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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

## PERMIT MODIFICATION APPROVAL

October 02, 2014

TRIAD HUNTER, LLC  
777 POST OAK BOULEVARD, SUITE 910  
HOUSTON, TX 77056

Re: Permit Modification Approval for API Number 9502153 , Well #: 1403

**Moved top hole**

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith  
Assistant Chief of Permitting  
Office of Oil and Gas



## TRIAD HUNTER, LLC.

September 12, 2014

Ms. Laura K. Cooper  
West Virginia Department of Environmental Protection Office of Oil and Gas  
Environmental Resource Analyst  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304

Re: Modification for Wells-Meckley API# 095-02151, 095-02152, 095-02153, 095-02154, 095-02155  
Well # 1401, 1402, 1403, 1404, 1405 respectively

Dear Ms. Cooper:

Please find the enclosed modification request for the wells referenced above. We would like to move the top holes approximately 40'. The bottom hole and the pad will not move. These wells are situated on the Wells property, in Lincoln District, Tyler County, West Virginia.

If you have any other questions or comments, please contact me at (740) 760-0558 or (304) 993-5510, thank you.

Sincerely,

*Will Harless*

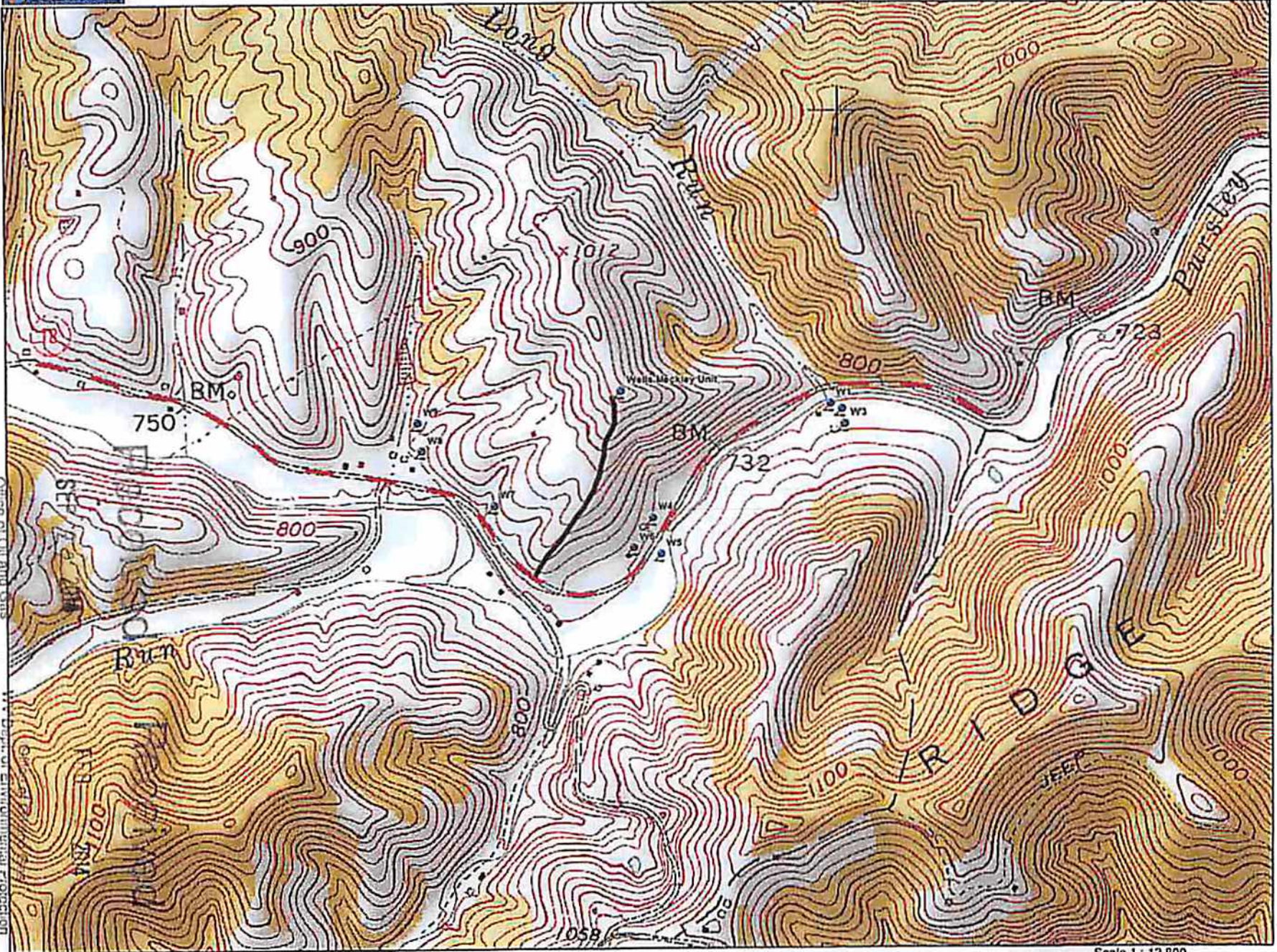
Will Harless  
Permitting/Site Project Engineer

