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**west virginia** department of environmental protection

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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

November 19, 2014

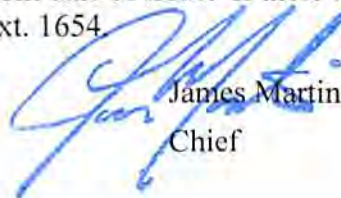
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501178, issued to MURVIN & MEIER OIL CO., 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.

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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: 12  
Farm Name: ELK RIVER COAL & LUMBER  
**API Well Number: 47-1501178**  
**Permit Type: Plugging**  
Date Issued: 11/19/2014

**Promoting a healthy environment.**

**11/21/2014**

# 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

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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.

WV-4B  
Rev. 2/01

1) Date 10 - 1 1420  
2) Operator's Well No 12  
3) API Well No. 37-15-1178

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

5) Location: Elevation 1082' Watershed Lilly Fork  
District Henry County Clay Quadrangle Summersville

6) Well Operator Murvin & Murvin Oil Corp. 7) Designated Agent P. Nathan Bowles Jr.  
Address Box 297 Address P.O. Box 1326  
Olney Ill Charleston WV 25235

8) Oil and Gas Inspector to be notified Name Eddie Gainer  
Address P.O. Box 821  
Spencer WV. 25276  
9) Plugging Contractor Name Duckworth Well Service  
Address P.O. Box 6871  
Charleston WV

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

1680 - 1560  
Cement ~~1800'~~ 1700'  
Cement 1132' 1032' Cement 100' at esp cut  
Cement 274' Surface

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

Work order approved by inspector

Date

11/18/14  
**Received**

NOV 10 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection  
**11/21/2014**



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED

Location Summersville

Permit No. Clg 1178

Rotary  Oil \_\_\_\_\_  
 Cable \_\_\_\_\_ Gas   
 Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
 Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
 Disposal \_\_\_\_\_ (Kind)

Company MURVIN OIL CORP.  
 Address BOX 297, OLNEY ILL.  
 Farm ELK RIVER COAL & LUMBER Co. 4029  
 Location (waters) Lilly Fork  
 Well No. 12 Elev. 1082  
 District Henry County Clay  
 The surface of tract is owned in fee by ELK RIVER COAL & LUMBER CO.  
 Address \_\_\_\_\_  
 Mineral rights are owned by SAME  
 Address \_\_\_\_\_  
 Drilling Commenced 8/20/76  
 Drilling Completed 12/25/76  
 Initial open flow NT cu. ft. \_\_\_\_\_ bbls.  
 Final production 200M cu. ft. per day \_\_\_\_\_ bbls.  
 Well open \_\_\_\_\_ hrs. before test 600 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
13-10"			
9 5/8			
8 5/8	224	224	75 Sks
7			
5 1/2			
4 1/2		1800	100 Sks
3			
2			
Liners Used			

Well treatment details:

Frac 600 BBL Water 20M Sand

Attach copy of cementing record.

Coal was encountered at None Feet \_\_\_\_\_ Inches  
 Fresh water 20 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Blun Monday Depth 1612 1630

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
	Sand & Shale		Surface	1450		
	Sand		1450	1510		
	Shale		1510	1562		
	Sand		1562	1630		
	Shale		1630	1660		
	Big Lime		1660	1872		
	Shale		1872	1924 TD		
					Blue Monday	

Received

NOV 10 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection

(over)

\* Indicates Electric Log tops in the remarks section.

11/21/2014

FROM : DUCKWORTH WELL SERVICE

PHONE NO. : 304 343 7142  
304-343-7447

Oct. 22 2014 11:02AM P1

WV-64  
Revised 6-67

U Date: 10-7-14  
D Operator's Well Number: 12  
S API Well No.: 15-1178

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
BUREAU OF APPLICATIONS TO DRILL AND OPERATE A WELL

4) Surface Owner(s) - Hartwood Forest

(A) Name Hartwood Forest (B) Coal Operator WV Energy  
Address 999 Peachtree St. Address \_\_\_\_\_  
(C) Name Atlanta GA. 30309 (D) Coal Operator with Approval \_\_\_\_\_  
Address \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_

(E) Name \_\_\_\_\_ (F) Coal Lease with Operator's Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
Telephone 504-566-7142

TO THE PERSONS NAMED ABOVE:

- (1) The wellbore to Drill and Operate a Well on Form WV-64, which sets out the parties involved in the work and describes the well-log and the planning work order; and
- (2) The plan to develop a well showing the well location on Form WV-64.

