



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

October 18, 2013

WELL WORK PERMIT

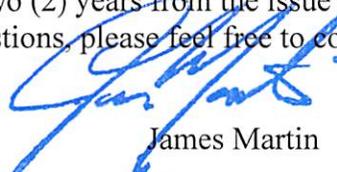
Re-Work

This permit, API Well Number: 47-8701951, issued to TRIAD HUNTER, LLC, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: DAVID LARCH NO. 19
Farm Name: JOHNSON, SCOTTIE N.
API Well Number: 47-8701951
Permit Type: Re-Work
Date Issued: 10/18/2013

Promoting a healthy environment.

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 - 2B
(Rev. 8/10)

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Triad Hunter, LLC 87 07 656
Operator ID: 494494833 County: Roane District: Walton Quadrangle: Walton

2) Operator's Well Number: David Larch # 19 3) Elevation: 913.39 GL

4) Well Type: (a) Oil or Gas
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow

5) Proposed Target Formation(s): Big Injun Sand Proposed Target Depth: 2035'-2055'
6) Proposed Total Depth: 2115 Feet Formation at Proposed Total Depth: Miss. Shale
7) Approximate fresh water strata depths: surface - 200 feet
8) Approximate salt water depths: @ 1,000 feet

9) Approximate coal seam depths: Unknown

10) Approximate void depths,(coal, Karst, other): None

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Re-perforate Big Injun Sand and shoot Gas Gun across perforations to enhance formation penetration; Pump a nitrogen / solvent mixture at low rates into the formation and shut the well in overnight; Flow and/or swab the well into the production tank; Turn well back in-line once the nitrogen concentration in the gas is below 5%.

13) 9/13/13 **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor						
Fresh Water	8 5/8"			288'	288'	(236 cu. ft.)
Coal						
Intermediate						
Production	4 1/2"			- 0 -	2106'	(63 cu. ft.)
Tubing						
Liners						

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Packers: Kind: _____
Sizes: _____
Depths Set _____

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

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

Quadrangle Walton
Permit No. ROA-1951

Company <u>Pennzoil Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Parkersburg, West Virginia</u>				
Farm <u>David Larch</u> Acres <u>127.5</u>				
Location (waters) _____	Size			
Well No. <u>19</u> Elev. <u>913.39'</u>	20-16			
District <u>Walton</u> County <u>Roane</u>	Cond.			
The surface of tract is owned in fee by _____	13-10"			
<u>Lessie Johnson</u>	9 5/8			
Address <u>Rt. #1, Walton West Virginia</u>	8 5/8	<u>288</u>	<u>288</u>	<u>200 sks.</u>
Mineral rights are owned by <u>Ivy Johnson, et al</u>	7			
Address <u>Walton, West Virginia</u>	5 1/2			
Drilling Commenced <u>March 31, 1972</u>	4 1/2	<u>2106</u>	<u>2106</u>	5 sks <u>50 sks.</u>
Drilling Completed <u>April 4, 1972</u>	3			<u>* correction</u>
Initial open flow <u>10</u> cu. ft. <u>20</u> bbls.	2			
Final production <u>10</u> cu. ft. per day <u>20</u> bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				

Well treatment details: 250 gals. 15% HCL - 667 bbls. water - 30,000# SAND
Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2025 - 2075

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface Clay			0	21		
Shale			21	180		
Sand & Shale			180	298		
Red Rock			298	507		
Shale			507	1385		
Shale & Sand			1385	1443		
Salt Sand			1443	1840		
Little Lime			1840	1872		
Pencil Cave			1872	1881		
Big Lime			1881	2025		
Pocono Injun			2025	2075		
Shale			2075	2115		
Total Depth				2115 KB		

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(over)

* Indicates Electric Log tops in the remarks section.

