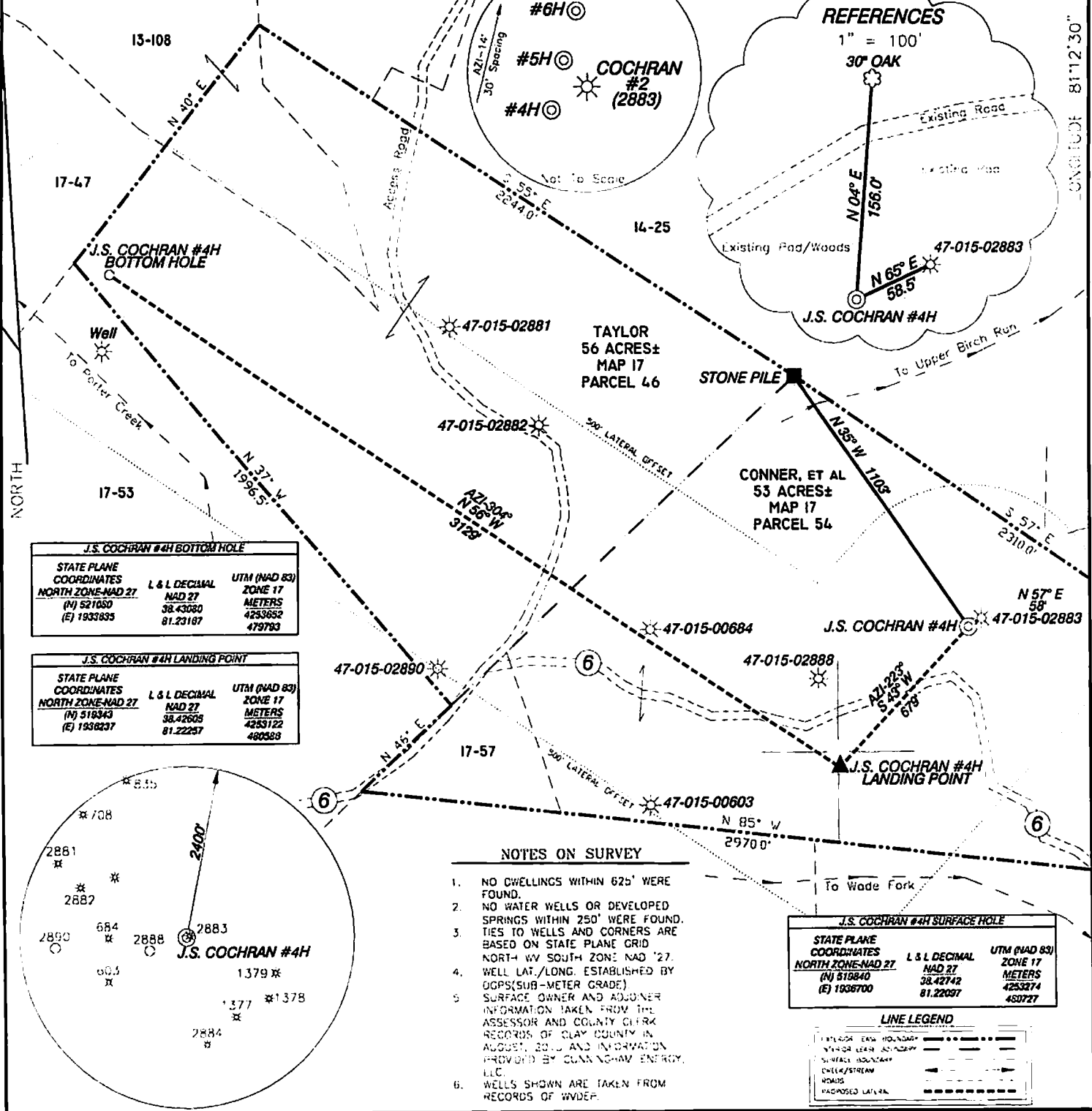


# J.S. COCHRAN #4H

LATITUDE 38°27'30"



J.S. COCHRAN #4H BOTTOM HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 521650	38.43080	4233852
(E) 1933835	81.23187	479793

J.S. COCHRAN #4H LANDING POINT		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 518343	38.42669	4253122
(E) 1930237	81.22257	480368

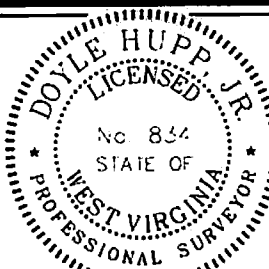
J.S. COCHRAN #4H SURFACE HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
(N) 510840	38.42742	4253274
(E) 1938700	81.22097	480727

- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
  - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
  - TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID.
  - WELL LAT./LONG. ESTABLISHED BY DGPS(SUB-METER GRADE).
  - SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN AUGUST, 2013 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
  - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

**LINE LEGEND**

- PROPERTY BOUNDARY
- WELL LEGAL ADJACENCY
- SURFACE BOUNDARY
- CREEK/STREAM
- ROADS
- ADJACENT LATERAL

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 RULES ISSUED AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE NOVEMBER 12, 2013  
 OPERATORS WELL NO. J.S. COCHRAN #4H  
 API WELL NO. 47-015-02881  
 STATE 47 COUNTY 015 PERMIT 02897H