Received

SEP 22 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

Enclosure(s)



WV Dept. of Environmental Protection

Office of Oil and Gas

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Scale 1:12,800  
 1" = 1,068.7 ft Data Zoom 14-2

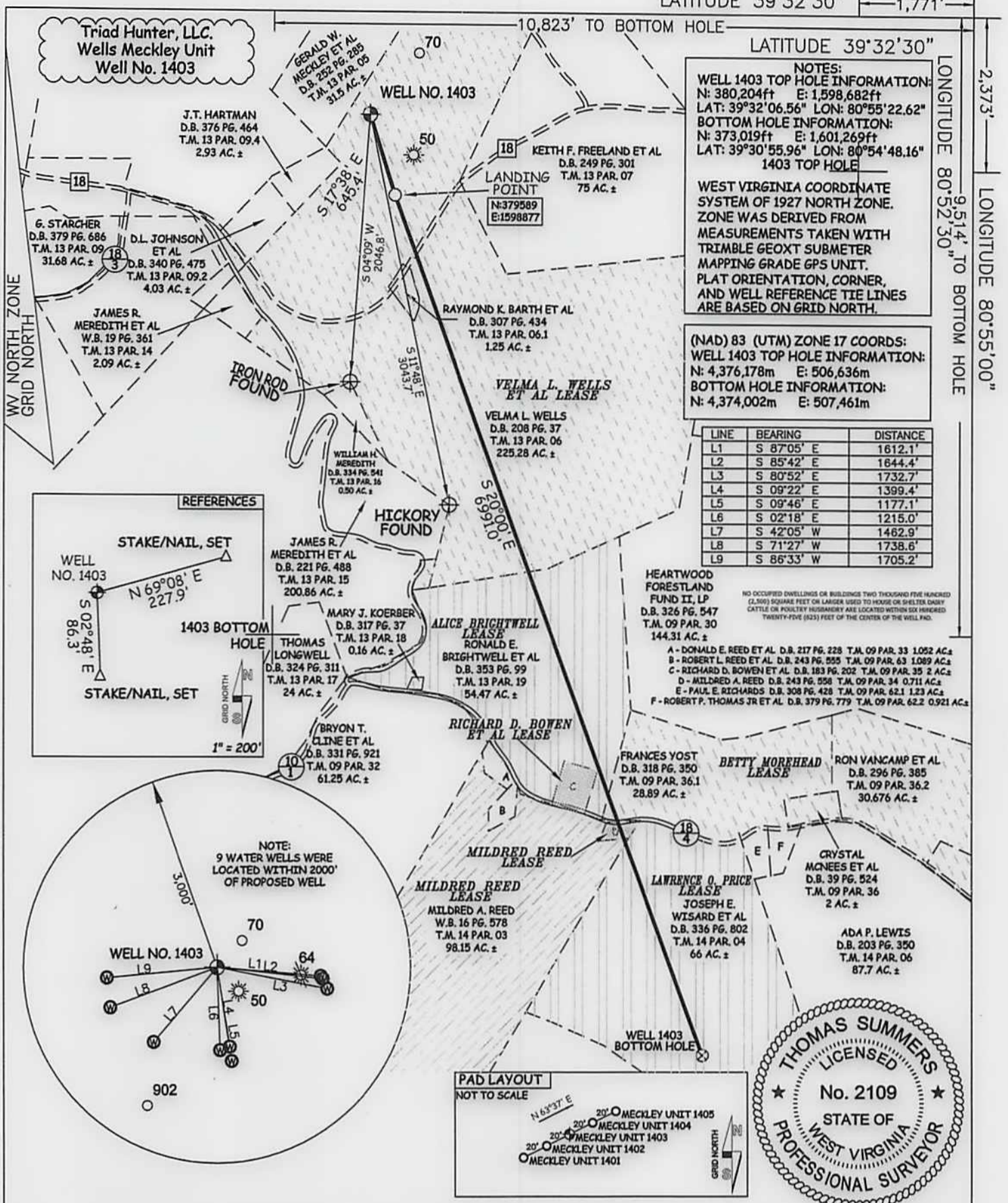
4709502151

MOO

LATITUDE 39°32'30" 1,771'

LATITUDE 39°32'30"

LONGITUDE 80°52'30" TO BOTTOM HOLE  
LONGITUDE 80°55'00"

