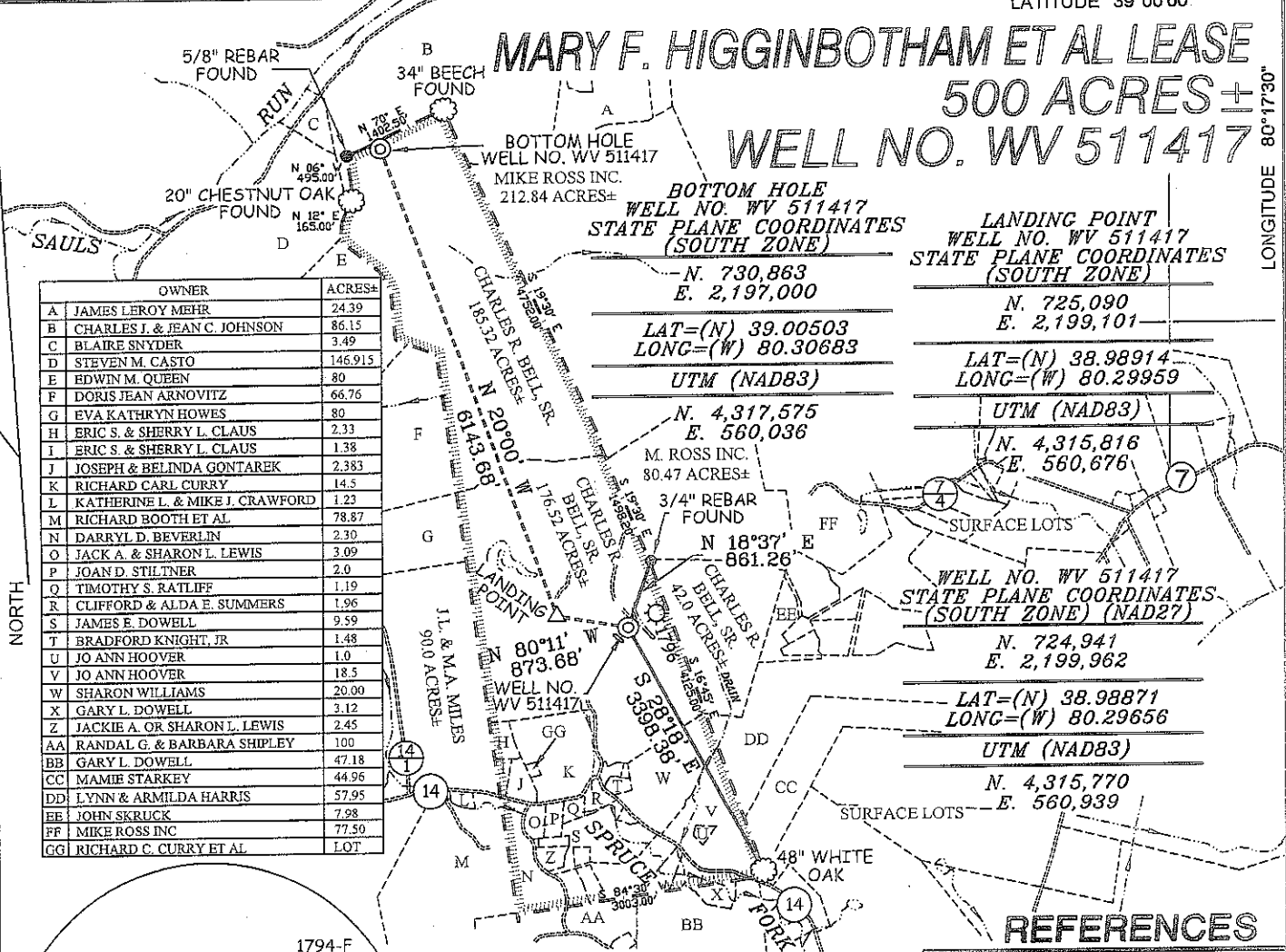


MARY F. HIGGINBOTHAM ET AL LEASE 500 ACRES ± WELL NO. WV 511417



OWNER	ACRES±
A JAMES LEROY MEHR	24.39
B CHARLES J. & JEAN C. JOHNSON	86.15
C BLAIRE SNYDER	3.49
D STEVEN M. CASTO	146.915
E EDWIN M. QUEEN	80
F DORIS JEAN ARNOVITZ	66.76
G EVA KATHRYN HOWES	80
H ERIC S. & SHERRY L. CLAUS	2.33
I ERIC S. & SHERRY L. CLAUS	1.38
J JOSEPH & BELINDA GONTAREK	2.383
K RICHARD CARL CURRY	14.5
L KATHERINE L. & MIKE J. CRAWFORD	1.23
M RICHARD BOOTH ET AL	78.87
N DARRYL D. BEVERLIN	2.30
O JACK A. & SHARON L. LEWIS	3.09
P JOAN D. STILTNER	2.0
Q TIMOTHY S. RATLIFF	1.19
R CLIFFORD & ALDA E. SUMMERS	1.96
S JAMES E. DOWELL	9.59
T BRADFORD KNIGHT, JR	1.48
U JO ANN HOOVER	1.0
V JO ANN HOOVER	18.5
W SHARON WILLIAMS	20.00
X GARY L. DOWELL	3.12
Z JACKIE A. OR SHARON L. LEWIS	2.45
AA RANDAL G. & BARBARA SHIPLEY	100
BB GARY L. DOWELL	47.18
CC MAMIE STARKEY	44.96
DD LYNN & ARMILDA HARRIS	57.95
EE JOHN SKRUCK	7.98
FF MIKE ROSS INC	77.50
GG RICHARD C. CURRY ET AL	LOT

BOTTOM HOLE
