



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

Monday, December 14, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging


VIKING INTERNATIONAL RESOURCES CO., INC.
125 PUTNAM STREET
MARIETTA, OH 45750

Re: Permit approval for 7
47-085-00614-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 7
Farm Name: NUTTER, M. B.
U.S. WELL NUMBER: 47-085-00614-00-00
Vertical Plugging
Date Issued: 12/14/2020

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B
Rev. 2/01

- 1) Date September 22, 2020
- 2) Operator's
Well No. Nutter, M.B. #7
- 3) API Well No. 47-085 - 00614

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 X / Gas ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 846' GL Watershed _____
District Clay County Ritchie Quadrangle Pullman

6) Well Operator VIRCO 7) Designated Agent Will Harless
Address 125 Putnam Street Address 184 Links Way
MARIETTA, OHIO 45750 Ripley, WV 25271

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Michael Goff Name Unknown
Address 1723 Auburn Road Address _____
Pullman, WV 26421

10) Work Order: The work order for the manner of plugging this well is as follows:
(See Attachment)

RECEIVED
Office of Oil and Gas
OCT 01 2020
WV Department of
Environmental Protection

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 9-29-20

Plug to Abandon Procedure

Well Name: M.B. Nutter #7
API : 47-085-00614

Well Casing Record:

- 10"- 126 ft. Pulled
- 8 ¼"- 840 ft. Pulled
- 6 5/8"- 1220 ft. Left in well
- 2"- 1647 ft.
- TD: 1647 ft.

1) MIRU plugging rig and support equipment.

2) Pull sucker rods and tubing if present in well. Check TD with cable tools.

Note: If TD is significantly shallower or deeper than reported depth notify WVDEP inspector.

3) TIH with tubing and set bottom cement plug from TD – 1500 ft.

5% GEL

1647' (MINIMUM 100' CLASS A CEMENT PLUG)

4) TOOH with tubing to 1250 ft. Pump cement plug from 1250 ft – 1150 ft. TOOH with tubing above cement top and WOC. Tag cement top at 1150 ft. Reset plug if needed. **NOTE: 6% gel will be placed in wellbore between all cement plugs**

5) TOOH with tubing. Find free point of intermediate casing and rip/cut casing (estimate free point at 700 ft.- 800 ft.) and pull a few joints of casing.

6) TIH with tubing and set cement plug from 850 ft. – 750 ft. across the casing cut. TOOH with tubing. Pull remaining 6 5/8" casing.

7) TIH with tubing to 500 ft. Set cement plug from 500 ft. – 400 ft. TOOH with tubing to 100 ft. Pump cement plug from 100 ft. – surface.

8) Top off cement if needed and erect monument with ID #

9) RDMO plugging equipment and reclaim to WVDEP requirements.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. Ret 414 Oil or Gas Well oil

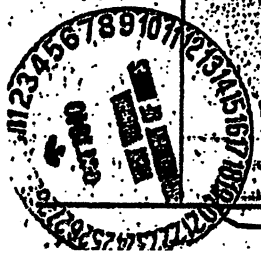
Company W. B. Nettles
 Address 121-125 Park Ave. S.W.
 Farm W. B. Nettles Area 4.26
 Location (waters) Hughes River
 Well No. 7 Elev. 215
 District Clay County Putnam
 The surface of tract is owned in fee by W. B. Nettles
Greenwood Address 119 No
 Mineral rights are owned by W. B. Nettles
Greenwood Address 119 No
 Drilling commenced Sept 7 - 1937
 Drilling completed Oct 21 - 1937
 Date shot None Depth of shot _____
 Open Flow 10ths Water in _____ Inch
10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs.
 Oil 3 Bbl _____ bbls. 1st 24 hrs.
 Fresh water None _____ feet
 Salt water None _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
8 1/2"			
10"	126 ft		Kind of Packers <u>Buttack Pack</u>
8 1/2"	840 ft		Size of <u>6.75 x 2 1/4</u>
6 1/2"	1220 ft, 1250 ft		Depth set
5 3/8"			
3"			Perf. top
2"	1647	1647	Perf. bottom
Lines Used			Perf. top
			Perf. bottom

CASING CEMENTED	SIZE	No. Ft.	Date

COAL WAS ENCOUNTERED AT	FEET	INCHES

Formation	Color	Hard or Soft	Top	Bottom	OIL or WATER	Depth Found	Remarks
Sand	Grey	Hard	175	200			
Coal Blk	Black	soft	160	175			
Dumka	red		918	936			
tan sand	Brown		960	1000			
1st Saltine	white		1215	1245			
2 " "			1280	1360			
3 " "			1500	1518			
Step sand	Brown	Hard	1575	1600			
Wagon sand		medium	1615	1646	1623 to 1629		3 Bbl
		<u>Buttack hole</u>		1647			



Form OC-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Handwritten: Hallmark

Handwritten: B.P.

