PHASE I ENVIRONMENTAL SITE ASSESSMENT

Imhoff Road Development Land
Cleveland County Parcel ID: NC29 8 2W 4046
Norman, OK 73071

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EXECUTIVE SUMMARY

Subject Property: **Imhoff Road Development Land**

Location: **Cleveland County Parcel ID: NC29 8 2W 4046**
Norman, OK 73071

This report presents results from the environmental site assessment performed in accordance with the American Society for Testing Materials (ASTM) E 1527-21 Standard Practice for Environmental Site Assessment Process. Furthermore, this report meets the requirement to conduct "All appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice in an effort to minimize liability" (42USC Sec. 9601(35)(b)). The consultant meets the ASTM definition of an environmental professional and has over 30 years of experience doing environmental studies.

Site Description and History

The Subject Property consists of 4.85 acres more or less located northeast of the intersection of Oakhurst Avenue and E Imhoff Road. NE/4 of Section 17, Township 12N Range 3W. According to county assessor information, the legal description of the Subject Property is Lots 1 thru 6 Block 001 Isle View Subdivision to Oklahoma City. The proposed use of the Subject Property is Multi-Family Low Income Housing Tax Credit Project (LIHTC) with the potential of including HUD funding in addition to the LIHTC.

The Subject Property is tree covered development land with no standing structures. Several foundations and a water well remain from a former farmstead located on the Subject Property. No structures are evident on the Subject Property dating back to the 1893 topographic map. The northern end of the Subject Property appears to be tilled farmland in the 1930s with riparian area bisecting the Subject Property from east to west. A farmstead is apparent on west end the Subject Property from ~1940 to 1975. By 1981, the farmstead appears to have been razed and the Subject Property has remained undeveloped for ~50 years, since development of the adjacent cropland to the north into a residential neighborhood. Since the Subject Property has remained vacant/undeveloped for ~50 years, the historic use of portions of the Subject Property as farmland and a farmstead are not considered a REC.

Summary of Environmental Records

- No records were found of oil or gas wells on the Subject Property.
- Environmental records were determined to not have environmental impact on the Subject Property.

BERs

Business Environmental Risks (BERs) are risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the commercial real estate. BERs may affect the liabilities and financial obligations of the client,

the health & safety of site occupants, and the value and marketability of the Property not necessarily limited to those environmental issues required to be investigated as defined by ASTM. BERs are non-scope considerations outside the scope of this assessment, unless agreed upon in the engagement letter and specifically addressed in this report.

According to the USFWS National Wetlands Inventory the following jurisdictional waterways riverine habitat is located on the Subject Property. Based on the presences of wetlands, ponds, and riverine habitat on the Subject Property, wetlands are considered a Business Environmental Risk.

Significant Data Gaps

The ASTM requires historical property use at five-year increments back to first use or 1940 (whichever is earlier). Historical records including aerials, topos, Sanborn Maps (if available) and city directory records were not achieved at five-year increments. The data failure is not considered a significant data gap and did not inhibit the ability to identify RECs at the Subject Property. There are no significant data gaps in this study.

Result

This report revealed no recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the Subject Property. The site is well suited for residential use except for business environmental risk associated with riverine habitat on the Subject Property. This conclusion is based on an extensive record review and file search, site visit and interviews.

1 INTRODUCTION

1.1 Property, Location, Description, and Use

The Subject Property consists of 4.85 acres more or less located northeast of the intersection of Oakhurst Avenue and E Imhoff Road. NE/4 of Section 17, Township 12N Range 3W. According to county assessor information, the legal description of the Subject Property is Lots 1 thru 6 Block 001 Isle View Subdivision to Oklahoma City. The proposed use of the Subject Property is Multi-Family Low Income Housing Tax Credit Project (LIHTC) with the potential of including HUD funding in addition to the LIHTC.

The Subject Property is tree covered development land with no standing structures. Several foundations and a water well remain from a former farmstead located on the Subject Property.

The Subject Property is in the city limits of Norman. Water and sewer service is available from the City of Norman. The City of Norman water supply meets Federal and State ODEQ water quality standards.

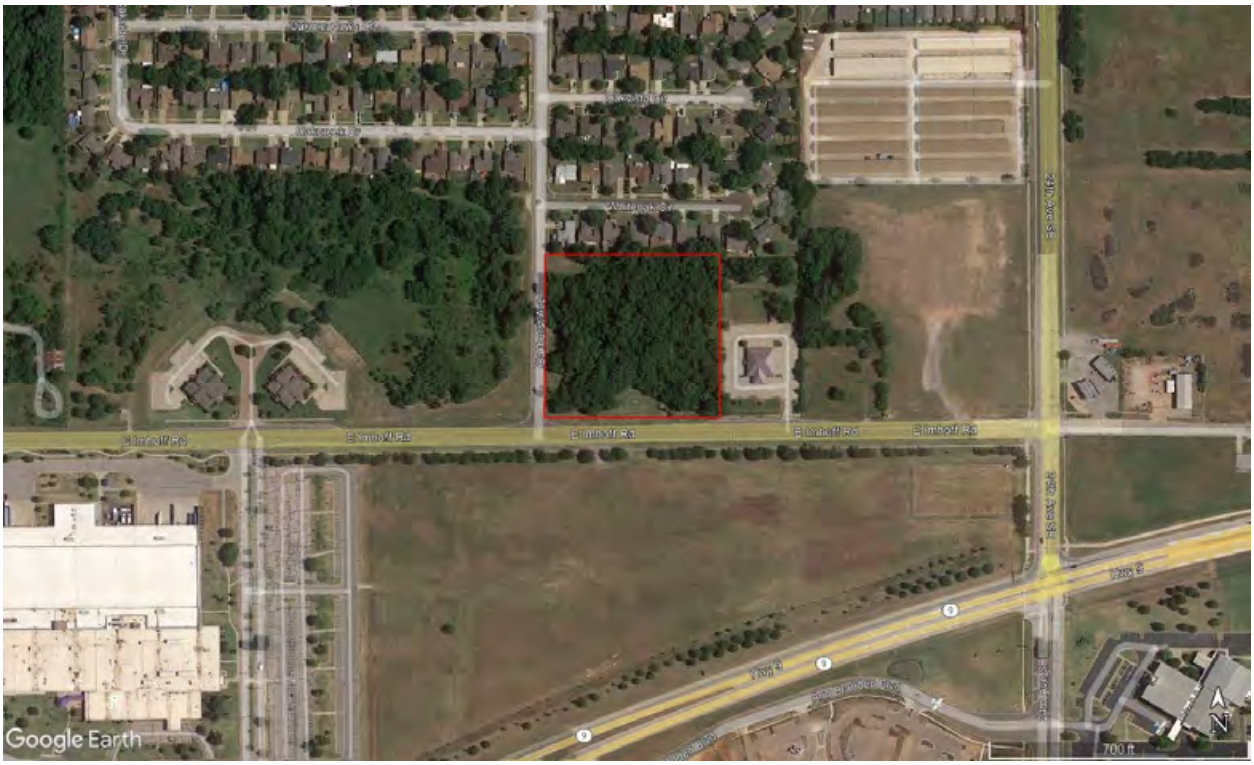

Figure 1: Google Earth Aerial Map of Subject Property and Vicinity

1.2 Purpose

This report has been prepared according to ASTM E1527-21 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (November 2021). The purpose of this report is to identify *recognized environmental conditions* (RECs) associated with the Subject Property using good commercial and customary practice for

conducting an environmental site assessment for commercial real estate with respect to petroleum products and the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This practice constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practices as defined by 42 U.S.C.S §9601(35)(B).

A Recognized Environmental Condition (REC) means (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release from the environment; (2) the likely presence of hazardous substances or petroleum products in, on or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. A *de minimis* condition is not a recognized environmental condition.

A Historical Recognized Condition (HREC) is a past release of any hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meets unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized condition is not a recognized environmental condition.

A Controlled Environmental Condition (CREC) is a recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

A *de minimis* condition is a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be *de minimis* is neither a recognized environmental condition nor a controlled recognized environmental condition.

Business Environmental Risks (BERs) are risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the commercial real estate. BERs may affect the liabilities and financial obligations of the client, the health & safety of site occupants, and the value and marketability of the Subject Property not necessarily limited to those environmental issues required to be investigated as defined by ASTM. BERs are non-scope considerations outside the scope of this assessment, unless agreed upon in the engagement letter and specifically addressed in this report.

A vapor encroachment condition (VEC) is the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Subject Property caused by the release of

vapors from contaminated soil and/or groundwater either on or near the Subject Property as identified by Tier 1 or Tier 2 procedures outlined in ASTM E2600-15.

This report does not include conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, unless specified in the engagement letter and specifically addressed in this report.

1.3 Limitations and Exceptions of Assessment

- This practice is site-specific in that it relates to assessment of environmental conditions on a specific parcel of land. This practice does not address any additional issues raised in transactions such as purchases of business entities, or interests therein, or of their assets, which may well involve environmental liabilities pertaining to properties previously owned or operated or other off-site environmental liabilities.
- This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate health and safety practices and determine the applicability of regulatory limitations prior to use, unless otherwise contracted between the user and the environmental professional.
- No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions concerning a property. Performance of this site assessment is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions concerning a property, and this practice recognizes reasonable limits of time and cost.
- Appropriate inquiry does not mean an exhaustive assessment of a clean property. There is a point at which the cost of information obtained, or the time required to gather it outweighs the usefulness of the information. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment compared to the reduction of uncertainty regarding unknown conditions coming to light from additional information.
- Not every property will warrant the same level of assessment. Consistent with good commercial or customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry.
- It should not be concluded or assumed that an inquiry was not an appropriate inquiry merely because the inquiry did not identify recognized environmental conditions in connection with a property.
- An environmental site assessment meeting or exceeding this practice and completed less than 180 days previously is presumed to be valid. An environmental site assessment completed more than 180 days previously may be used to the extent allowed by prior assessment usage.
- This Phase I ESA was conducted and prepared for the sole use and reliance of the party(s) identified on the cover.

- Sketches, drawings, maps, and photographs included in this report are for the purpose of assisting the reader in visualizing the Subject Property. A physical boundary survey of the property was not performed by Redbud Environmental, LLC.
- Reference to topographic gradient (up-gradient, cross-gradient, and down-gradient) is in relation to the Subject Property. Groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

1.4 Limiting Conditions and Methodology Used

The methods used to obtain information for the Site Description are listed below (these methods are intended to be used in concert):

- Research the history of the site including current and prior owners, land use, and environmental incidents. Visit the site and document the present surface conditions and physical characteristics such as buildings, drains, tanks, oil and gas wells, and the general appearance of the property.
- Review the Environmental Protection Agency's Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS), and the Resource Conservation and Recovery Act (RCRA) listing for information regarding generation, storage, treatment, and disposal of hazardous waste on or adjacent to the subject property. Contact other local, state, and federal regulatory agencies (if warranted) regarding environmental concerns identified on the subject property.
- If warranted by the background investigation, interview the previous owners/operators (if available) to determine present/past operational practices that may have contributed to the present environmental condition of the site.
- Review historic aerial photographs to determine land use patterns, structures, existence of ponds, excavations, and areas of potentially stressed vegetation.
- Review available oil and gas well drilling and plugging records for activity on the subject property. Where practicable, document locations of abandoned oil and gas wells.
- Review information regarding the geology and hydrogeology of the site. Investigate the potential for the presence of radon in the soils.
- Review state records regarding permitted landfills and waste disposal facilities on or in the vicinity of the subject property.
- Contact the local Fire Marshall's Office regarding hazardous material incidents, which may have occurred at the site.
- Provide a summary report documenting these tasks. Present conclusions regarding potential liability associated with existing environmental conditions, offer recommendations for future actions (if necessary), and estimate costs involved.
- This practice does not include any testing or sampling of materials (e.g., soil, water, air, building materials).
    - The interview and site reconnaissance, as well as review and interpretation of information upon which the report is based and overseeing the writing of the report,

are all portions of a site assessment that shall be performed by an environmental professional.

