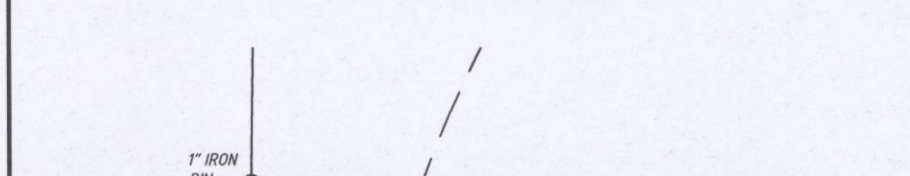
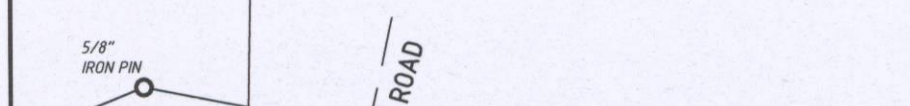


LOCATION MAP
(NOT TO SCALE)



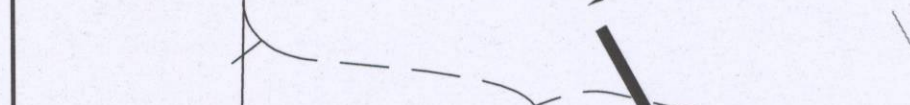
WELL PAD DETAIL



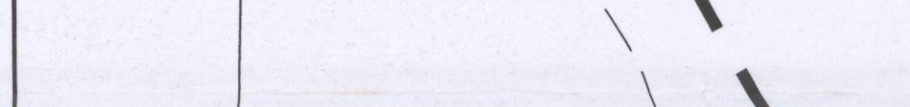
UNIT AREA
638.922 ACRES



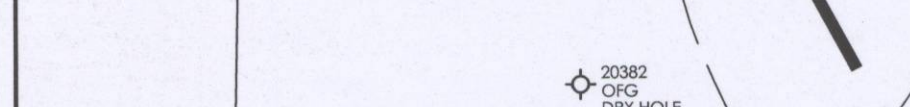
UNIT PARCEL ACREAGE CHART



SURVEY PLAT SHOWING PROPOSED WELL



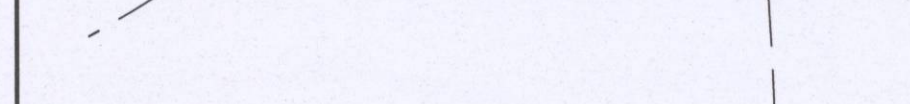
STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES - DIVISION OF OIL AND GAS RESOURCES MANAGEMENT, COLUMBUS, OHIO



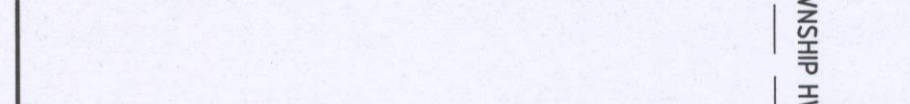
OPERATOR: AMERICAN ENERGY - UTICA, LLC



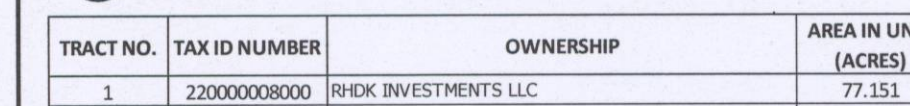
ADDRESS: 301 NW 63RD, SUITE 600, OKLAHOMA CITY, OK 73116



