

PERKINS OIL & GAS INC. FLANAGAN HRS LEASE 343.65 ACRES± WELL NO. 2

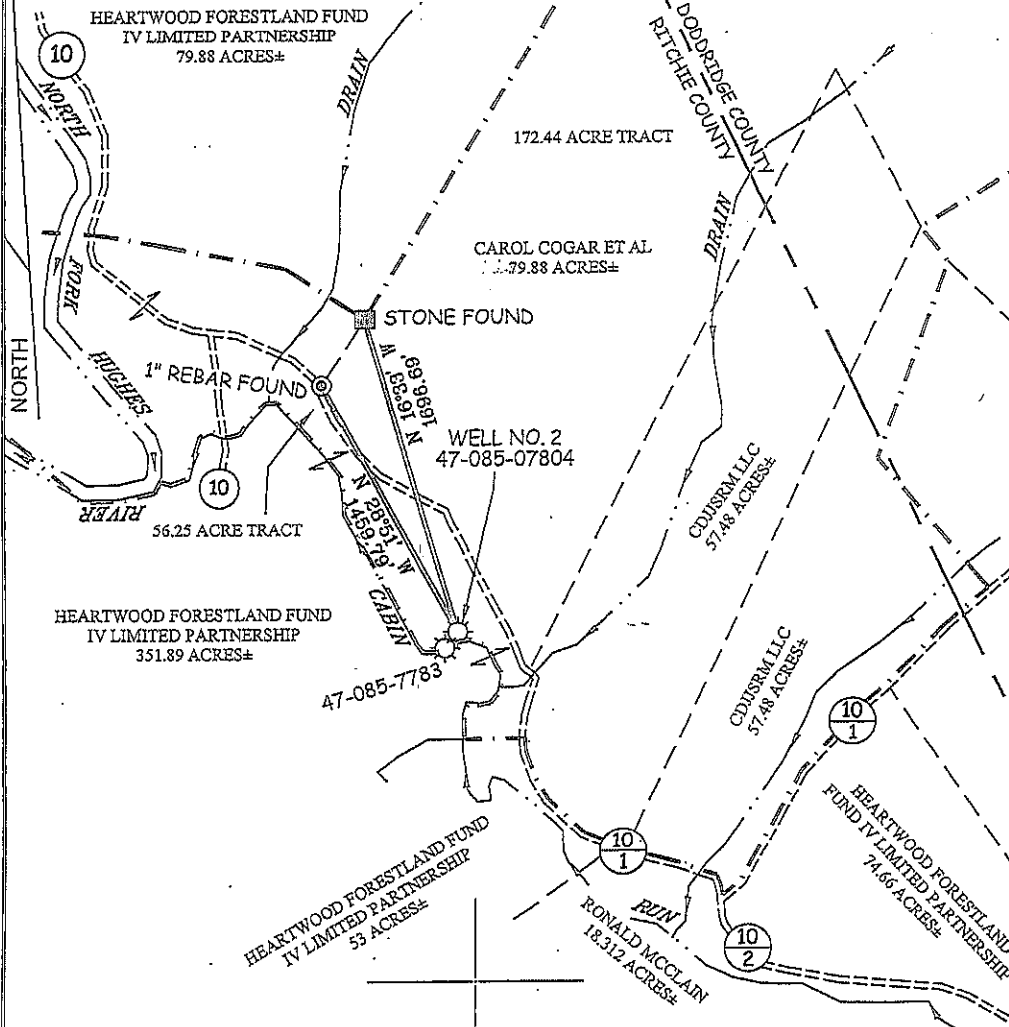
WELL NO. 2
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)

N. 278,381'
E. 1,600,024'

LAT=(N) 39.25569
LONG=(W) 80.91251

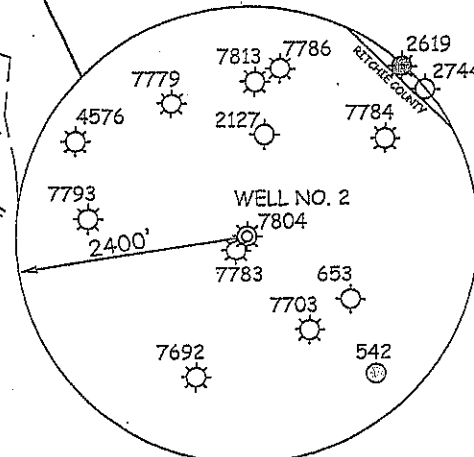
UTM (NAD'83)(METRIC)
N. 4,345,164
E. 507,563

LONGITUDE 80°52'30"



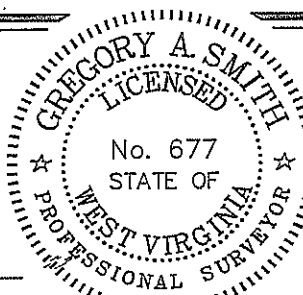
NOTES ON SURVEY

1. TIES TO THE CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE-NAD '27.
2. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2011.
3. WELL LAT./LONG. (NAD'27) AND UTM (NAD'83) ESTABLISHED BY DGPS(MAPPING GRADE).



