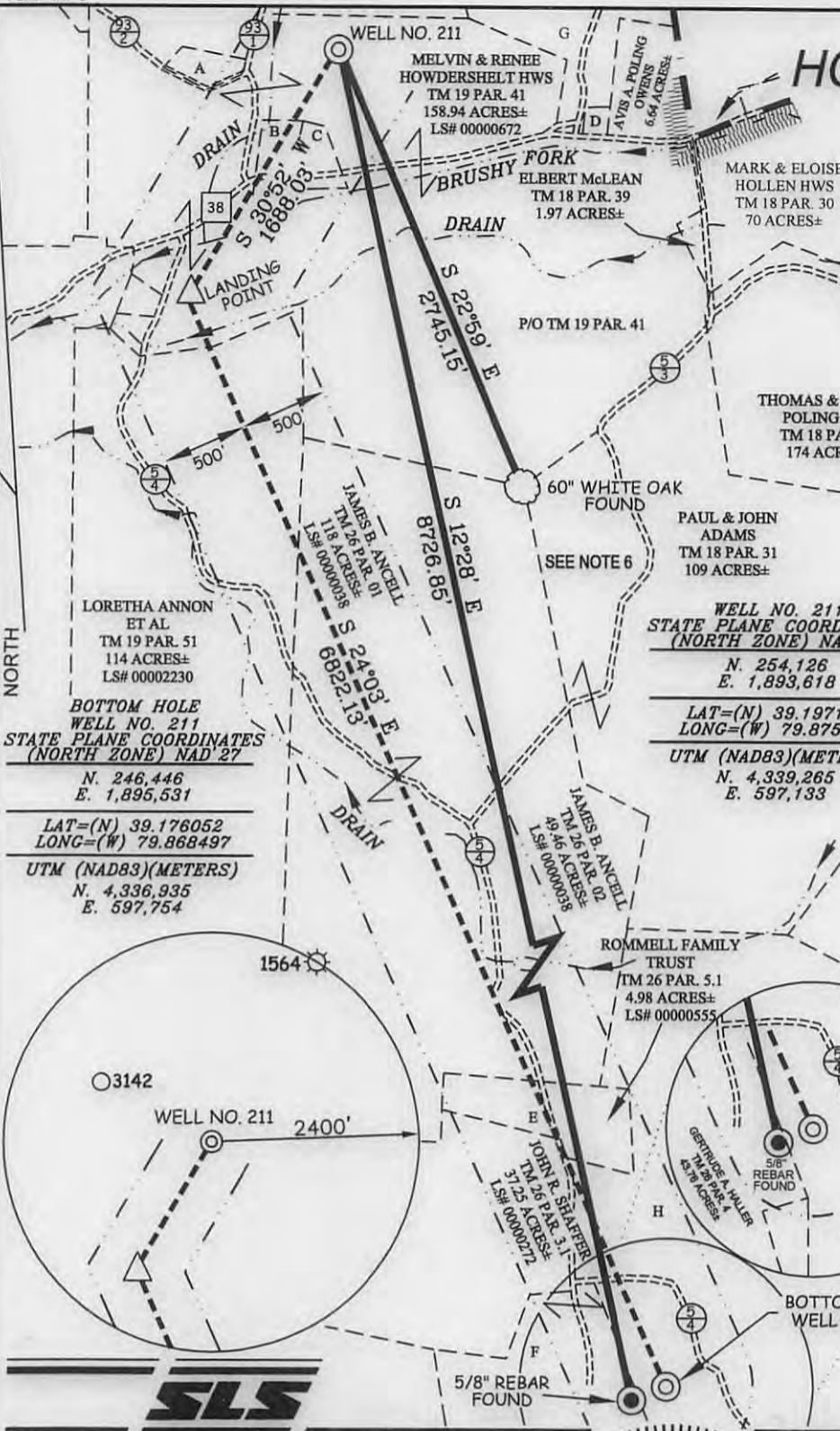


HOWDERSHOLT LEASE WELL NO. 211

LONGITUDE 79°25'62"



A	NEW HOPE VALLEY CHURCH	0.81 AC. ±	TM 19 PAR. 42
B	ERIC HOWDERSHOLT ET AL LS# 0000877	2.15 AC. ±	TM 19 PAR. 41.4
C	MELVIN & RENEE HOWDERSHOLT HWS	2.02 AC. ±	TM 19 PAR. 41.1
D	AVIS A. POLING OWENS	100 SQ FT. ±	TM 18 PAR. 9
E	HARRY T. SHAFFER ET AL (LS# 0000271)	2 AC. ±	TM 26 PAR. 3
F	GERTRUDE A. HALLER	43.76 AC. ±	TM 26 PAR. 4
G	GLENN J. MOORE	82.5 AC. ±	TM 18 PAR. 08
H	ROMMELL FAMILY TRUST (LS#0000556)	179.02 AC. ±	TM 26 PAR. 5

NOTES ON SURVEY

1. TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 219 PAGE 26, ADJOINING DEED AND WELL PLATS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BARBOUR COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE TIE TO CORS NETWORK).
5. NO DWELLING OR AGRICULTURAL BUILDINGS WITHIN 625 FEET OF CENTER OF PAD. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE PAD LIMITS OF DISTURBANCE.
6. TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.