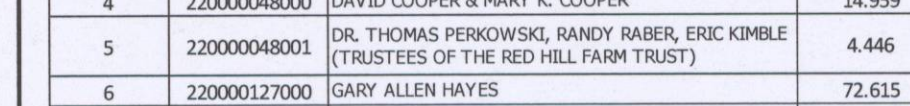
SURFACE LOCATION: DR. THOMAS PERKOWSKI, RANDY RABER, ERIC KIMBLE



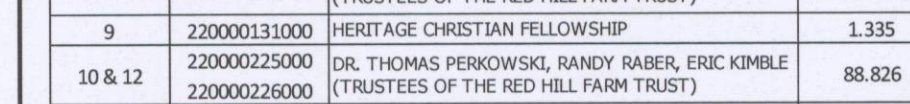
LANDOWNER: DR. THOMAS PERKOWSKI, RANDY RABER, ERIC KIMBLE



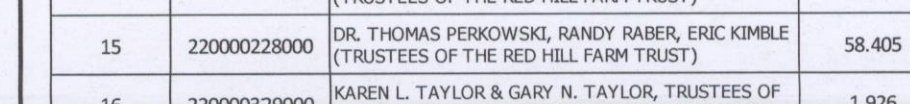
OIL AND GAS: DR. THOMAS PERKOWSKI, RANDY RABER, ERIC KIMBLE



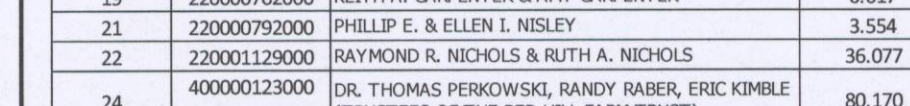
COAL: DR. THOMAS PERKOWSKI, RANDY RABER, ERIC KIMBLE



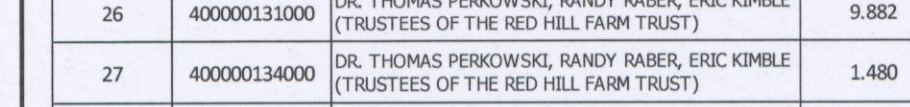
LEASE NAME: RED HILL FARM MDS GR



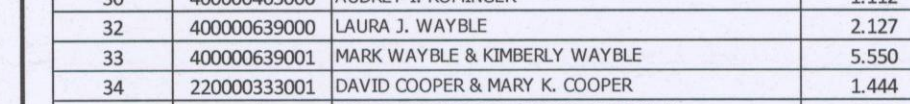
WELL NUMBER: 3H



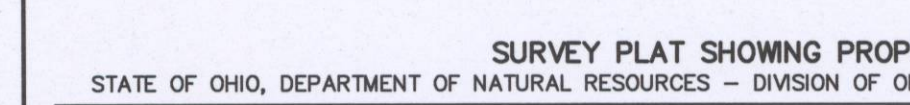
COUNTY: GUERNSEY



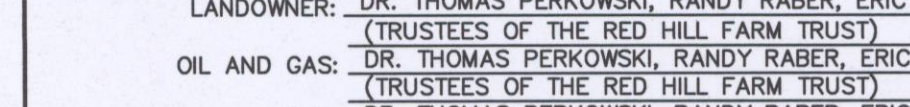
MUNICIPALITY: MADISON TWP



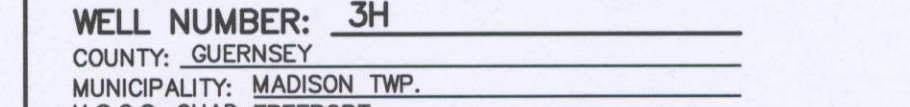
U.S.G.S. QUAD: FREEPORT



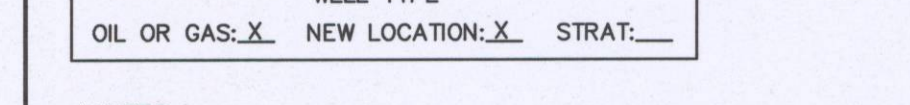
URBAN AREA: YES NO X



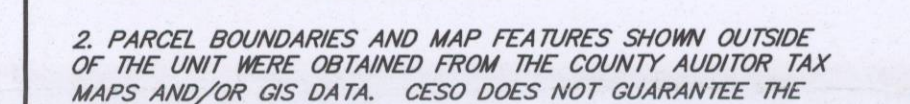
WELL TYPE: OIL OR GAS: X NEW LOCATION: X STRAT:



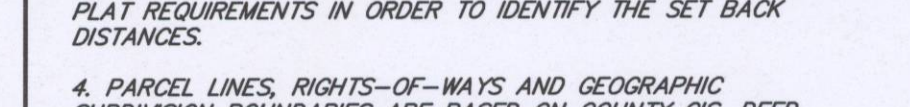
NOTES: 1. THIS SURVEY WAS PERFORMED SOLELY TO LOCATE THE PROPOSED WELL WITH RESPECT TO EXISTING BOUNDARIES AND TO PROVIDE STATE PLANE COORDINATES. 2. PARCEL BOUNDARIES AND MAP FEATURES SHOWN OUTSIDE OF THE UNIT WERE OBTAINED FROM THE COUNTY AUDITOR TAX MAPS AND/OR GIS DATA. CESO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA. 3. THE UNIT BOUNDARY SHOWN IS INTENDED TO COMPLY WITH DIVISION OF OIL AND GAS RESOURCES MANAGEMENT SURVEY PLAT REQUIREMENTS IN ORDER TO IDENTIFY THE SET BACK DISTANCES. 4. PARCEL LINES, RIGHTS-OF-WAYS AND GEOGRAPHIC SUBDIVISION BOUNDARIES ARE BASED ON COUNTY GIS, DEED INFORMATION, AND FOUND MONUMENTATION. 5. THIS PLAT IS NOT A BOUNDARY SURVEY PURSUANT TO THE OHIO ADMINISTRATIVE CODE (OAC) 7433-37. 6. EXISTING DRILLING AND/OR PRODUCING WELLS AND ANY PLUGGED OIL OR GAS WELLS SHOWN WERE PLOTTED USING THE OADR OIL AND GAS INTERACTIVE WELL LOCATOR AND REPRESENT THE ACCURACY THEREOF, UNLESS OTHERWISE FIELD LOCATED.



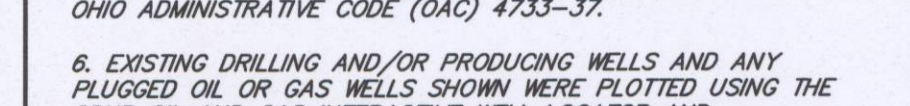
0 400' 800'



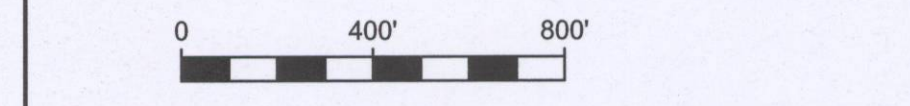
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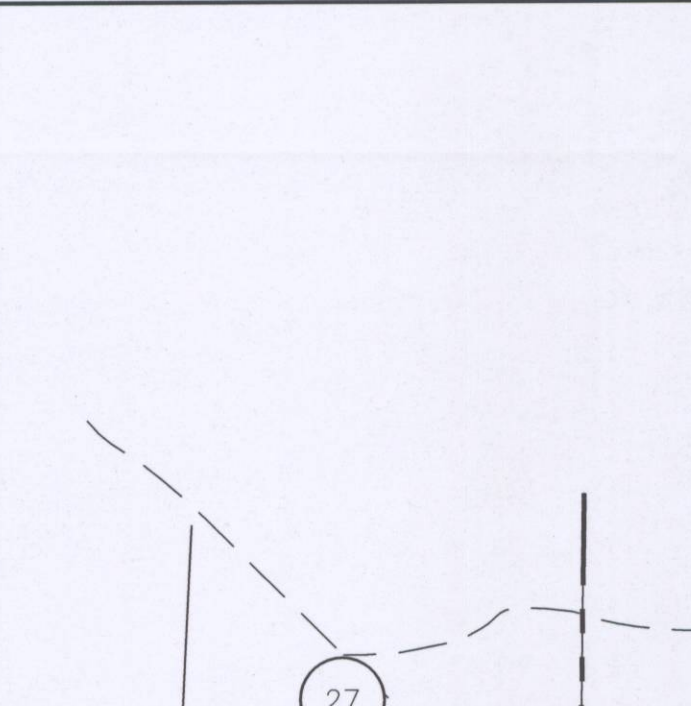
J. BRYANT APT OHIO P.S. #8593 ABT@CESOINC.COM