Quadrangle _____

Permit No. Rit 614 D **WELL RECORD** Oil or Gas Well _____

Company Charles E. Young

Address 883 Valley View Road Pgh 16 Pa

Farm M. B. Nutter Acres _____

Location (waters) Cabin Run

Well No. 7 Elev _____

District _____ County WV

The surface of tract is owned in fee by Nutter Heirs

Address _____

Mineral rights are owned by Same

Address _____

Drilling commenced Oct 1960

Drilling completed Nov 1960

Date Shot _____ From _____ To _____

With _____

Open Flow 1/10ths Water in _____ Inch

1/10ths Merc. in _____ Inch

Volume NONE Cu. Ft. _____

Rock Pressure _____ lbs _____ hrs

Oil _____ bbls., 1st 24 hrs _____

WELL ACIDIZED No

WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
12			
10			Size of _____
8 1/2			
6 1/2			Depth set _____
5 3/16			
3			Perf. top _____
2			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

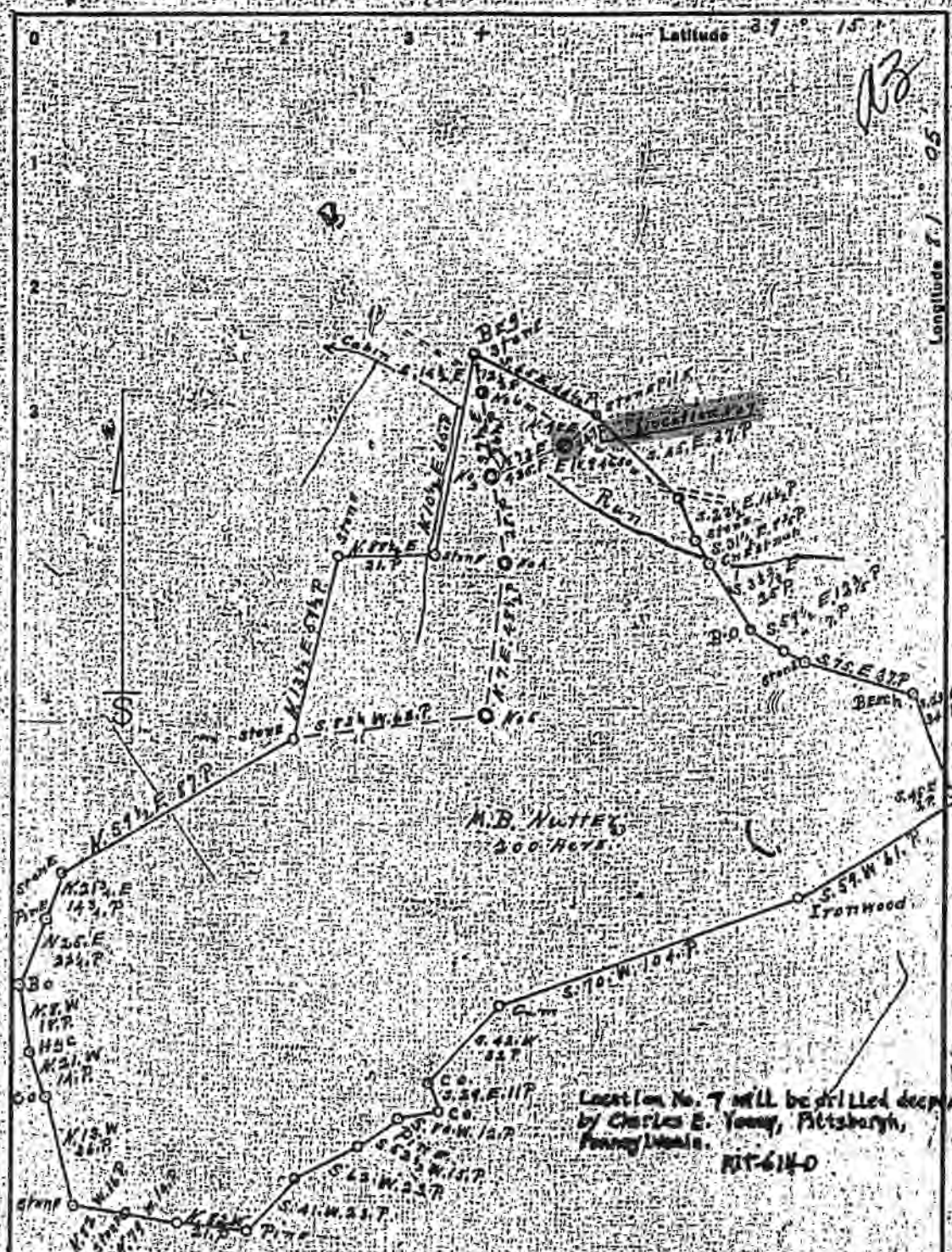
RESULT AFTER TREATMENT Dry in Injun sand. No treatment

