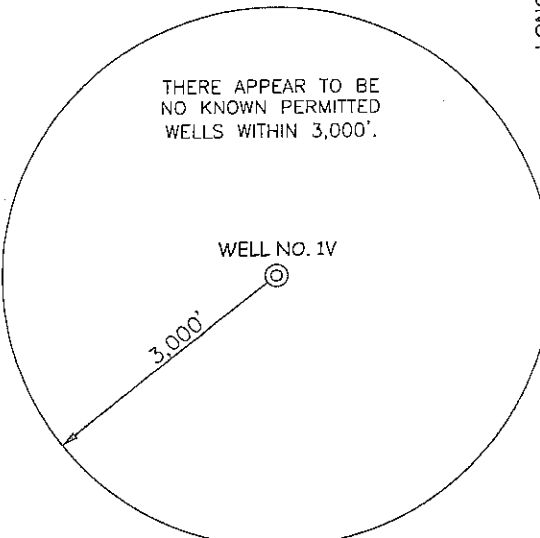
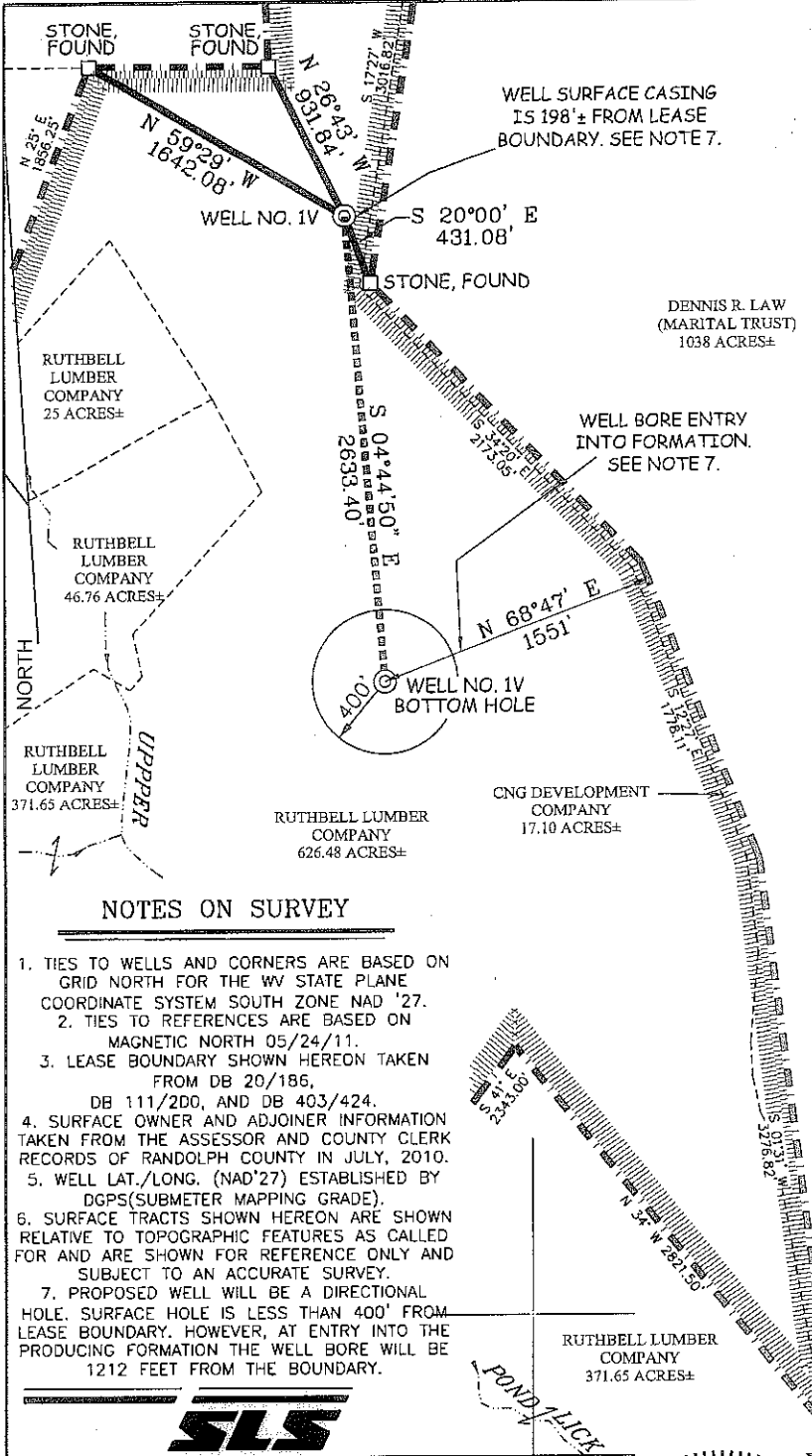