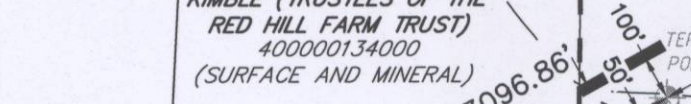
JUL 17, 2014



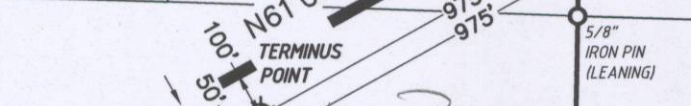
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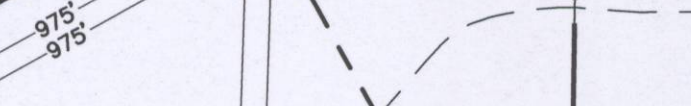
SURFACE HOLE



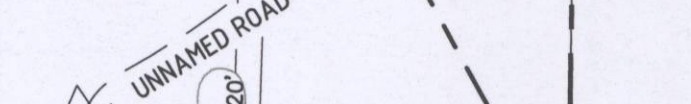
OHIO STATE PLANE GRID COORDINATE



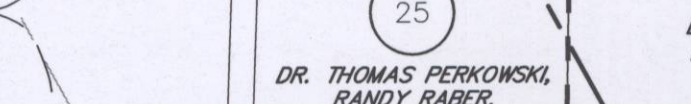
OHIO SOUTH - NAD 83(2011)



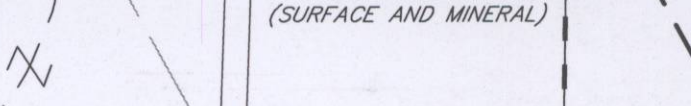
LATITUDE: 40.127542° N NAD 83



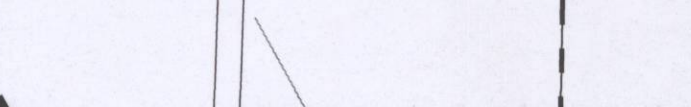
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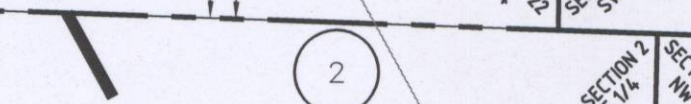
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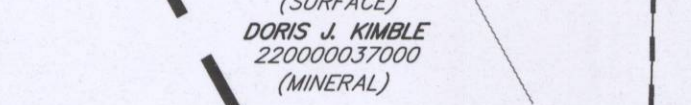
OHIO SOUTH - NAD 27



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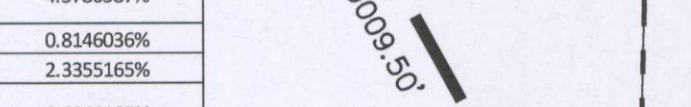
LONGITUDE: 81.345930° W NAD 27



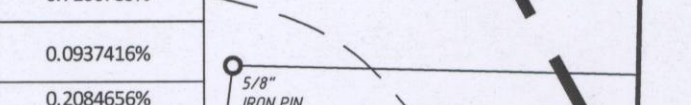
LAST PERFORATION



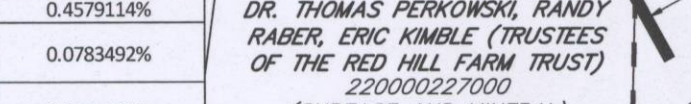
OHIO STATE PLANE GRID COORDINATE



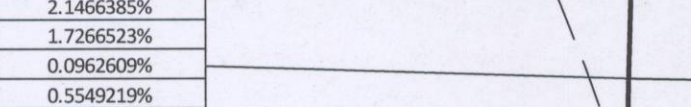
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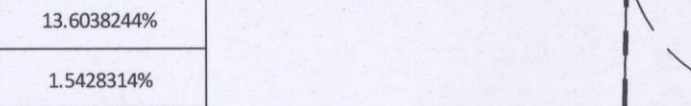
LATITUDE: 40.126978° N NAD 83