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. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE FEBRUARY 1, 20 12
OPERATORS WELL NO. FLANAGAN NO. 2
API WELL NO. 47-085-07804 F
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7785P2(397-63)
PROVEN SOURCE OF ELEVATION DGPS (MAPPING GRADE) 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 794 WATERSHED CABIN RUN
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
SURFACE OWNER HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP ACREAGE 351.89±
ROYALTY OWNER FLANAGAN HRS ACREAGE 343.65±

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) RE-FRAC. MAXTON & BIG INJUN SANDS TARGET FORMATION MAXTON / BIG INJUN
ESTIMATED DEPTH 1580' - 1760'

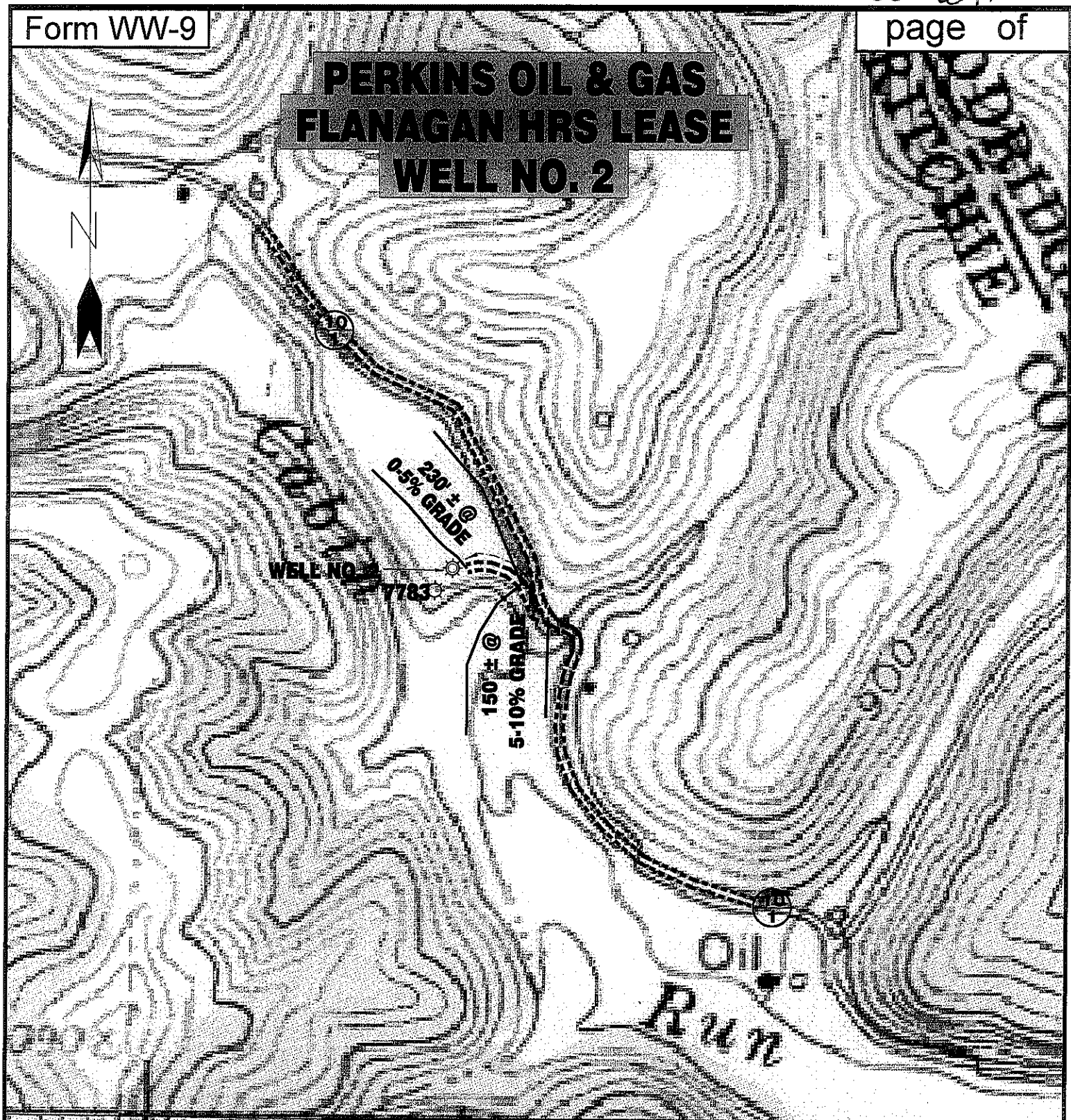
WELL OPERATOR PERKINS OIL & GAS INC. DESIGNATED AGENT CLINTON PERKINS
ADDRESS P.O. BOX 547 ADDRESS P.O. BOX 547
PENNSBORO, WV 26415 PENNSBORO, WV 26415

COUNTY NAME

PERMIT

05/18/2012

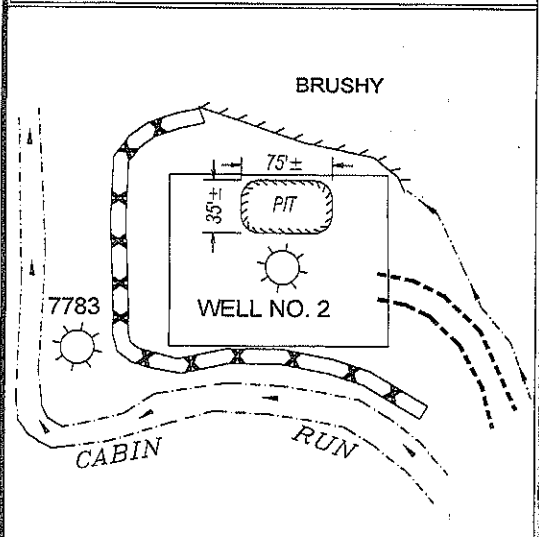
PERKINS OIL & GAS FLANAGAN HRS LEASE WELL NO. 2



SCALE: 1" = 500'



Detail Sketch for Well No. 2



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES)

— EXISTING CULVERT ⊕ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

⊗ = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL



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DRAWN BY K.D.W.	FILE NO. 7785	DATE 01/27/12	CADD FILE: 7785REC.7804.DWG
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TOPO SECTION OF PENNSBORO 7.5'
USGS TOPO QUADRANGLE

05/18/2012