BOWDEN LEASE 900 ACRES ± WELL NO. 1V

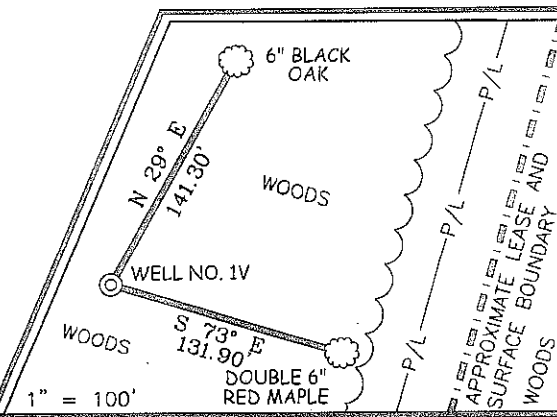


WELL NO. 1V STATE PLANE COORDINATES NORTH ZONE (NAD'27)	WELL NO. 1V BOTTOM HOLE STATE PLANE COORDINATES NORTH ZONE (NAD'27)
N. 685,625	N. 683,000
E. 2,357,967	E. 2,358,185
LAT=(N) 38.87618	LAT=(N) 38.86897
LONG=(W) 79.74265	LONG=(W) 79.74201
UTM (NAD'83)	UTM (NAD'83)
N. 4,303,800	N. 4,303,000
E. 609,086	E. 609,153

NOTES ON SURVEY

- TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
- TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05/24/11.
- LEASE BOUNDARY SHOWN HEREON TAKEN FROM DB 20/186, DB 111/200, AND DB 403/424.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RANDOLPH COUNTY IN JULY, 2010.
- WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
- SURFACE TRACTS SHOWN HEREON ARE SHOWN RELATIVE TO TOPOGRAPHIC FEATURES AS CALLED FOR AND ARE SHOWN FOR REFERENCE ONLY AND SUBJECT TO AN ACCURATE SURVEY.
- PROPOSED WELL WILL BE A DIRECTIONAL HOLE. SURFACE HOLE IS LESS THAN 400' FROM LEASE BOUNDARY. HOWEVER, AT ENTRY INTO THE PRODUCING FORMATION THE WELL BORE WILL BE 1212 FEET FROM THE BOUNDARY.

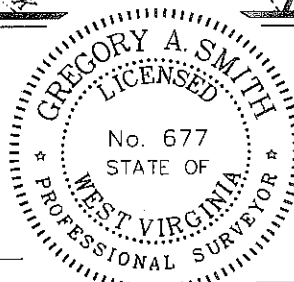
REFERENCES



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. 677

Gregory A. Smith



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

DATE MAY 25, 20 11
 REVISED DATE JUNE 17, 20 11
 OPERATORS WELL NO. UPPER POND #1V
 API WELL NO. 47-083-01251
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7557P1VR2 (346-50)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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 3,740' WATERSHED UPPER POND LICK

DISTRICT BEVERLY COUNTY RANDOLPH QUADRANGLE BOWDEN 7.5'