LONGITUDE: 81.347216° W NAD 83



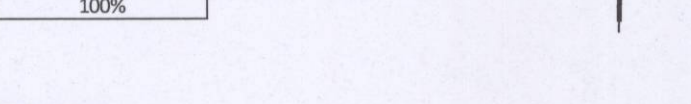
OHIO STATE PLANE GRID COORDINATE



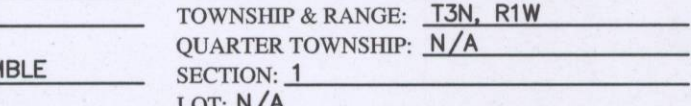
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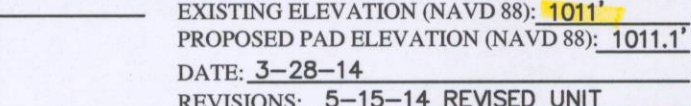
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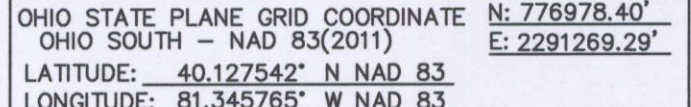
LONGITUDE: 81.347381° W NAD 27



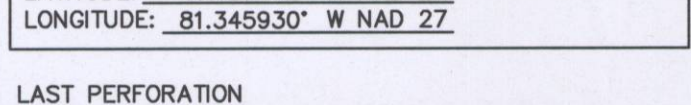
FIRST PERFORATION



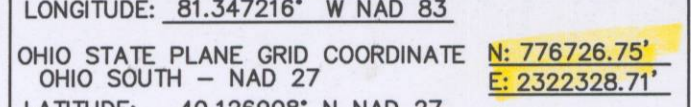
OHIO STATE PLANE GRID COORDINATE



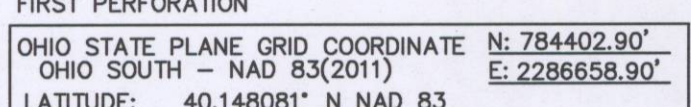
OHIO SOUTH - NAD 83(2011)



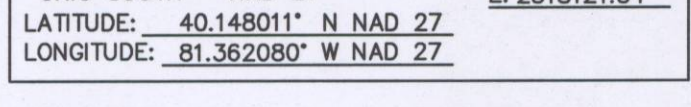
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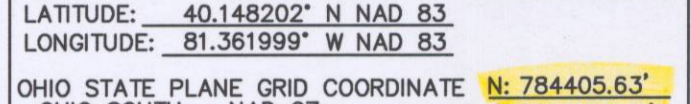
LONGITUDE: 81.361915° W NAD 83



OHIO STATE PLANE GRID COORDINATE



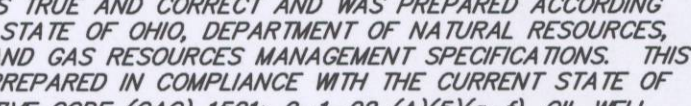
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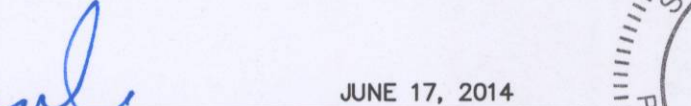
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LONGITUDE: 81.362080° W NAD 27



