

**WELL NO. LEER 1301
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)**

N. 295,491
E. 1,865,734

DOROTHY FORMAN
(HEIRS) C/O KAREN
DUVALL
108.24 ACRES±

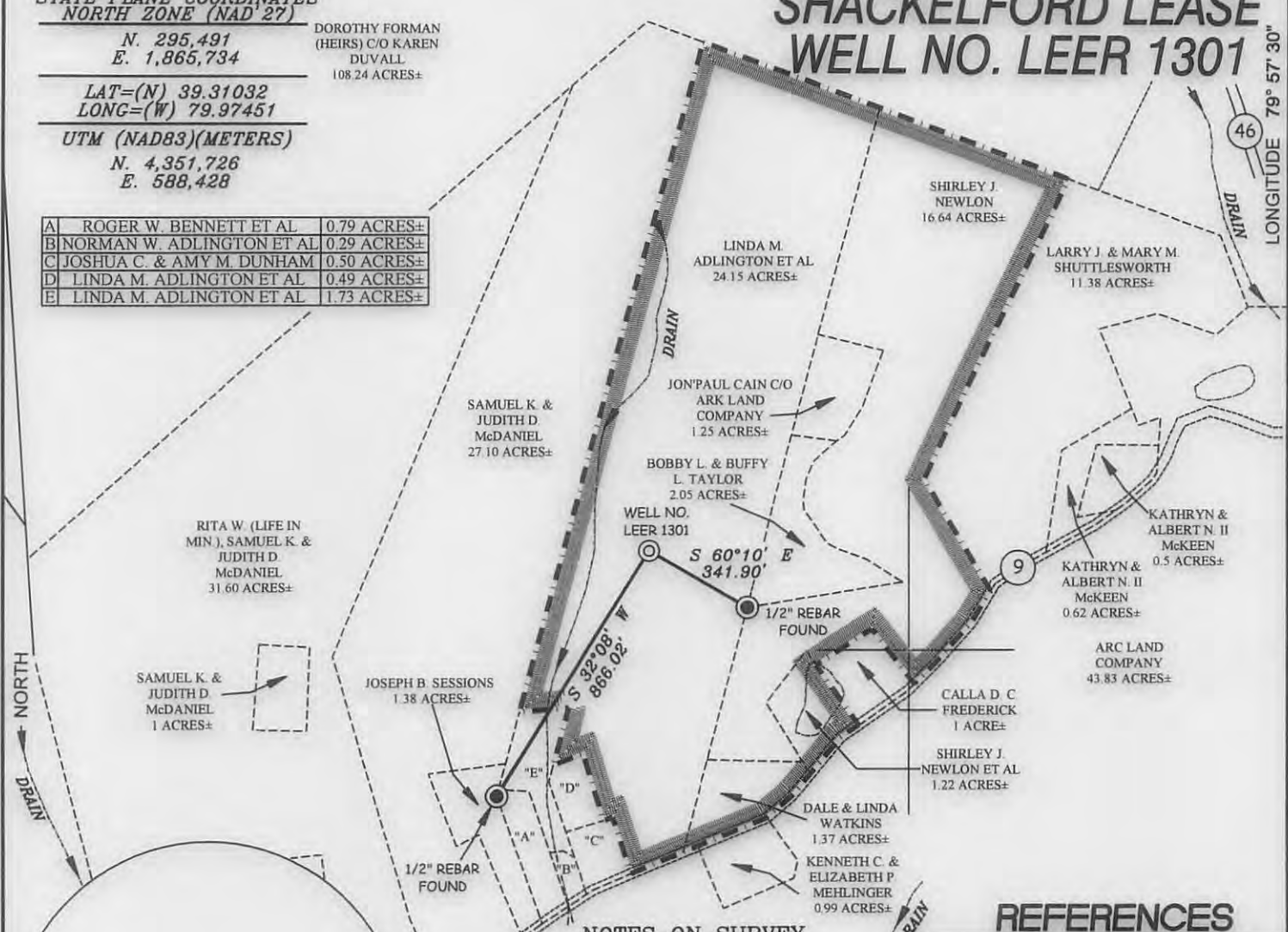
LAT=(N) 39.31032
LONG=(W) 79.97451

UTM (NAD83)(METERS)