2 USER-PROVIDED INFORMATION

2.1 Review of Title and Judicial Records for Environmental Liens or Activity and Use Limitations

The User's questionnaire was completed by Mr. Anthony Purinton, City Attorney for the City of Norman and buyer of the Subject Property. Mr. Purinton indicated that the title search was underway and had not been completed.

2.2 Actual or Specialized Knowledge

Mr. Purinton indicated that he does not possess actual or specialized knowledge related to the Subject Property or adjacent properties, except that there are oil wells present.

2.3 Valuation Reduction for Environmental Issues

Mr. Purinton indicated that he was not aware of any valuation reductions for environmental issues with the Subject Property.

2.4 Commonly Known or Reasonable Ascertainable Information

Mr. Purinton was not aware of any commonly known or reasonable ascertainable information about chemical releases or similar at the Subject Property.

2.5 Previous Investigations/Assessments

Mr. Purinton indicated that he was not aware of any previous investigations/assessments at the Subject Property.

3 SITE RECONNAISSANCE

The objective of the site reconnaissance is to obtain information indicating/identifying recognized environmental conditions (RECs) in connection with the property.

3.1 Visual Property Inspection

The site inspection occurred on February 6, 2023, by Daphne D. Summers, M.S., and James B Summers II. The site reconnaissance included walking the perimeter and interior portions of the Subject Property. No standing structures remain on the Subject Property.

Exterior Observations:

- Several foundations and a water well associated with a former farmstead were observed on the Subject Property.
- The Subject Property is bisected by an intermittent stream that flows from east to west across the Subject Property. The property is largely wooded. Ponding/wetlands were observed in the center of the Subject Property.
- Transformers were not observed on the Subject Property; however, an old transformer may be encountered during grading activities in the vicinity of the old farmstead. If found, testing for PCBs and proper disposal is warranted. No other sources of PCBs were observed.
- Distressed vegetation was not observed during the site visit.
- No evidence of oil or gas wells was observed during the site inspections.
- Although windblown waste was observed, significant dumping was not observed during the site visit. Significant dumping from adjoining residential neighbors was not observed.
- Cabling and boxes for utility installation, likely for development occurring to the west, were observed on the northwest corner of the Subject Property.

3.2 Limitations During Site Reconnaissance

The entire Subject Property was not physically inspected due to the size, terrain, and heavy vegetative cover on the Subject Property. These conditions across the Subject Property limited access by vehicle and by foot; although much of the perimeter and interior was walked, there were many areas of the ground surface that were not observed. These limitations may have affected Redbud Environmental' s ability to identify conditions that could be considered RECs.

Figure 2: Subject Property Observations

3.3 Oil and Gas Records

Oil and gas records were obtained from a search of the Oklahoma Geological Survey online well mapper and the Oklahoma Corporation Commission Oil and Gas Division GIS Database. No records of oil and gas wells were found for the Subject Property or immediate vicinity. No evidence of oil and gas activity was apparent in historical aerials.

3.4 Indications of Polychlorinated Biphenyls (PCBs)

Transformers were not observed on the Subject Property; however, an old transformer may be encountered during grading activities in the vicinity of the old farmstead. If found, testing for PCBs and proper disposal is warranted.

3.5 Solid Waste

Although windblown waste was observed, significant dumping was not observed during the site visit. Significant dumping from adjoining residential neighbors was not observed. However, the possibility exists for buried solid waste associated with the former farmstead to be encountered during grading activities.

3.6 Vapor Encroachment

Evaluation of the potential for vapor encroachment included records review to identify suspect properties near the Subject Property. Suspect properties could have hazardous chemical releases in the soil or groundwater on and around the Subject Property. Potential releases could migrate onto the Subject Property through soil, groundwater or underground utilities and water wells and contribute to potential vapor encroachment (VEC).

Consideration of VECs consists of reviewing available information and use of professional judgement in determining 1) whether contamination is suspected in the soil and/or groundwater at, or near, the Subject Property; and 2) whether identified contamination is suspected to exist within a "Critical Distance" from the Subject Property. These distances vary depending on topographic and hydrologic gradient, width of contamination plume, and type of contaminant (known or suspected to exist). Generally, critical distances are 100 feet for non-petroleum contaminants of concern (COCs) and 30 feet for dissolved petroleum COCs.

Based on the historical records reviewed, current site operations, and physical setting of the site, a significant risk of vapor encroachment to the Subject Property is not likely to exist.

4 RECORDS REVIEW

4.1 Physical Setting

4.1.1 Surface Hydrology

Information provided by the Oklahoma Climatological Survey was reviewed. Cleveland County is located in an area of Oklahoma receiving an average of 33.37 inches of rain per year.

Floodplains consist of land immediately adjoining a stream which is inundated when the discharge exceeds the normal channel, onto areas adjoining the channel which may be covered by the regulatory or 100-year flood, and any normally dry land area that is susceptible to being inundated by water from any natural source. The floodplain includes both the floodway, and the floodway fringe districts.

According to FEMAs National Flood Hazard Layer (NFHL) Viewer, the Subject Property is in Zone X, Area of Minimal Flood Hazard (FEMA Map Panel 40027C0285H, effective 9/26/2008).

4.1.2 Geology

The Subject Property is underlain by the Permian age Salt Plains Formation which is characterized by red-brown blocky shale orange-brown siltstone grading southward into Purcell Sandstone in Norman area. Thickness of the formation averages 200 feet.

4.1.3 Groundwater Aquifers

The principal aquifer is a deeper formation, the **Central Oklahoma aquifer known as the Garber Wellington**. The aquifer is dominantly composed of the Permian-age Garber Sandstone and Wellington Formation. The aquifer also consists of Quaternary age alluvium and terrace deposits, Chase, Council Grove, and Admire Groups. The 3,000 square mile aquifer underlies all or parts of Cleveland, Logan, Lincoln, Oklahoma, Payne, and Pottawatomie Counties. The aquifer provides water for public, industrial, commercial, agricultural, and domestic use. Wells in this formation are up to 800 feet deep. Much of the metro area relies on this source of water.

4.1.4 Groundwater Wells

The USEPA Ground Water Handbook, Vol.1 Ground Water and Contamination, September 1990, states that the water table typically conforms to surface topography. This means the direction of flow for shallow groundwater is generally from higher elevations to lower elevations. Localized flow direction may vary as a result of rainfall, development, geologic characteristics, nearby surface water bodies, underground utilities such as storm drains, septic systems and sewers, or other influences such as the presence of high-volume wells.

According to the EDR provided records and OWRB well search, there are no groundwater well or boring records associated with the Subject Property. The EDR records indicated the nearest well is located ~986 feet to the southeast in the undeveloped parcel to the south. The well is

owned by Hitachi Computer Products under a temporary OWRB permit (19880509) for irrigation. Well depth and depth to water were not provided in the OWRB records search.

According to the OWRB well record mapper, the next nearest well is located ~0.24 miles to the east. Well ID 80765 was a monitoring well drilled to 13 feet below ground surface in October 2003 at the gas station at the corner of Imhoff and 24th Avenue SE. Saturated zones and depth to water were not reported.

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Tan sand	0	10	N
Red clay	10	13	N

Based on surface elevations, the groundwater gradient is likely to the west.

4.1.5 Topography

A USGS topographical map was reviewed for additional information about the surrounding land. The Norman 7.5' Quadrangle covers this site and historical maps are included. These maps are in Exhibit 2. The elevation is approximately 1,170 feet above sea level and the general topography is to the east-northeast.

4.1.6 Soils

Site soils information was obtained from NRCS Websoil Mapper. The soil map report is included in the Exhibits. The following soils are located on the Subject Property:

- Grainola-Asphort, frequently flooded complex, 0-12% slopes
- Kirkland-Pawhuska complex, 0-3% slopes
- Grant-Huska complex, 1-5% slopes

4.2 Historic Records Review

The following tables detail the EDR historical aerial photographs, topographic maps, and the city directory report. Sanborn Maps are not available for the Subject Property. Records are included in Exhibit 2, except the city directory report which is available upon request.

Table 1: Topographic Map Descriptions

Topographic Map and Date	Subject Property	Adjoining Properties
1893 Norman 15' quad	This area of Cleveland County appears to be farmland with farmsteads apparent in the vicinity. No structures are evident on the Subject Property.	
1925 Norman NO 2 7.5'quad 1936 Norman 15' quad	No structures apparent on Subject Property	Farmstead/barn apparent adjacent west.
1951 Norman 7.5' quad	No structures apparent on Subject Property.	South campus and Norman development apparent further to the north and west.
1975 Norman 7.5' quad 1983 Norman 7.5' quad 1995 Norman 7.5' quad	Several rural structures apparent on Subject Property.	SH-9 apparent further to the south. Development expanding from the north and west. Hitachi apparent to the southwest by 1995.
2012 Norman 7.5'quad 2016 Norman 7.5'quad 2018 Norman 7.5'quad	No apparent change in roads, topography, or hydrology. Structures are no longer shown on topographic maps.	

Table 2: Aerial Photograph Descriptions

Aerial Photo Date and Scale	Subject Property	Adjoining Properties
1937 1"=500'	Subject Property and adjacent properties appear to be tilled farmland. No structures present on Subject Property.	
1949 1"=500' 1955 1"=500' 1957 1"=500' 1962 1"=500' 1969 1"=500' 1975 1"=500'	Farmstead apparent on southwest corner of Subject Property. A pond is evident in the northeast corner from 1962-1975	Farmland By 1975 SH-9 is apparent further to the south.
1981 1"=500' 1984 1"=500' 1995 1"=500' 2006 1"=500'	Property appears to be vacant land	North: Residential Development South: Open field/undeveloped East: Undeveloped West: Undeveloped/Agricultural
2010 1"=500' 2015 1"=500' 2019 1"=500'	Property appears to be vacant land	North: Residential Development South: center of field used for borrow East: Current Structure (church) West: Undeveloped

Historical fire insurance rate maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and adjacent properties. Sanborn Maps were not available and a Sanborn No Coverage Letter was provided by EDR.

EDR's City-Directory Image Report was generated for the years 1992 to 2017 (not every year) and was reviewed to determine development of the Subject Property. No industrial or commercial activity was noted in the 2220 block of E Imhoff Road. The Jehovah's Witnesses

Kingdom Hall located at 2201 E Imhoff Road is listed in 2014 and 2017. A copy of the city directory report is available upon request.