The above you should have received from the applicant in accordance with the regulations in the Department of the Environment and Natural Resources.

This notice that under Chapter 20-2 of the West Virginia Code, the Department will accept or refuse to issue a permit to drill and operate a well only if the applicant has provided the information and documents required by the regulations in the Department of the Environment and Natural Resources, and the permit will not be issued or renewed until the applicant has provided the information and documents required by the regulations in the Department of the Environment and Natural Resources.

Well Operator Murvin E  
By: MURVIN OIL CORP  
Date: 10/22/14  
Address: PO Box 1286  
Telephone: Charleston, WV 25325

Submitted and sworn before me this 22 day of October, 2014  
My Commission Expires July 21, 2018  
Oil and Gas Registry Number \_\_\_\_\_  
*Rosely Parks*

The Office of Oil and Gas requires your personal information, such as name, address and phone number, as a part of the regulatory process. Your personal information may be disclosed to other State agencies or third parties for the official business of the State or in connection with the regulatory process. You are hereby notified that your personal information will be used for the purposes stated above and may be disclosed to other State agencies or third parties for the official business of the State or in connection with the regulatory process.

Seal!



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WV Dept. of Environmental Protection  
11/21/2014

7014 0150 0001 0882 4337

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<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>\$6.49</b>



Sent To Hartwood Forest Club  
 Street, Apt. No.,  
 or PO Box No. 999 Peachtree St.  
 City, State, ZIP+4 Atlanta Ga: 30309

PS Form 3800, August 2005 See Reverse for Instructions

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 NOV 10 2014  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection  
 11/21/2014

FROM : DUCKWORTH WELL SERVICE

PHONE NO. : 304 343 7142  
JUN-2008-CAS7

Oct. 22 2014 11:23AM R2

WW-9  
Rev. 501

API Number 47-15-1178  
Operator's Well No. 2

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

Operator Name Murvin Oil Corp. OF Code \_\_\_\_\_

Wellhead Lilly Fork Quadrange Summersville

Elevation 1082' County Clay District Henry

Description of anticipated Pit Waste: \_\_\_\_\_

Will a cyclone filter be used in the pit? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (LIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off-site Disposal (Supply Form WW-9 Separated location)
- Other (Specify \_\_\_\_\_)

*No Pit*

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Specify \_\_\_\_\_)
- Sealing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 or other applicable law or regulation may 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 fines or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) F Nathan Bowles Jr.

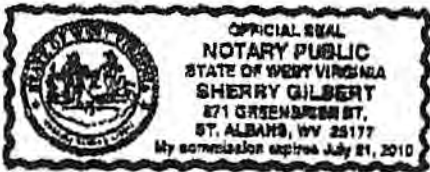
Company Official Title Agent

Subscribed and sworn before me this 23 day of Oct. 2014

[Signature] Notary Public

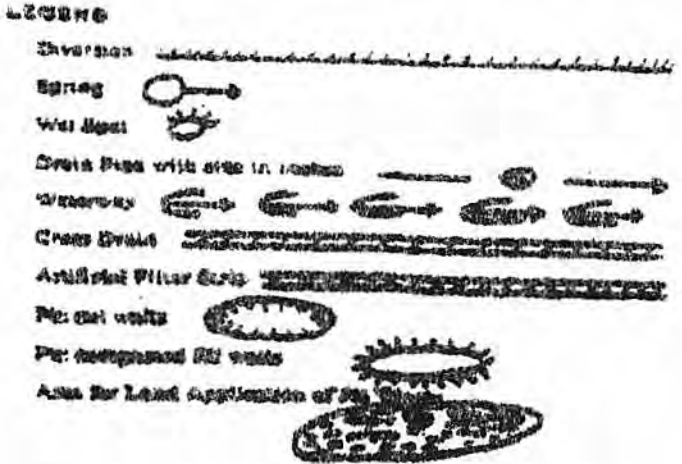
My commission expires July 21, 2018

Seal:



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NOV 1 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection  
11/21/2014



Proposed Revegetation Treatment: Area Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (18-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixture

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
<u>Contractors Mix</u>			

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopy of involved 7.5' topographic sheet