N. 4,351,726
E. 588,428

A	ROGER W. BENNETT ET AL	0.79 ACRES±
B	NORMAN W. ADLINGTON ET AL	0.29 ACRES±
C	JOSHUA C. & AMY M. DUNHAM	0.50 ACRES±
D	LINDA M. ADLINGTON ET AL	0.49 ACRES±
E	LINDA M. ADLINGTON ET AL	1.73 ACRES±

**SHACKELFORD LEASE
WELL NO. LEER 1301**



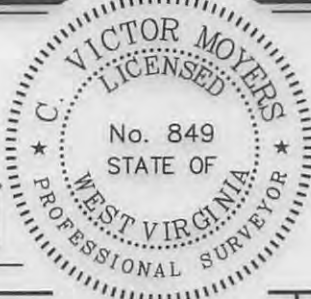
NOTES ON SURVEY

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 12-19-13.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 91 PAGE 103, WELL PLAT 47-091-0507 DATED 05/20/85 AND OTHER ADJOINING DEEDS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY TIE TO COAL COMPANY CONTROL NETWORK STATIONS 14 & 15.

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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 26, 20 13
OPERATORS WELL NO. LEER 1301
API WELL NO. 47 - 91 - 01289
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8119P1301(479-63)
PROVEN SOURCE OF ELEVATION TIE TO COAL COMPANY CONTROL NETWORK STATIONS 14 & 15
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 1508.1' WATERSHED SWAMP RUN OF SANDY CREEK
DISTRICT KNOTTSVILLE COUNTY TAYLOR QUADRANGLE THORNTON 7.5'

SURFACE OWNER LINDA ADLINGTON & PAMELA BENNETT ACREAGE 24.15±
ROYALTY OWNER LINDA ADLINGTON & PAMELA BENNETT ACREAGE 24.15± OF 50±
PROPOSED WORK: LEASE NO. DV015318

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 HAVERTY
ESTIMATED DEPTH 5,950'

WELL OPERATOR ICG TYGART VALLEY, LLC DESIGNATED AGENT CHARLES E. DUCKWORTH
ADDRESS 2708 CRANBERRY SQUARE ADDRESS 1200 TYGART DRIVE
MORGANTOWN, WV 26508 GRAFTON, WV 26354

02/07/2014

COUNTY NAME
PERMIT

SHACKELFORD LEASE WELL NO. LEER 1301

PROPOSED GAS WELL NO. LEER 1301

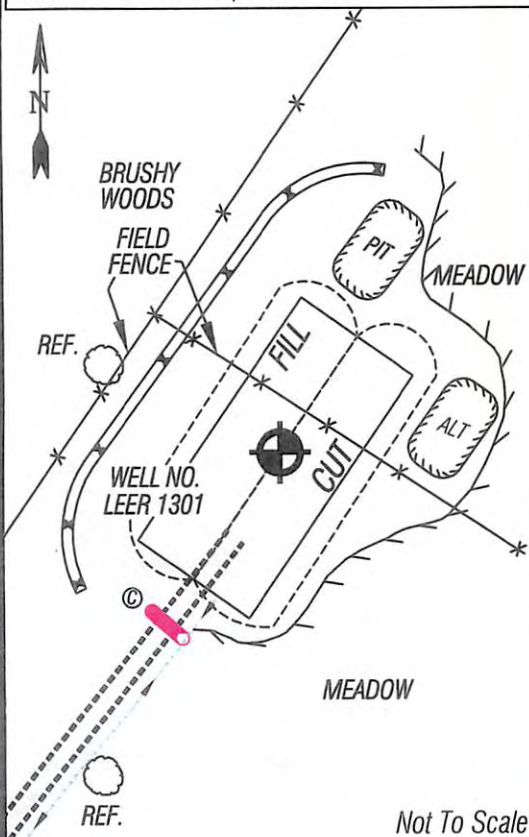
800' ± @
0-5% GRADE ±

50' ± @
5-10% GRADE ±

EXISTING CULVERT
TO BE UPGRADED
TO 15" MIN. CULVERT



Detail Sketch for Proposed Well No. LEER 1301



SCALE: 1"=500'



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).

— = EXISTING CULVERT
⊙ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
⊗ = PROPOSED STREAM CROSSING

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

DRAWN BY: K.D.W. FILE NO.: 8119 DATE: 12/27/13 CADD FILE: 8119REC.1301.dwg

TOPO SECTION OF THORNTON 7.5'
USGS TOPO QUADRANGLE

02/07/2014