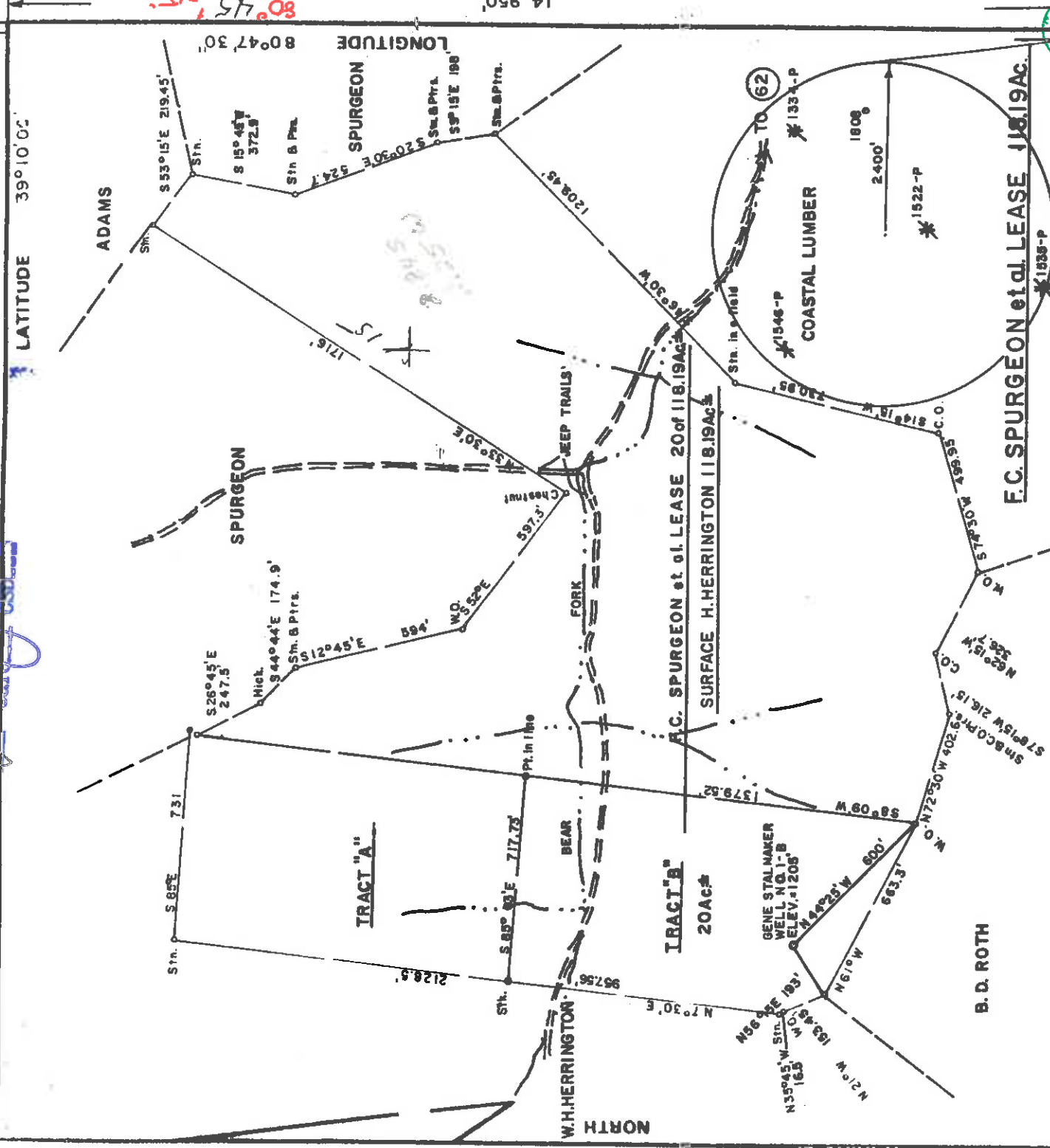


6-7-83

150



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1/200  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION ROAD INTERSECTION  
 5200' ± NE OF LOC. ELEV. = 939'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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) Mark C. Echard  
 MARK C. ECHARD

R.P.E. \_\_\_\_\_ L.L.S. 490  
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-5 (8-78)



