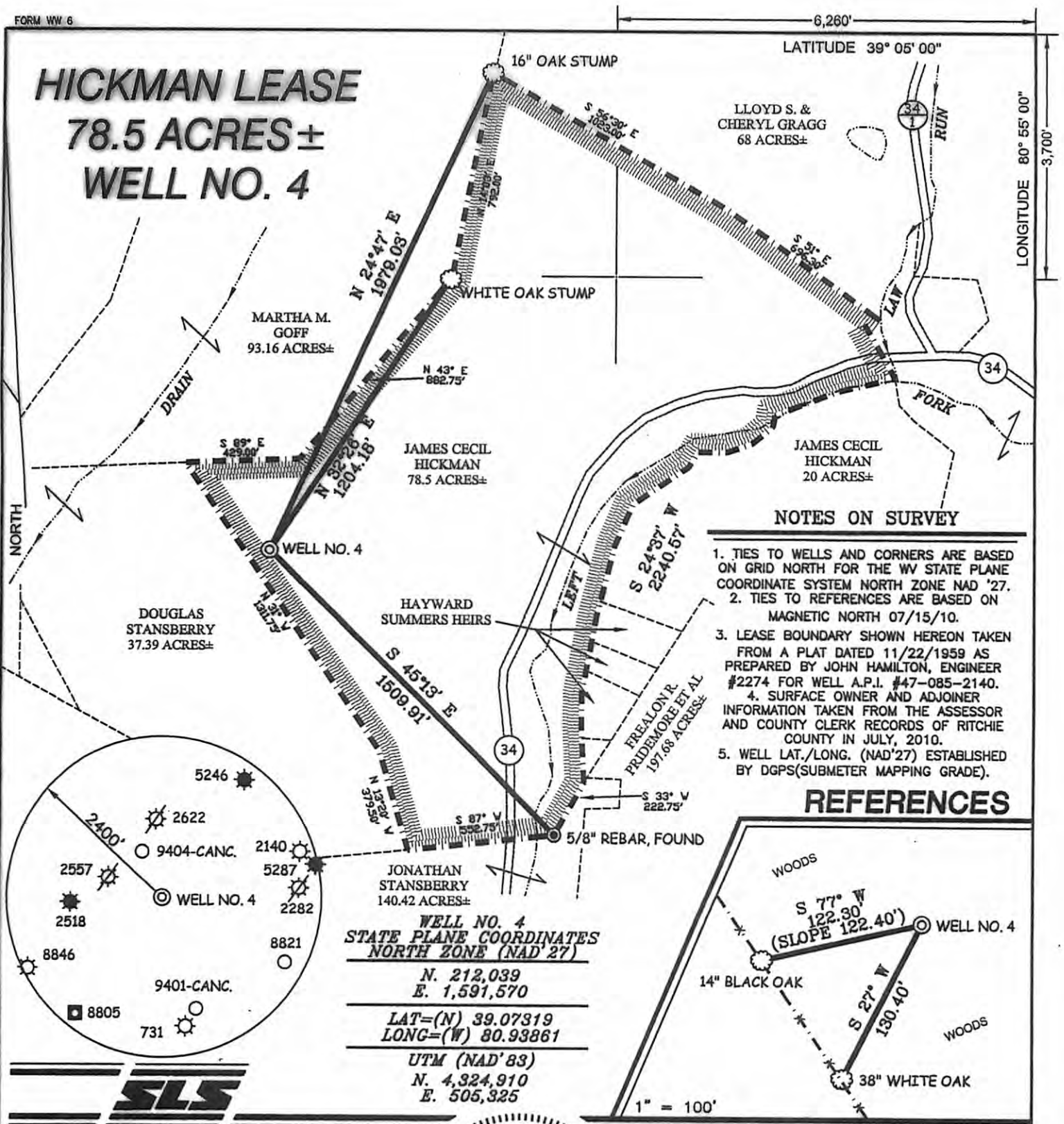


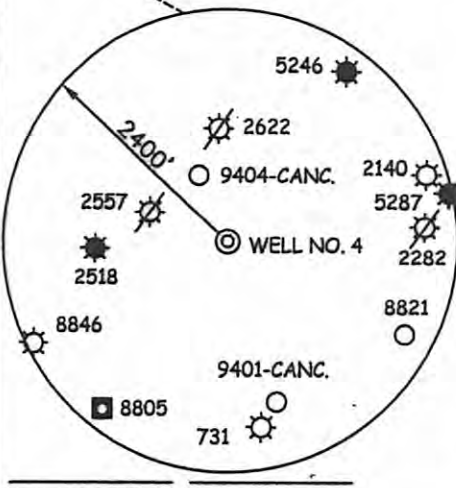
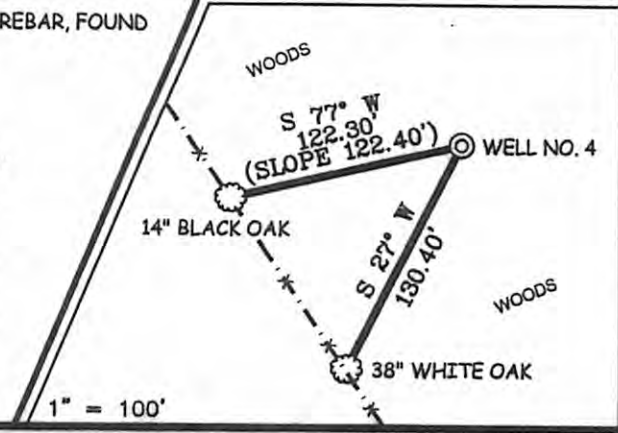
HICKMAN LEASE 78.5 ACRES± WELL NO. 4



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 07/15/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 11/22/1959 AS PREPARED BY JOHN HAMILTON, ENGINEER #2274 FOR WELL A.P.I. #47-085-2140.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2010.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

REFERENCES



**WELL NO. 4
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)**

N. 212,039
E. 1,591,570

LAT=(N) 39.07319
LONG=(W) 80.93861

UTM (NAD'83)
N. 4,324,910
E. 505,325

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 JULY 19, 20 10
OPERATORS WELL NO. HICKMAN #4
API WELL NO. 47 - 085 - 09896
STATE CANCELLED COUNTY CANCELLED PERMIT CANCELLED

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7510P4 (311-28)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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 1,115' WATERSHED LEFT FORK OF SPRUCE CREEK
DISTRICT UNION COUNTY RITCHIE QUADRANGLE BURNT HOUSE 7.5'

SURFACE OWNER JAMES CECIL HICKMAN ACREAGE 78.5±
ROYALTY OWNER JAMES CECIL HICKMAN ET AL LEASE ACREAGE 78.5±

PROPOSED WORK:
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 DEVONIAN SHALE
ESTIMATED DEPTH 5,990'

WELL OPERATOR DORWARD ENERGY DESIGNATED AGENT EDWIN BARTLETT
ADDRESS 447 THIRD AVE. NORTH, SUITE 400 ADDRESS ROUTE 1 BOX 2
ST. PETERSBURG, FL 33701 PULLMAN, WV 26241

04/25/2014