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<p>WELL DRILLED DOWN FROM MAXIN SAND THROUGH THE INJUN SAND, WHICH WAS COMPLETELY UNPRODUCTIVE OF EITHER GAS OR OIL. WELL WAS THEN BACK FILLED TO MAXIN, WHERE IT MADE A LITTLE OIL.</p>							





Company CLEO F. MCBURNEY
 Address W. H. Stevens, Pennsboro, W. Va.
 Farm M. B. Nutt
 Tract 2 Acres 200 Lease No. —
 Well (Farm) No. SEVEN Serial No. —
 Elevation (Spirit Level) 945.50
 Quadrangle Halbrook
 County Ritchie District Clay
 Engineer D. G. McGREGOR
 Engineer's Registration No. C. S. R. C.
 File No. — Drawing No. —
 Date SEPT. 24 1937 Scale 1" = 40 FEET

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

WELL LOCATION MAP
 FILE NO. RIT-614

† 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 space on border line of original tracing.

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL
(REQUIRED BY SECTION 2, CHAPTER 80, ACTS 1920)
WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS SECTION

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

M. B. Nutter
COAL OPERATOR OR COAL OWNER
Greenwood, Rout, W. Va.
ADDRESS

Glen F. McBurney
NAME OF WELL OPERATOR
1201 Berkshire, Ave.
Pittsburgh, Pa.
COMPLETE ADDRESS

Sept. 24 1937
PROPOSED LOCATION

Clay District

Ritchie County

Well No. 7 81° 50' 2000

M. B. Nutter 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 Nov. 28

1936 made by M. B. Nutter to

Glen F. McBurney and recorded on the 2nd day

of Dec, 1936 in the office of the County Clerk for said County in

Lease Book 65 page 594

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 Act, 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,

Please send permit to W. H. Stephens
Pennsboro, N. C.

Glen F. McBurney
WELL OPERATOR
1201 Berkshire Ave
STREET
Pittsburgh
CITY OR TOWN
Pa
STATE



Address of Well Operator

*Section 3 of said Act. If no such objections be filed, or be found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, in 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.



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.

<u>NONE</u> COAL OPERATOR OR COAL OWNER	<u>CHARLES E. YOUNG</u> NAME OF WELL OPERATOR
<u>ADDRESS</u>	<u>*883 VALLEY VIEW ROAD,</u>
<u>COAL OPERATOR OR COAL OWNER</u>	<u>PITTSBURGH (16) PA</u> Oct. 22, 1960
<u>ADDRESS</u>	<u>PROPOSED LOCATION</u>
<u>OWNER OF MINERAL RIGHTS</u>	<u>Grant(?)</u> District
<u>ADDRESS</u>	<u>Ritchie</u> County
<u>ADDRESS</u>	Well No. <u>39° 15'</u> <u>7-81° 50' E 145.50</u>
<u>ADDRESS</u>	<u>M. B. Nutter</u> Farm
	<u>20+ acres</u>

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 NOV. 28, 1934

made by M. B. Nutter et ux to Glenn F. McBurney and by him assigned the assignment and recorded on the 15th day of January 1934 in the office of the County Clerk for said County in

Book 65, page 594. Permit to deepen well No. 7 is hereby requested.

