



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

August 21, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4103917, 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: J. R. JONES 1
Farm Name: U.S. ARMY CORP. OF ENG.
API Well Number: 47-4103917
Permit Type: Plugging
Date Issued: 08/21/2015

Promoting a healthy environment.

WW-4B
Rev. 2/01

1) Date July 28, 2015
2) Operator's Well No. J.R. Jones #1
3) API Well No. 47-41-03917

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 1256' Watershed _____
District Skin Creek County Lewis Quadrangle Ronoke
- 6) Well Operator Murvin & Meier Oil Co. Designated Agent P. Nathan Boles, Jr.
Address P.O. Box 396 Address 500 Quarrier Street
Olney, ILL. 62450 Charleston, W.V. 25301
- 8) Oil and Gas Inspector to be notified Name Barry Stollings
Address 28 Conifer Drive
Bridgeport, WV. 26330
- 9) Plugging Contractor Name Duckworth Well service
Address P. O. Box 6872
Charleston, WV. 25362

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

- Cement 4334' - 4334'
- Cement 2100' - 2000' Est. 4½ Casing Cut
- Cement 1386' - 1206' Elev.
- Cement 100' - 0'

Gel between all plugs.
Pull all free pipe.

Received

JUL 30 2015

Office of Oil and Gas
WV Dept. 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 Barry Stollings Date 7-30-15

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

Well Operator's Report of Well Work

Farm name: U.S. ARMY CORP. OF ENG. Operator Well No.: J.R. JONES 1

LOCATION: Elevation: 1256.00 Quadrangle: ROANOKE

District: SKIN CREEK County: LEWIS
Latitude: 10540 Feet South of 38 Deg. 57Min. 30 Sec.
Longitude 11030 Feet West of 80 Deg. 22 Min. 30 Sec.

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

Agent: P. NATHAN BOWLES, JR.

Inspector: STEVE CASEY
Permit Issued: 04/03/89
Well work Commenced: July 25, 1989
Well work Completed: _____
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 4539
Fresh water depths (ft) 70', 320'

Salt water depths (ft) 1901

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	737	737	306.8
4 1/2"	4478	4478	174.2

RECEIVED
SEP 08 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4377' to 4384'
Gas: Initial open flow show _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 119 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 960 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ 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

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: Gary Hill
MURVIN OIL CORP.
By: _____ Vice-President
Date: September 6, 1989

LEG 317

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JUL 30 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

8-22-89: Perforated Benson formation from 4377' to 4384' with 14 holes using hollow carrier gun.

8-29-89: Fractured Benson perfs with 500 gals. 15% HCL, to 35 BBLS water, 76 MSCF N₂, and 40,000 lbs 20/40 sand.

WELL LOG

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Top Soil	0	10
Red Rock	10	20
Shale	20	60
Sandy Shale	60	110
Shale	110	170
Sand	170	190
Shale	190	210
Sand	210	235
Shale	235	255
Red Rock	255	260
Shale	260	425
Red Rock	425	430
Shale	430	640
Sandy Shale	640	660
Shale	660	720
Sand	720	737
Shale	737	780
Sand	780	884
Shale	884	1007
Sandy Shale	1007	1109
Shale	1109	1195
Sand	1195	1292

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG (CONT.)

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Shale	1292	1386
Sand	1386	1410
Shale	1410	1524
Sandy Shale	1524	1607
Shale	1609	1638
Big Lime	1638	1754
Injun	1754	1830
Shale	1830	1923
Gantz	1923	2010
Shale	2010	2053
50 Foot Sand	2053	2067
Shale	2067	2254
4th Sand	2254	2288
Shale	2288	2384
5th Sand	2384	2418
Shale	2418	2752
Warren	2752	2805
Shale	2805	3072
Speechly	3072	3097
Shale	3097	3394
Balltown	3394	3427
Shale	3427	4366
Benson	4366	4409
Shale	4409	4539

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

LEW. 3917

TD

8457

WW-4A
Revised 6-07

1) Date: 7 - 28 - 15
2) Operator: Well Service
J. P. Jones #1
3) API Well No.: 47 - 03917

