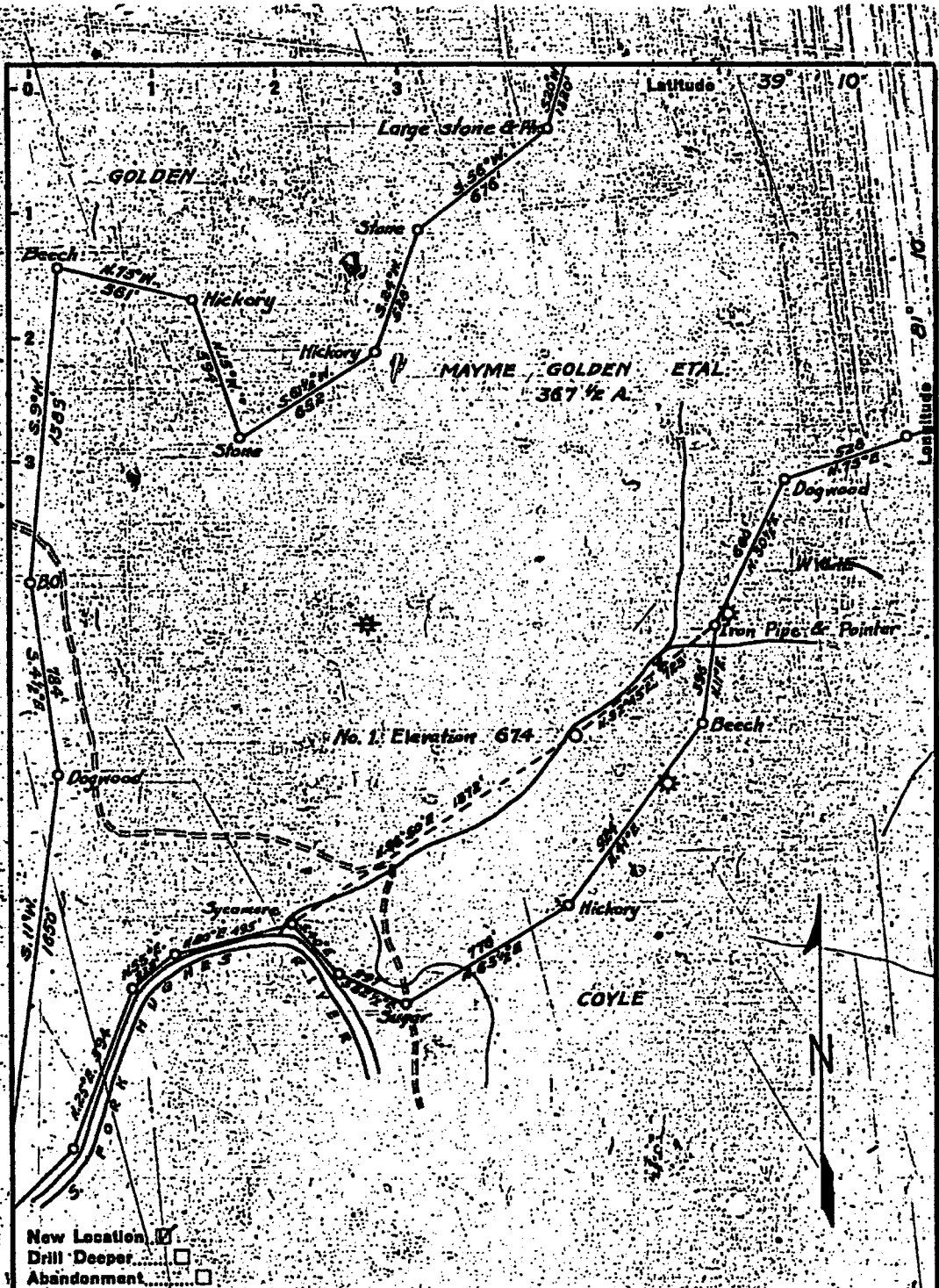
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18	20	20	
10	232		Size of
8 1/2	765		
6 1/2	1559	1559	Depth set
			Perf. top
			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Unrecorded			0	530			
Sand			530	565			
Slate and lime shells			565	650			
Red Rock			650	670			
Slate			670	743			
Sand			743	758			
Flint			758	773			
Slate			773	830			
Lime			830	850			
Slate and shells			850	1005			
Sand			1005	1140			
Slate			1140	1170			
Sand			1170	1186			
Slate and shells			1186	1350			
Sand			1350	1392			
Dark lime			1392	1432			
Sand			1432	1516	Show of oil and gas	1469-1482	
Lime	GREENBRIAR		1516	1590	Oil and Gas	1616-1625	
Sand			1590	1733		1686-1694	
Total depth				1749			





Company	CLYDE KELLY
Address	PARKERSBURG, W. VA.
Farm	MAYME GOLDEN ETAL.
Tract	1/4 Sec. 6, Acres 367 1/2, Lease No.
Well (Farm) No.	1, Serial No.
Elevation (Spirit Level)	674
Quadrangle	HARRISVILLE
County	RITCHIE, District MURPHY
Engineer	B. F. RINEHART
Engineer's Registration No.	648
File No.	Drawing No. 666 C-R
Date	Mar. 22, 1948, Scale 1 in. = 500 ft.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Rit-1234

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES,
Charleston, W. Va.