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

Title: Inspector

Date: 11/18/14

Field Reviewed?  Yes  No

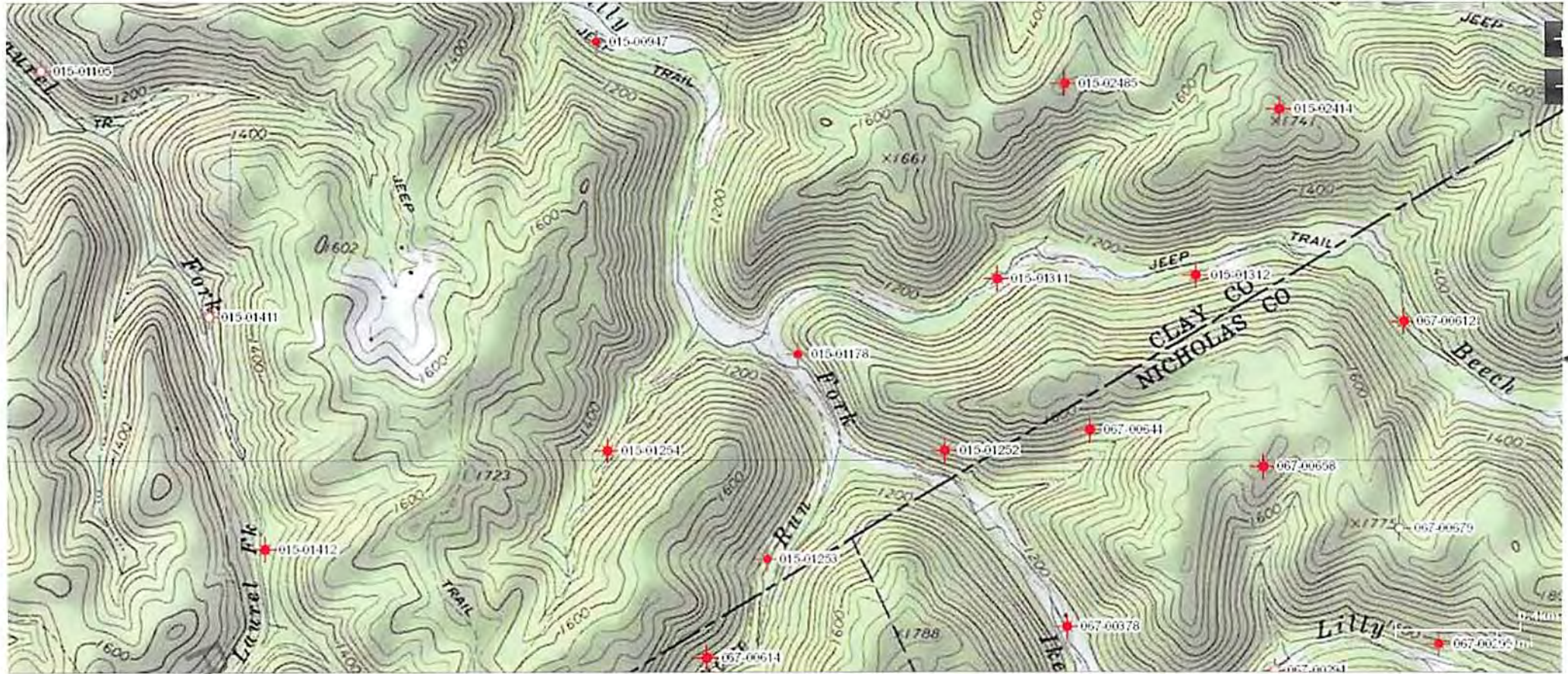
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NOV 19 2014

Office of Oil and Gas  
NY Dept. of Environmental Protection  
11/21/2014



47-015-01178



Received  
NOV 10 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection



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

API: 47-015-1178 WELL NO.: 12

FARM NAME: Elk River Coal & Lumber

RESPONSIBLE PARTY NAME: P. Nathan Bowles, Jr.

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Summersville

SURFACE OWNER: Elk River Coal & Lumber

ROYALTY OWNER: Elk River Coal & Lumber

UTM GPS NORTHING: 4248941

UTM GPS EASTING: 501857 GPS ELEVATION: 1082'

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.

