



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

November 19, 2014

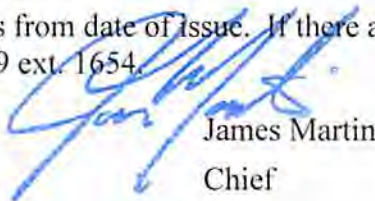
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502462, 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: ELK RIVER 63
Farm Name: PYXIS RESOURCES COMPANY
API Well Number: 47-1502462
Permit Type: Plugging
Date Issued: 11/19/2014

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

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.

KW-4B
Rev. 2/01

1) Date 10 - 17, 2014
2) Operator's Well No. 63
3) API Well No. 17-15 - 2462

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 1502' Watershed Lick Run
District Henry County Clay Quadrangle Summersville

6) Well Operator ^{Murvin &} Murvin Oil Co. 7) Designated Agent P Nathan Bowles Jr
Address P.O. Box 297 Address P.O. Box 1386
Olney IL. 62450 Charleston WV 26325

8) Oil and Gas Inspector to be notified Name Eddie Gainer
Address P.O. Box 1386
Charleston WV.
9) Plugging Contractor Name Duckworth Wekl Service
Address P.O. Box 6871
Charleston WV,

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

Cement ²³⁰⁰ ~~2310'~~ - ²²⁰⁰ ~~2210'~~
Cement ²⁰⁸⁰ ~~2080'~~ - ¹⁹⁷⁰ ~~1970'~~
Cement ^{155802'} -- ^{1402'} ~~1402'~~

Cement 1002' - 902'

Cement 100' - Surface

Gel between all plugs.

Pull all free pipe

Erect monument with API numbers.

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 18 2014

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

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: PYXIS RESOURCES COMPANY Operator Well No.: ELK RIVER 63

LOCATION: Elevation: 1502.00 Quadrangle: BUCKHANNON

District: HENRY County: CLAY
Latitude: 14810 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 10290 Feet West of 80 Deg. 55 Min. 0 Sec.


Company: MURVIN OIL CORP.
P. O. BOX 297
OLNEY, IL 62450-0000

Agent: P. NATHAN BOWLES, JR.

Inspector: HOMER DOUGHERTY
Permit Issued: 04/05/89
Well work Commenced: 8-19-89
Well work Completed: 9-22-89
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 2398
Fresh water depths (ft) 607, 400

Salt water depths (ft) 1202, 1715

Is coal being mined in area (Y/N)? N
Coal Depths (ft): See Well Log

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	952	952	312.7
4 1/2	2310	2310	153.4
			

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Injun Pay zone depth (ft) 2248 to 50'
 Gas: Initial open flow show MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation Blue Monday Pay zone depth (ft) 2030 to 20
 * Gas: Initial open flow show MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 169 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 * Static rock Pressure 525 psig (surface pressure) after 48 Hours
 * Commingled

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MURVIN OIL CORP.
By: Gayle Hill Vice-President
Date: October 2, 1989

CLAY 2462

Received
OCT 17 1989
DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

- 8-29-89: Perforated Injun 2248' to 2250' with three holes using hollow steel carrier.
- 9-19-89: Acidized Injun perforations with 1000 gals. 15% HCL. Perforated Blue Monday 2030' to 2036' (6holes) and 2040' to 2045' (5 holes) using strip shot. Foam fractured Blue Monday with 500 gals. 15% HC., 235 bbls. fluid, 45000 lbs. 20/40 sand, and 420 MSCF N₂.

WELL LOG:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sandy Shale	0	55
Shale	55	75
Sand	75	119
Sandy Shale	119	170
Coal	170	171
Sandy Shale	171	205
Coal	205	206
Sandy Shale	206	310
Coal	310	311
Shale	311	347
Coal	347	348
Shale	348	415
Sandy Shale	415	430
Sand	430	440
Shaly Sand	440	450
Shale	450	527
Coal	527	528
Sandy Shale	528	555
Shale	555	632
Sand	632	638
Shale	638	665
Coal	665	666
Sand	666	714
Coal	714	715
Sand	715	802
Coal	802	803
Sand	803	845

