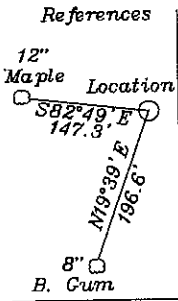


LATITUDE 39°30'00"N

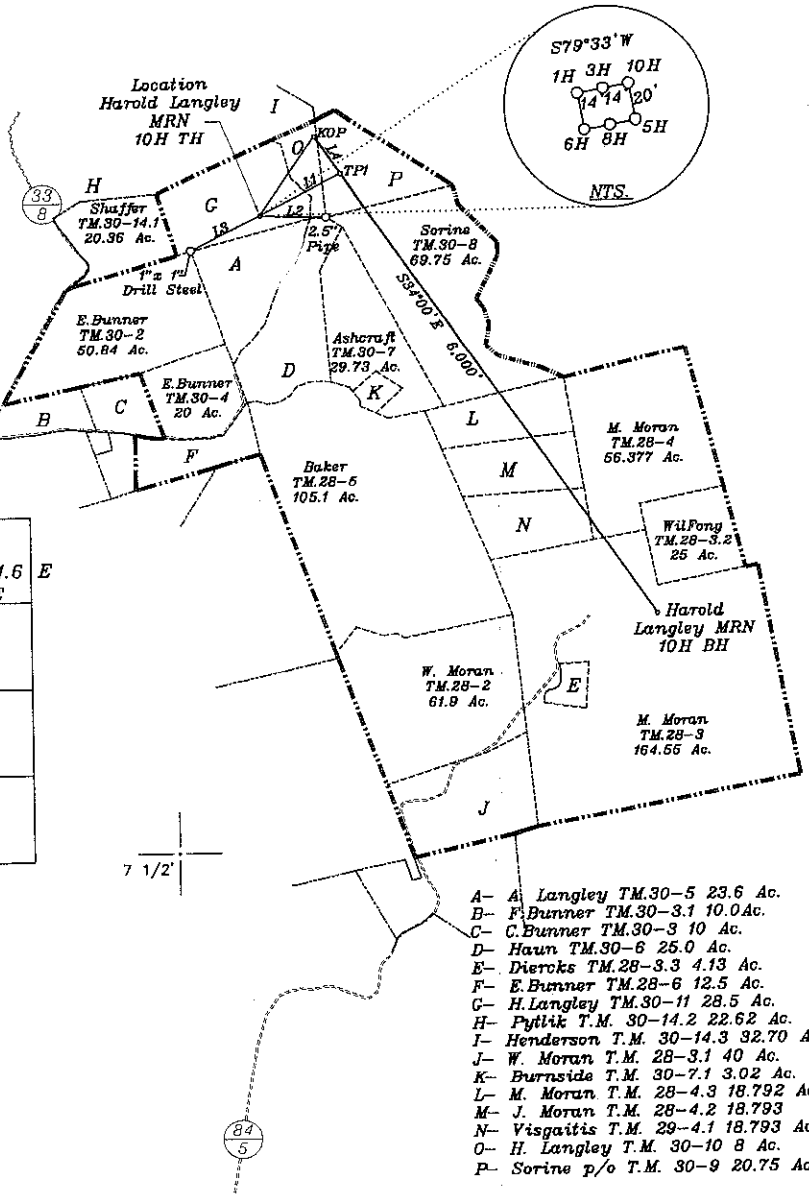
Top Hole 7,680'
Bottom Hole 3,443'

LONGITUDE 79°57'30" W

Top Hole 10,094'
Bottom Hole 14,625'