Subject Property History Summary

Historical land use was documented by aerial photos, topographic maps, and interviews. Sanborn Maps were not available for this Property. No structures are evident on the Subject Property dating back to the 1893 topographic map. The northern end of the Subject Property appears to be tilled farmland in the 1930s with riparian area bisecting the Subject Property from east to west. A farmstead is apparent on west end the Subject Property from ~1940 to 1975. By 1981, the farmstead appears to have been razed and the Subject Property has remained undeveloped for ~50 years, since development of the adjacent cropland to the north into a residential neighborhood. Since the Subject Property has remained vacant/undeveloped for ~50 years, the historic use of portions of the Subject Property as farmland and a farmstead are not considered a REC. A Chain of title search was not required to determine historical land use.

Adjacent Properties Current Use and History Summary

The adjacent property to the north appears to be located cross-gradient from the Subject Property. The property appears to have been agricultural land from the 1890s into the 1970s. By 1981, a single-family residential neighborhood is apparent.

The adjacent property to the south appears to be located cross-gradient from the Subject Property. The property appears to have been agricultural land from the 1890s into the 1970s. By the 1990s, the land appears to be undeveloped grass land associated with the Hitachi facility located southwest of the Subject Property. In 2010, disturbance on the property is indicative of borrow, likely used for the expansion of the Hitachi facility.

The adjacent property to the east appears to be located up-gradient from the Subject Property. The property appears to have been agricultural land from the 1890s into the 1970s. By the 1980s, the land appears to be vacant/undeveloped. The current structure, the Jehovah's Witness Kingdom Hall, appears to have been constructed between 2006 and 2010.

The adjacent property to the west appears to be located down-gradient from the Subject Property. The property appears to have been agricultural land from the 1890s into the 1980s. By the 1980s, the land appears to be vacant/undeveloped. The property is partially covered with trees and no structures are apparent.

4.3 Regulatory Records Review

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions concerning the Subject Property. Some records to be reviewed pertain not just to the Subject Property but also to properties within an additional approximate minimum search distance in order to help assess the likelihood of problems from migrating hazardous substances or petroleum products. When the term approximate minimum

search distance includes areas outside the property, it shall be measured from the nearest property boundary. The term approximate minimum search distance is used in lieu of radius in order to include irregularly shaped properties.

4.3.1 Standard Federal and State Record Sources

An environmental database search was conducted by Environmental Data Resources (EDR) on January 26, 2023. **The Subject Property was not identified in any of the records reviewed.** Detailed listing information and definitions for records of concern are presented in Exhibit 1 of this report. Records of concern within the ASTM required search radius are discussed in the following sections.

4.3.2 Underground Storage Tank (UST)

The database search for USTs was provided by the Oklahoma Corporation Commission's UST program (approximate minimum search distance 0.25 mile).

The records review produced evidence of one (1) UST site within approximately 0.25 miles of the Subject Property:

Equal/Higher Elevation	Address	Distance/Direction
KWICK STOP #27 Facility Id: 1400067 Tank Status: Currently In Use (CIU)	2401 E IMHOFF	E 1/8 - 1/4 (0.188 mi.)

The UST site within the appropriate search radii is over 1/10th of a mile from the Subject Property. According to OWRB records, a monitoring well was installed at the Kwik Stop location in 2003. The Kwik Stop location does not have a history of any LUST cases. Based on the history and location, this site is not considered an environmental risk to the Subject Property.

4.3.3 Above Ground Storage Tanks (AST)

This information was provided by the Corporation Commission's AST program (average minimum search distance is 0.5 mile).

The records review produced evidence of one (1) AST site within 0.25 miles from the Subject Property.

Lower Elevation	Address	Distance/Direction
HITACHI COMPUTER PRO Facility Id: 1456823 Tank Status: CIU	1800 E IMHOFF	SW 1/8 - 1/4 (0.214 mi.)

The Above Ground Storage Tank (AST) site, Hitachi Computer Pro, is ~0.214 miles down-gradient from the Subject Property and is therefore not considered an environmental risk to the Subject Property.

4.3.4 Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG)

The EPA's RCRA Small Quantity Generator (RCRA-SQG) database is a compilation by the EPA facilities reporting generation, storage, transportation, treatment, or disposal of hazardous waste. RCRA small quantity generators are facilities that generate less than 1,000 kilograms (kg) but more than 100 kilograms (kg) per month of non-acutely hazardous waste (approximate minimum search distance 0.25 mile). RCRA very-small quantity generators (VSQG) generate less than 100 kilograms of hazardous waste per month.

The records review produced evidence of two (2) RCRA-VSQG sites within 0.25 miles of the Subject Property.

Equal/Higher Elevation	Address	Distance/Direction
NORMAN REGIONAL NINE EPA ID:: OKR000040204	2000 ANN BRADEN BLVD	SSW 1/8 - 1/4 (0.215 mi.)

Lower Elevation	Address	Distance/Direction
HITACHI COMPUTER PRO EPA ID:: OKD982289217	1800 EAST IMHOFF ROA	SW 1/8 - 1/4 (0.214 mi.)

The Resource Conservation and Recovery Act (RCRA) Very Small Quantity Generator (VSQG) site, Norman Regional Nine, is ~0.215 miles cross-gradient from the Subject Property and Hitachi Computer Pro is located 0.214 miles down-gradient. Therefore, the RCRA VSQG sites are not considered an environmental risk to the Subject Property.

4.3.5 EDR Historical Underground Storage Tanks

EDR has searched selected national collections of business directories and has collected listings of potential underground storage tank sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include historic USTs. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns but may not show up in current government records searches.

The records review produced evidence of one (1) historical underground storage tank site within 0.25 miles of the Subject Property.

Equal/Higher Elevation	Address	Distance/Direction
KWICK STOP #27 Facility Id: 1400067 Tank Status: CIU	***2401 E IMHOFF***	***E 1/8 - 1/4 (0.188 mi.)***

The EDR Historical UST site is discussed under USTs.

4.3.6 Formerly Used Defense Site (FUDS)

Military installations are identified in these databases. Formerly Used Defense Sites (FUDS) include locations of formerly used defense site properties where the US Army Corps of Engineers is actively working or will take necessary clean-up actions.

The records review produced evidence of one (1) FUDS site within 1.0 miles of the Subject Property.

Equal/Higher Elevation	Address	Distance/Direction
NOBLE OUTLYING FIELD		S 1/2 - 1 (0.925 mi.)

The FUDS site, Noble Outlying field appears to be 0.925 miles cross-gradient from the Subject Property. The 2021 USACE FUDS Program Management Action Plan lists the site but does not provide a property description. There is no record of clean-up activity or restoration activities. The site is currently farmland. Based on the cross-gradient location, distance from the Subject Property, lack of information indicating contamination, and current use of the site, the FUDS site is not considered an environmental risk to the Subject Property.

4.3.7 Orphan Sites

Orphan Sites, sites that were unable to be mapped by the environmental records provider, were reviewed.

A total of one (1) orphan site was identified in regulatory records. Available site information was reviewed for the orphan sites.

- NORMAN 1007445098 NORMAN ASPHALT LANDFILL CHATAUGA STREET SOUTH OF STATE ODI
  Based on review of DEQ records, the solid waste landfill legal case for Norman Asphalt Landfill was located south of Chautauqua Street and is over 2 miles to the southwest of the Subject Property.

The orphan site is not considered an environmental risk to the Subject Property.

5 INTERVIEWS WITH INDIVIDUALS AND RECORDS REVIEW

The objective of interviews is to obtain information indicating recognized environmental conditions in connection with the Subject Property. Below is a listing of contacts interviewed and informative resources and references utilized for the Phase 1 Site Assessment at the Subject Property:

Table 3: Interviewed Individuals and Summary of Records Searched

PERSON	CONTACT	Date	INFORMATION
Anthony Purinton, City Attorney for the City of Norman	anthony.purinton@normanok.gov	1/26/2023	Provided response to ASTM Questionnaire. The Title was not completed at the time of publication.
Jim McCall, Sellers Broker		2/1/2023	Mr. McCall indicated that this part of Norman was historically farmland. He was not aware of any dumping or homeless encampments on the Subject Property. The property was purchased by the current owner in 2010 with the intent to construct senior housing. The Subject Property is vacant, undeveloped land with no structures. The property adjacent to the west is under development by Lennar Homes to construct 100 homes on small, elongated lots. Mr. McCall provided an article on the development in the Norman Transcript dated June 30, 2022.
Cleveland County Assessor	https://property.spatialest.com/ok/cleveland/#/	1/26/2023	County assessor information
Norman City Clerk Records	https://www.normanok.gov/record-request-information	2/6/2023	City Clerk Records (violation records) – No records found from stormwater. There are no open or unresolved code or zoning violations for the Subject Property. Two cases of trash/litter on the Subject Property occurred in 2017. Both cases were abated by the owner at the time. Fire Marshall, fire, and hazmat records – No records found. Fuel or chemical storage activities, emergency responses to fires, hazardous materials responses, spill, and/or releases or observations associated with the Subject Property

PERSON	CONTACT	Date	INFORMATION
ODEQ Public Water Supply Search	http://sdwis.deq.state.ok.us/DWW/	2/10/2023	Drinking water supply consumer confidence reports. One monitoring violation was noted. The water supply meets drinking water requirements. Drinking water contains low levels of arsenic, within EPAs arsenic standard.
Sara Byers, DEQ Central Records	centralrecords@deq.ok.gov	2/13/2023	Legal and Solid waste records for the orphan Site Norman Asphalt indicted the orphan site is over 2 miles southwest of the Subject Property. Records for Hitachi
Oklahoma Petroleum Storage Tank Division	https://apps.occeweb.com/pstportal	2/13/2023	No LUST cases found for Kwik Stop located ~0.188 miles to the east of the Subject Property.
USDA NRCS Websoil Survey	https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm	2/2/2023	Soil map and soil descriptions
ODEQ Data Viewer	https://gis.deq.ok.gov/maps/	2/2/2023	Geology and Groundwater Aquifers (Geologic Map of Oklahoma, Miser, 1954)
USDA Wetlands Mapper	https://www.fws.gov/wetlands/data/mapper.html	2/2/2023	Wetlands and jurisdictional waterways
FEMA National Flood Hazard Layer	https://www.fema.gov/flood-maps/national-flood-hazard-layer	2/2/2023	FEMA Firmette
United States Geological Survey (USGS) Geology by State	https://mrdata.usgs.gov/geology/state/fips-unit.php?code=fUS40	2/2/2023	Description of Geologic Units in Oklahoma
Oklahoma Geological Survey Oil & Gas Survey Library	http://web-pilot.ogs.ou.edu/wells/	2/10/2023	Well search for Subject Property and vicinity.
Oklahoma Water Resources Board Water Well Search	https://owrb.maps.arcgis.com/apps/webappviewer/index.html?id=ed61209c40ec4f53bc51d2ffd18aa39b	2/13/2023	Well records search for nearby wells.
EPA Radon Zone Map	https://www.epa.gov/radon/epa-map-radon-zones	2/2/2023	Cleveland County Zone 3

6 NON-SCOPE CONSIDERATIONS

Certain conditions are beyond the scope of ASTM Phase I ESAs and are therefore outside the scope of this assessment, unless specifically addressed in this report. Those conditions include but are not limited to the following:

- Asbestos
- Lead-based Paint
- Radon
- Wetlands
- Per- and Polyfluoroalkyl Substances (PFAS)

6.1 Asbestos Containing Materials

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos was used in roofing shingles, ceiling and floor tiles, insulation products, asbestos cement products, and a host of other building materials. ACM is often classified as either friable or non-friable. Friable ACM, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems. Friable ACM is more likely to release fibers when disturbed or damaged than non-friable ACM.