RECEIVED
OCT 06 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Received
OCT 14 2014

Office of Oil and Gas
NY Dept. of Environmental Protection

11/21/2014

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Coal	845	846
Shale	846	960
Sandy Shale	960	1000
Shale	1000	1010
Sand	1010	1040
Shale	1040	1184
Salt Sand	1184	1348
Shale	1348	1369
Salt Sand	1369	1433
Slate & Shells	1433	1497
Rosedale S.S.	1497	1599
Slate & Shells	1599	1664
Rosedale S.S.	1664	1795
Shale	1795	1856
Maxon	1856	1934
Shale	1934	1966
Lime	1966	2017
Blue Monday	2017	2052
Pencil Cave	2052	2082
Big Lime	2082	2238
Injun	2238	2298
Shale	2298	2398

0483

RECEIVED
OCT 06 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Received

Office of Oil and Gas
NY Dept. of Environmental Protection

11/21/2014

FW-4A
Revised 8-87

1) Date: 10 - 1 - 14
2) Operator's Well Number: 63
3) API Well No: 67 15 2462

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: Hartwood Forest
Address: 999 Peachtree St.
Atlanta GA, 30309

b) Name: _____
Address: _____

c) Name: _____
Address: _____

5) (a) Coal Operator
Name: LUMBER
Address: _____

(b) Coal Owner(s) With Decisions
Name: _____
Address: _____

(c) Coal Lessee with Decisions
Name: _____
Address: _____

6) Inspector
Name: Edie Gibson
Address: P.O. Box 821
Spencer WV 25926
Telephone: _____

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

- (1) The application to Plug and Abandon a Well on Form FW-4B, which sets out the parties involved in this work and describes the well to be plugged and abandoned with order; and
- (2) The State Inspector's map showing the well location on Form FW-4.

The intent you receive these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side of Form FW-4. You are not required to file any other form.

This notice that under Chapter 20-4 of the West Virginia Code, the underground well operator program in this or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Office of Oil and Gas, West Virginia Department of Environmental Protection, with copies to the well of the land as described on the attached Application and Application on the attached Form FW-4. Copies of this Notice, the Application, and the map have been mailed by registered or certified mail or delivered by hand to the persons named above (or by other means if such circumstances) on or before the day of mailing or delivery to the Chief

Well Operator: Murvin E. Morrison Oil Co.
By: [Signature]
Its: Agent
Address: P.O. Box 1385
Telephone: Charleston WV 25329

Subscribed and sworn before me this 26 day of October, 2014
[Signature] Notary Public
My Commission Expires July 21, 2015

Oil and Gas Proceeds Notice 301
The Office of Oil and Gas processes your proceeds for your well. Your proceeds information is processed as of provided to comply with various laws and regulations. If you have any questions, please contact O&G's Chief of



Received
10/22/2014
Office of Oil and Gas
WV Dept. of Environmental Protection
11/21/2014

7014 0150 0001 0882 4337

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

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OFFICIAL USE

Postage	\$	50.47
Certified Fee		13.30
Return Receipt Fee (Endorsement Required)		52.70
Restricted Delivery Fee (Endorsement Required)		40.00
Total Postage & Fees	\$	156.47



Sent To Hartwood Forest 17.466
 Street, Apt. No. 999 Peachtree St.
 or PO Box No. 999 Peachtree St.
 City, State, ZIP+4 Atlanta Ga. 30309

PS Form 3800, August 2005 See Reverse for Instructions



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

WV-9
Rev. 5/08

Page 15 of 2462
Operator's Well No. 53

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 & Murvin Oil Co. OF Code _____

Wellhead Lick Run Outcrop Summersville

Elevation 1502' County CLAY District Henry

Description of anticipated Pit Waste: _____

Will a synthetic liner be used in the pit? _____

Proposed Disposal Method For Treated Pit Waste:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Member _____)
- Off Site Disposal (Supply form W-10 for disposal location)
- Other (Specify _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Specify _____)
- Sealing
- Plugging

NO Pit

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2003, 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 regulations 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 fine or imprisonment.

Company Official Signature P Nathan Bowles JR.