WELL NO. WV 511417
STATE PLANE COORDINATES
(SOUTH ZONE)
N. 730,863
E. 2,197,000

LANDING POINT
WELL NO. WV 511417
STATE PLANE COORDINATES
(SOUTH ZONE)
N. 725,090
E. 2,199,101

LAT=(N) 39.00503
LONG=(W) 80.30683
UTM (NAD83)

LAT=(N) 38.98914
LONG=(W) 80.29959
UTM (NAD83)

N. 4,317,575
E. 560,036

N. 4,315,816
E. 560,676

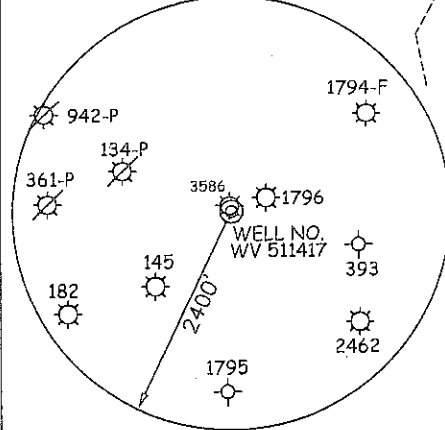
N 18°37' E
861.26

WELL NO. WV 511417
STATE PLANE COORDINATES
(SOUTH ZONE) (NAD27)
N. 724,941
E. 2,199,962

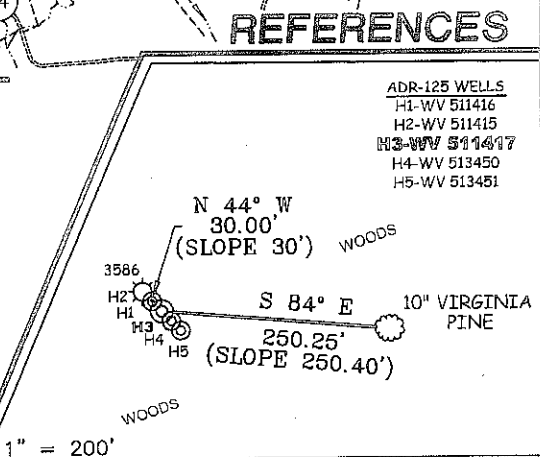
WELL NO. WV 511417
N 80°11' 873.68'

LAT=(N) 38.98871
LONG=(W) 80.29656
UTM (NAD83)

N. 4,315,770
E. 560,939



- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 06/18/10.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 399 AT PAGE 785.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF UPSHUR COUNTY IN JULY, 2011.
 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
 6. ORIGINAL PLAT DATED 11/10/11 REVISED 07/29/11 TO UPDATE SPOT CIRCLE & ADJOINER INFORMATION, ETC.



