



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

PERMIT MODIFICATION APPROVAL

September 10, 2015

TRIANA ENERGY, LLC
900 VIRGINIA STREET, EAST - SUITE 400
CHARLESTO, WV 25301

Re: Permit Modification Approval for API Number 9101291, Well #: DUNHAM 4H

Wellbore Path

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



September 1, 2015

Mr. James Martin, Chief
Office of Oil and Gas
West Virginia Department of Environmental Protection
601 57th Street, S. E.
Charleston, West Virginia 25304

**Re: Triana Energy, LLC – Well Plat Modification Requests
Dunham 2H, 4H and 6H Horizontal Wells, Booth's Creek District, Taylor County, WV**

Dear Mr. Martin:

Upon completion of as-drilled plats for its Dunham 2H, 4H and 6H horizontal natural gas wells drilled in Booth's Creek District, Taylor County, West Virginia, Triana Energy discovered that the surface location of each well was inadvertently relocated exactly 30 feet south from their permitted locations. Triana has conducted an exhaustive investigation to determine the cause of the relocation, however no conclusion was reached. The well pad was originally designed to accommodate six wells, but was later reduced to five wells, due to mineral lease constraints. Inasmuch as the approved well locations are spaced 30 feet apart, we can only presume that an error occurred in stakeout during the transition from six wells to five wells.

In any event, Triana apologizes for any inconvenience and hereby requests that the well permits and records for the three wells are modified to reflect the accurate surface hole locations. Corrected plats for the wells are included herewith. Mylar plats were submitted to your office with corrected WR-35 Completion Reports.

Please feel free to contact me should you have any questions or need additional information. We look forward to working with you and your staff on this project.

Sincerely,

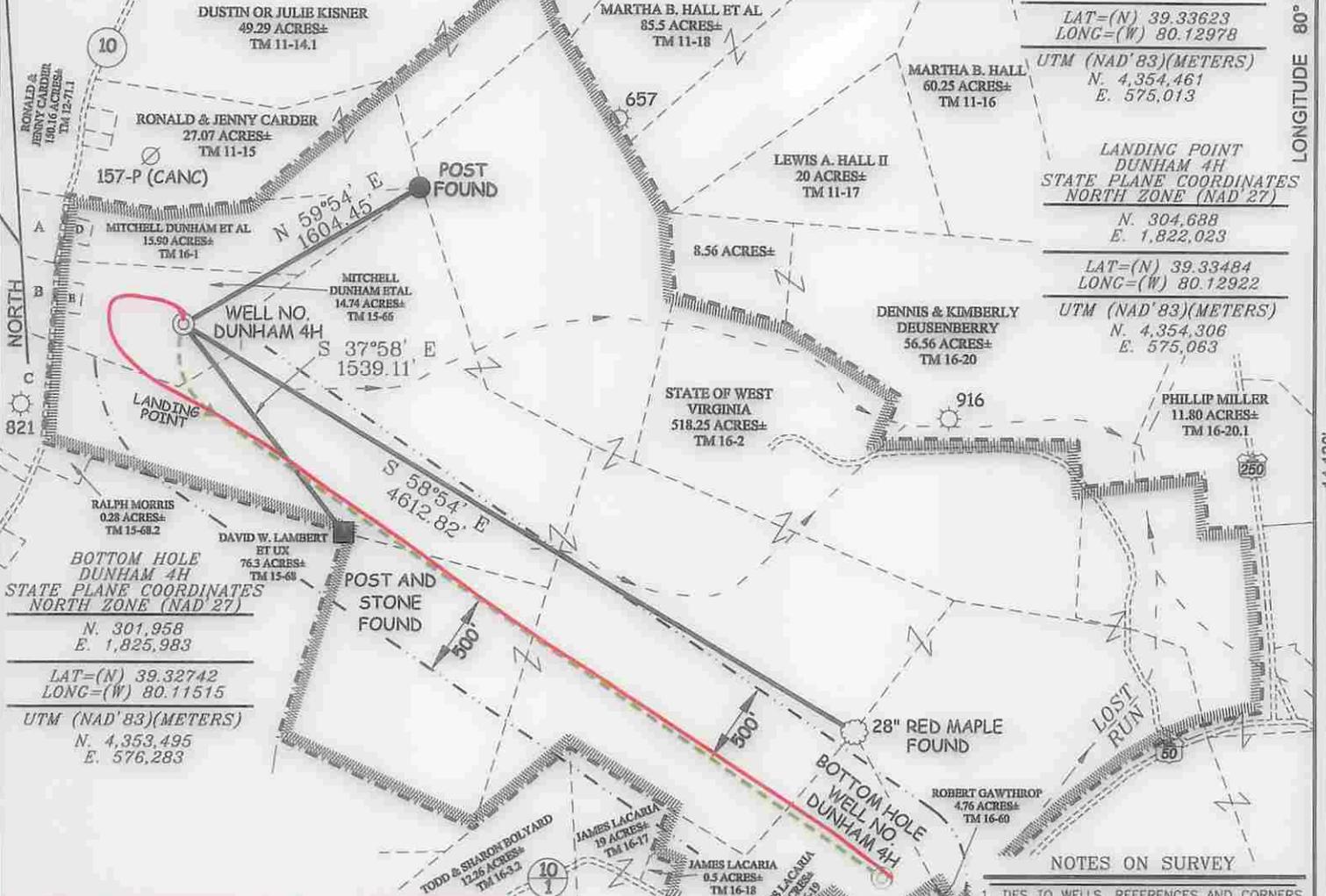
A handwritten signature in black ink, appearing to read "Walter C. Showen, III".

