



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

October 02, 2014

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

Re: Permit Modification Approval for API Number 9502155 , Well #: 1405

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,

A handwritten signature in blue ink, appearing to read 'Gene Smith', is written over a faint, larger signature.

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 57th 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

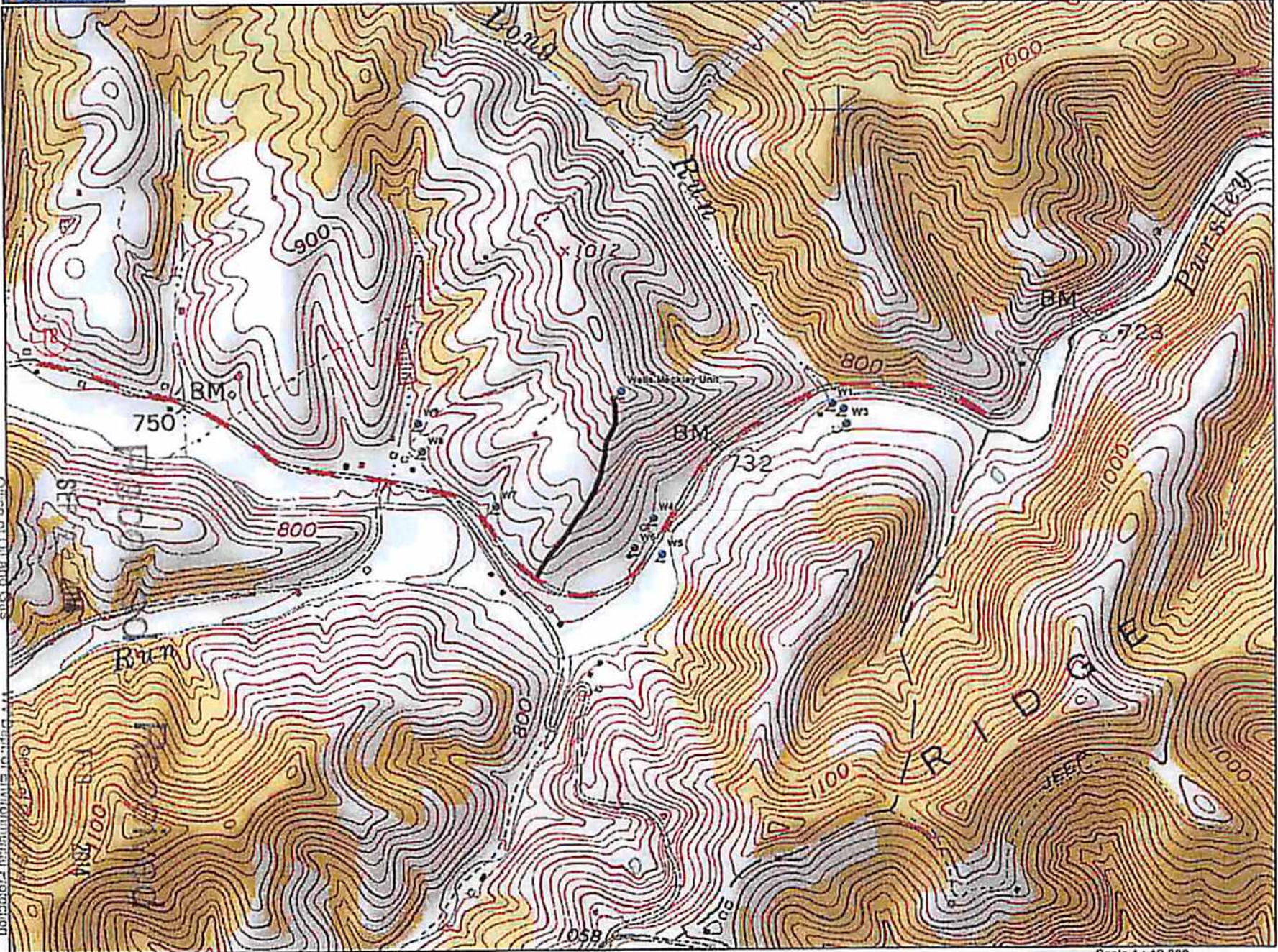
Will Harless
Permitting/Site Project Engineer