8701951R

WW-2A Coal Waiver

(Not Applicable)

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Roane
Operator Triad Hunter, LLC

Operator's Well Number David Larch # 19

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature

Date

Company Name
By
Its

Date

Signature

Date

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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Rock Creek Oil Co. (11/14/02)	Triad Energy	1/8	214 / 388

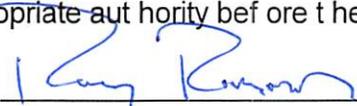
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:



 Triad Hunter, LLC
 Senior VP Appalachian Operations

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DAVID E MORRISON
2200 ROSS AVE SUITE 2800
DALLAS, TX 75201-2784

Charles B White Jr
ROANE County 11:34:42 AM
Instrument No 2075903
Date Recorded 02/16/2010
Document Type AS
Book-Page 245-269
Recording Fee \$196.00
Additional \$25.00

600A 245 PAGE 269

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WHEN RECORDED, RETURN TO:

David E. Morrison
2200 Ross Avenue
Suite 2800
Dallas, TX 75201-2784

Ritchie, Tyler, Pleasants, Calhoun, Lewis, Roane, Wayne, Wirt, Wood, Clay,
and Harrison Counties, West Virginia

ASSIGNMENT, CONVEYANCE AND BILL OF SALE

This Assignment, Conveyance and Bill of Sale (the "Assignment") from Triad Energy Corporation ("Grantor"), to Triad Hunter, LLC ("Grantee") whose address is 777 Post Oak Blvd., Ste. 910, Houston, Texas 77056, is executed on the date set forth on the signature page hereof (the "Execution Date"), and made effective as of 7:00 a.m. Eastern Standard Time, February 12, 2010 ("Effective Date") and is subject to the Asset Purchase Agreement dated October 28, 2009 (the "Purchase Agreement"), by and among Triad Energy Corporation and its affiliates, and Magnum Hunter Resources Corporation and its affiliates, dated October 28, 2009 as amended as of January 22, 2010 (the "Purchase Agreement"). This Assignment is made pursuant to the Order Confirming Joint Plan of Reorganization of Triad Resources, Inc., *et al.* dated October 30, 2009, as Modified January 25, 2010, and attached hereto as Exhibit A (the "Confirmation Order"). Capitalized terms used but not defined herein shall have the respective meanings set forth in the Purchase Agreement, the terms of which are expressly subject to and incorporated herein by reference.

ARTICLE 1.

Assignment of Oil and Gas Interests

Section 1.1 Assignment: Grantor, for and in consideration of the sum of Ten Dollars (\$10) cash and other good and valuable consideration, in hand paid, the receipt and sufficiency of which is hereby acknowledged, hereby grants, bargains, sells,

TRIAD ENERGY CORPORATION TO TRIAD HUNTER LLC
ROANE COUNTY, WEST VIRGINIA

WELL NAME	PERMIT NO.	LESSOR	LESSEE	VOL/PAGE	DISTRICT	COUNTY	ST	ACRES
Hunt, Laura J. et al #4	47-087-1960							
Hunt, N. E. et al #1	47-039-3300							
Jarvis, John et ux #12	47-087-1969							
Jarvis, John et ux #4	47-087-3154							
Jarvis, John et ux #8	47-087-2574							
Kitching, Ermitta, et vlr #3	47-087-2168							
Larch, David #10	47-087-3078							
Larch, David #11	47-087-3158							
Larch, David #13	47-087-3133							
Larch, David #14	47-087-0550							
Larch, David #15	47-087-1950							
Larch, David #16	47-087-2591							
Larch, David #17	47-087-2592							
Larch, David #19	47-087-1951							
Larch, David #20	47-087-1989							
Larch, David #3	47-087-2593							
Larch, David #4	47-087-1968							
Larch, David #5	47-087-2589							

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Triad Hunter, LLC OP Code _____

Watershed (HUC 10) Laurel Fork Quadrangle Walton

Elevation 913.39 GL County Roane District Walton

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

Will a pit be used for drill cuttings? Yes _____ No X - No Pit

If so, please describe anticipated pit waste: _____

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

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 Completion fluids will be flowed/swabbed into production; No water will be used in treatment.)