No structures are located on the Subject Property. ACM is not considered a BER.

6.2 Lead Based Paint

Lead was added to paint as a pigment, to speed drying, increase durability or to resist moisture. Although lead improves paint, it was found to pose a health hazard, particularly to children under the age of six, whose bodies are still developing. A paint is considered LBP if it contains lead equal to or exceeding 1.0 milligram per square centimeter or 0.5 percent by weight, or 5,000 parts per million (ppm) by weight.

No structures are located on the Subject Property. Lead-based paint is not considered a BER.

6.3 Radon

Radon is a colorless, odorless, naturally-occurring, radioactive gas originating from the breakdown of uranium in the subsurface. Radon is a known carcinogen implicated as a cause of lung cancer. A radon survey was not conducted for the Subject Property. The US EPA has published a Map of Radon Zones in the United States, which indicates the Subject Property is in a Zone 3 potential for radon gas. Zone 3 has a predicted average indoor radon screening level of less than 2.0 pCi/L. The US EPA recommends additional testing and investigation when radon levels are greater than 4.0 pCi/L.

According to the EPA Map of Radon Zones, Cleveland County is classified EPA Radon Zone 3 <2 pCi/L.

6.4 Wetlands

Wetlands are generally defined as lands that transition between terrestrial and aquatic systems and are saturated by either surface water or groundwater for a period of time such as to support vegetation that is characteristically adapted for life in saturated soil conditions. Wetlands, riverine habitat, and jurisdictional waterways were reviewed from the U.S. Fish and Wildlife Service National Wetlands Inventory Mapper.

According to the USFWS National Wetlands Inventory the following jurisdictional waterways riverine habitat is located on the Subject Property.

<u>Riverine Habitat R4SBC</u>

- *System Riverine (R) : The Riverine System includes all wetlands and deep-water habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.*
- *Subsystem Intermittent (4) : This Subsystem includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent.*
- *Class Streambed (SB) : Includes all wetlands contained within the Intermittent Subsystem of the Riverine System and all channels of the Estuarine System or of the Tidal Subsystem of the Riverine System that are completely dewatered at low tide.*
- *Water Regime Seasonally Flooded (C) : Surface water is present for extended periods especially early in the growing season but is absent by the end of the growing season in most years. The water table after flooding ceases is variable, extending from saturated to the surface to a water table well below the ground surface.*

Under Section 404 of the Clean Water Act, consideration must be given to the impact of a construction project on wetlands. Impacts should be avoided or minimized where practicable. Where impacts, cannot be avoided, permitting and compensatory wetland mitigation may be necessary. The United States Army Corps of Engineers (USACE) manages Section 404 oversight in Oklahoma. In order to ensure compliance with regulations, developers should consult relevant guidelines and coordinate with the Tulsa District of the USACE regarding the following:

- *Identifying any wetlands present at the project site.*
- *Determining if wetlands are jurisdictional and protected by section 404.*
- *Developing plans that will either avoid or minimize impacts to wetlands.*
- *Acquiring the necessary permits if jurisdictional wetlands will be impacted.*
- *Designing, executing, and monitoring wetland mitigation, if necessary.*

Based on the presences of wetlands, ponds, and riverine habitat on the Subject Property, wetlands are considered a Business Environmental Risk (BER).

6.5 Per- and Polyfluoroalkyl Substances (PFAS)

Per- and Polyfluoroalkyl Substances (PFAS), perfluorooctanoic acid (PFOA), and related compounds are considered emerging chemicals of concern. Provisions for these chemicals have been made in the 2021 Infrastructure bill which is expected to result in widespread, multi-level regulatory guidelines, and reporting standards for these chemicals. These chemicals are not currently covered by the ASTM 1527-21 Standard for Phase 1 Site Assessments but will likely be included in the near future.

PFAS includes thousands of chemicals which are widely used, persistent chemicals utilized common in firefighting foams (historically AFFF), food packaging, stain-resistant carpets, rugs, and furniture, water repellant outdoor gear, and industrial applications. There is evidence that exposure to PFAS can lead to adverse human health effects. PFAS can enter drinking water through industrial release to water, use of fire-fighting foam (historically AFFF) air or soil; discharges from sewage treatment plants; and land application of contaminated sludge. Because these chemicals are highly soluble and appear to be toxic at very low concentrations, water contamination from PFAS is a large health concern.

The EPA Administrator, Andrew Wheeler, indicated in the January 14, 2021, Advanced Notice of Proposed Rulemaking the that the following list of North American Industrial Classification System (NAICS) codes is a general guide of "potentially affected entities" for PFAS/PFOA Contamination including:

- Aviation operations
- Carpet manufacturers
- Car washes
- Chemical manufacturing
- Chrome electroplating
- Coating/paints/varnish manufacturing
- Firefighting foam manufacturing
- Landfills
- Medical devices
- Municipal fire departments and training centers
- Paper mills
- Pesticide/insecticides
- Petroleum and coal production manufacturing
- Petroleum refineries/terminals
- Photo film manufacturing
- Polish/wax/cleaning product manufacturing
- Polymer manufacturing
- Printing facilities
- Textile mills
- Waste management and remediation services
- Wastewater treatment plants

The Subject Property is historically a farmstead and undeveloped land. The Hitachi facility located down-gradient to the southwest does not appear to be within the NAICS list of potentially affected entities for PFAS/PFOA contamination. Therefore, PFAS is not currently considered a BER.

7 FINDINGS & OPINIONS

Site Description and History

The Subject Property consists of 4.85 acres more or less located northeast of the intersection of Oakhurst Avenue and E Imhoff Road. NE/4 of Section 17, Township 12N Range 3W. According to county assessor information, the legal description of the Subject Property is Lots 1 thru 6 Block 001 Isle View Subdivision to Oklahoma City. The proposed use of the Subject Property is Multi-Family Low Income Housing Tax Credit Project (LIHTC) with the potential of including HUD funding in addition to the LIHTC.

The Subject Property is tree covered development land with no standing structures. Several foundations and a water well remain from a former farmstead located on the Subject Property. No structures are evident on the Subject Property dating back to the 1893 topographic map. The northern end of the Subject Property appears to be tilled farmland in the 1930s with riparian area bisecting the Subject Property from east to west. A farmstead is apparent on west end the Subject Property from ~1940 to 1975. By 1981, the farmstead appears to have been razed and the Subject Property has remained undeveloped for ~50 years, since development of the adjacent cropland to the north into a residential neighborhood. Since the Subject Property has remained vacant/undeveloped for ~50 years, the historic use of portions of the Subject Property as farmland and a farmstead are not considered a REC.

Summary of Environmental Records

- No records were found of oil or gas wells on the Subject Property.
- Environmental records were determined to not have environmental impact on the Subject Property.

BERs

Business Environmental Risks (BERs) are risks which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the commercial real estate. BERs may affect the liabilities and financial obligations of the client, the health & safety of site occupants, and the value and marketability of the Property not necessarily limited to those environmental issues required to be investigated as defined by ASTM. BERs are non-scope considerations outside the scope of this assessment, unless agreed upon in the engagement letter and specifically addressed in this report.

According to the USFWS National Wetlands Inventory the following jurisdictional waterways riverine habitat is located on the Subject Property. Based on the presences of wetlands, ponds, and riverine habitat on the Subject Property, wetlands are considered a Business Environmental Risk.

Significant Data Gaps

The ASTM requires historical property use at five-year increments back to first use or 1940 (whichever is earlier). Historical records including aerials, topos, Sanborn Maps (if available) and city directory records were not achieved at five-year increments. The data failure is not considered a significant data gap and did not inhibit the ability to identify RECs at the Subject Property. There are no significant data gaps in this study.

Result

This report revealed no recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the Subject Property. The site is well suited for residential use except for business environmental risk associated with riverine habitat on the Subject Property. This conclusion is based on an extensive record review and file search, site visit and interviews.

8 CONCLUSION

We performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 of Imhoff Road Development Land, Cleveland County Parcel ID: NC29 8 2W 4046, Norman, OK 73071, the Subject Property. Any exceptions to, or deletions from this practice are described in Section 1 of this report. This report revealed no recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the Subject Property. This conclusion is based on an extensive record review and file search, site visit and interviews.

9 REFERENCES

Environmental Protection Agency. 2021. Advanced Notice of Proposed Rulemaking Addressing PFOA and PFOS in the Environment: Potential Future Regulation Pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act and the Resource Conservation and Recovery Act. EPA–HQ–OLEM–2019-0341; FRL-10019-13-OLEM. January 14, 2021.

Environmental Data Resources, Inc. 2023. Certified Sanborn® Map Report. Inquiry No.: 7236303.3, January 26, 2023.

Environmental Data Resources, Inc. 2023. The EDR-City Directory Image Report. Inquiry No.: 7236303.5, January 27, 2023.

Environmental Data Resources, Inc. 2023. The EDR Aerial Photo Decade Package. Inquiry No.: 7236303.8, January 31, 2023.

Environmental Data Resources, Inc. 2023. The EDR Historical Topo Map Report. Inquiry No.: 7236303.4, January 26, 2023.

Environmental Data Resources, Inc. 2023. The EDR Summary Radius Report. Inquiry No.: 7236303.2s, January 26, 2023.

United States Army Corp of Engineers (USACE) Environmental Programs.. 2021. Noble Outlying Field. Formerly Used Defense Sites Program Management Action Plan. Data as of 2021 Annual Report to Congress.

10 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the Subject Property. I or persons acting at my direction have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Based upon my inquiry of those who performed the site audit and my review of this Phase I Report, I believe that this report was prepared in accordance with the standards put forth in ASTM 1527-21.