Enclosure(s)

Received

SEP 22 2014

Office of Oil and Gas
WV Dept. of Environmental Protection



WV Dept. of Environmental Protection

Office of Oil and Gas

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www.delorme.com

Scale 1 : 12,600

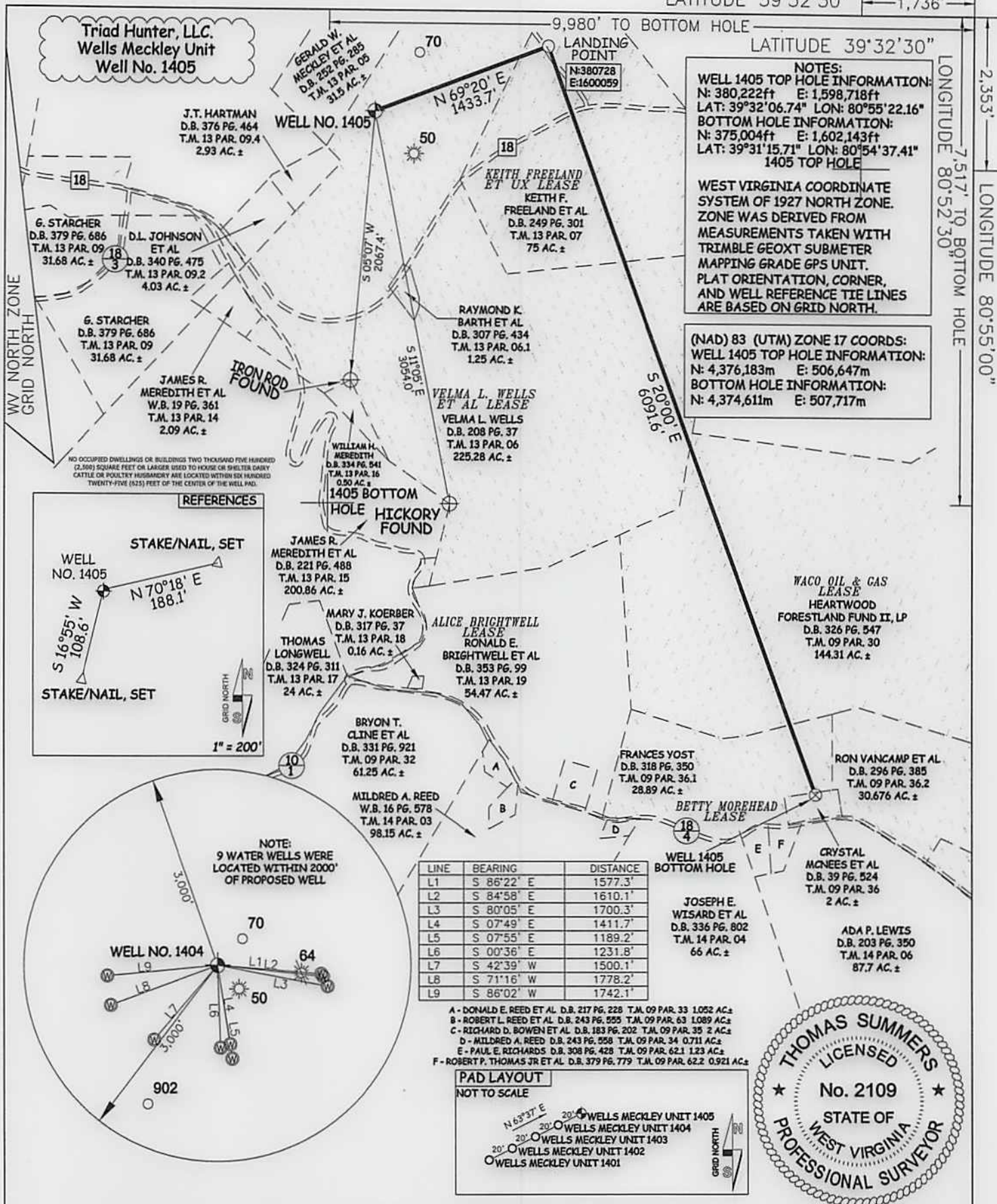
1" = 1,066.7 ft

Data Zoom 14-2

4709502151

MOD

LATITUDE 39°32'30" 1,736'