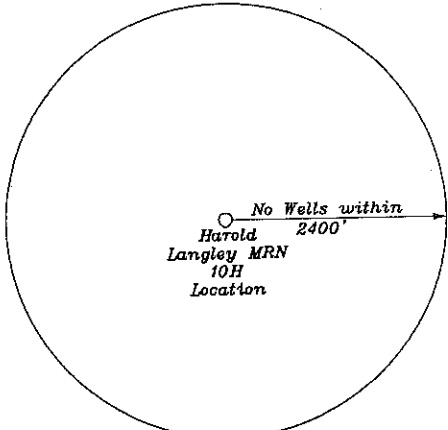


| # | DIRECTION | DIST. |
|----|-----------|-------|
| L1 | N63°16' E | 987' |
| L2 | N87°45' W | 719' |
| L3 | N63°13' E | 854' |
| L4 | S34°00' E | 500' |



| |
|---|
| Top Hole NAD 27-39.472176 N, 79.985354 W UTM NAD 83 meters-4369677.6 N, 587291.6 E State Plane NAD 27-354456.6 N, 1862985.3 E |
| TPI NAD 27-39.473408 N, 79.982240 W UTM NAD 83-1433664.2 N, 1927680 E State Plane NAD 27-354901 N, 1863867 E |
| KOP NAD 27-39.474542 N, 79.983238 W UTM NAD 83-14337052 N, 1927393 E State Plane NAD 27-355315 N, 1863587 E |
| Bottom Hole NAD 27-39.459799 N, 79.970262 W UTM NAD 83-14331726 N, 1931117 E State Plane NAD 27-349926 N, 1867222 E |

- A- A Langley TM.30-5 23.6 Ac.
- B- F Bunner TM.30-3 10.0 Ac.
- C- C Bunner TM.30-3 10 Ac.
- D- Hawn TM.30-6 25.0 Ac.
- E- Diercks TM.28-3.3 4.13 Ac.
- F- E Bunner TM.28-6 12.5 Ac.
- G- H Langley TM.30-11 28.5 Ac.
- H- Pylvik T.M. 30-14.2 22.62 Ac.
- I- Henderson T.M. 30-14.3 32.70 Ac.
- J- W. Moran T.M. 28-3.1 40 Ac.
- K- Burnside T.M. 30-7.1 3.02 Ac.
- L- M. Moran T.M. 28-4.3 18.792 Ac.
- M- J. Moran T.M. 28-4.2 18.793 Ac.
- N- Visgaitis T.M. 29-4.1 18.793 Ac.
- O- H. Langley T.M. 30-10 8 Ac.
- P- Sorine p/o T.M. 30-9 20.75 Ac.

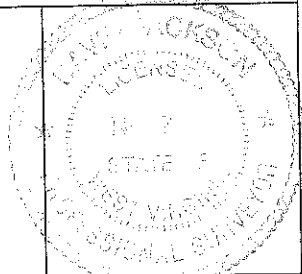


Notes: Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 27.

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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS
submeter unit