COAL OPERATOR OR COAL OWNER	NAME OF WELL OPERATOR
ADDRESS	1814 Spring St., Parkersburg, W. Va.
COAL OPERATOR OR COAL OWNER	PROPOSED LOCATION
ADDRESS	Murphy District
OWNER OF MINERAL RIGHTS	Ritchie County
McDowell Co., West Va.	Well No. 1 39° 10' 21° 10'
ADDRESS	Hayme Goldin ETAL Farm

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 29th., 1948 made by Hayme Goldin to Clyde Kelly and recorded on the 9th. day of February, 1948 in the office of the County Clerk for said County in Book 77 page 482

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

Clyde Kelly
CLYDE KELLY

WELL OPERATOR
1814 Spring St.
CITY OR TOWN
Parkersburg, W
STATE
West Virginia



*Section 3 of said Code provides that objections be filed or be found by the department of mines, within said period of ten days from the receipt of this notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

WW-4A
Revised 6-07

1) Date: 07/25/2018
2) Operator's Well Number
Golden #1
3) API Well No.: 47 - 085 - 01234

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Ecosystems Investment</u>	Name <u>None</u>
Address <u>Partners III, LLC</u>	Address _____
<u>5550 Newbury St. Suite B</u>	_____
(b) Name <u>Baltimore, MD 21209</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Mayme Golden</u>
_____	Address <u>124 Harcourt Dr.</u>
(c) Name _____	<u>Akron, OH 44313-6509</u>
Address _____	Name <u>Kelly Land & Mineral & Lyndall V. <i>Coal Owner</i></u>
_____	Address <u>2009 Oakwood Trail</u>
6) Inspector <u>Michael Goff</u>	<u>College State, TX 77840-5633</u>
Address _____	(c) Coal Lessee with Declaration
_____	Name <u>None</u>
Telephone <u>304-549-9823</u>	Address _____
_____	_____

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat 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 mailing or delivery to the Chief.



Well Operator Viking International Resources Company, Inc.
 By: *Mark Hana*
 Its: Manager - Operations
 Address 125 Putnam Street
Marietta, OH 45750
 Telephone _____

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Office of Oil and Gas
JAN 18 2019
WV Department of Environmental Protection

Subscribed and sworn before me this 15th day of August, 2018
Pamela K. Nicholson Notary Public
 My Commission Expires 8-5-2020

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 normal 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. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SURFACE OWNER WAIVER

Operator's Well
Number

4708501234

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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

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 FIVE (5) 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.

Comments must be in writing. 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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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 PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name <u>Troy Anderson</u>	_____
Signature		By <u>Asst Director of</u>	_____
		Its <u>operations</u>	Date _____

Signature

Date

[Handwritten Signature]

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JAN 18 2019

WW-4B

API No. 4708501234
Farm Name Golden
Well No. Mayme Golden #1

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____ / owner X / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 10/1/2018

By: Kelly Land + Mineral
Robert A. Stock
Its Agent

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Office of Oil and Gas
JAN 18 2019
WV Department of
Environmental Protection

47-085-01234P

WW-9
(5/16)

API Number 47 - 085 .01234
Operator's Well No. Golden #1

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Viking International Resources Company, Inc. OP Code _____

Watershed (HUC 10) Little Kanawha Quadrangle Harrisville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: n/a

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Mike Horan

Company Official (Typed Name) Mike Horan

Company Official Title Manager - Operations

Subscribed and sworn before me this 15th day of August, 20 18

Pamela K Nicholson

My commission expires 8-9-2020



Notary Public
Pamela K. Nicholson, Notary Public
Notary for the State of Ohio
My Commission Expires 8-9-20

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JAN 18 2019

WV Department of Environmental Protection

Proposed Revegetation Treatment: Acres Disturbed less than 5 Prevegetation pH unknown

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	40	Fescue	40
Landino Clover	5	Landino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