Daphne D. Summers, M.S.
February 23, 2023

Exhibit 1: Environmental Database Search, ASTM Questionnaire

4.85 Acres Development Land
E Imhoff Road
Norman, OK 73071

Inquiry Number: 7236303.2s
January 26, 2023

EDR Summary Radius Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

E IMHOFF ROAD
NORMAN, OK 73071

COORDINATES

Latitude (North):	35.1904920 - 35ˆ 11' 25.77''
Longitude (West):	97.4095600 - 97ˆ 24' 34.41''
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	644802.8
UTM Y (Meters):	3895128.5
Elevation:	1170 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150623
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
E IMHOFF ROAD
NORMAN, OK 73071

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	KWICK STOP #27	2401 E IMHOFF	UST, HIST UST	Higher	995, 0.188, East
A2	HITACHI COMPUTER PRO	1800 E IMHOFF	AST	Lower	1131, 0.214, SW
A3	HITACHI COMPUTER PRO	1800 EAST IMHOFF ROA	RCRA-VSQG, US AIRS, FINDS	Lower	1131, 0.214, SW
4	NORMAN REGIONAL NINE	2000 ANN BRADEN BLVD	RCRA-VSQG	Higher	1135, 0.215, SSW
5	NOBLE OUTLYING FIELD		FUDS	Higher	4886, 0.925, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-VSQG: A review of the RCRA-VSQG list, as provided by EDR, and dated 11/21/2022 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORMAN REGIONAL NINE EPA ID:: OKR000040204	2000 ANN BRADEN BLVD	SSW 1/8 - 1/4 (0.215 mi.)	4	8

Lower Elevation	Address	Direction / Distance	Map ID	Page
HITACHI COMPUTER PRO EPA ID:: OKD982289217	***1800 EAST IMHOFF ROA***	***SW 1/8 - 1/4 (0.214 mi.)***	***A3***	***8***

Lists of state and tribal registered storage tanks

UST: A review of the UST list, as provided by EDR, and dated 09/05/2022 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KWICK STOP #27 Facility Id: 1400067 TankStatus: CIU	***2401 E IMHOFF***	***E 1/8 - 1/4 (0.188 mi.)***	***1***	***8***

EXECUTIVE SUMMARY

AST: A review of the AST list, as provided by EDR, and dated 09/05/2022 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HITACHI COMPUTER PRO Facility Id: 1456823 Tank Status: CIU	1800 E IMHOFF	SW 1/8 - 1/4 (0.214 mi.)	A2	8

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: A review of the HIST UST list, as provided by EDR, and dated 03/21/2003 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KWICK STOP #27 Facility Id: 1400067 Tank Status: Currently in Use	***2401 E IMHOFF***	***E 1/8 - 1/4 (0.188 mi.)***	***1***	***8***

Other Ascertainable Records

FUDS: A review of the FUDS list, as provided by EDR, and dated 08/11/2022 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

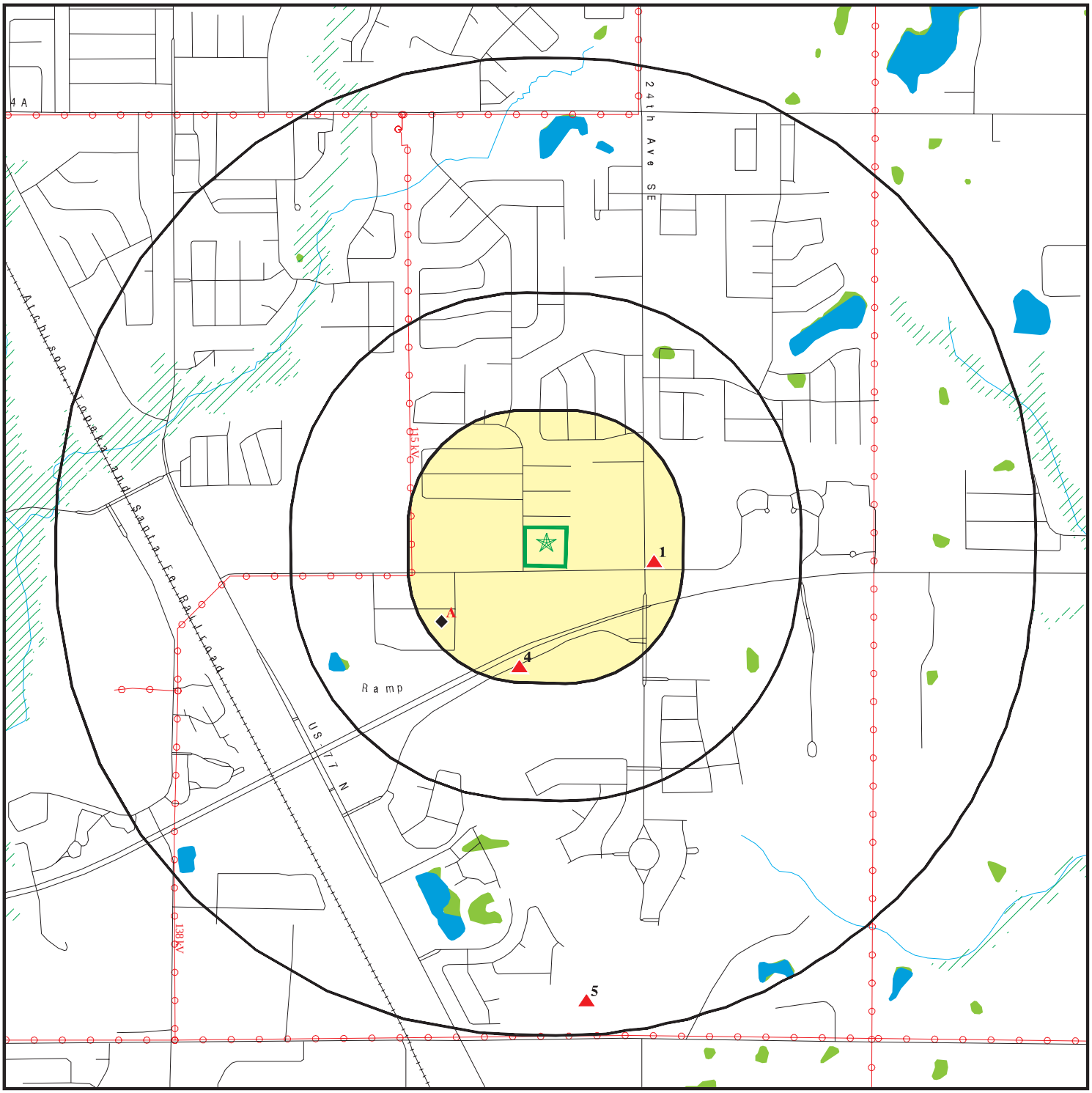
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NOBLE OUTLYING FIELD		S 1/2 - 1 (0.925 mi.)	5	9

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NORMAN	1007445098	NORMAN ASPHALT LANDFILL	CHATAUGA STREET SOUTH OF STATE		ODI

OVERVIEW MAP - 7236303.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4.85 Acres Development Land ADDRESS: E Imhoff Road Norman OK 73071 LAT/LONG: 35.190492 / 97.40956	CLIENT: RedbudEnv CONTACT: Daphne Summers INQUIRY #: 7236303.2s DATE: January 26, 2023 7:35 pm

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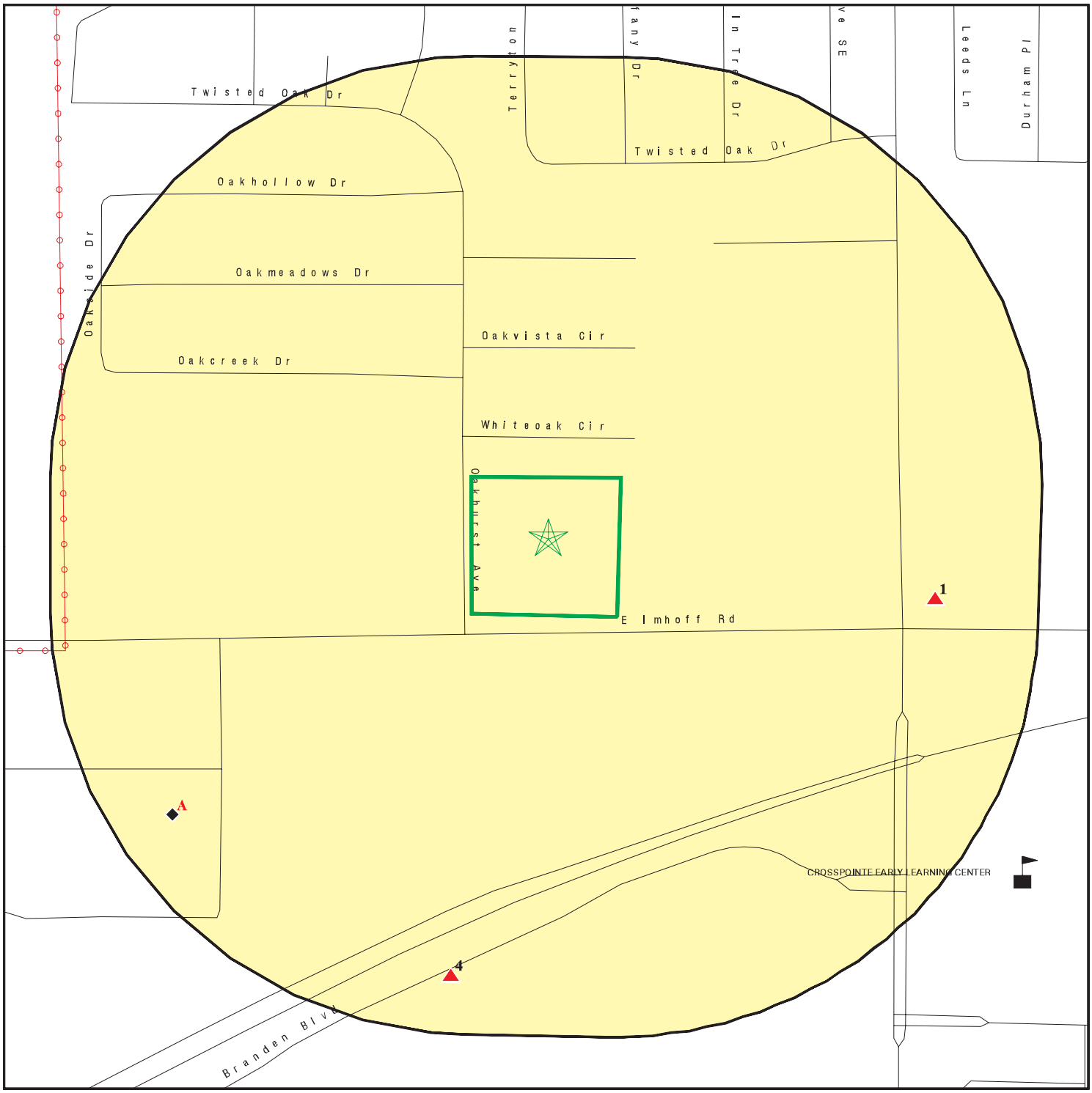
DETAIL MAP - 7236303.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4.85 Acres Development Land	CLIENT: RedbudEnv
ADDRESS: E Imhoff Road Norman OK 73071	CONTACT: Daphne Summers INQUIRY #: 7236303.2s
LAT/LONG: 35.190492 / 97.40956	DATE: January 26, 2023 7:35 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	2	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
SCAP	TP		NR	NR	NR	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
OK COMPLAINT	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	TP		NR	NR	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	5	0	1	0	6

