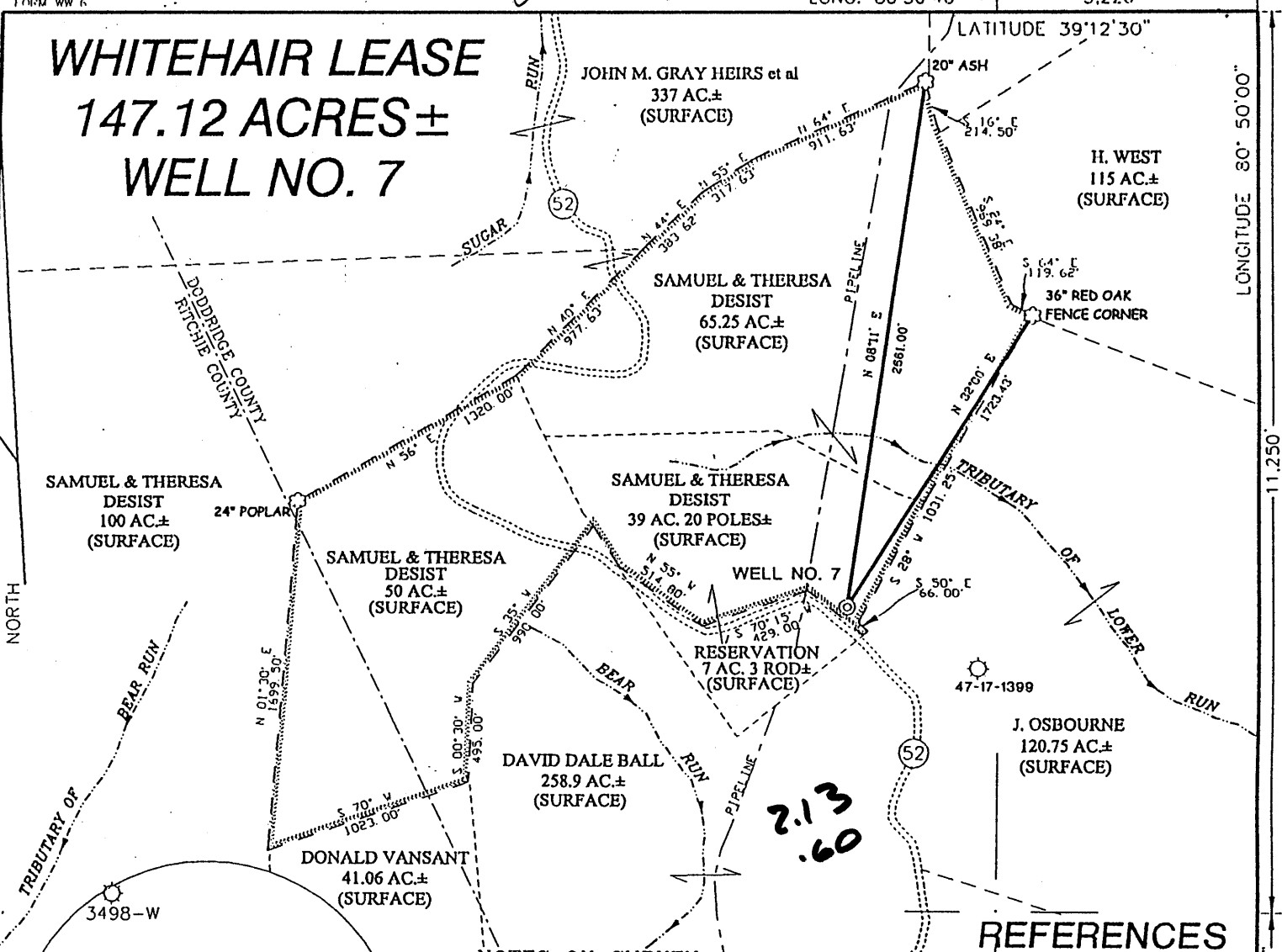


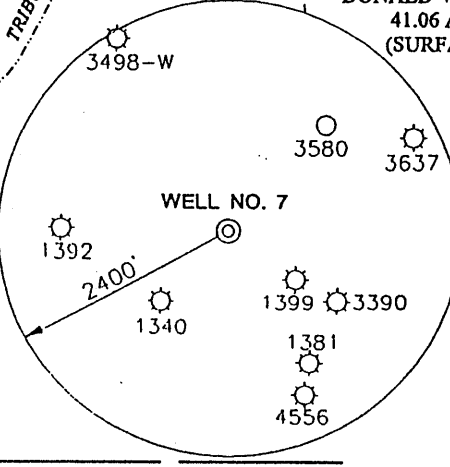
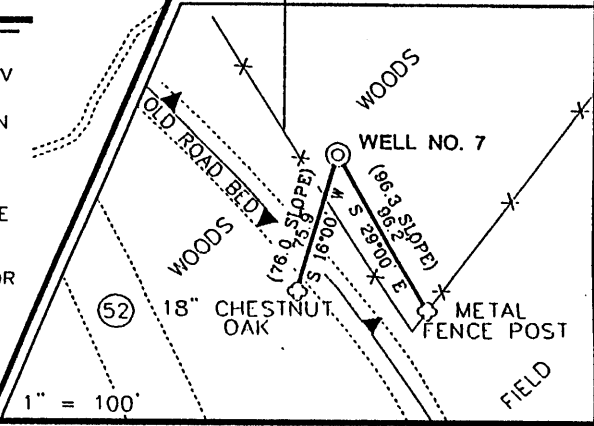
# WHITEHAIR LEASE 147.12 ACRES± WELL NO. 7



### NOTES ON SURVEY

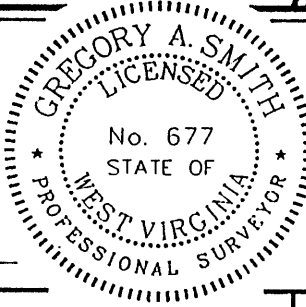
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 5/14/01
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 245 PAGES 188-189, RECORDED IN THE DODDRIDGE COUNTY CLERKS OFFICE.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN MAY, 2001.
5. WELL LAT./LONG. 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION


P.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JUNE 14, 2001  
OPERATORS WELL NO. WHITEHAIR NO.7  
API WELL NO. 47-17-04620  
STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT 4620

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4352P7(104-30)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1214' SCALE 1" = 800'

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 1138' WATERSHED BEAR RUN  
DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'  
SURFACE OWNER SAMUEL AND THERESA F. DESIST ACREAGE 31.2 OF 147.12  
ROYALTY OWNER PAULINE WHITEHAIR ET. AL. LEASE ACREAGE 147.12  