Walter C. Showen, III
Manager, Permitting

DUNHAM LEASE DUNHAM 4H

A	JAMES P. HARR JR.	15.99 ACRES±	TM 15-65
B	JAMES P. HARR JR.	17.49 ACRES±	TM 15-64
C	JAMES P. HARR JR.	13.33 ACRES±	TM 15-63
D	MITCHELL DUNHAM	0.40 ACRES±	TM 15-81
E	RICHARD N. GLASPELL	1.26 ACRES±	TM 15-66.1

LATITUDE 39° 22' 30"
 DUNHAM 4H
 STATE PLANE COORDINATES
 NORTH ZONE (NAD 27)
 N. 305,196
 E. 1,821,868
 LAT=(N) 39.33623
 LONG=(W) 80.12978
 UTM (NAD'83)(METERS)
 N. 4,354,461
 E. 575,013



**AS DRILLED COORDINATES
FOR WELL NO. DUNHAM 4H**
 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

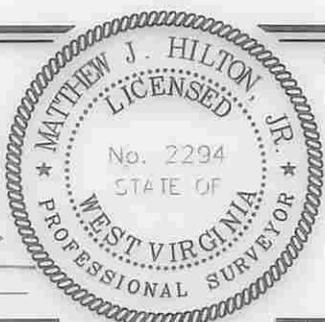
NAD'27 S.P.C.(FT)	N. 305,226	E. 1,821,868
NAD'27 GEO.	LAT-(N) 39.33631	LONG-(W) 80.12978
NAD'83 UTM (M)	N. 4,354,470	E. 575,013

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 301,955	E. 1,826,043
NAD'27 GEO.	LAT-(N) 39.32741	LONG-(W) 80.11494
NAD'83 UTM (M)	N. 4,353,494	E. 576,302

LANDING POINT
 DUNHAM 4H
 STATE PLANE COORDINATES
 NORTH ZONE (NAD 27)
 N. 304,688
 E. 1,822,023
 LAT=(N) 39.33484
 LONG=(W) 80.12922
 UTM (NAD'83)(METERS)
 N. 4,354,306
 E. 575,063

- NOTES ON SURVEY**
1. TIES TO WELLS, REFERENCES AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD 27.
 2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM MULTIPLE DEEDS PROVIDED BY TRIANA ENERGY LLC AND VARIOUS WELL PLATS.
 3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2013.
 4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE).
 5. NO DWELLINGS OR AGRICULTURAL BUILDINGS WITHIN 625 FEET OF CENTER OF PAD. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE PAD LIMITS OF DISTURBANCE.
 6. AS DRILLED INFORMATION PROVIDED BY TRIANA ENERGY, LLC.
 7. THIS PERMITTED PLAT REVISED TO SHOW THE AS DRILLED PATH AND COORDINATES RELATIVE TO THE PROPOSED WELL.



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. *Matthew J. Hilton, Jr.*
 2294

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE DECEMBER 17, 20 13
 REVISED JULY 29, 20 15
 OPERATORS WELL NO. DUNHAM 4H
 API WELL NO. 47 - 091 - 01291H 6A
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7754AD4H
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE GPS TIES TO COORS)
 SCALE 1" = 1000'

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

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

LOCATION: ELEVATION 1,420' WATERSHED TRIBUTARY OF LOST RUN
 DISTRICT BOOTH'S CREEK COUNTY TAYLOR QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER MITCHELL DUNHAM ET AL ACREAGE 14.74±
 ROYALTY OWNER MITCHELL DUNHAM ET AL (14.74 & 15.90 AC.±) AND W.V. DEPT. OF AGRICULTURAL (518.25 AC.±) MITCHELL CARL DUNHAM (0.4 AC.±)

PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
 FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD 7,800' / TMD

WELL OPERATOR TRIANA ENERGY, L.L.C. DESIGNATED AGENT RACHELLE A. KING
 ADDRESS 900 VIRGINIA STREET EAST, SUITE 400 ADDRESS 900 VIRGINIA STREET EAST, SUITE 400
 CHARLESTON, WV 25301 CHARLESTON, WV 25301

COUNTY NAME PERMIT