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
1 **East** **1/8-1/4** **0.188 mi.** **995 ft.** **Relative:** **Higher**	**KWICK STOP #27** **2401 E IMHOFF** **NORMAN, OK 73071** **Click here for full text details** **UST** Tank Status CIU Facility Id 1400067 **HIST UST** Tank Status Currently in Use Facility Id 1400067	**UST** **HIST UST**	**U001224445** **N/A**
A2 **SW** **1/8-1/4** **0.214 mi.** **1131 ft.** **Relative:** **Lower**	**HITACHI COMPUTER PRODUCTS (AMERICA), INC** **1800 E IMHOFF** **NORMAN, OK 73071** **Click here for full text details** **AST** Tank Status CIU Facility Id 1456823	**AST**	**A100353408** **N/A**
A3 **SW** **1/8-1/4** **0.214 mi.** **1131 ft.** **Relative:** **Lower**	**HITACHI COMPUTER PRODUCTS INC / 1800 E IMHOFF NORM** **1800 EAST IMHOFF ROAD** **NORMAN, OK 73071** **Click here for full text details** **RCRA-VSQG** EPA Id OKD982289217 **US AIRS** EPA plant ID: 110001637168 **FINDS** Registry ID: 110001637168	**RCRA-VSQG** **US AIRS** **FINDS**	**1000144129** **OKD982289217**
4 **SSW** **1/8-1/4** **0.215 mi.** **1135 ft.** **Relative:** **Higher**	**NORMAN REGIONAL NINE** **2000 ANN BRADEN BLVD.** **NORMAN, OK 73071** **Click here for full text details** **RCRA-VSQG** EPA Id OKR000040204	**RCRA-VSQG**	**1027474093** **OKR000040204**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
5 South 1/2-1 0.925 mi. 4886 ft. Relative: Higher	**NOBLE OUTLYING FIELD** **NOBLE, OK** **Click here for full text details**	**FUDS**	**1024904511 N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
OK	AIRS	Permitted AIRS Facility Listing	Department of Environmental Quality	09/13/2022	09/14/2022	12/07/2022
OK	ASBESTOS	Asbestos Notification	Department of Labor	10/03/2022	10/04/2022	12/20/2022
OK	AST	Aboveground Storage Tanks	Oklahoma Corporation Commission	09/05/2022	09/20/2022	12/07/2022
OK	BROWNFIELDS	Brownfield Sites	Department of Environmental Quality	09/07/2012	09/07/2012	10/10/2012
OK	BROWNFIELDS 2	Brownfields Public Record Listing	Department of Environmental Quality	06/09/2022	08/11/2022	10/25/2022
OK	DRYCLEANERS	Drycleaner Facilities	Department of Environmental Quality	09/13/2022	09/14/2022	12/07/2022
OK	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Quality	07/25/2014	11/06/2014	01/13/2015
OK	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Quality	12/10/2013	12/12/2013	01/24/2014
OK	HIST UST	Underground Storage Tank List, List II Version	Oklahoma Corporation Commission	03/21/2003	04/28/2003	05/27/2003
OK	INST CONTROL	Institutional Control Sites	Department of Environmental Quality	08/08/2022	08/09/2022	10/25/2022
OK	LAST	Leaking Aboveground Storage Tanks List	Oklahoma Corporation Commission	09/05/2022	09/20/2022	12/08/2022
OK	LUST	Leaking Underground Storage Tank List	Oklahoma Corporation Commission	09/05/2022	09/20/2022	12/08/2022
OK	OK COMPLAINT	Oklahoma Complaint System Database	Oklahoma Conservation Commission	06/30/2021	07/28/2021	10/28/2021
OK	PFAS	PFAS Contamination Site Location Listing	Department of Environment Quality	06/23/2021	06/23/2021	12/14/2021
OK	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Quality		07/01/2013	01/03/2014
OK	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Quality		07/01/2013	01/20/2014
OK	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Oklahoma Corporation Commission		07/01/2013	12/27/2013
OK	SCAP	Site Cleanup Assistance program Listing	Department of Environmental Quality	09/19/2022	09/20/2022	12/08/2022
OK	SHWS	Voluntary Cleanup & Superfund Site Status Report	Department of Environmental Quality	08/08/2022	08/09/2022	10/25/2022
OK	SWF/LF	Permitted Solid Waste Disposal & Processing Facilities	Department of Environmental Quality	07/25/2022	09/20/2022	12/08/2022
OK	SWRCY	Recycling Facilities	Department of Environmental Quality	07/10/2019	07/14/2022	09/30/2022
OK	TIER 2	Tier 2 Data Listing	Department of Environmental Quality	12/31/2020	06/07/2021	08/31/2021
OK	UIC	Underground Injection Wells Database Listing	Department of Environmental Quality	08/15/2022	10/10/2022	12/20/2022
OK	UST	Underground Storage Tank Listing	Oklahoma Corporation Commission	09/05/2022	09/20/2022	12/07/2022
OK	VCP	Voluntary Cleanup Site Inventory	Department of Environmental Quality	08/08/2022	08/09/2022	10/25/2022
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/13/2022	09/14/2022	12/05/2022
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2019	03/02/2022	03/25/2022
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2020	11/30/2021	02/22/2022
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2022	10/21/2022	01/10/2023
US	CORRACTS	Corrective Action Report	EPA	11/21/2022	11/21/2022	12/05/2022
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	10/27/2022	11/01/2022	11/15/2022
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/25/2022	09/30/2022	12/22/2022
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/12/2022	12/14/2022	12/19/2022
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	08/25/2022	09/06/2022	12/05/2022
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	10/14/2021	11/05/2021	02/01/2022

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FINDS	Facility Index System/Facility Registry System	EPA	08/03/2022	08/25/2022	10/24/2022
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	08/11/2022	08/11/2022	09/30/2022
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/11/2022	08/11/2022	09/30/2022
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	07/26/2021	07/27/2021	10/22/2021
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	09/19/2022	09/19/2022	09/30/2022
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/28/2021	06/11/2021	09/07/2021
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	06/02/2022	06/13/2022	08/31/2022
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/11/2022	06/13/2022	08/16/2022
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/28/2022	06/13/2022	08/16/2022
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/14/2022	06/13/2022	08/16/2022
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/20/2022	06/13/2022	08/16/2022
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/08/2022	06/13/2022	08/16/2022
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/07/2022	06/13/2022	08/16/2022
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	06/02/2022	06/13/2022	08/31/2022
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/11/2022	06/13/2022	08/16/2022
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/28/2022	06/13/2022	08/16/2022
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/14/2022	06/13/2022	08/16/2022
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/20/2022	06/13/2022	08/16/2022
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/08/2022	06/13/2022	08/16/2022
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	10/27/2022	11/01/2022	11/15/2022
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	10/27/2022	11/01/2022	11/15/2022
US	LUCIS	Land Use Control Information System	Department of the Navy	11/02/2022	11/08/2022	01/10/2023
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	11/29/2022	11/30/2022	12/22/2022
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/26/2022	11/22/2022	12/05/2022
US	NPL	National Priority List	EPA	10/27/2022	11/01/2022	11/15/2022
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	01/20/2022	01/20/2022	03/25/2022
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PCS INACTIVE	Listing of Inactive PCS Permits	EPA	11/05/2014	01/06/2015	05/06/2015
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	08/22/2018	03/31/2022	11/08/2022
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	02/23/2022	07/08/2022	11/08/2022
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	08/22/2018	10/26/2022	11/08/2022
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PRP	Potentially Responsible Parties	EPA	10/27/2022	11/01/2022	11/15/2022
US	Proposed NPL	Proposed National Priority List Sites	EPA	10/27/2022	11/01/2022	11/15/2022
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	11/21/2022	11/21/2022	12/05/2022
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	11/21/2022	11/21/2022	12/05/2022
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	11/21/2022	11/21/2022	12/05/2022
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	11/21/2022	11/21/2022	12/05/2022
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	11/21/2022	11/21/2022	12/05/2022
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	ROD	Records Of Decision	EPA	10/27/2022	11/01/2022	11/15/2022
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	10/27/2022	11/01/2022	11/15/2022
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	10/27/2022	11/01/2022	11/15/2022
US	SSTS	Section 7 Tracking Systems	EPA	10/17/2022	10/18/2022	01/10/2023
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2018	08/14/2020	11/04/2020
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/17/2020	09/10/2020
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	02/23/2022	03/10/2022	03/10/2022
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	07/29/2022	08/18/2022	10/24/2022
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	08/15/2022	08/17/2022	10/24/2022
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	09/19/2022	09/20/2022	12/22/2022
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	07/29/2022	08/18/2022	10/24/2022
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	08/15/2022	08/17/2022	10/24/2022
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/03/2022	08/17/2022	08/31/2022
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/08/2022	08/08/2022	10/21/2022
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	10/29/2021	01/19/2022
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
OK	Daycare Centers	Sensitive Receptor: Day Care Centers	Department of Human Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

4.85 ACRES DEVELOPMENT LAND
E IMHOFF ROAD
NORMAN, OK 73071

TARGET PROPERTY COORDINATES

Latitude (North):	35.190492 - 35ˆ 11’ 25.77’’
Longitude (West):	97.40956 - 97ˆ 24’ 34.42’’
Universal Tranverse Mercator:	Zone 14
UTM X (Meters):	644802.8
UTM Y (Meters):	3895128.5
Elevation:	1170 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12543177 NORMAN, OK
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

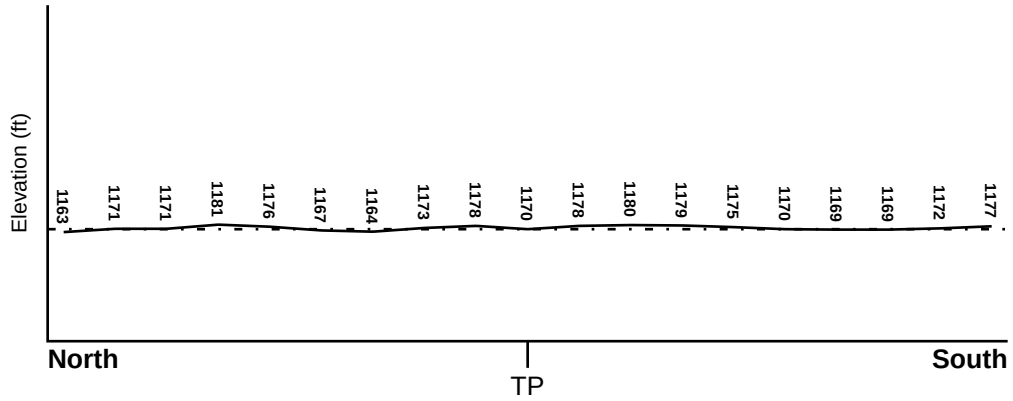
TOPOGRAPHIC INFORMATION

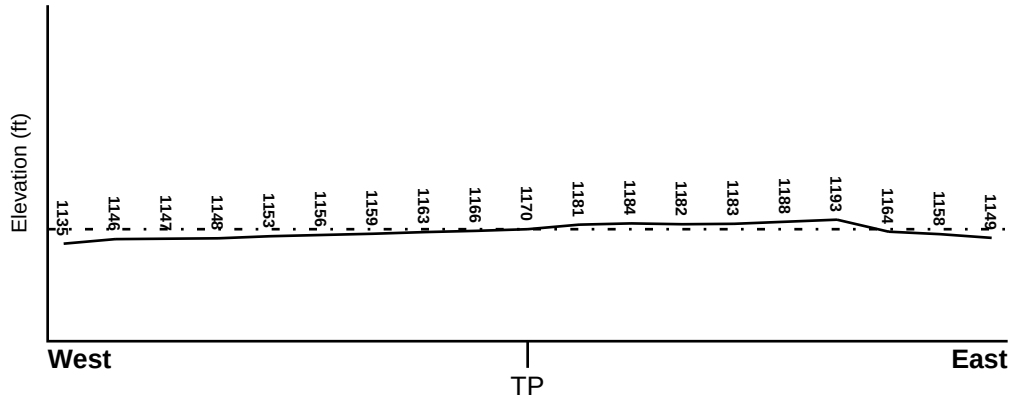
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