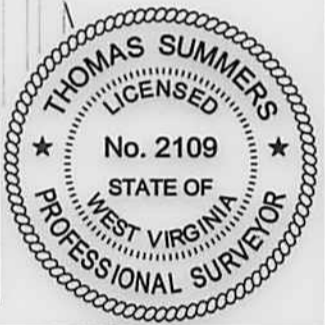
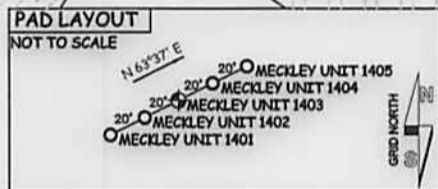
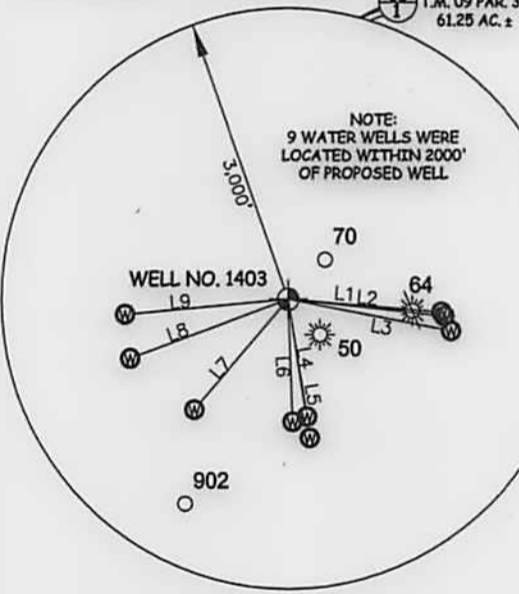
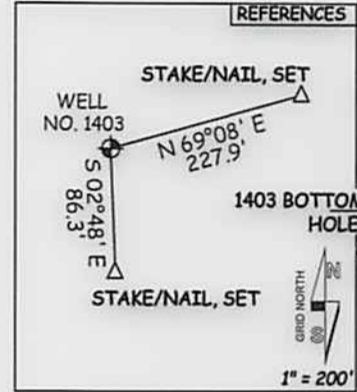


**NOTES:**  
**WELL 1403 TOP HOLE INFORMATION:**  
 N: 380,204ft E: 1,598,682ft  
 LAT: 39°32'06.56" LON: 80°55'22.62"  
**BOTTOM HOLE INFORMATION:**  
 N: 373,019ft E: 1,601,269ft  
 LAT: 39°30'55.96" LON: 80°54'48.16"  
 1403 TOP HOLE

WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
**WELL 1403 TOP HOLE INFORMATION:**  
 N: 4,376,178m E: 506,636m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,374,002m E: 507,461m

LINE	BEARING	DISTANCE
L1	S 87°05' E	1612.1'
L2	S 85°42' E	1644.4'
L3	S 80°52' E	1732.7'
L4	S 09°22' E	1399.4'
L5	S 09°46' E	1177.1'
L6	S 02°18' E	1215.0'
L7	S 42°05' W	1462.9'
L8	S 71°27' W	1738.6'
L9	S 86°33' W	1705.2'



JOB # 12-104WT DRAWING # MECKLEY1403R2 SCALE 1" = 1000'	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 RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.	<b>LEGEND</b> - - - Surface Owner Boundary Lines +/- - - - Interior Surface Tracts +/- X Existing Fence ⊕ Found monument, as noted
MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS	THOMAS SUMMERS P.S. 2109
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415	DATE 09/17/14
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X		OPERATOR'S WELL# WELLS MECKLEY UNIT #1403
LOCATION: ELEVATION 958' WATERSHED PURSLEY CREEK		API WELL # 47 - 095 - 02153
QUADRANGLE PADEN CITY 7.5' DISTRICT LINCOLN COUNTY TYLER		STATE COUNTY PERMIT
SURFACE OWNER VELMA L. WELLS ACREAGE 225.28 ACRES +/-		10/10/2014
OIL & GAS ROYALTY OWNER VELMA L. WELLS ET AL; GWENDOLYN L. STARCHER; ALICE BRIGHTWELL; BETTY MOREHEAD; MILDRED REED; MILDRED REED; LAWRENCE O. PRICE 54.47 ACRES +/-; 73.62 ACRES +/-; 0.711 ACRES +/-; 98.15 ACRES +/-; 66 ACRES +/-		COUNTY NAME
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ PLUG & ABANDON CLEAN OUT & REPLUG		PERMIT
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,225' TVD 13,548' MD		
WELL OPERATOR TRIAD HUNTER, LLC. ADDRESS 777 POST OAK BLVD., SUITE 910 HOUSTON, TX 77056	DESIGNATED AGENT ADDRESS	KIMBERLY ARNOLD P.O. BOX 154 WAVERLY, WV 26184