

<b>SURFACE HOLE</b>	
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 676,777.19 : E - 1,868,107.86	
LATITUDE: (N) 38.8576527 LONGITUDE: (W) 81.4631370	
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,301,091.664 : E - 459,829.393	
<b>BOTTOM HOLE</b>	
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 673,377.76 : E - 1,867,274.87	
LATITUDE: (N) 38.8483075 LONGITUDE: (W) 81.4660020	
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,300,055.933 : E - 459,575.516	

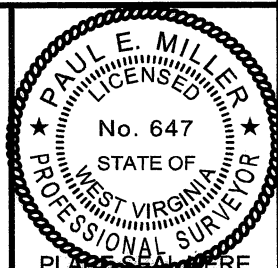
( + ) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	HR-451A.DGN
DRAWING NO.	451A
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 <u>OCTOBER 27</u> , 20 <u>11</u>	
		OPERATOR'S WELL NO. <u>HR-451A</u>	
		API WELL NO. <u>47 087 04706H</u>	
WELL TYPE: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/>		STATE <u>47</u> COUNTY <u>087</u> PERMIT <u>04706H</u>	
(IF "GAS,") PRODUCTION <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>		Revised	
LOCATION: ELEVATION <u>728'</u> WATER SHED <u>STAATS RUN OF MIDDLE FORK OF REEDY CREEK</u>		COUNTY NAME <u>ROANE</u>	
DISTRICT <u>REEDY</u> COUNTY <u>ROANE</u>		PERMIT <u>REVIS</u>	
QUADRANGLE <u>PENIEL, WV 7.5'</u>			
SURFACE OWNER <u>PATRICK AND KIM GENDRON FAMILY TRUST</u> ACREAGE <u>83.042</u>			
OIL & GAS ROYALTY OWNER <u>Tatterson, Huffman, Aultz</u> LEASE ACREAGE <u>170.60</u>			
LEASE NO. _____			
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input checked="" 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 <u>LOWER HURON</u> ESTIMATED DEPTH _____			
WELL OPERATOR <u>HARD ROCK EXPLORATION, INC.</u> DESIGNATED AGENT <u>JAMES L. STEPHENS</u>			
ADDRESS <u>1244 MARTINS BRANCH RD., CHARLESTON, WV 25312</u> ADDRESS <u>SAME</u>			

FORM WW-6

COUNTY NAME  
PERMIT

Owner

REEDY, WV 7.5'



+ 000' OF EXISTING ROAD  
 + 118' OF NEW CONSTRUCTION  
 = 118' TOTAL

PATRICK AND KIM GENDRON FAMILY TRUST

STAATS RUN

80' +0%

38' -5%

AREA II

AREA I

3/6

0.66 MILE TO INTERSECTION OF CO. RT. 3

PATRICK AND KIM GENDRON FAMILY TRUST

PIT W/LINER

PIT W/LINER

NOTE: SURFACE OWNERS SHOWN ON THIS DRAWING ARE TAKEN FROM LOCAL COUNTY ASSESSORS TAX MAPS AND SHOULD NOT BE RELIED UPON FOR SECURING RIGHTS OF WAY OR DAMAGE NEGOTIATIONS.

NOTE: THIS IS NOT A RIGHT OF WAY MAP.

DRAWING LEGEND	
	PROPERTY BOUNDARY
	DIVERSION
	ROAD
	SPRING
	WET SPOT
	PLANNED FENCE
	CULVERT (INCHES)
	STREAM
	WATER WAY
	OPEN DITCH
	CROSS DRAIN
	ROCK
	ARTIFICIAL FILTER STRIP
	NORTH
	PIT: CUT WALLS
	PIT: COMPACTED FILL WALLS
	BUILDINGS
	WATER WELLS
	DRILL SITE
	EXIT BARRIER
	LAND APPLICATION
	CULVERT SUMP
	HAY BALES
	BRUSH BARRIER

GENERAL NOTES

THIS DRAWING IS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. THE PROPOSED STRUCTURES, INCLUDING THE APPROXIMATE PLANNING CONFIGURATIONS, ARE SHOWN IN APPROXIMATE PRE-PLANNING CONFIGURATIONS.

TREES AND SLASH WILL BE CLEARED AS NECESSARY BEFORE ANY PROPOSED ROAD, SITE OR PIPELINE CONSTRUCTION BEGINS. IF SURFICENT RESIDUE MATERIALS ARE AVAILABLE, THEY SHALL BE USED TO REINFORCE AND RETAIN SEDIMENT FROM DISTURBED AREAS. ALL MARKETABLE TIMBER WILL BE CUT AND STACKED IN AREAS ADJACENT TO OPERATIONS.

ALL CULVERT PIPES WILL BE A MINIMUM OF 42" IN DIAMETER. ALL CULVERT PIPES SHALL BE INSTALLED AT AN ANGLE OF 1% TO 2% WITH DIMENSIONS NO LESS THAN 3 FT. (WIDTH) X 3 FT. (LENGTH) X 4 FT. (DEEP). CULVERTS WILL BE INSTALLED AT AN ANGLE TO ENSURE PROPER FLOW. THE OUTFALL OF CULVERTS WILL BE PROTECTED FROM EROSION AND SEDIMENTATION USING LARGE ROCKS OR OTHER SEDIMENT CONTROL DEVICES NECESSARY IN THE PREVENTION OF EROSION AND SEDIMENTATION. STORM WATER FROM THE RECLAIMATION PROCESS SHALL BE PRACTICALLY OPERATOR WILL HAVE OTHER SEDIMENT CONTROL IN PLACE TO MINIMIZE EROSION AND SEDIMENTATION.

TEMPORARY SEEDING: SEE ATTACHMENT #1.  
 GROSS DRAINS: BROAD BASED DIPS, WINTER BARS, AND DIVERSION DITCHES WILL BE EMPLOYED DURING THE CONSTRUCTION PHASE. THESE EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE USED TO CONTROL EROSION AND SEDIMENTATION DURING THE CONSTRUCTION PHASE, WHERE APPLICABLE AND AREAS THAT WILL ALLOW. THESE STRUCTURES WILL BE CONSIDERED PERMANENT AND USED AS SUCH. AFTER THE DRILLING AND COMPLETION PROCESS, GROSS DRAINS, BROAD BASED DIPS, WINTER BARS AND DIVERSION DITCHES WILL BE AN INTEGRAL PART OF THIS RECLAMATION PROCESS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE EROSION AND SEDIMENT CONTROL FIELD MANUAL.

PERMANENT SEEDING: SEE ATTACHMENT #1

HARD ROCK EXPLORATION, INC.

1244 MARTINS BR. RD.  
 CHARLESTON, WV 25312

RECLAMATION PLAN  
 PROPOSED LOCATION 451A

STAATS RUN OF MIDDLE FORK OF REEDY CREEK  
 REEDY DIST., JACKSON CO., WV

DATE:	10-27-11	SCALE:		FILE:		DRAWING NO.:	1 OF 1
PREPARED BY:	TRUE LINE SURVEYING, INC.			FILE:	HR450AREC.DGN		