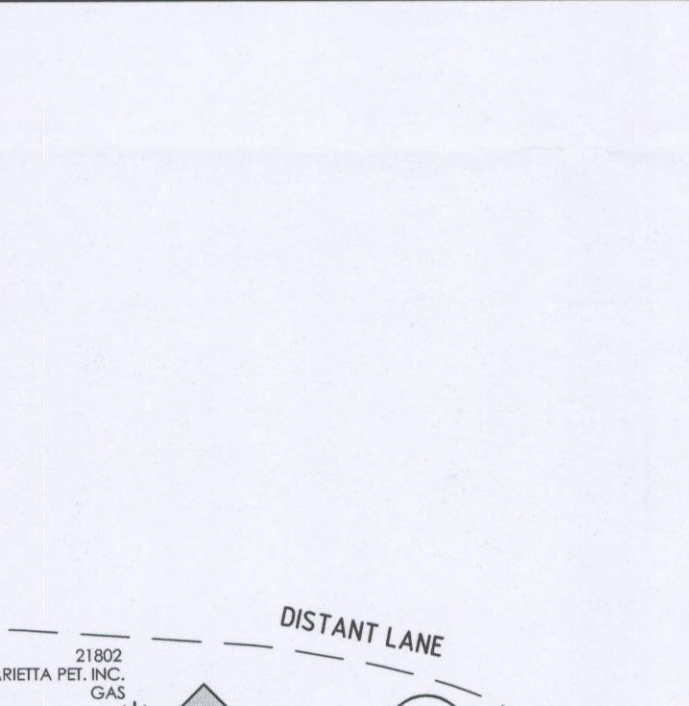
TERMINUS POINT



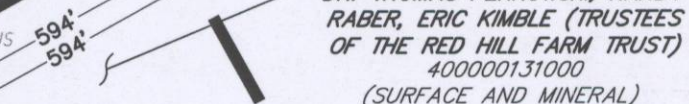
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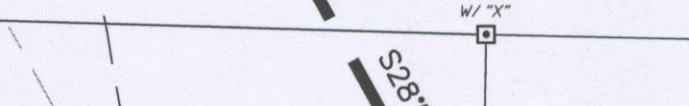
OHIO SOUTH - NAD 83(2011)



OHIO STATE PLANE GRID COORDINATE



OHIO SOUTH - NAD 83(2011)



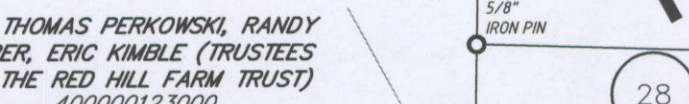
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LONGITUDE: 81.361915° W NAD 83



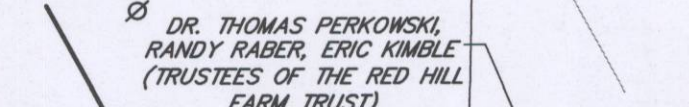
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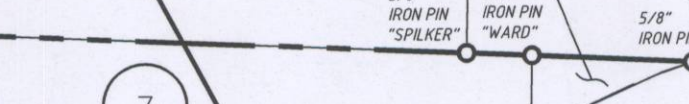
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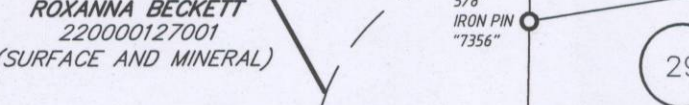
LATITUDE: 40.148132° N NAD 27



LONGITUDE: 81.362080° W NAD 27



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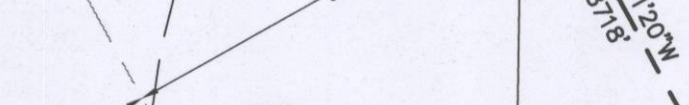
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DIVISION OF OIL AND GAS RESOURCES MANAGEMENT



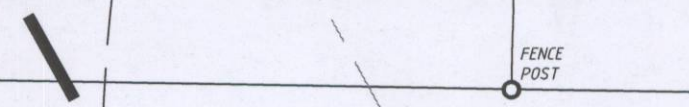
UNIT CORNER COORDINATES:



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UNIT CORNER COORDINATES:



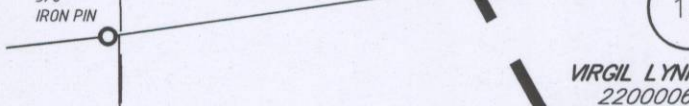
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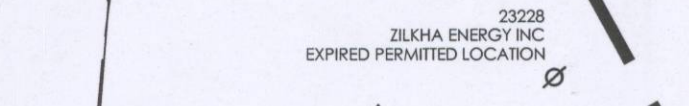
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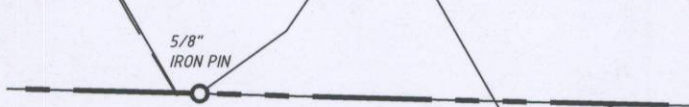
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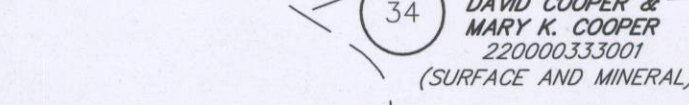
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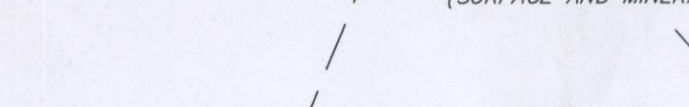
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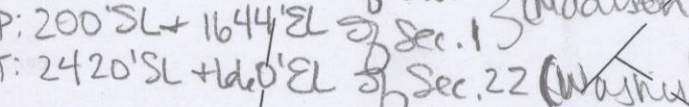
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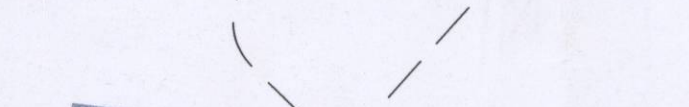
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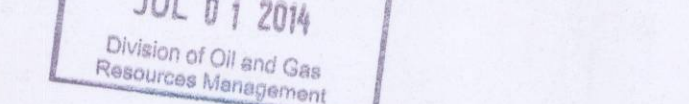
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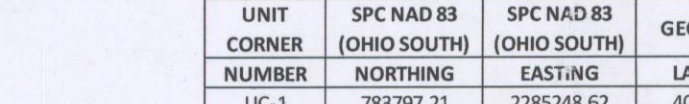
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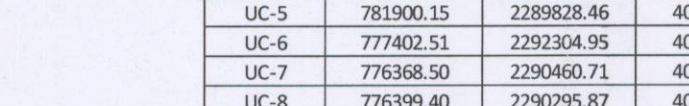
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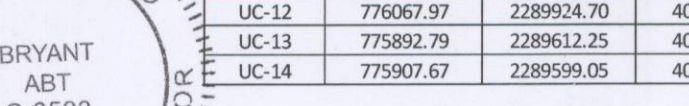
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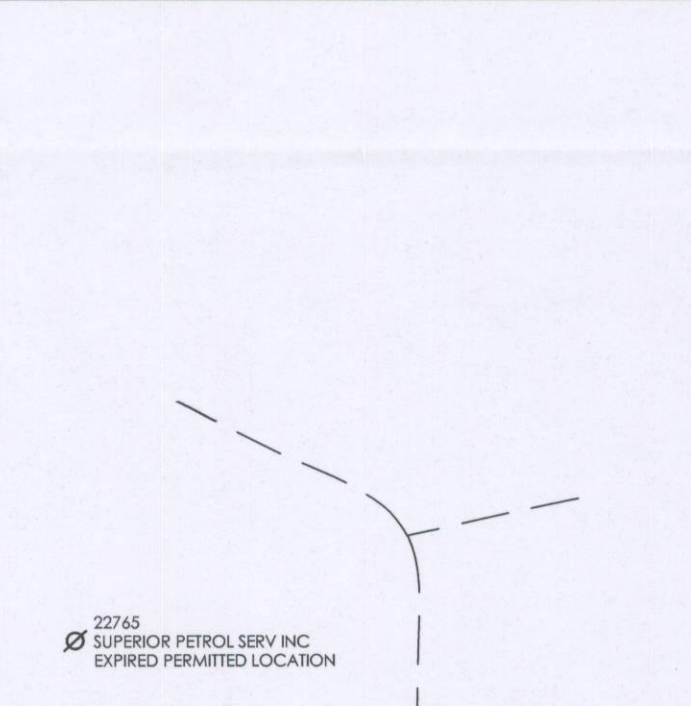
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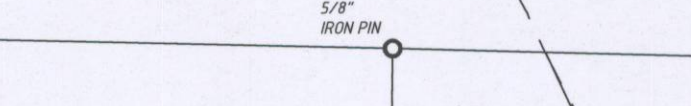
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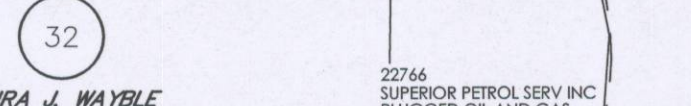
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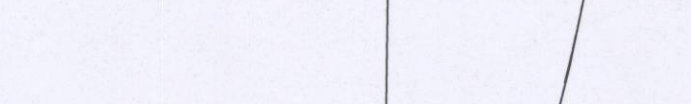