**LANDING POINT
WELL NO. 211
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**

N. 252,677
E. 1,892,752

LAT=(N) 39.193126
LONG=(W) 79.878394

UTM (NAD83)(METERS)
N. 4,338,819
E. 596,876

REFERENCES



**BOTTOM HOLE
WELL NO. 211
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**

N. 246,446
E. 1,895,531

LAT=(N) 39.176052
LONG=(W) 79.868497

UTM (NAD83)(METERS)
N. 4,336,935
E. 597,754

**WELL NO. 211
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**

N. 254,126
E. 1,893,618

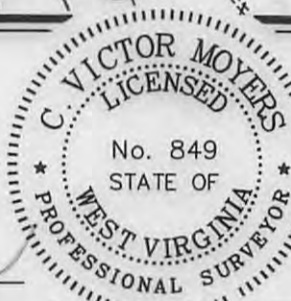
LAT=(N) 39.197114
LONG=(W) 79.875360

UTM (NAD83)(METERS)
N. 4,339,265
E. 597,133



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. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE NOVEMBER 21, 20 13
OPERATORS WELL NO. 211
API WELL NO. 47-001-03325 H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7962P211R2
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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 1,562'(GROUND) 1,558'(PROPOSED) WATERSHED BRUSHY FORK OF TETER CREEK
DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'

SURFACE OWNER MELVIN AND RENEE HOWDERSHOLT ACREAGE 158.94±

ROYALTY OWNER MELVIN & RENEE HOWDERSHOLT (158.94 AC.± & 2.02 AC.±), JAMES B. ANCELL (118 AC.± & 49.46 AC.±), HARRY T. SHAFFER ET AL (2.0 AC.±), JOHN R. SHAFFER (37.25 AC.±), SANDRA ROMMELL, TRUSTEE ROMMELL FAMILY TRUST (4.98 AC.± & 179.02 AC.±), ELSIE BOLYARD (114 AC.±), V. ERIC HOWDERSHOLT (2.45 AC.±)

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

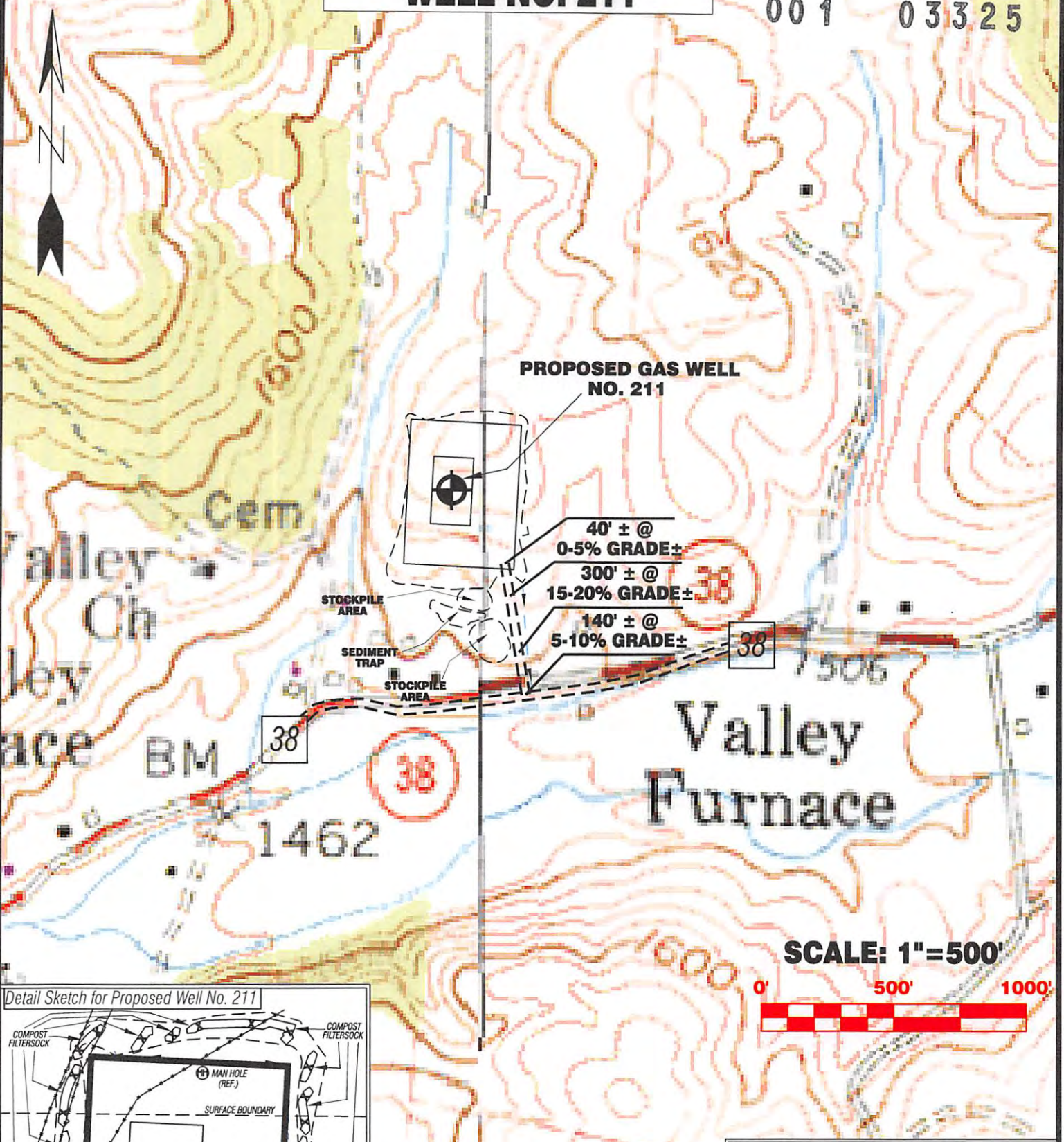
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD 7,845' / TMD 15,425'