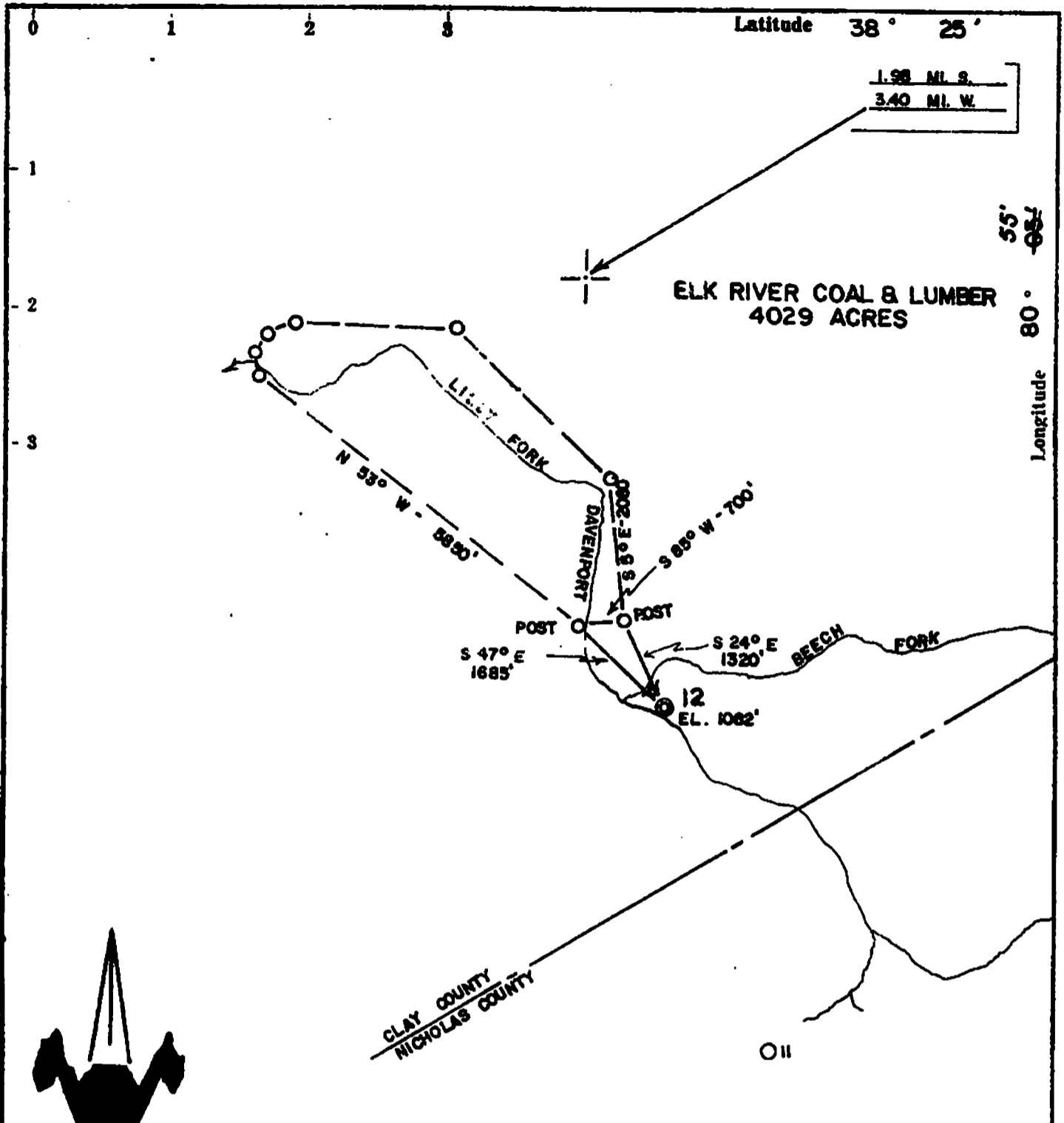
Steve H. Gresham, Contractor  
Signature Title

10-1-14  
Date

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Office of Oil and Gas  
Dept. of Environmental Protection  
10/21/2014

7, 1, 76 R



ACCURACY: 1', 200'

Source of Elevation OLD WELL (1015') CLAY 462

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

*Chet Waterman* 647

Company MURVIN OIL CORP.  
 Address OLNEY, ILL.  
 Farm ELK RIVER COAL & LUMBER CO.  
 Tract \_\_\_\_\_ Acres 4029 Lease No. \_\_\_\_\_  
 Well (Farm) No. 12 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1082'  
 Quadrangle SUMMERSVILLE  
 County CLAY District HENRY  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 76003-253 Drawing No. \_\_\_\_\_  
 Date 6/1/76 Scale 1" = 2000'

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

**WELL LOCATION MAP**

FILE NO. CLA-1178 11/21/2014

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.

47-015

Received  
 NOV 1 1976  
 WV Dept. of Environmental Protection

*2000' B.L. 1/4"*