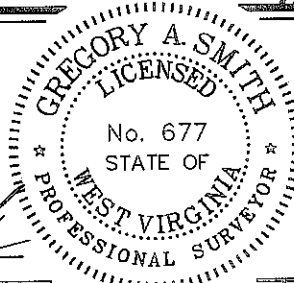
REFERENCES

- ADR-125 WELLS
- H1-WV 511416
- H2-WV 511415
- H3-WV 511417
- H4-WV 513450
- H5-WV 513451



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 29, 20 11
OPERATORS WELL NO. WV 511417
API WELL NO. 47-097-03814
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 6282P511417R2 (298-59)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

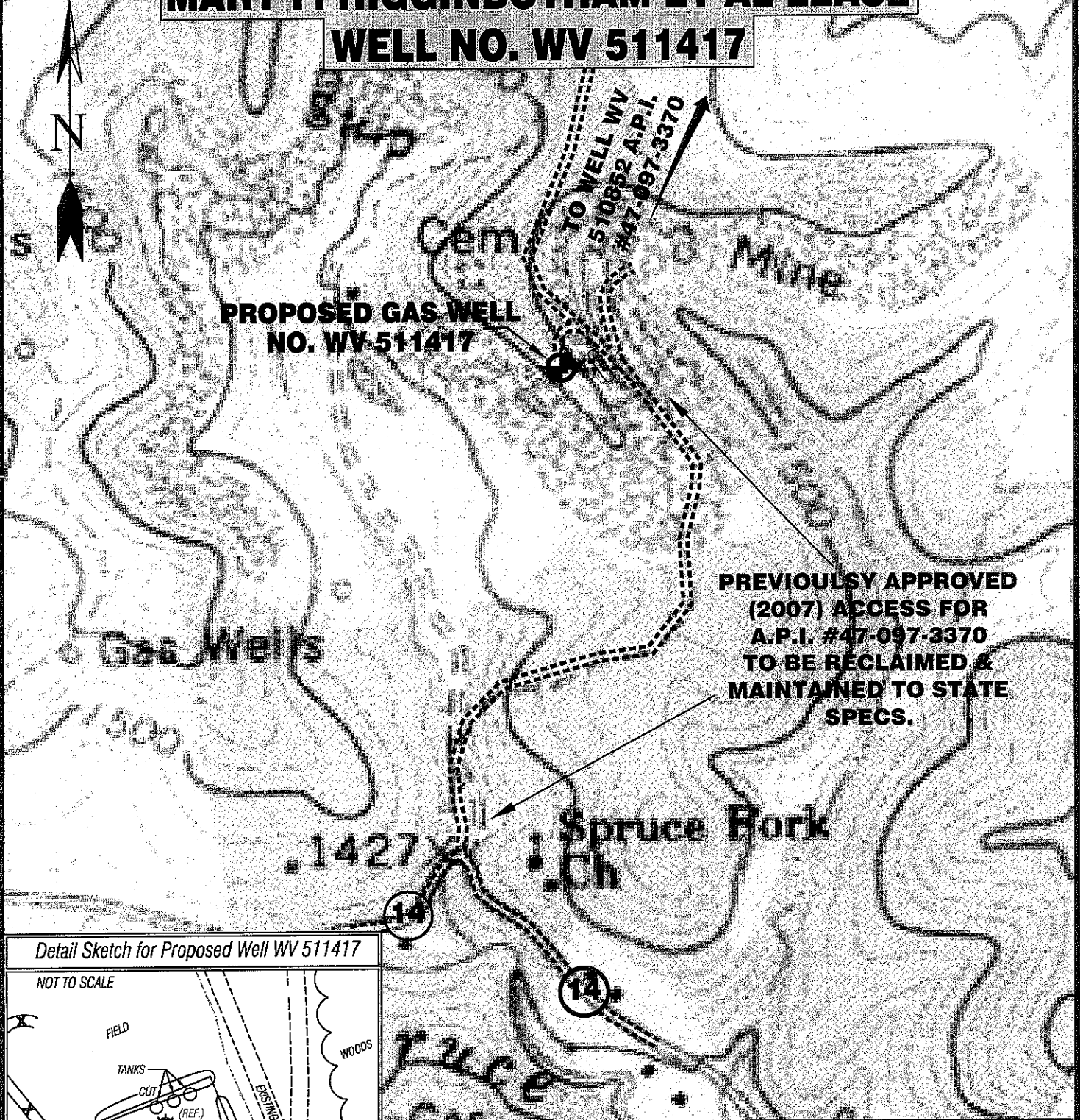
LOCATION: ELEVATION 1,570' WATERSHED TRIBUTARY OF SPRUCE FORK
DISTRICT BUCKHANNON COUNTY UPSHUR QUADRANGLE ADRIAN 7.5'