Will closed loop system be used? N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - No Cuttings

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

-Landfill or offsite name/permit number? _____

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 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 [Signature]

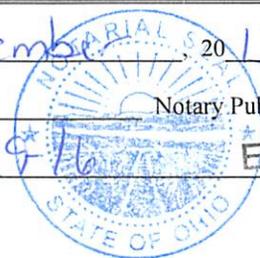
Company Official (Typed Name) Rocky Roberts

Company Official Title Senior VP Appalachian Operations

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Subscribed and sworn before me this 11th day of September, 2013 SEP 23 2013

Elizabeth R. Leiby



WV Department of Environmental Protection
My Commission Expires

My commission expires _____

Form WW-9

Operator's Well No. David Larch # 19

Proposed Revegetation Treatment: Acres Disturbed one (1) Prevegetation pH 5.5

Lime two (2) Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)

Mulch 90-100 bales/acre Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchard Grass	30%		
Rye (Annual & BT)	35%		
Timothy (Climax)	25%		
Clover (Med. Red)	10%		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 
Comments: _____

Title: Inspector

Date: 9/13/13 RECEIVED
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Field Reviewed? () Yes (X) No

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Reclamation Plan For:

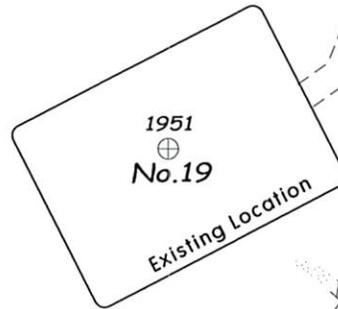
David Larch No. 19

47-087-1951

NOTE:

WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT No.47-087-1951. ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL WORK. ALL DISTURBED AREAS WILL BE RE-VEGETATED AS PER THE SEEDING PLAN ON FORM WW-9. NO WORK-OVER PIT WILL BE REQUIRED FOR PROPOSED WELL WORK.

*Scottie N. Johnson
- Surface Owner*



To Rock Creek



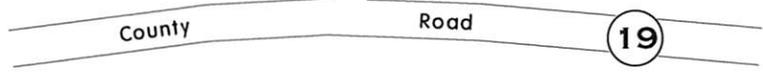
Use approximately 2,500' of existing access road. Maintain all drainage structures.

NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

*Scottie N. Johnson
- Surface Owner*

[Handwritten Signature]
9/13/13

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Notes: WV Department of
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- Requested permit is for workover of existing well.
- Access from County Road to well location is existing. Structures will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.

SUBJECT WELL
David Larch No.19
47-087-1951



Section of
Kettle 7.5' Quadrangle

SCALE 1"=1000'

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NOTES

1 - The survey drawing shown hereon is from the original drilling permit plat dated 3/27/1972 by Curtis A. Lucas, PS. Plat was re-drafted to show updated surface owner names and as-drilled Latitude and Longitude information. 2 - Well Latitude and Longitude established by DGPS (Sub-Meter Mapping Grade).

LATITUDE 38° 37' 30"

C. Marks 63.25 ac.

W. H. Sleath 91 ac.

D. M. Larch 60.75 ac.

DAVID LARCH 127.5 ac.