Company Official (Typed Name) P Nathan Bowles JR.

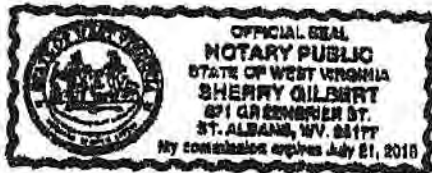
Company Official Title Agent

Subscribed and sworn before me this 23 day of October, 2014

Sherry Gilbert Notary Public

My commission expires July 21, 2018.

Seal:













Received

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

- Property Boundary 
- Road 
- Existing Fence 
- Planted Fence 
- Stream 
- Open Drain 
- Reels 
- North 
- Buildings 
- Water wells 
- Drill site 

LEGEND

- Diversion 
- Spring 
- Wet Spot 
- Drain Pipe with pipe in location 
- Waterway 
- Cross Drain 
- Artificial Filter Circle 
- Pit: not walls 
- Pit: completed fill walls 
- Area for Land Application of Pit 

Proposed Revegetation Treatment: Acres Disturbed 1 Revegetation pH _____

Lime 3 Tons/acre or to correct to pH _____

Fertilizer (10-20-20 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
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CONTROVERSIAL MIX

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

Micrograph section of involved 7.5' topographic sheet

Plan Approved by: _____

Comments: _____

Title: Inspector

Date: 11/18/14

Field Reviewed? Yes No

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Office of Oil and Gas
Environmental Protection
11/21/2014



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



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

API: 47-15-2462 WELL NO.: 63
FARM NAME: Elk Coal & Lumber
RESPONSIBLE PARTY NAME: P Nathan Bowles Jr.
COUNTY: Clay DISTRICT: Henry
QUADRANGLE: Summersville
SURFACE OWNER: Elk River Coal & Lumber Co.
ROYALTY OWNER: Elk Coal & Lumber Co.
UTM GPS NORTHING: 4252173
UTM GPS EASTING: 504167 GPS ELEVATION: 1502'

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.