DATE APRIL 27 19 83  
 OPERATOR'S WELL NO. ONE - B  
 API WELL NO. 47 - 017 - 3222  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1205' WATER SHED BEAR FORK  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5' Holbrook 15' Ec  
 SURFACE OWNER HOWARD HERRINGTON ACREAGE 118.19  
 OIL & GAS ROYALTY OWNER F.C. SPURGEON, Et al LEASE ACREAGE 20 of 118.19

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 ALEXANDER ESTIMATED DEPTH 5900'  
 WELL OPERATOR GENE STALNAKER, INC. DESIGNATED AGENT GENE STALNAKER, INC.  
 ADDRESS P.O. BOX 178-220 W. MAIN ST. ADDRESS P.O. BOX 178-220 W. MAIN ST.  
 GLENVILLE, W.VA. 26351 GLENVILLE, W.VA. 26351

JUN 13 1983

6-6 113



IV-35  
(Rev 8-81)

Date May 23, 1984  
Operator's  
Well No. #1B  
Farm Spurgeon #17  
API No. 47 - 010 - 3222

State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas" Production / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 1205 Watershed Bear Fork  
District: Southwest County Doddridge Quadrangle Oxford

COMPANY: Tri-Don, Inc.  
ADDRESS: Box 83, Harrisville, WV 26362  
DESIGNATED AGENT: A.D. Steed  
ADDRESS: Box 83, Harrisville, WV 26362  
SURFACE OWNER: Howard Herrington  
ADDRESS: RFD 1, New Milton, WV  
MINERAL RIGHTS OWNER: F.C. Spurgeon  
ADDRESS: 1216 23rd St, Parkersburg, WV 26101  
OIL AND GAS INSPECTOR FOR THIS WORK: Steven Casey  
ADDRESS: Box 232D, Jane Lew, WV  
PERMIT ISSUED: 6/9/83  
DRILLING COMMENCED: 2/11/84  
DRILLING COMPLETED: 2/16/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN

GEOLOGICAL TARGET FORMATION: Devonian Shale

Depth of completed well: 5494 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 180 feet; Salt: n/a feet  
Coal seam depths: n/a

OPEN FLOW DATA

Producing formation: Alexander, Balltown, Warren, Riley Pay zone depth: 3362 feet

Gas: Initial open flow: 2.39 Mcf/d Oil: Initial open flow show: Bbl/d  
Final open flow: 2.39 Mcf/d Final open flow show: Bbl/d

2.39 show oil Time of open flow between initial and final tests: 4 hours  
MCF Static rock pressure: 825 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation: \_\_\_\_\_ pay zone depth: \_\_\_\_\_ feet

Gas: Initial open flow: \_\_\_\_\_ Mcf/d Oil: Initial open flow: \_\_\_\_\_ Bbl/d  
Final open flow: \_\_\_\_\_ Mcf/d Oil: Final open flow: \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests: \_\_\_\_\_ hours

Static rock pressure: \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

DEC 17 1984 (Continue on reverse side)

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cord.			
13-10"			
9 5/8			
8 5/8	1305'	1305'	to Surf
7			
5 1/2			
4 1/2	5494'	5494'	3362'
3			
2			
Liners used			

Depth: 3362 feet

Is coal being mined in the area? No

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
FIRST STAGE OF PERFORATIONS SECOND STAGE OF PERFORATIONS

Set plug at 4430'

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Riley	Benson	5300'	0	10	2nd Warren
4576'	4872'	5305'	10	325	Balltown
4578'	4874'	5308'	325	364	3472'
4580'	4876'	5310'	364	715	3474'
4582'	4878'	5322'	715	807	3476'
4584'	4880'	5324'	807	990	3478'
4586'	4882'	5346'	990	1020	3506'
4588'	4884'	5348'	1020	1100	3508'
4590'	Alexander	5350'	1100	1180	3510'
	5286'	5294'	1180	1240	3512'
	5288'	5296'	1240	1305	3514'
	5290'	5298'	1305	1435	3516'
			1435	1520	
			1520	1575	
			1575	1605	
			1605	1685	
			1685	1747	
			1747	1818	
			1818	1990	
			1990	2089	
			2089	2132	
			2132	2160	
			2160	2170	
			2170	2216	
			2216	2264	
			2264	2315	
			2315	2324	
			2324	2422	
			2422	2465	
			2465	2560	
			2560	2630	
			2630	2770	
			2770	2830	
			2830	2905	
			2905	3020	
			3020	3110	
			3110	3322	
			3322	3374	
			3374	3438	