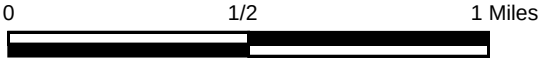
General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1170 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
40027C0285H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
40087C0120G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

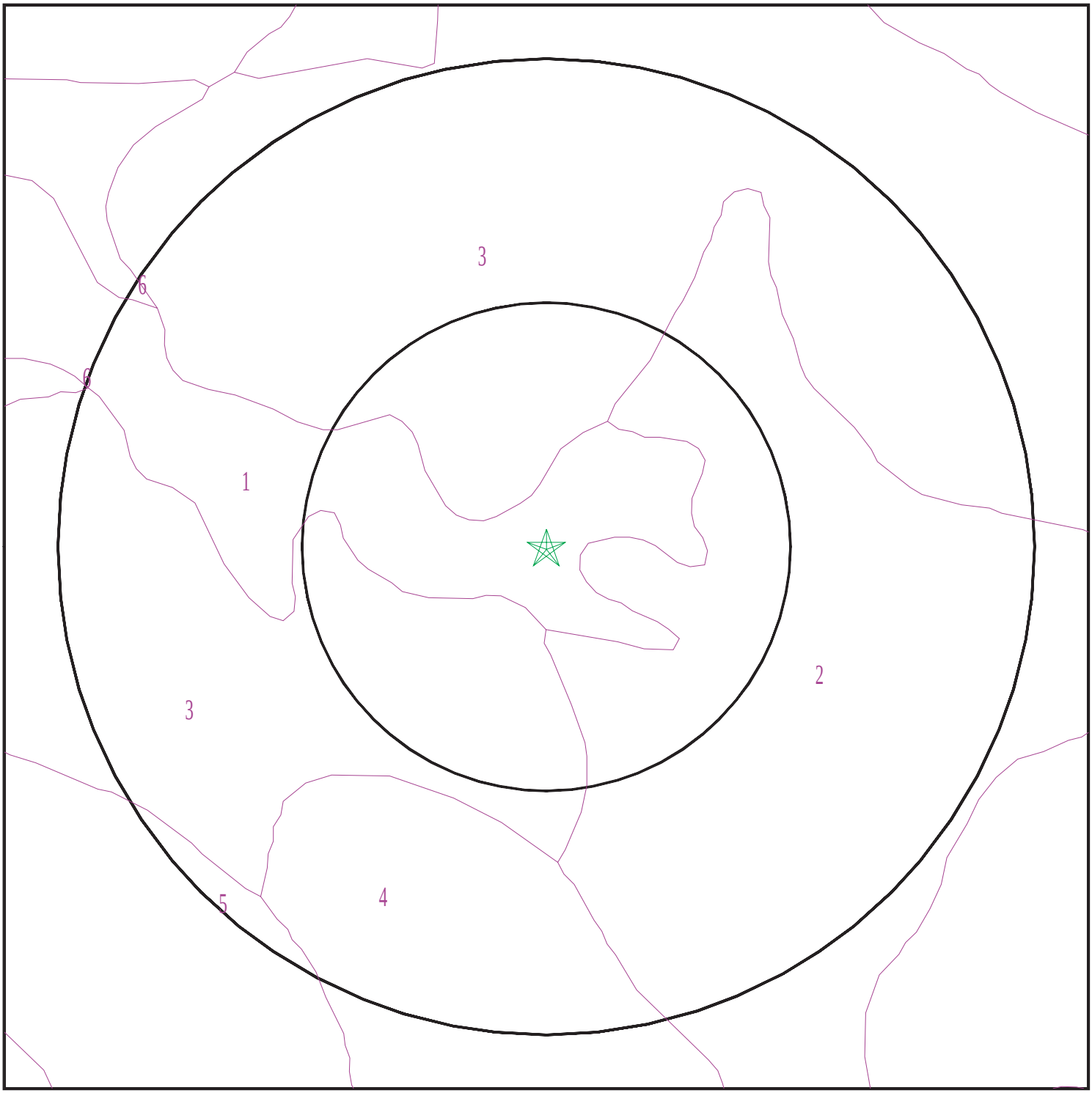
Era:	Paleozoic
System:	Permian
Series:	Upper part of Leonardian Series
Code:	P2b *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7236303.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	4.85 Acres Development Land	CLIENT:	RedbudEnv
ADDRESS:	E Imhoff Road Norman OK 73071	CONTACT:	Daphne Summers
		INQUIRY #:	7236303.2s
LAT/LONG:	35.190492 / 97.40956	DATE:	January 26, 2023 7:35 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Grainola

Soil Surface Texture: silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay loam	Not reported	Not reported	Max: 1.4114 Min: 0	Max: Min:
2	3 inches	7 inches	silty clay	Not reported	Not reported	Max: 1.4114 Min: 0	Max: Min:
3	7 inches	27 inches	gravelly silty clay	Not reported	Not reported	Max: 1.4114 Min: 0	Max: Min:
4	27 inches	29 inches	bedrock	Not reported	Not reported	Max: 1.4114 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Kirkland

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
2	7 inches	51 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
3	75 inches	79 inches	silty clay loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
4	51 inches	75 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: Grant

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14.114 Min: 4.233	Max: 8.4 Min: 6.1
2	9 inches	14 inches	silt loam	Not reported	Not reported	Max: 14.114 Min: 4.233	Max: 8.4 Min: 6.1
3	31 inches	50 inches	silty clay loam	Not reported	Not reported	Max: 14.114 Min: 4.233	Max: 8.4 Min: 6.1
4	50 inches	59 inches	bedrock	Not reported	Not reported	Max: 14.114 Min: 4.233	Max: 8.4 Min: 6.1
5	14 inches	31 inches	silty clay loam	Not reported	Not reported	Max: 14.114 Min: 4.233	Max: 8.4 Min: 6.1

Soil Map ID: 4

Soil Component Name: Renfrow

Soil Surface Texture: silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 6.1
2	5 inches	18 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	72 inches	79 inches	bedrock	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 6.1
4	18 inches	72 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 6.1

Soil Map ID: 5

Soil Component Name: Kirkland

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	9 inches	11 inches	silt loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
2	11 inches	25 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
3	57 inches	79 inches	silty clay	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4
4	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	25 inches	57 inches	silty clay loam	Not reported	Not reported	Max: 0.4233 Min: 0.0106	Max: 8.4 Min: 7.4

Soil Map ID: 6

Soil Component Name: Bethany

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 6.6
2	11 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 6.6
3	16 inches	27 inches	silty clay loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 6.6
4	42 inches	79 inches	silty clay loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 6.6
5	27 inches	42 inches	silty clay	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000966045	1/4 - 1/2 Mile ESE
B9	USGS40000965991	1/4 - 1/2 Mile SW
B10	USGS40000965992	1/4 - 1/2 Mile SW
E15	USGS40000966087	1/2 - 1 Mile ENE
F18	USGS40000965956	1/2 - 1 Mile SSW
F19	USGS40000965957	1/2 - 1 Mile SSW
F20	USGS40000965958	1/2 - 1 Mile SSW
H27	USGS40000966027	1/2 - 1 Mile West
H28	USGS40000966028	1/2 - 1 Mile West
G32	USGS40000965996	1/2 - 1 Mile WSW
H33	USGS40000966019	1/2 - 1 Mile WSW
H34	USGS40000966018	1/2 - 1 Mile WSW
K40	USGS40000965984	1/2 - 1 Mile WSW
K45	USGS40000965979	1/2 - 1 Mile WSW
47	USGS40000966046	1/2 - 1 Mile West
48	USGS40000965968	1/2 - 1 Mile WSW
50	USGS40000966066	1/2 - 1 Mile West
M51	USGS40000966222	1/2 - 1 Mile North
M52	USGS40000966227	1/2 - 1 Mile North
54	USGS40000966193	1/2 - 1 Mile NNW
55	USGS40000965952	1/2 - 1 Mile SW
58	USGS40000965969	1/2 - 1 Mile WSW
62	USGS40000966002	1/2 - 1 Mile WSW
63	USGS40000966238	1/2 - 1 Mile NNE
67	USGS40000966090	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OKWR10000006835	1/8 - 1/4 Mile SE
2	OK7000000168306	1/4 - 1/2 Mile East
A4	OK7000000128555	1/4 - 1/2 Mile West
A5	OK7000000178118	1/4 - 1/2 Mile West
6	OK7000000071128	1/4 - 1/2 Mile NE
A7	OK7000000130365	1/4 - 1/2 Mile West
A8	OK7000000130366	1/4 - 1/2 Mile West
C11	OK7000000178119	1/2 - 1 Mile WNW
D12	OK7000000171601	1/2 - 1 Mile East
D13	OK7000000171602	1/2 - 1 Mile East
C14	OK7000000130367	1/2 - 1 Mile WNW
E16	OK7000000029219	1/2 - 1 Mile ENE
17	OK7000000125124	1/2 - 1 Mile SSE
21	OK7000000117130	1/2 - 1 Mile SE
G22	OK7000000192604	1/2 - 1 Mile WSW
G23	OK7000000192606	1/2 - 1 Mile WSW
G24	OK7000000192605	1/2 - 1 Mile WSW
G25	OK7000000122608	1/2 - 1 Mile WSW
G26	OK7000000128306	1/2 - 1 Mile WSW
29	OK7000000137322	1/2 - 1 Mile NNE
I30	OK7000000121912	1/2 - 1 Mile SW
31	OK7000000148639	1/2 - 1 Mile ESE
J35	OK7000000199996	1/2 - 1 Mile West
J36	OK7000000122605	1/2 - 1 Mile West
37	OK7000000148023	1/2 - 1 Mile West
I38	OK7000000145813	1/2 - 1 Mile SW
39	OK7000000146880	1/2 - 1 Mile SE
L41	OK7000000158774	1/2 - 1 Mile SW
L42	OK7000000158776	1/2 - 1 Mile SW
L43	OK7000000158775	1/2 - 1 Mile SW
44	OK7000000031656	1/2 - 1 Mile East
46	OK7000000076024	1/2 - 1 Mile SE
49	OK7000000153655	1/2 - 1 Mile SSW
53	OK7000000102227	1/2 - 1 Mile SSE
56	OK7000000125342	1/2 - 1 Mile ENE
57	OK7000000158773	1/2 - 1 Mile SSW
59	OK7000000124095	1/2 - 1 Mile NW
N60	OK7000000187071	1/2 - 1 Mile SW
N61	OK7000000192558	1/2 - 1 Mile SW
64	OK7000000040406	1/2 - 1 Mile North
65	OK7000000159216	1/2 - 1 Mile West
66	OK7000000127637	1/2 - 1 Mile North
68	OK7000000158772	1/2 - 1 Mile SSW
69	OK7000000159029	1/2 - 1 Mile NNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