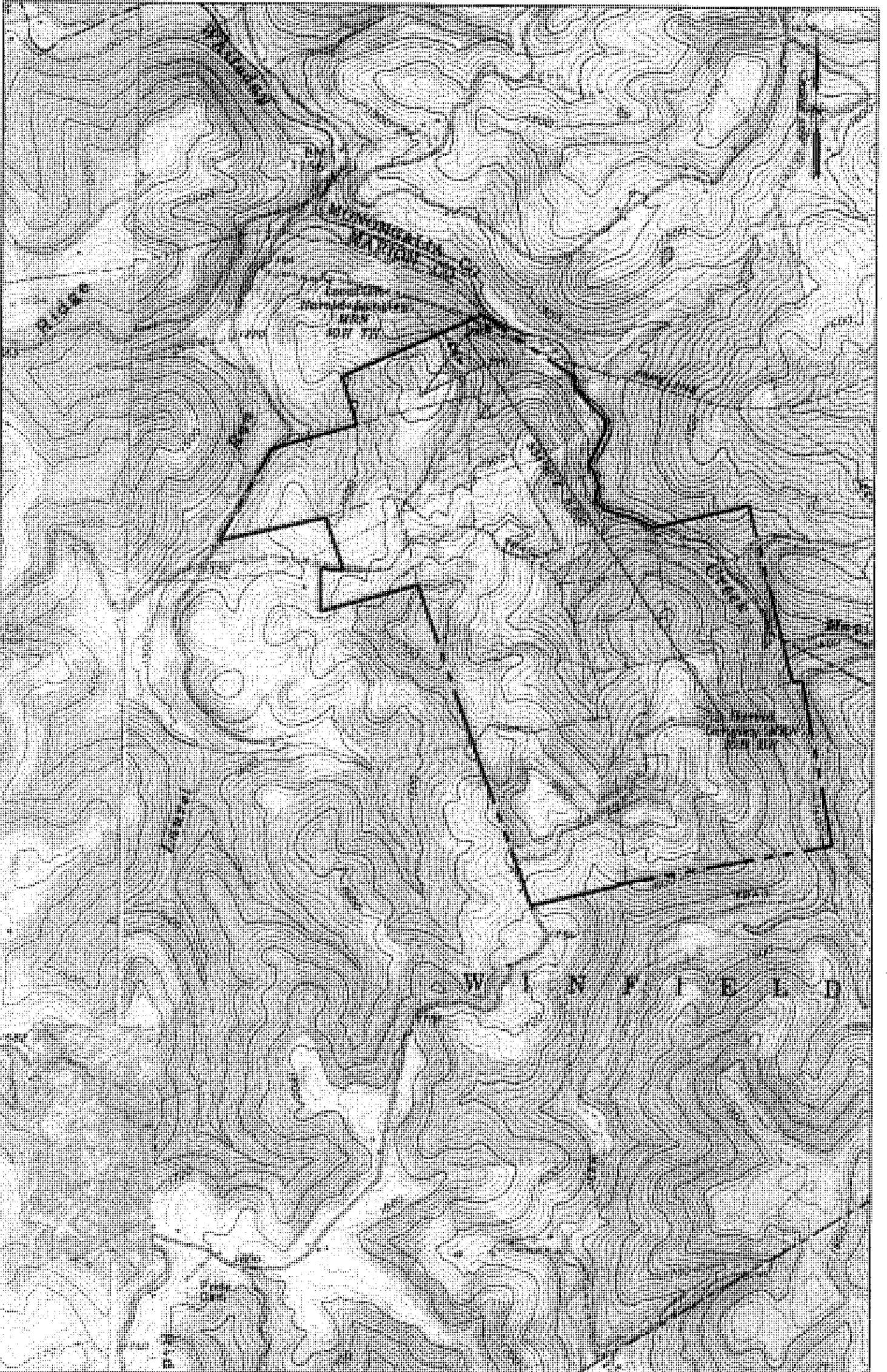
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) David J. Jackson
 R.P.E. _____ L.L.S. 708



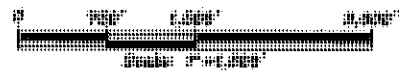
STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE February 7, 2012
 OPERATOR'S WELL NO. Harold Langley MRN 10H
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE 47 COUNTY 049 PERMIT 02211 HGA
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1531' WATER SHED Whiteday Creek and Laurel Run
 DISTRICT Winfield COUNTY Marion
 QUADRANGLE Gladesville 7 1/2'
 SURFACE OWNER Harold E. Langley, Eleanor E. Langley & Deborah K. Langley ACREAGE 28.5 Ac.
 OIL & GAS ROYALTY OWNER Harold E. Langley, Eleanor E. Langley & Deborah K. Langley LEASE ACREAGE 404.305 Ac.
 LEASE NO. 1-311542-000 (TM.30-10 & 11), 1-237668-000 (TM.30-8 & 9), 1-290436-000 (TM.28-4.3), 1-290430-000 (TM.28-4.2), 1-290431-000 (TM.28-4.1), 1-290435-000 (TM.28-4), 1-237228-000 (TM.28-3)
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Marcellus ESTIMATED DEPTH 7457' + Horizontal Leg (TMD 13862')
 WELL OPERATOR Chesapeake Appalachia, L.L.C. DESIGNATED AGENT Eric B. Gillespie
 ADDRESS P.O. Box 18496, Oklahoma City, OK 73154-0496 ADDRESS P.O. Box 6070 Charleston, WV 25362



Well: Harold Langley MFW 101F
Quad: Gladsville 7 1/3'
District: Winfield
County: Marion



08/03/2012