Stephen Duckworth Contractor
Signature Title

10
Received
Date

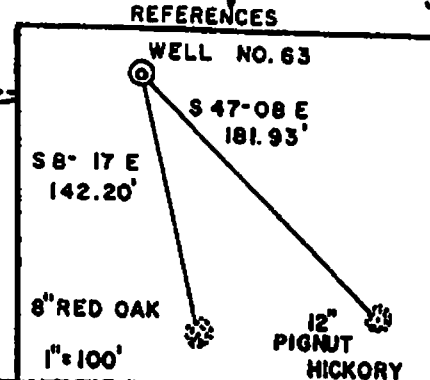
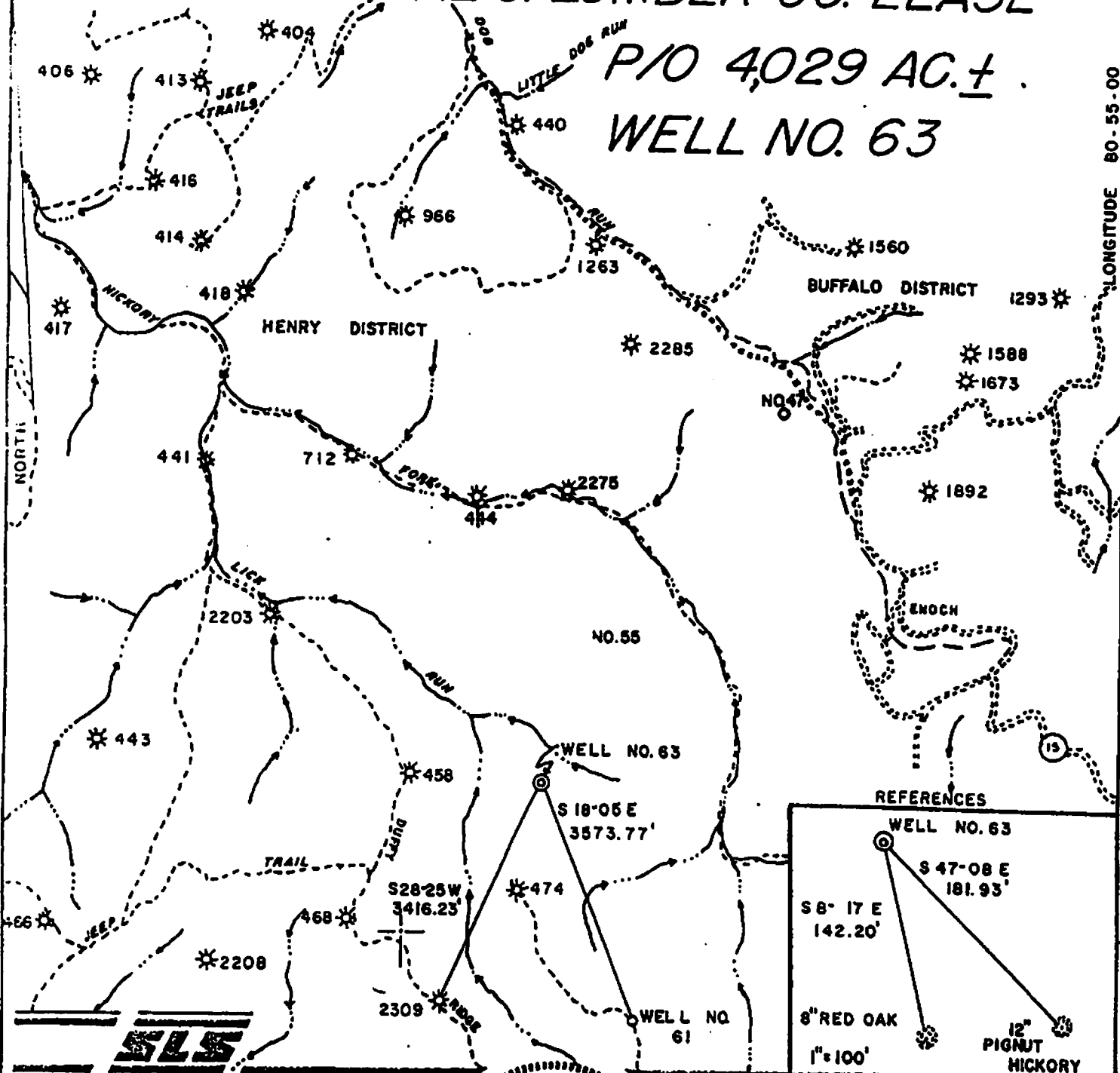
NOV 17 2004
11/21/04
Office of Oil and Gas
WV Dept. of Environmental Protection

Jimie 3/27/89

10,290' LATITUDE 38-27-30

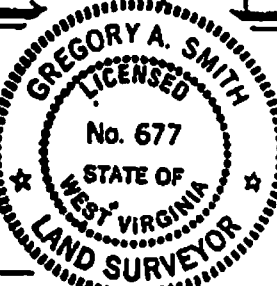
ELK RIVER COAL & LUMBER CO. LEASE

P/O 4,029 AC. ± WELL NO. 63



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.

L.L.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 14, 19 89
 OPERATORS WELL NO. 63
 API WELL NO. 47-015-2462
 STATE CLAY COUNTY CLAY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. (24-20) 1605
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1"=2000' ELEV. 1610'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1502' WATERSHED LICK RUN
 DISTRICT HENRY COUNTY CLAY QUADRANGLE SWANDALE 7.5'

SURFACE OWNER PEGASUS RESOURCES CO. ACREAGE 4029
 ROYALTY OWNER PINE MOUNTAIN OIL & GAS CO. LEASE ACREAGE 4029

PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OF OIL OR GAS FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OF OIL OR GAS FORMATION OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION IN JUNK ESTIMATED DEPTH 2475'

WELL OPERATOR MURVIN OIL CORP. DESIGNATED AGENT P NATHAN BOWLES, JR
 ADDRESS P.O. BOX 297, OLNEY, IL 62450 ADDRESS P.O. BOX 1386, CHARLESTON, WV 26325

LONGITUDE 80-55-00
14,810'

COUNTY NAME PERMIT