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	<u>U. S. ARMY CORP. of ENG.</u>	(b) (a) Coal Operator	_____
Address	<u>Real Estate Division</u>	Name	_____
	<u>1000 Liberty Avenue</u>	Address	_____
(b) Name	<u>Pittsburgh, Pennsylvania</u>	(c) Coal Owner(s) with Declaration	_____
Address	_____	Name	_____
	_____	Address	_____
(c) Name	_____	Name	_____
Address	_____	Address	_____

5) Inspector

Name	<u>Barry Stalling</u>	(c) Coal Lessee with Declaration	_____
Address	<u>28 Conifer Drive</u>	Name	_____
Telephone	<u>Eastport, WV 26330</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-42 which sets out the parties involved in the work and describes the well (in 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 reverse side. However, you are not required to take any action at all.

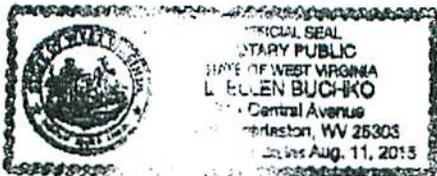
Take notice that under Chapter 33-6 of the West Virginia Code, the undersigned well operator is required to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 persons named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Martin J. Senior Oil Co.
 By: [Signature]
 Its: P.O. Box 297
 Address: Olney, Ill.
 Telephone: 304-347-1113 - 343-5236

Subscribed and sworn before me this 29th day of July, 2015
 My Commission Expires Aug. 11, 2015 Notary Public

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. Some 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 privacy@dep.gov.



Received

JUL 30 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-9
(2/15)

API Number 47-41-03917

Operator's Well No. R. Jones 1

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

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Murvin & Anderson, Oil Co. OP Code _____
Wellbore (HUC 10) _____ Quadrangle Roanoke

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: Water & Gel

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- 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: _____

Drilling medium anticipated for this well (vertical and horizontal) Water, freshwater, oil based, etc.

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

Additives to be used in drilling medium? _____

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

-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 or 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 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. Violators 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 P. Nathan Bowles Jr.

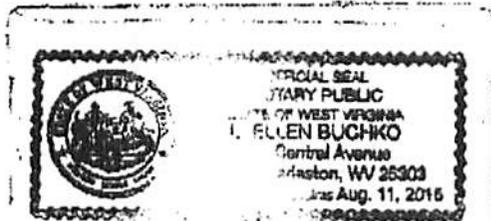
Company Official (Typed Name) P. Nathan Bowles Jr.

Company Official Title Resident Agent

Subscribed and sworn before me this 29th day of July, 2015

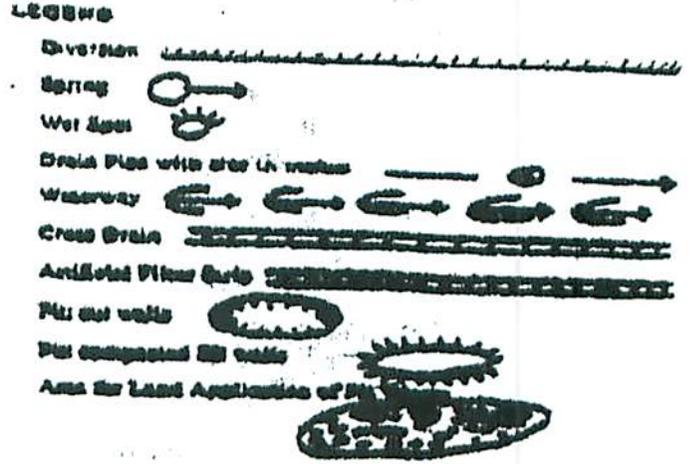
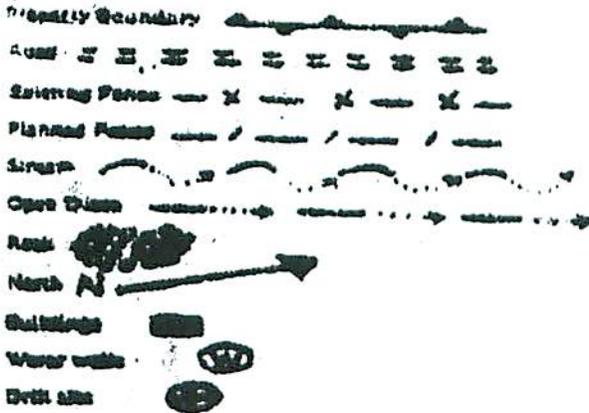
[Signature] Notary Public