NOTES:

WELL 1405 TOP HOLE INFORMATION:
 N: 380,222ft E: 1,598,718ft
 LAT: 39°32'06.74" LON: 80°55'22.16"

BOTTOM HOLE INFORMATION:
 N: 375,004ft E: 1,602,143ft
 LAT: 39°31'15.71" LON: 80°54'37.41"
 1405 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.

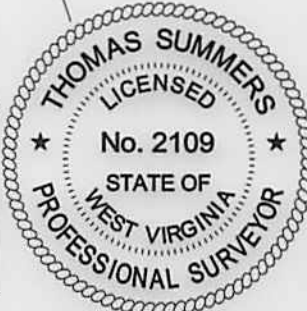
(NAD) 83 (UTM) ZONE 17 COORDS:

WELL 1405 TOP HOLE INFORMATION:
 N: 4,376,183m E: 506,647m

BOTTOM HOLE INFORMATION:
 N: 4,374,611m E: 507,717m

LINE	BEARING	DISTANCE
L1	S 86°22' E	1577.3'
L2	S 84°58' E	1610.1'
L3	S 80°05' E	1700.3'
L4	S 07°49' E	1411.7'
L5	S 07°55' E	1189.2'
L6	S 00°36' E	1231.8'
L7	S 42°39' W	1500.1'
L8	S 71°16' W	1778.2'
L9	S 86°02' W	1742.1'

- A - DONALD E. REED ET AL. D.B. 217 PG. 228 T.M. 09 PAR. 33 1.052 AC±
- B - ROBERT L. REED ET AL. D.B. 243 PG. 555 T.M. 09 PAR. 63 1.089 AC±
- C - RICHARD D. BOWEN ET AL. D.B. 183 PG. 202 T.M. 09 PAR. 35 2 AC±
- D - MILDRED A. REED D.B. 243 PG. 558 T.M. 09 PAR. 34 0.711 AC±
- E - PAUL E. RICHARDS D.B. 308 PG. 428 T.M. 09 PAR. 62.1 1.23 AC±
- F - ROBERT P. THOMAS JR ET AL. D.B. 379 PG. 779 T.M. 09 PAR. 62.2 0.921 AC±



JOB # 12-104WT
 DRAWING # MECKLEY1405R2
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

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

LOCATION: ELEVATION 958' WATERSHED PURSLEY CREEK
 QUADRANGLE PADEN CITY 7.5'

SURFACE OWNER VELMA L. WELLS ACREAGE 225.28 ACRES +/-
 OIL & GAS ROYALTY OWNER VELMA L. WELLS ET AL; KEITH FREELAND ET UX; LEASE ACREAGE 225.28 ACRES±; 75 ACRES±;
 WACO OIL & GAS; BETTY MOREHEAD 144.3125 ACRES±; 73.62 ACRES±

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
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,225' TVD 13,172' MD

WELL OPERATOR TRIAD HUNTER, LLC. DESIGNATED AGENT KIMBERLY ARNOLD
 ADDRESS 777 POST OAK BLVD., SUITE 910 ADDRESS P.O. BOX 154
 HOUSTON, TX 77056 WAVERLY, WV 26184

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.

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

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

LEGEND

- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- X Existing Fence
- ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109

DATE 09/18/14

OPERATOR'S WELL# WELLS MECKLEY UNIT #1405

API WELL # 47 - 095 - 021.55 H6A

STATE COUNTY PERMIT

16/10/2014