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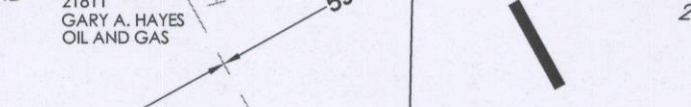
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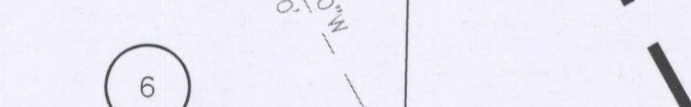
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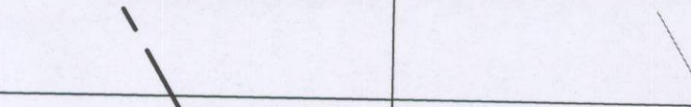
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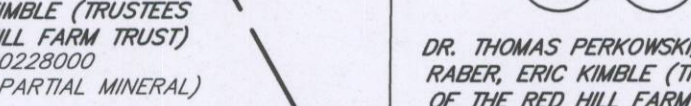
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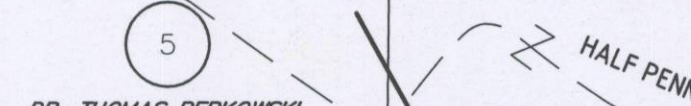
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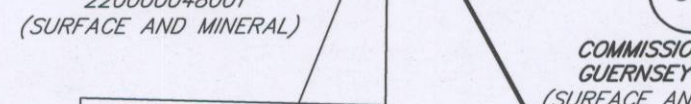
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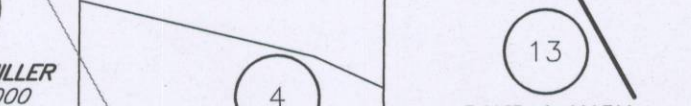
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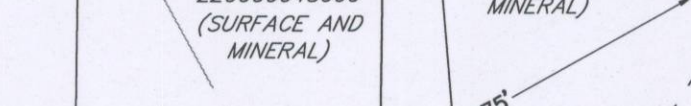
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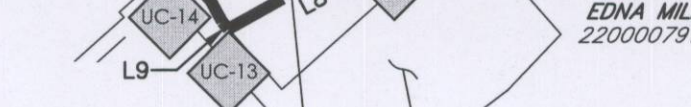
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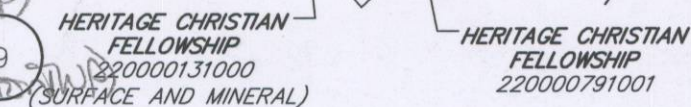
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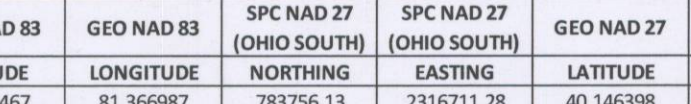
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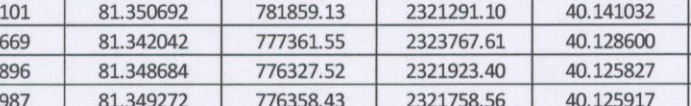
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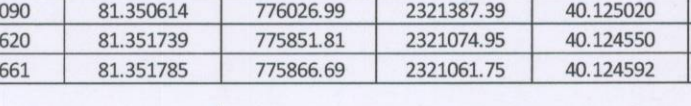
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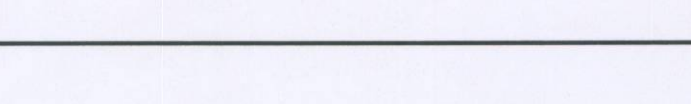
UNIT CORNER COORDINATES:



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