My commission expires Aug. 11, 2015



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Office of Oil and Gas
WV Dept. of Environmental Protection



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation 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 Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre

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

Microcopied section of involved 7.5' topographic sheet

Plan Approved by: Bary Stith

Comments: _____

Title: inspector Date: 7-30-15

Field Reviewed? () Yes () No

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720 000
FEET

4113

57°30"

4112

4111

4110

GADRIANJ
4961 IV NE

4309

4308

55'



Sketch of
J.R. Jones #1

0015 0377



CR-30111

Ranges Run

RANGES RUN RD

Pine Knob

HARP 923

CR-15/1

CR-30115

Hughes Fork

GEORGETOWN RD

SKIN CREEK RD

Well
41-03917

Vandalia

Wolf Run

WOLF RUN RD

Hog Hollow

CR-15/2

Pen Run

Skin Cr.

CR-30114

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JUL 27 2015

Office of Oil and Gas
WV Dept. of Environment

US-19

CR-15

Sand Fork

Keith Fork

Wildcat Run

CR-30116

West Virginia Secretary of State — Online Data Services

Business and Licensing

Online Data Services Help

Business & Licensing

Business Organization Search

Back To Top

Matching records found: 1. Please note that the results are broken into four results types: *Org Name*, *Doing Business As*, *Name Change* and *Name Registrations/Reservations*. You may use the following four links to see the results for each type.

Organization Results								
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
MURVIN & MEIER OIL CO.	145286	C	10/7/1992				Foreign	Profit
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

DBA Results								
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.								
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

Name Change Results								
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.								
Organization Name	Org Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

Registration/Reservation Results

Organization Name	NRG/NRS Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class
No results found.								
Organization Name	NRG/NRS Id	Org Type	Effective Date	Established Date	Termination Date	Termination Reason	Charter	Class

