

SURFACE HOLE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 462,657.77 : E - 1,749,828.11
LATITUDE: (N) 38.2873641 LONGITUDE: (W) 81.8713887
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,235,849.779 : E - 423,785.630
BOTTOM HOLE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 464,143.84 : E - 1,751,450.51
LATITUDE: (N) 38.2714862 LONGITUDE: (W) 81.8657843
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,236,302.559 : E - 424,280.015

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

FILE NO.	HR-OIL 1
DRAWING NO.	HR-OIL 1
SCALE	1" = 1000'
MINIMUM DEGREE OF ACCURACY	1:200
PROVEN SOURCE OF ELEVATION	MAPPING GRADE GPS

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 ENVIRONMENTAL PROTECTION.

(SIGNED) Paul E. Miller
R.P.E. _____ L.L.S. 647



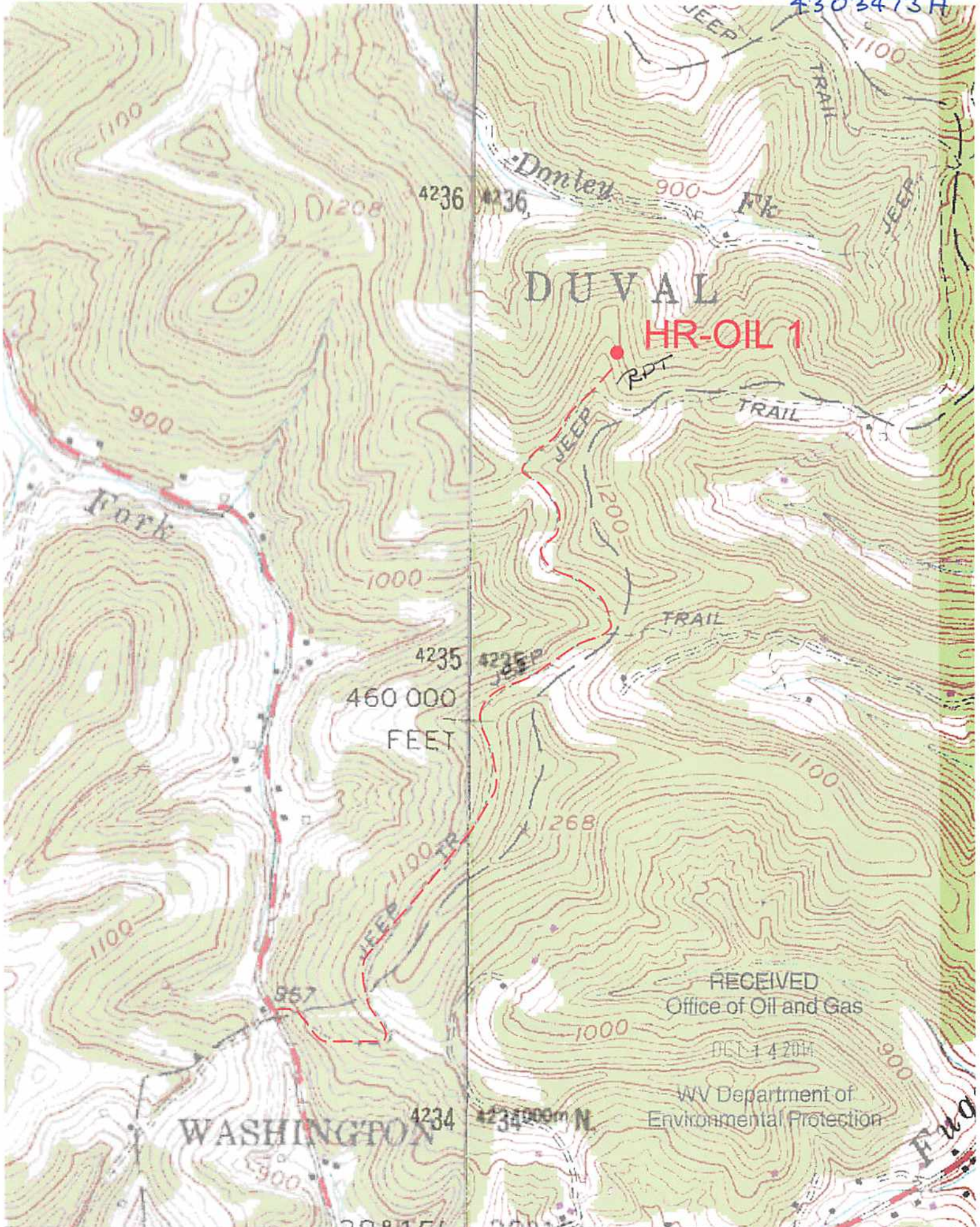
STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE	AUGUST 25	2014
	OPERATOR'S WELL NO.	HR-OIL 1	
	API WELL NO.	47	043
		STATE	COUNTY
		03473 H	
		PERMIT	
WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/>			
(IF "GAS,") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>			
LOCATION: ELEVATION 1,120'	WATER SHED	DONLEY FORK OF HAZLETT FORK	
DISTRICT	DUVAL	COUNTY	LINCOLN COUNTY
QUADRANGLE	ALUM CREEK, WV 7.5'		
SURFACE OWNER	ARTHUR BYRD	ACREAGE	114 AC
OIL & GAS ROYALTY OWNER	Stewart, Pettigrew, Pettigrew, Pettigrew, Pettigrew	LEASE ACREAGE	114 AC
PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____			
PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/>			
TARGET FORMATION	BEREA	ESTIMATED DEPTH	4570' MD; 2600' TVD
WELL OPERATOR	HARD ROCK EXPLORATION, INC.	DESIGNATED AGENT	JAMES L. STEVENS
ADDRESS	1244 MARTINS BR. RD., CHARLESTON, WV 26312	ADDRESS	SAME

11/21/2014

FORM WW-6

COUNTY NAME PERMIT

4303473H



460 000 FEET

DUVAL HR-OIL 1

RECEIVED
Office of Oil and Gas
OCT 14 2014

WV Department of
Environmental Protection

WASHINGTON

VEY, RESTON, VIRGINIA—1978

0.5 MI.

38° 15' 38° 15'
81° 52' 30"

424 7.3 MI. TO V