SURFACE OWNER CHARLES R. BELL, SR. ACREAGE 176.52±
ROYALTY OWNER BISHOP OF THE PROTESTANT EPISCOPAL CHURCH OF THE DIOCESE OF W.V. LEASE ACREAGE 500±
PROPOSED WORK: LEASE NO. 121717
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
ESTIMATED DEPTH _____

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302 **02/24/2012**

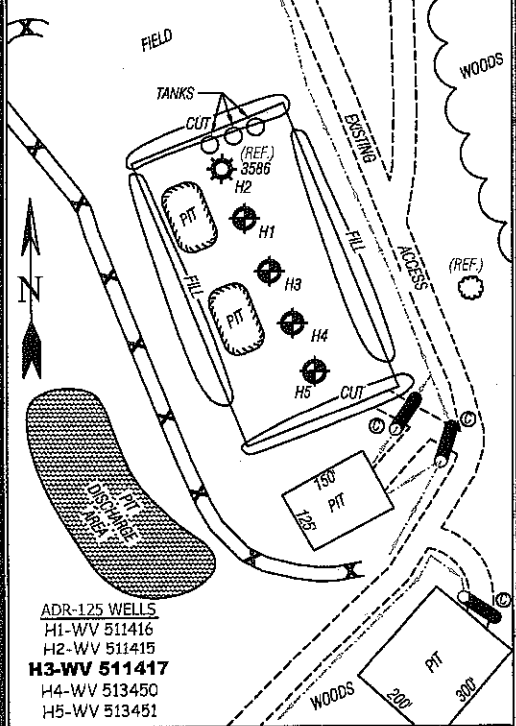
COUNTY NAME
PERMIT

MARY F. HIGGINBOTHAM ET AL LEASE WELL NO. WV 511417



Detail Sketch for Proposed Well WV 511417

NOT TO SCALE



- ADR-125 WELLS
- H1-WV 511416
- H2-WV 511415
- H3-WV 511417**
- H4-WV 513450
- H5-WV 513451

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).

SCALE: 1"=500'



- = EXISTING CULVERT
- = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL.

SMITH LAND SURVEYING, INC.
P.O. BOX 150 GLENVILLE, WV. 26351
PH: (304)462-5634 FAX: (304)462-5656 E-MAIL: sls@slssurveying.com

DRAWN BY C.J.P.	FILE NO. 6282	DATE 04/28/11	CADD FILE: 6282REC\WV511417R3.DWG
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TOPO SECTION OF
USGS ADRIAN 7.5' QUADRANGLE

02/24/2012