T. M. Larch 50 ac.

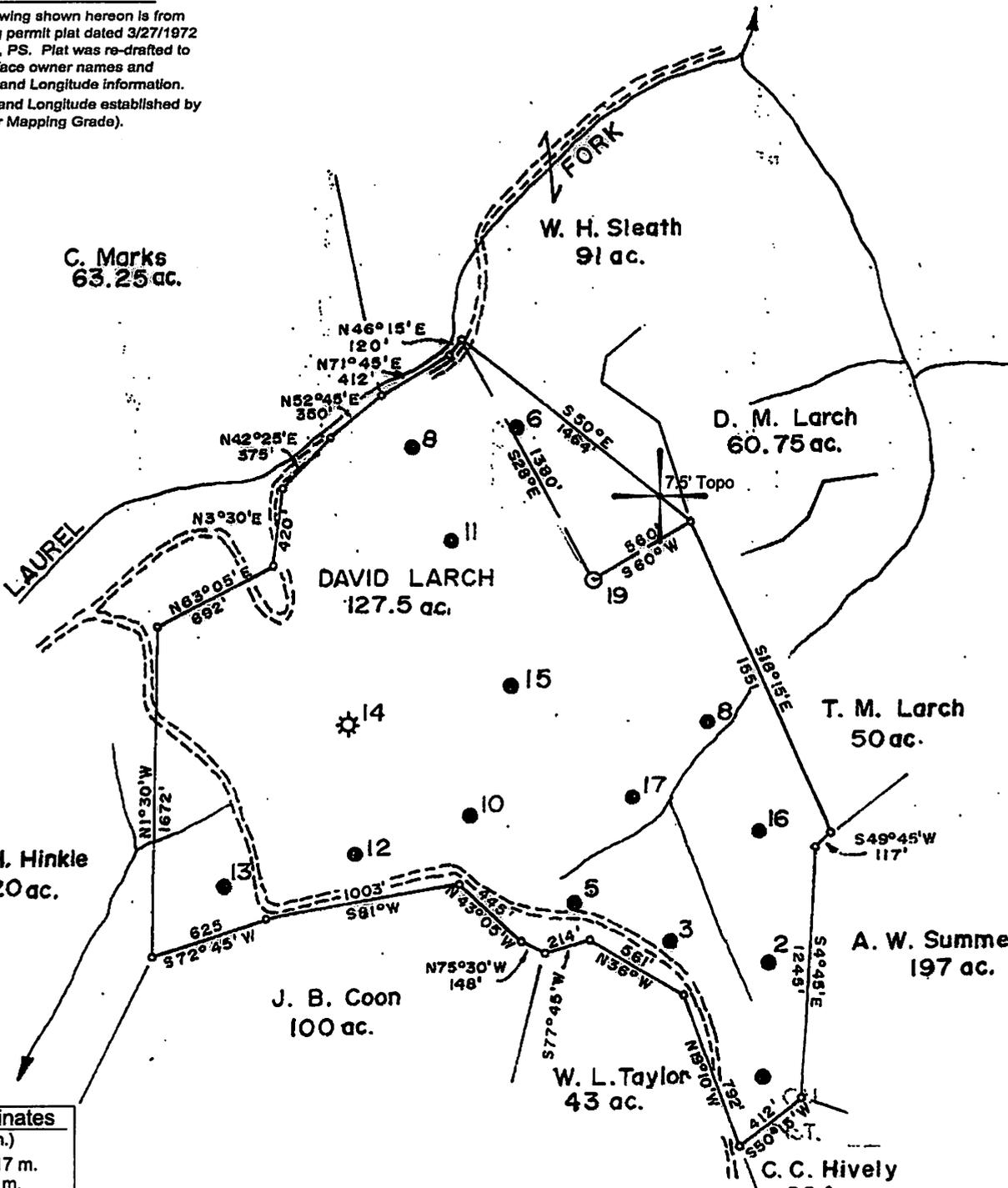
T. H. Hinkle 120 ac.

J. B. Coon 100 ac.

A. W. Summers 197 ac.

W. L. Taylor 43 ac.

C. C. Hively 204 ac.



UTM Coordinates

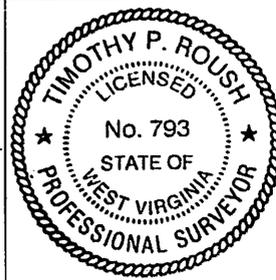
NAD 1983 (m.)
N - 4,273,217 m.
E - 462,013 m.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 800'
MINIMUM DEGREE OF ACCURACY _____
PROVEN SOURCE OF ELEVATION WVDEP Records
(Original Survey)

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 MINES.

(SIGNED) *[Signature]*
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA

Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25304



DATE August 5, 2013
FARM David Larch No.19
API WELL NO. 47-087-01951R

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

LOCATION: ELEVATION 913.39' WATERSHED Laurel Fork
DISTRICT Walton COUNTY Roane
QUADRANGLE Kettle 7.5'

SURFACE OWNER Scottie N. Johnson ACREAGE 113 Ac.
OIL & GAS ROYALTY OWNER Triad Hunter LLC et al. LEASE ACREAGE _____
LEASE NO. _____

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Big Injun ESTIMATED DEPTH 2,115'
WELL OPERATOR Triad Hunter, LLC DESIGNATED AGENT Kimberly Arnold
ADDRESS 125 Putnam Street ADDRESS P.O. Box 154
Marietta, OH 45750 Waverly, WV 26184

LONGITUDE 81° 25' 00"

6,720'

Latitude - 38°36' 23.6"

8701951R

WW-2B1
(5-12)

Well No. David Larch # 19

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Microbac Laboratories, Inc.
Sampling Contractor Quality Environmental Service, Inc.

Well Operator Triad Hunter, LLC
Address 125 putnam Street
Marietta, Ohio 45750
Telephone (740) 374-2940

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

No domestic water wells within 2000 feet.

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