The enclosed plat is now on file. 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 9 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 mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours

Charles E. Young
WELL OPERATOR

883 Valley View Road, Pittsburgh 16 Pa

(Address of Well Operator)

STREET

CITY OR TOWN

STATE



If no such objections be filed or be found by the department of mines, within said period of ten days from the receipt of said 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 thereby by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

RIT-614-D PERMIT NUMBER

RIT-614-D

M.B. Nutter #7



Select County: (085) Ritchie Select datatypes: (Check All)
 Enter Permit: 00614
 Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Stm Hole Loc

Get Data Reset

Table Descriptions
 Results Code/Trans/Notes
 Permit/Assignment/Status
 Measure/Status
 Complete/Incomplete
 Ordinance
 W/O/S/E Maps
 Grid/Map/Sect/View

WV Geological & Economic Survey:

Well: County = 85 Permit = 00614

Report Time: Friday, October 23, 2020 9:01:35 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_T5	QUAD_T5	LAT_DD	LONG_DD	UTME	UTMN
4708500614	Ritchie	614	Chav	Pullman	Holbrook	38.249738	-80.902403	508421.3	4344500.7

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE_NUM	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VQ	PROP_TRGT_FM	TFM_EST_PR
4708500614	10/1/1937	Original Loc	Completed	M.B. Nutter						McBuney, Stan F				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FWT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TYD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT
4708500614	10/1/1937	NA	845	Ground Level	Benson Run/Maxton	Maxton		Development Well	Development Well	Oil	U2/McDon	NW/Coen	N21847/88		1547		0	0		0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708500614	10/1/1937	Pay	Oil	Vertical			1529	Maxton	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708500614	Ritchie Petroleum Corp., Inc.	1991													
4708500614	Ritchie Petroleum Corp., Inc.	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Ritchie Petroleum Corp., Inc.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Ritchie Petroleum Corp., Inc.	1994													
4708500614	Night Owl Well Service	1994													
4708500614	Night Owl Well Service	1995													
4708500614	Night Owl Well Service	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2010	3	0	0	0	1	0	0	0	0	0	1	0	1
4708500614	Viking International Resources Co., Inc.	2011	16	3	1	1	0	1	1	3	1	1	1	2	2
4708500614	Viking International Resources Co., Inc.	2012	13	1	1	1	2	2	1	3	0	0	2	0	0
4708500614	Viking International Resources Co., Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2016	60	5	5	5	5	5	5	5	5	5	5	5	5
4708500614	Viking International Resources Co., Inc.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708500614	Ritchie Petroleum Corp., Inc.	1991	31			14				27					
4708500614	Ritchie Petroleum Corp., Inc.	1992	41	0	0	13	0	0	14	0	0	0	0	14	0
4708500614	Ritchie Petroleum Corp., Inc.	1993	41	13	0	0	0	14	0	0	0	0	0	13	0
4708500614	Ritchie Petroleum Corp., Inc.	1994	13				13								
4708500614	Night Owl Well Service	1994	7												7
4708500614	Night Owl Well Service	1995	2	1	1										
4708500614	Night Owl Well Service	1996	4	1	1	1	1	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Night Owl Well Service	1999	6	0	0	0	0	0	0	0	0	0	0	0	6
4708500614	Night Owl Well Service	2001	12	1	1	1	1	1	1	1	1	1	1	1	1
4708500614	Night Owl Well Service	2002	36	3	3	3	3	3	3	3	3	3	3	3	3
4708500614	Night Owl Well Service	2003	15	0	0	0	0	0	0	0	0	0	0	0	15
4708500614	Night Owl Well Service	2004	48	0	0	0	0	0	0	0	0	0	0	0	48
4708500614	Viking International Resources Co., Inc.	2010	41	0	0	0	0	45	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2011	25	0	25	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2016	0												
4708500614	Viking International Resources Co., Inc.	2017	0												
4708500614	Viking International Resources Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708500614	Viking International Resources Co., Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4708500614	Viking International Resources Co., Inc.	2016	0												
4708500614	Viking International Resources Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4708500614	Viking International Resources Co., Inc.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708500614	Original Log	CSM Drillers Pick	Reasonable	465	Reasonable	15	Reasonable	845	Ground Level
4708500614	Original Log	CSM Drillers Pick	Reasonable	300	Reasonable	40	Reasonable	845	Ground Level
4708500614	Original Log	CSM Drillers Pick	Reasonable	1215	Reasonable	30	Reasonable	845	Ground Level
4708500614	Original Log	CSM Drillers Pick	Reasonable	1250	Reasonable	00	Reasonable	845	Ground Level
4708500614	Original Log	CSM Drillers Pick	Reasonable	1800	Reasonable	18	Reasonable	845	Ground Level
4708500614	Original Log	CSM Drillers Pick	Reasonable	1845	Reasonable	33	Reasonable	845	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