P.S. 834  
*Doyle Hupp, Jr.*  
**HUPP Surveying & Mapping**  
 P.O. Box 647 Grantsville, WV 26147  
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2136 (BK66-25)  
 PROVEN SOURCE OF ELEVATION DGPS(SUB-METER GRADE) SCALE 1" = 500'

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

WELL TYPE:  GAS  LIQUID  WASTE  IF "GAS" PRODUCTION  STORAGE  SHALE OIL

LOCATION: ELEVATION 1,215' WATERSHED TRIBUTARY OF WADE FORK  
 DISTRICT UNION COUNTY CLAY QUADRANGLE ELKHURST 7.5'

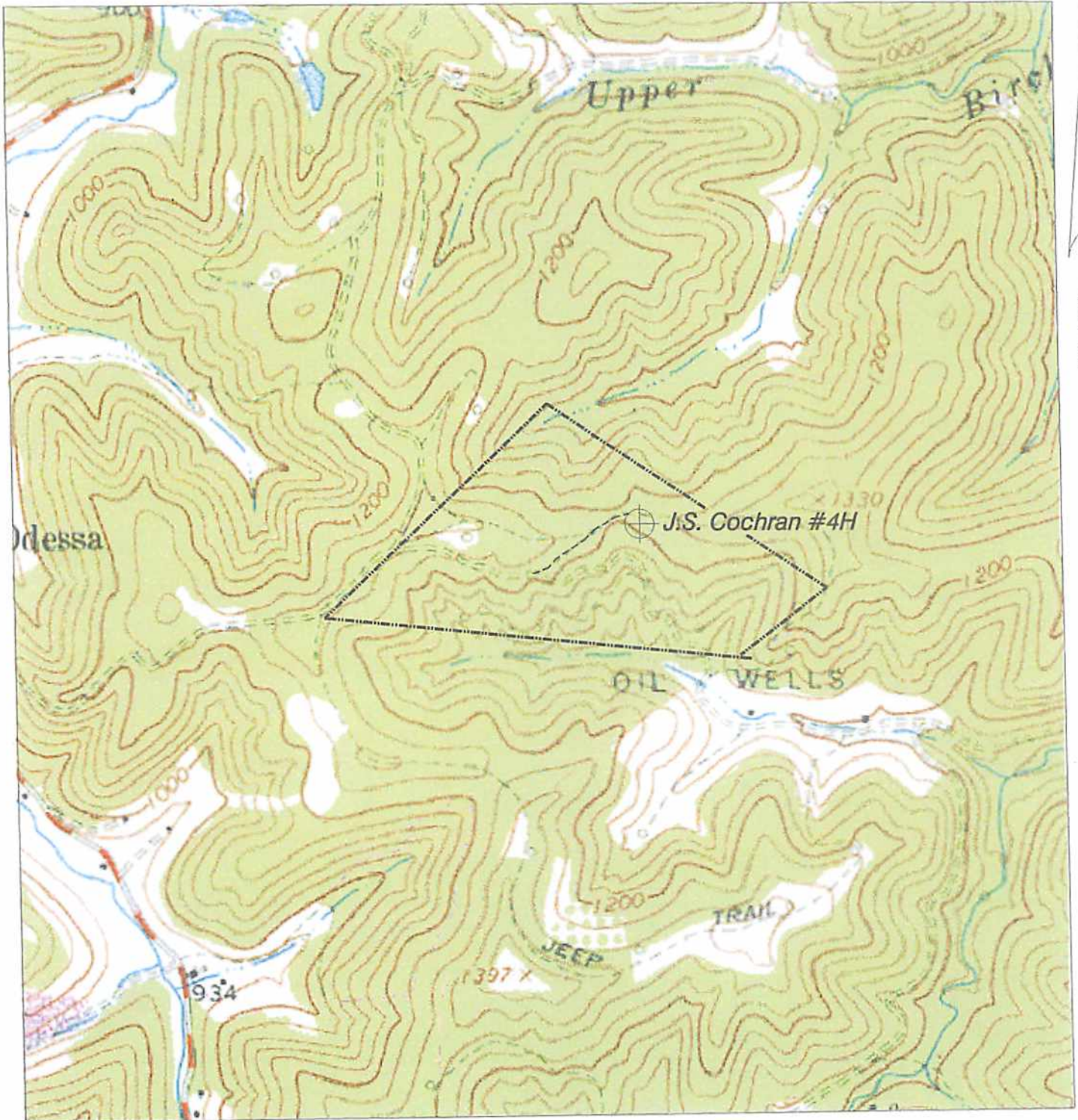
SURFACE OWNER CHESSIE CONNER, et al ACREAGE 53±  
 ROYALTY OWNER ALVIN ENGELKE, AGENT, et al LEASE ACREAGE 349.25±  
 PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BIG INJUN  
 ESTIMATED DEPTH TVD- 2,150' MD- 5,200'

WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM  
 ADDRESS 3230 PENNSYLVANIA AVE CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE CHARLESTON, WV 25302

03/21/2014



# CUNNINGHAM ENERGY J.S. Cochran #4H



NORTH

### HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
Elkhurst Quad

Cunningham Energy, LLC.  
3230 Pennsylvania Ave.  
Charleston, WV 25302