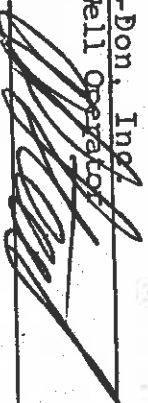
WELL LOG

Including indication of all fresh and salt water, coal, oil and gas

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Soil			0	10	2nd Warren
R.R. & Slate			10	325	Shale
Silty Sand			325	364	Silty Sand
R.R. & Slate			364	715	Shale
Silty Sand			715	807	Speechley
Shale			807	990	Balltown
Silty Sand			990	1020	Shale
R.R. & Slate			1020	1100	Silty Sand
Silty Sand			1100	1180	Shale
R.R. & Slate			1180	1240	Riley
Silty Sand			1240	1305	Shale
R.R. & Slate			1305	1435	Benson
Silty Sand			1435	1520	Shale
Shale			1520	1575	Alexander
Silty Sand			1575	1605	Shale
R.R.			1605	1685	Total Depth
Shale			1685	1747	5494'
Silty Sand			1747	1818	
Shale			1818	1990	
Silty Sand			1990	2089	
Shale			2089	2132	
Lime			2132	2160	
Silty Sand			2160	2170	
Big Injun			2170	2216	
Shale			2216	2264	
Shale			2264	2315	
Weir			2315	2324	
Shale			2324	2422	
Silty Sand			2422	2465	
Gantz			2465	2560	
Gordon			2560	2630	
Silty Sand			2630	2770	
Shale			2770	2830	
Silty Sand			2830	2905	
Shale			2905	3020	
Silty Sand			3020	3110	
Shale			3110	3322	
1st Warren			3322	3374	
Shale			3374	3438	

617  
Same record as 3.305

(Attach separate sheets as necessary)

Tri-Don, Inc.  
Well Operator  
By:   
Date: 5/23/84  
A.D. Steed

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations encountered in the drilling of a well."





1) Date: May 17, 1983  
 2) Operator's Well No. SPURTON 1-8  
 3) API Well No. 47 State 017 County 3222 Permit

DRILLING CONTRACTOR:  
 Cons. Statshar, Inc.  
 P.O. Box 170  
 Glenville, WV 26031

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Deep  Shallow   
 5) LOCATION: Elevation: 4800 Watershed: Little Fork  
 District: Southwest County: Putnam Quadrangle: Putnam 7.3  
 6) WELL OPERATOR: Cons. Statshar, Inc. Address: P.O. Box 170  
Glenville, WV 26031

7) OIL & GAS ROYALTY OWNER: Forest & Payton Spangston  
 Address: 144 1st Street  
Charleston, WV 25301  
 8) SURFACE OWNER: Howard Harrington  
 Address: P.O. Box 142-8  
WV 26030  
 9) FIELD SALE (IF MADE) TO: 115.19

10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name: Elizabeth Lacey Address: 101 22nd Ave. S.E., WV  
25304

15) PROPOSED WORK: Drill 3 / Drill deeper  / Redrill  / Fracture or stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) None

16) GEOLOGICAL TARGET FORMATION, Carboniferous Shale  
 17) Estimated depth of completed well, 3500 feet  
 18) Approximate water strata depths: Fresh, 300 feet; salt, 300 feet.  
 19) Approximate coal seam depths: 21/8 Is coal being mined in the area? Yes  No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used		
Conductor	1 3/8"						
Fresh water							
Coal							
Intermediate	8 3/8"		23.5			1300'	
Production	6 1/2"		30.20			3000'	
Tubing							
Liners							

21) EXTRACTION RIGHTS

Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.  
 23) Required Copies (See reverse side.)  
 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_ Signed: \_\_\_\_\_ Its: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number: \_\_\_\_\_ Date: \_\_\_\_\_

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires February 1, 1986 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:  
(1) A brief description of the tract of land including the district and county wherein the tract is located;  
(2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;  
(3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;  
(4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

.....

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

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 the 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.

Date: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
Its \_\_\_\_\_