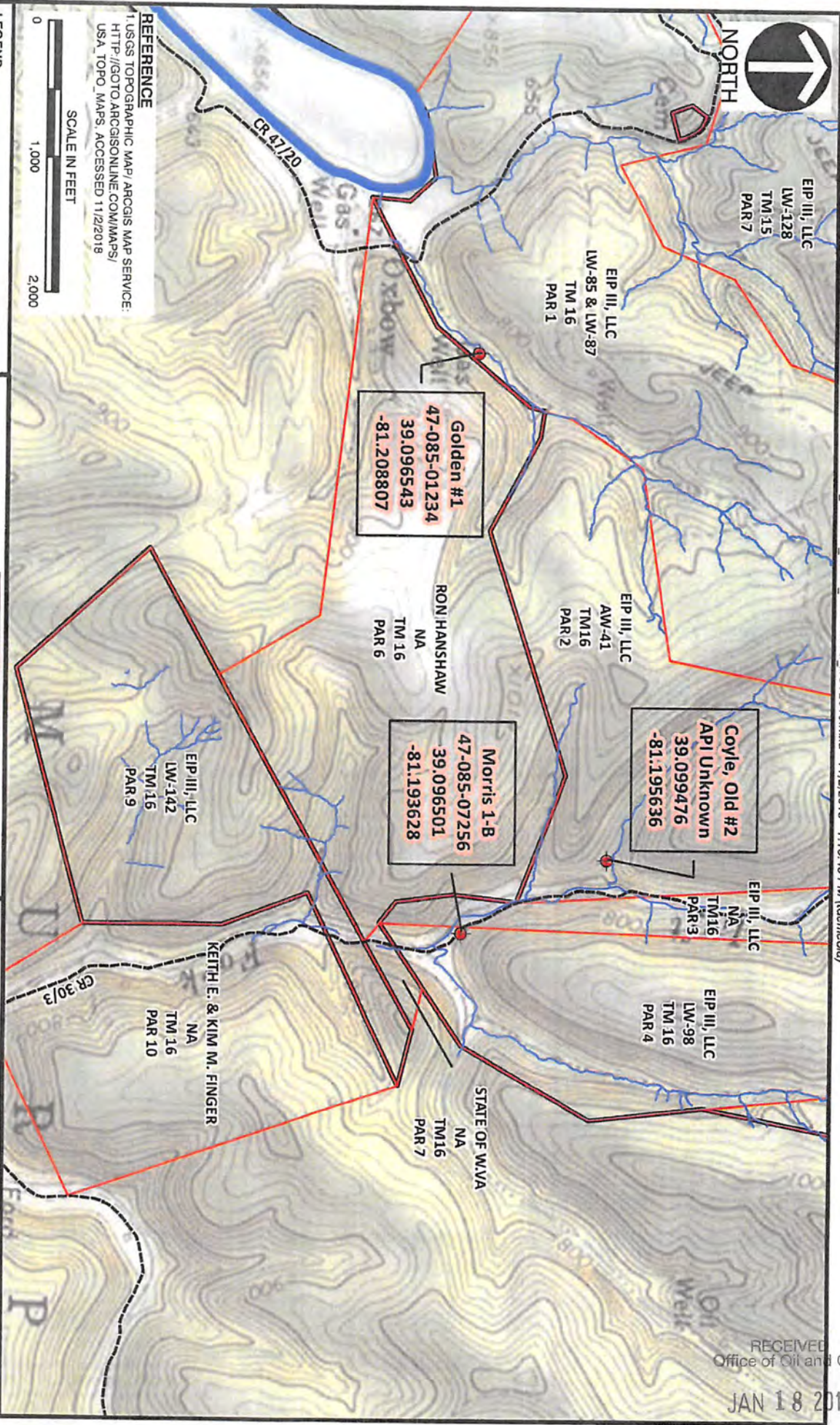
Plan Approved by: Michael Goff

Comments: Reclaim any disturbed areas

Title: Oil & Gas Inspector Date: 11-15-18

Field Reviewed? Yes No

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WV Department of
Environmental Protection



REFERENCE
 1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
 HTTP://GOTO.ARCGISONLINE.COM/MAPS/
 USA_TOPO_MAPS, ACCESSED 11/2/2018

- LEGEND**
- WELLS (TO BE PLUGGED)
 - COUNTY ROUTE (UNIMPROVED)
 - STREAMS
 - SOUTH FORK HUGHES RIVER
 - PROPERTY OWNERS
 - PROJECT BOUNDARY



Civil & Environmental Consultants, Inc.
 600 Marketplace Avenue, Suite 200 - Bridgeport, WV 26330-9121
 Ph: 304-933-3119 · Toll: 855-488-9539 · Fax: 304-933-3327
 www.ceecinc.com

EIP III CREDIT CO., LLC
 OXBOW MITIGATION BANK
 RITCHIE COUNTY, WEST VIRGINIA
WELL PLUGGING

DRAWN BY:	TAD	CHECKED BY:	MKD	APPROVED BY:	NSO	FIGURE NO.:	-
DATE:	11/02/2018	SCALE:	1" = 1,000'	PROJECT NO.:	161-250.020		

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 JAN 18 2019

161-250.020

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 4708501234 WELL NO.: Golden #1
FARM NAME: Mayme Golden
RESPONSIBLE PARTY NAME: Viking International Resources Company, Inc.
COUNTY: Ritchie DISTRICT: Murphy
QUADRANGLE: Harrisville
SURFACE OWNER: Ecosystems Investment Partners III, LLC
ROYALTY OWNER: Mayme Golden and Kelly Land & Mineral & Lyndall V.
UTM GPS NORTHING: 4327510.9
UTM GPS EASTING: 481943.62 GPS ELEVATION: 647 674'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

ML Hua Signature Manager-Operations Title 8/15/18 Date

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Office of Oil and Gas

JAN 18 2019