SURFACE OWNER RUTHBELL LUMBER COMPANY ACREAGE 626.48±

ROYALTY OWNER E & K PROPERTIES, L.P. ACREAGE 900±

PROPOSED WORK: LEASE NO. _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD

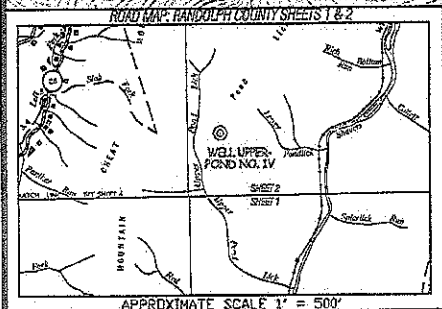
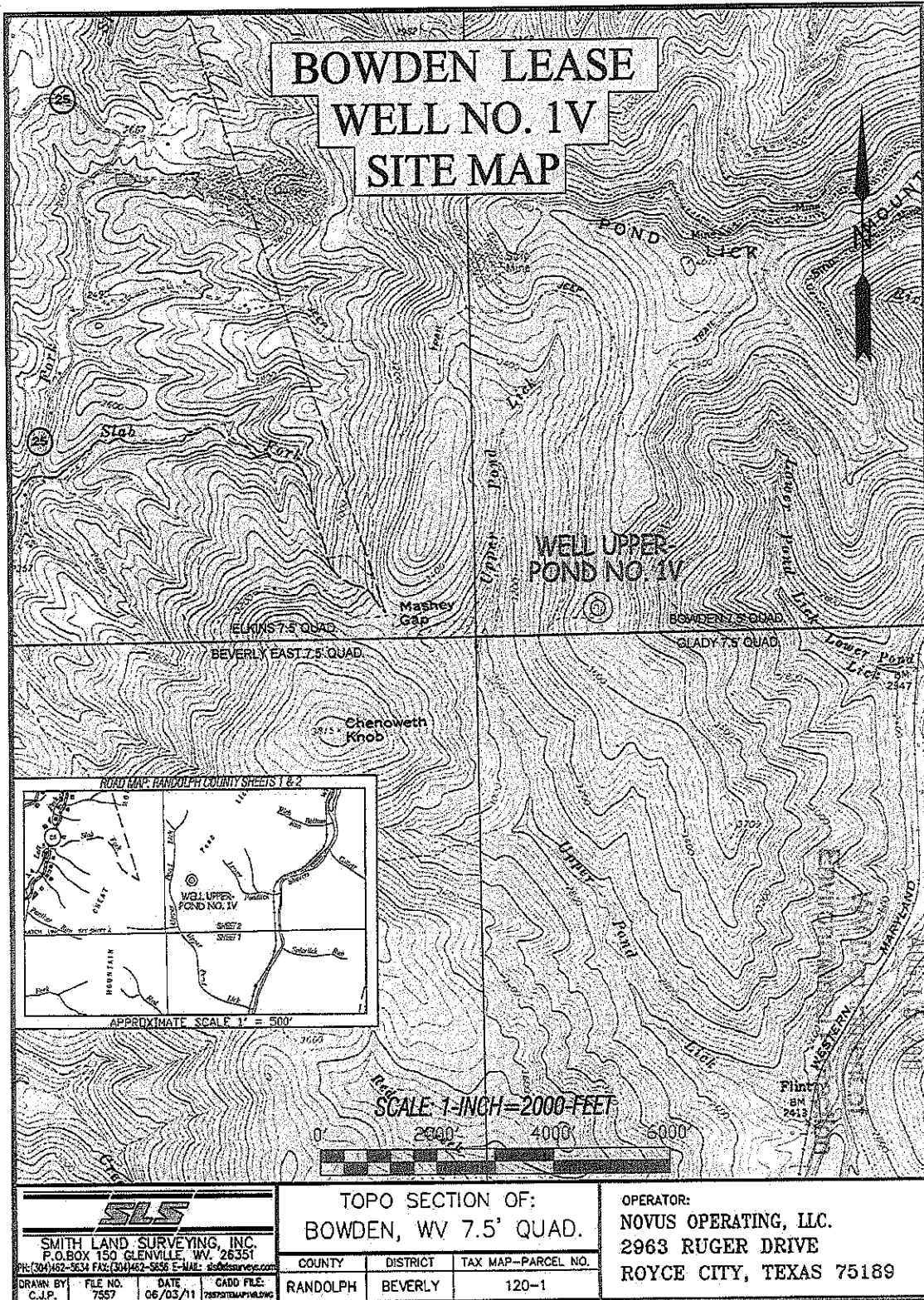
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER


PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ORISKANY

ESTIMATED DEPTH 8,500' (TOTAL VERTICAL DEPTH)

WELL OPERATOR NOVUS OPERATING, LLC. DESIGNATED AGENT CHARLES B. DOLLISON
 ADDRESS 2963 RUGER DRIVE ADDRESS P.O. BOX 1386
ROYCE CITY, TEXAS 75189 CHARLESTON, WV 25325

COUNTY NAME PERMIT



				TOPO SECTION OF: BOWDEN, WV 7.5' QUAD.		OPERATOR: NOVUS OPERATING, LLC. 2963 RUGER DRIVE ROYCE CITY, TEXAS 75189	
SMITH LAND SURVEYING, INC. P.O. BOX 150 GLENVILLE, WV, 26351 PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sls@slsurvey.com				COUNTY	DISTRICT	TAX MAP-PARCEL NO.	
DRAWN BY	FILE NO.	DATE	CADD FILE:	RANDOLPH	BEVERLY	120-1	
C.J.P.	7557	06/03/11	7557STATEMAP.VLDWG				

RECEIVED
 Office of Oil & Gas