WW-4A
Revised 6-07

1) Date: September 22, 2020
2) Operator's Well Number
Nutter, M.B. #7
3) API Well No.: 47 - 085 - 00614

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: (a) Name William Shafer Clark & Susan Gayle Clark, Address 1876 Cabin Run Road, Pennsboro, WV 26415. 5) (a) Coal Operator Name N/A, Address. (b) Coal Owner(s) with Declaration Name N/A, Address. (c) Coal Lessee with Declaration Name N/A, Address. 6) Inspector Michael Goff, Address 1723 Auburn Road, Pullman, WV 26421, Telephone.

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 VIRCO
By: Bruce Carpenter (Signature)
Its: Senior Manager, Environmental, Health, Safety & Regulatory
Address: 125 Putnam Street, MARIETTA, OHIO 45750
Telephone: 740-868-1324

Commonwealth of Pennsylvania - Notary Seal
Angela L. Knepp, Notary Public
Centre County
My commission expires January 23, 2022
Commission number 1281314
Member, Pennsylvania Association of Notaries

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OCT 02 2020
WV Department of Environmental Protection

Subscribed and sworn before me this 22 day of September 2020
Angela L. Knepp (Signature) Notary Public
My Commission Expires 01/23/2022

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.

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE
Pennsboro, WV 26415

Certified Mail Fee \$3.55
Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$0.00
 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$0.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$0.00

Postage \$0.70
Total Postage at \$7.10

Sent To
Street and Apt. #
City, State, ZIP+4
William S. & Susan G. Clark
1876 Corbin Run Road
Pennsboro, WV 26415



7019 2280 0001 0100 5581

47-085-00614P

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

Operator Name VIRCO OP Code _____

Watershed (HUC 10) _____ Quadrangle Pullman

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 OFFSITE LANDFILL (SEE BELOW))

Will closed loop system be used? If so, describe: All flowback materials will be contained in open top pit.

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) N/A

-Landfill or offsite name/permit number? Fluids will be disposed by contractor/operator at Mud Masters, LLC: See Attachments.

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 Bruce Carpenter

Company Official (Typed Name) Bruce Carpenter

Company Official Title Senior Manager, Environmental, Health, Safety & Regulatory

Commonwealth of Pennsylvania - Notary Seal
Angela L. Knepp, Notary Public
Centre County
My commission expires January 23, 2022
Commission number 1281314
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 22 day of September, 2020

Angela L Knepp Notary Public

My commission expires 01/23/2022

Proposed Revegetation Treatment: Acres Disturbed ONE Prevegetation pH 5.5

Lime Two Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 50 Bales 2.5 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Orchard Grass 30%

Rye(annual @BT) 35%

Timothy (Climax) 25%

Clover (Med.Red) 10%

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 Doff

Comments: Preseed & mulch any disturbed areas.

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Title: Oil & Gas Inspector Date: 9-29-20

Field Reviewed? Yes No

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

Operator Name: VIRCO
Watershed (HUC 10): _____ Quad: Pullman
Farm Name: William Shafer Clark & Susan Gayle Clark

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Plug to abandon operations.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Containment will be in place around the well. And a portable pit will be used for fluids.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

N/A

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste materials will be used for the deicing of area or equipment. And waste materials if any will not be used for material fill on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

Spill protection training given to every employee. Spill kits and containment are on each work site.