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 ALEXANDER  
ESTIMATED DEPTH 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

6-6 133

JUL 20 2001

COUNTY NAME Dodd PERMIT 4620



47-017-04620  
Whitehair # 7

Stage #1	perfs	sand	
Alexander	5095-5145	600 sks	60 quality foam
Stage #2			
Benson/3 <sup>rd</sup> Riley	4742-4833	400 sks	60 quality foam
Stage #3			
Riley	4424-4452	400 sks	60 quality foam
Stage #4			
Spechley/Warren	3294-3419	500 sks	60 quality foam

Drillers Log

Electric Log Tops

KB/GL	0-10	
RR/Shale	10-30	
RR	30-42	
Sd/	42-60	
Sd/Sh	60-100	
RR	100-130	
Sd/Sh	130-227	water @ 170' ½" stream
Sd/	227-237	
Sd/Sh	237-350	
RR	350-432	
Sd/	432-490	
SdSh	490-580	
Sd	580-589	
RR/Sh	589-595	
Sd/Sh	595-717	
Sand	717-721	
RR/Shale	721-743	
Sd/Sh	743-1874	oil odor @ 1110'
L. Lime	1874-1902	
Big Lime	1902-2005	gas check @ 1924' 84 mcf
Big Injun	2005-2052	
Sd/Sh	2052-3330	gas check @ 3118' 199 mcf ; gas check @ 3320' 105 mcf
Warren	3330-3360	
Sd/Sh	3360-3680	gas check @ 3600' 105 mcf
Balltown	3680-4460	gas check @ 4408' 105 mcf
Riley	4460-4500	
Sd/Sh	4500-4854	gas check @ 4804' 105 mcf
Benson	4854-4870	
Sd/Sh	4870-5120	gas check @ 5109' 105 mcf
Alexander	5120-5160	
Sd/Sh	5160-5328	
TD	5328	