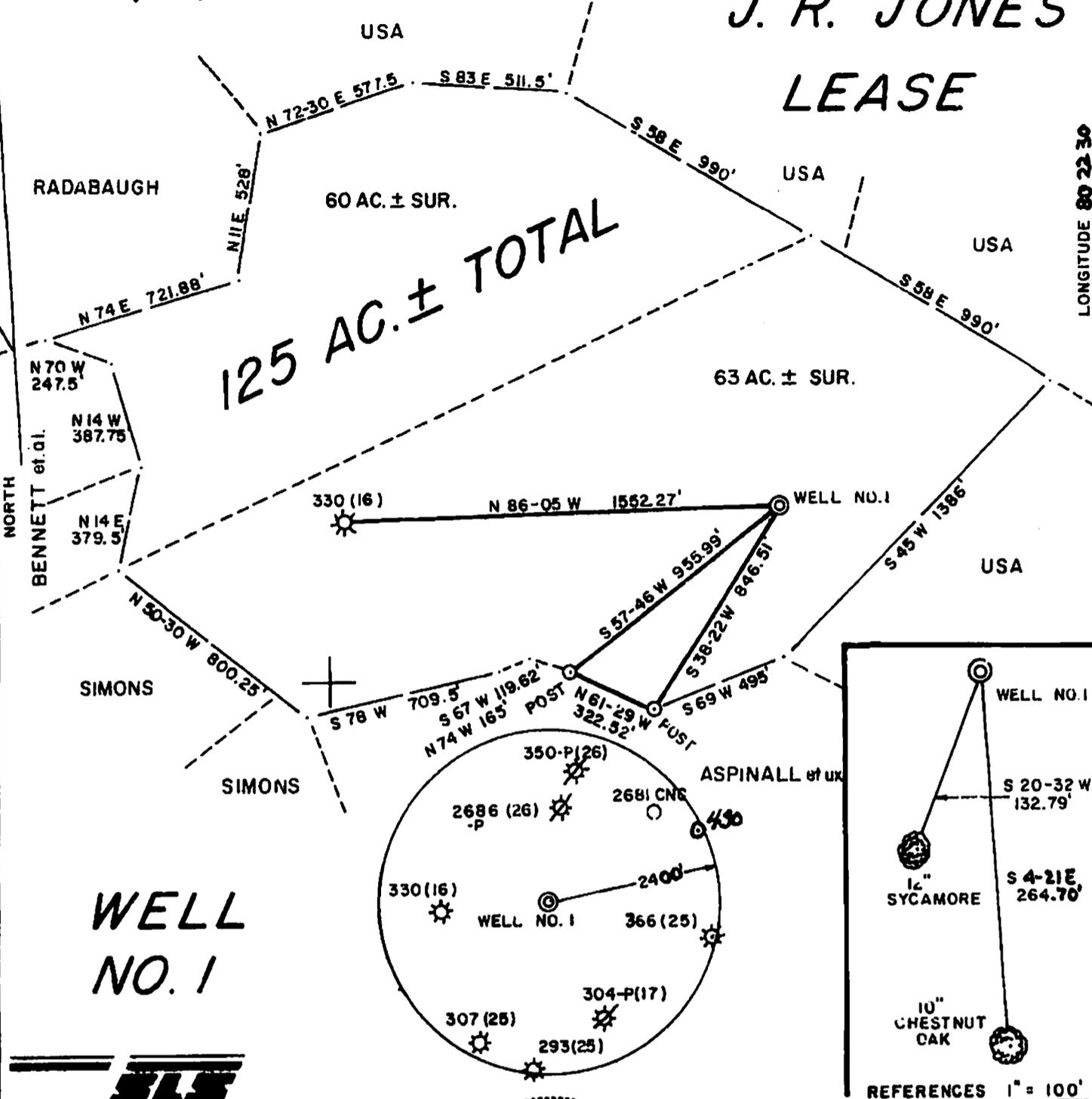
**NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information.*

Friday, July 31, 2015 — 12:50 PM

© 2015 State of West Virginia

Done 3/22/89

J. R. JONES LEASE



WELL NO. 1



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 MARCH 13, 1989

OPERATORS WELL NO. J. R. JONES NO. 1

API WELL NO. 47 - OLL - 3917
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2027 (27-35)
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1421' SCALE 1" = 500'

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 1256' WATERSHED SKIN CREEK DISTRICT SKIN CREEK COUNTY LEWIS QUADRANGLE ROANOKE 7.5'

SURFACE OWNER USA (SJLP) ACRES 63
ROYALTY OWNER J.R. JONES LEASE ACRES 125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON
ESTIMATED DEPTH 4550'

WELL OPERATOR MURVIN OIL CORP. DESIGNATED AGENT R NATHAN BOWLES, JR.
ADDRESS PO BOX 173 MARIETTA, OHIO 45780 ADDRESS PO BOX 1286 CHARLESTON, WV

COUNTY NAME LEWIS PERMIT 3917

WW-7
8-30-06



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

API: 47 - 41 - 03917 WELL NO.: J.R. Jones - 1
FARM NAME: US Army Corp. of Eng.
RESPONSIBLE PARTY NAME: Gary Hill
COUNTY: Lewis DISTRICT: Skin Creek
QUADRANGLE: Roanoke
SURFACE OWNER: US Army Corp. of Eng.
ROYALTY OWNER: J.R. Jones
UTM GPS NORTHING: 4309105.9
UTM GPS EASTING: 550842.6 GPS ELEVATION: 1256'

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 Blackworth Contractor
Signature Title

7-30-15
Date

JUL 30 2015

Office of Oil and Gas
Dept. of Environmental Protection