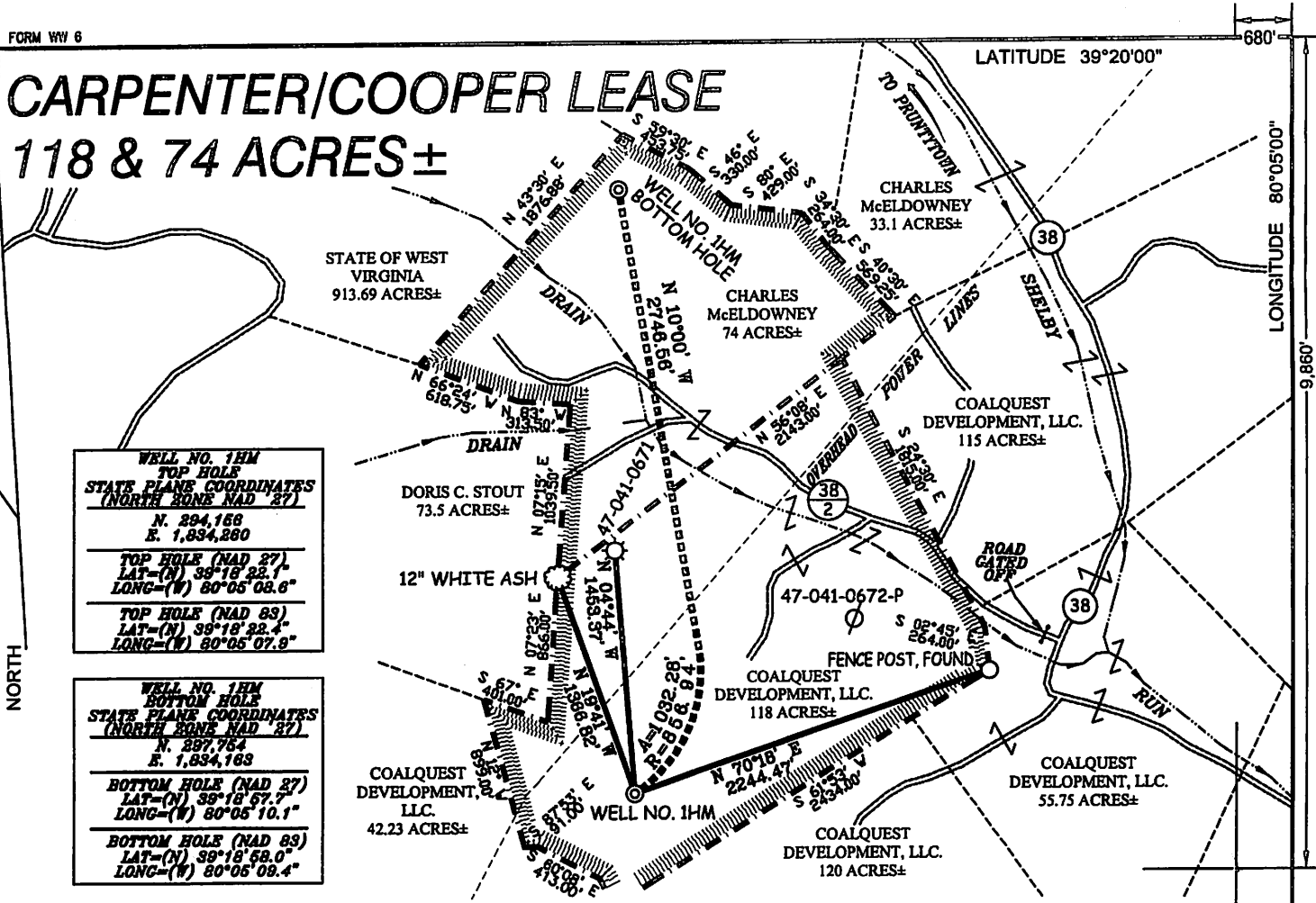


# CARPENTER/COOPER LEASE

## 118 & 74 ACRES±



**WELL NO. 1HM TOP HOLE**  
 STATE PLANE COORDINATES  
 (NORTH ZONE NAD '27)  
 N. 294,168  
 E. 1,834,880

**TOP HOLE (NAD '27)**  
 LAT-(N) 39°18'22.1"  
 LONG-(W) 80°05'08.6"

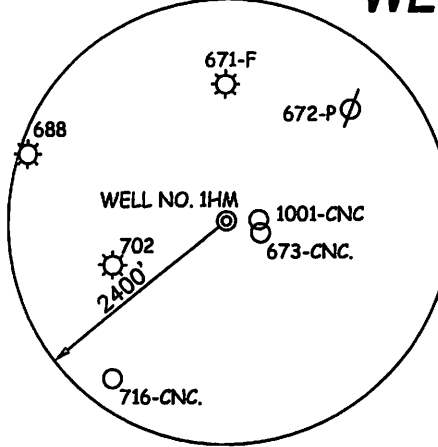
**TOP HOLE (NAD '83)**  
 LAT-(N) 39°18'22.4"  
 LONG-(W) 80°05'07.9"

**WELL NO. 1HM BOTTOM HOLE**  
 STATE PLANE COORDINATES  
 (NORTH ZONE NAD '27)  
 N. 297,754  
 E. 1,834,183

**BOTTOM HOLE (NAD '27)**  
 LAT-(N) 39°18'57.7"  
 LONG-(W) 80°05'10.1"

**BOTTOM HOLE (NAD '83)**  
 LAT-(N) 39°18'58.0"  
 LONG-(W) 80°05'09.4"

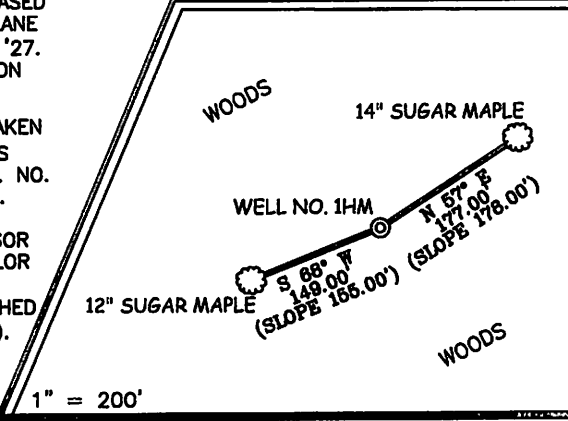
### WELL NO. ROBERT CARPENTER NO. 1HM



#### NOTES ON SURVEY

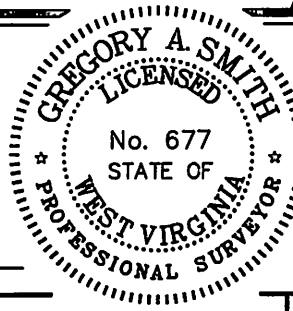
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/07/09.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 10/17/1990 AS PREPARED BY JEFFREY ADAMS FOR A.P.I. NO. 47-091-671 AND ADJOINING DEEDS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

#### REFERENCES



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. *Gregory A. Smith*  
 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 26, 20 09  
 OPERATORS WELL NO. ROBERT CARPENTER NO. 1HM  
 API WELL NO. 47-091-01165H  
 STATE WV COUNTY MARSH PERMIT 1165H

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6387P1HM (282-79)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER 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 1,415' WATERSHED SHELBY RUN  
 DISTRICT COURT HOUSE COUNTY TAYLOR QUADRANGLE GRAFTON 7.5'  
 SURFACE OWNER COALQUEST DEVELOPMENT, LLC. ACREAGE 118±  
 ROYALTY OWNER ROBERT L. CARPENTER, ET UX(118 ACRES) & MONA COOPER, ET AL(74 ACRES) LEASE ACREAGE 118± & 74±  
 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 SHALE  
 ESTIMATED DEPTH 7,950'TVD/11,550'MD

WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT ALAN H. SMITH  
 ADDRESS 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330 ADDRESS 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330

COUNTY NAME  
 PERMIT