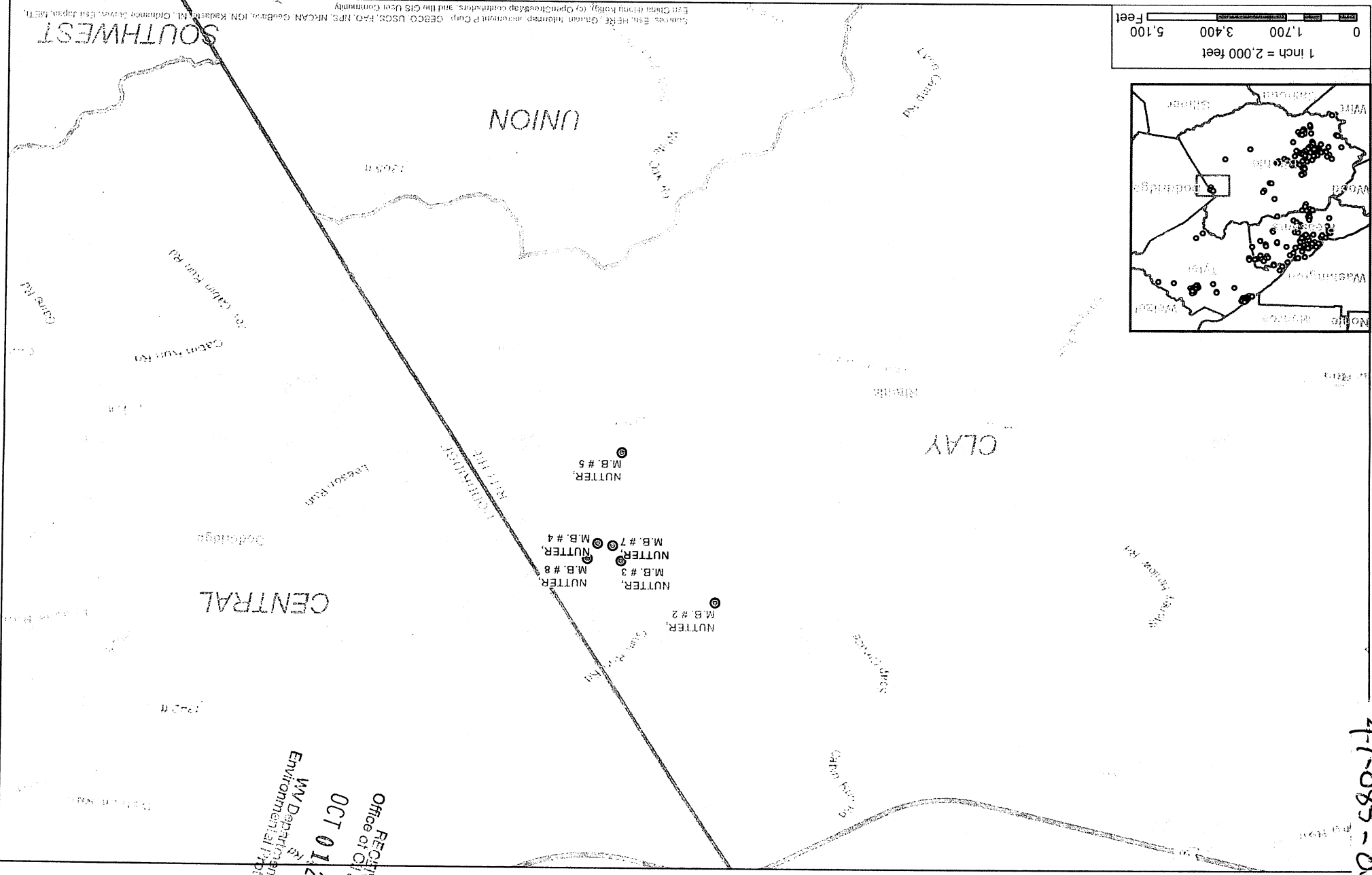
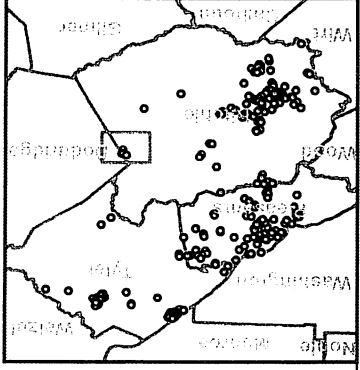
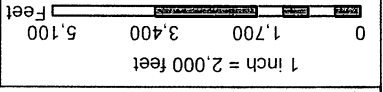
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Inspections are done before during operations by designated employees.

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Signature: Angela Knepp

Date: 09/22/2020



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47-085-06149

47-085-00614 P

WW-7
8-30-06



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

API: 47-085-00614 WELL NO.: 7

FARM NAME: Nutter, M.B.

RESPONSIBLE PARTY NAME: VIRCO

COUNTY: Ritchie DISTRICT: Clay

QUADRANGLE: Pullman

SURFACE OWNER: William Shafer Clark & Susan Gayle Clark

ROYALTY OWNER: _____

UTM GPS NORTHING: 4344500.7000

UTM GPS EASTING: 508421.300 GPS ELEVATION: 846'

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.

Bruce Carpenter
Signature

Sr. Manager, ESHR
Title

09/22/2020
Date

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11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- 12/10/20
- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

Rec. Date 10/2/20

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