WELL OPERATOR MOUNTAINEER KEYSTONE LLC DESIGNATED AGENT NATHAN SKEEN
ADDRESS 1111 VAN VOORHIS ROAD, SUITE G ADDRESS 1111 VAN VOORHIS ROAD, SUITE G
MORGANTOWN, WV 26505 MORGANTOWN, WV 26505

01/31/2014

HOWDERSHILT LEASE WELL NO. 211

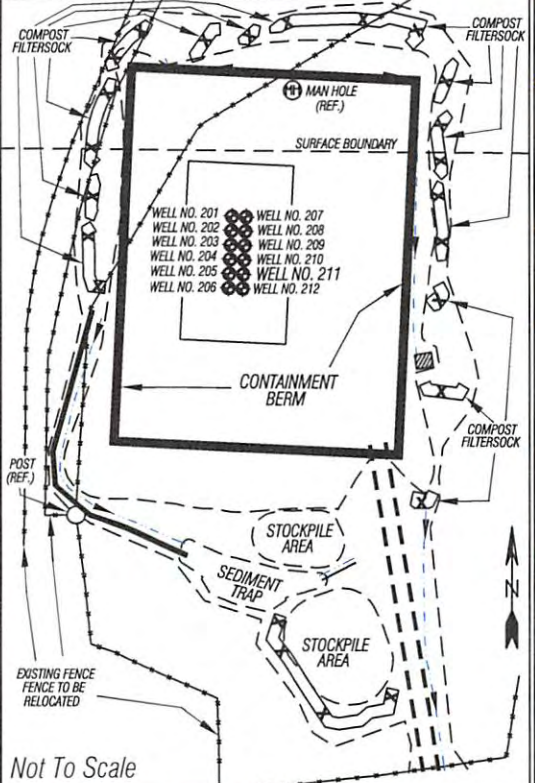
001 03325



SCALE: 1"=500'



Detail Sketch for Proposed Well No. 211



NESTORVILLE 7.5' QUAD
COLEBANK 7.5' QUAD

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).

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

226 West Main St.
P.O. Box 150
Clarksville, WV 26301
(304) 462-5634

56065 Dilles Bottom Road
Shady Side, OH 43947
(740) 671-9911

HONESTY, INTEGRITY, QUALITY

DRAWN BY: K.D.W. FILE NO.: 7962 DATE: 08/22/13 CADD FILE: 7962REC211.dwg

TOPO SECTION OF NESTORVILLE 7.5' & COLEBANK 7.5' USGS TOPO QUADRANGLES

EXISTING CULVERT

PROPOSED CULVERT

PROPOSED STREAM CROSSING

APPROXIMATE LIMITS OF DISTURBANCE

01/31/2014