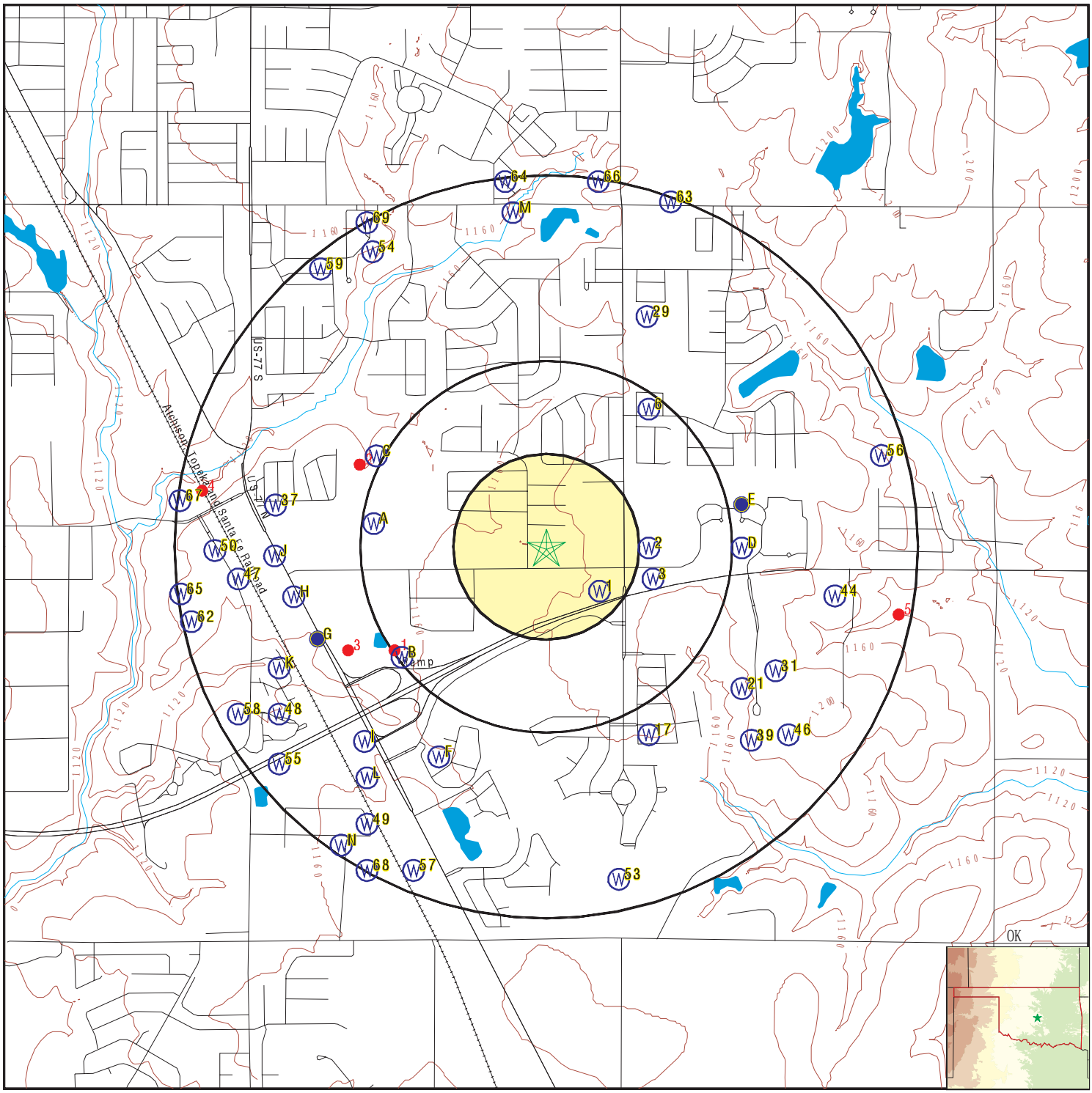
MAP ID	WELL ID	LOCATION FROM TP
1	OKOG20000049972	1/4 - 1/2 Mile SW
2	OKOG20000050788	1/2 - 1 Mile WNW
3	OKOG20000049619	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	OKOG20000013313	1/2 - 1 Mile West
5	OKOG20000012359	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 7236303.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Oil, gas or related wells

N

SITE NAME:	4.85 Acres Development Land	CLIENT:	RedbudEnv
ADDRESS:	E Imhoff Road Norman OK 73071	CONTACT:	Daphne Summers
		INQUIRY #:	7236303.2s
LAT/LONG:	35.190492 / 97.40956	DATE:	January 26, 2023 7:35 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OK Radon

Radon Test Results

Zipcode	Num Tests	# > 4 pCi/L	Maximum	Average
73071	20	0	2.3	1.1635

Federal EPA Radon Zone for CLEVELAND County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 73071

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.220 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Reported Well Locations in Oklahoma
Source: Oklahoma Water Resources Board
Telephone: 405-530-8800

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing
Source: Oklahoma Corporation Commission
Telephone: 405-521-3636
Oil and gas well locations in the state.

Oil and Gas Well Listing
Source: Osage Nation Environmental and Natural Resources
Telephone: 918-287-5333
Oil and gas well locations.

RADON

State Database: OK Radon
Source: Department of Environmental Quality
Telephone: 405-702-5100
Radon Information

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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USER QUESTIONNAIRE
ASTM E 1527 – 21 for
Imhoff Road Development Land Cleveland County Parcel ID: NC29 8 2W 4046

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPS)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the *user* must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. the user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiry" is not complete.

1. **Environmental cleanup liens that are filed or recorded against the Subject Property (40 CFR 312.25).**
   Did a search of land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the Subject Property under federal, tribal, state, or local law? (Note 1: in certain jurisdictions, federal, tribal, state, or local statutes or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases, judicial records shall be searched for environmental liens and AULs).
   _____Yes _____No If yes, please describe and provide records to the environmental professional

   Title Work is in progress, will update

2. **Activity and land use limitations (AULs) that are in place on the Subject Property or that have been filed or recorded against the Subject Property.**
   Did a search of land title records (or judicial records per Note 1 above) identify any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the Subject Property and/or have been filed or recorded against the Subject Property under federal, tribal, state, or local law?
   _____Yes _____No If yes, please describe and provide records to the environmental professional

   Title work in progress, will update

3. **Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28).**
   Do you have any specialized knowledge or experience related to the Subject Property or nearby properties? For example, are you in the same line of business as the current or former occupants of the Subject Property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business _____Yes ✓_____No If yes, please describe (use additional sheets as needed)

4. **Relationship of the purchase price to the fair market value of the Subject Property if it were not contaminated (40 CFR 312.29).**
   Does the purchase price being paid for the Subject Property reasonably reflect the fair market value of the property?
   ✓_____Yes _____No
   If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? _____Yes ✓_____No If yes, please describe (use additional sheets as needed)

5. **Commonly known or reasonably ascertainable information about the Subject Property (40 CFR 312.30).**
   Are you aware of commonly known or reasonably ascertainable information about the Subject Property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For Example,
   - Do you know the past uses of the Subject Property?
   - Do you know of specific chemicals that are present or once were present at the Subject Property?
   - Do you know of spills or other chemical releases that have taken place at the Subject Property?
   - Do you know of any environmental cleanups that have taken place at the Subject Property?
   - If you answered yes above, please describe. Use additional sheets as necessary.

   No

6. **The degree of obviousness of the presence of likely presence of contamination at the Subject Property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
   Based on your knowledge and experience related to the Subject Property, are there any obvious indicators that point to the presence of likely presence of releases to the Subject Property? _____Yes ✓_____No If yes, please describe (use additional sheets as needed)

Prepared by (Print and sign): Anthony Purinton

Date: 1/26/23

Exhibit 2: Sanborn No Coverage Letter, Topographic Maps, Aerial Photos, County Assessor Records, FEMA Firmette, Wetland Map, Soil Map, OCC Oil and Gas Well Search, Water Well Records

4.85 Acres Development Land

E Imhoff Road

Norman, OK 73071

Inquiry Number: 7236303.3

January 26, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

01/26/23

Site Name:	Client Name:
4.85 Acres Development Land	RedbudEnv
E Imhoff Road	3701 Buckingham Drive
Norman, OK 73071	Norman, OK 73072
EDR Inquiry # 7236303.3	Contact: Daphne Summers

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by RedbudEnv were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # E28C-45DF-A478

PO # NA

Project NA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: E28C-45DF-A478

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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4.85 Acres Development Land

E Imhoff Road

Norman, OK 73071

Inquiry Number: 7236303.4

January 26, 2023

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

01/26/23

Site Name:	Client Name:
4.85 Acres Development Land	RedbudEnv
E Imhoff Road	3701 Buckingham Drive
Norman, OK 73071	Norman, OK 73072
EDR Inquiry # 7236303.4	Contact: Daphne Summers

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by RedbudEnv were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: NA

Coordinates:

Latitude:	35.190492 35° 11' 26" North
Longitude:	-97.40956 -97° 24' 34" West
UTM Zone:	Zone 14 North
UTM X Meters:	644799.44
UTM Y Meters:	3895326.60
Elevation:	1170.00' above sea level

Maps Provided:

2018	1925
2016	1898
2012	1893
1995	
1983	
1975	
1951	
1936	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets

Norman
2018
7.5-minute, 24000

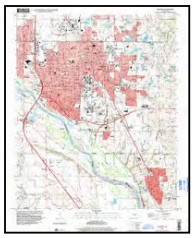
2016 Source Sheets

Norman
2016
7.5-minute, 24000

2012 Source Sheets

Norman
2012
7.5-minute, 24000

1995 Source Sheets

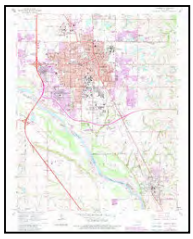


Norman
1995
7.5-minute, 24000
Aerial Photo Revised 1995

Topo Sheet Key

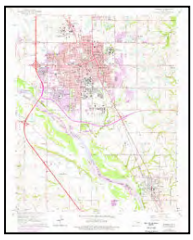
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1983 Source Sheets



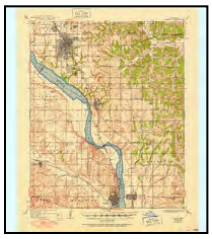
Norman
1983
7.5-minute, 24000
Aerial Photo Revised 1981

1975 Source Sheets



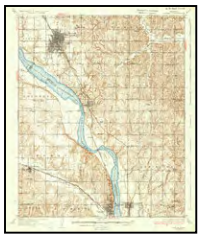
Norman
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1951 Source Sheets



Norman
1951
15-minute, 62500

1936 Source Sheets



Norman
1936
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1925 Source Sheets

Norman NO 2
1925
7.5-minute, 24000

1898 Source Sheets

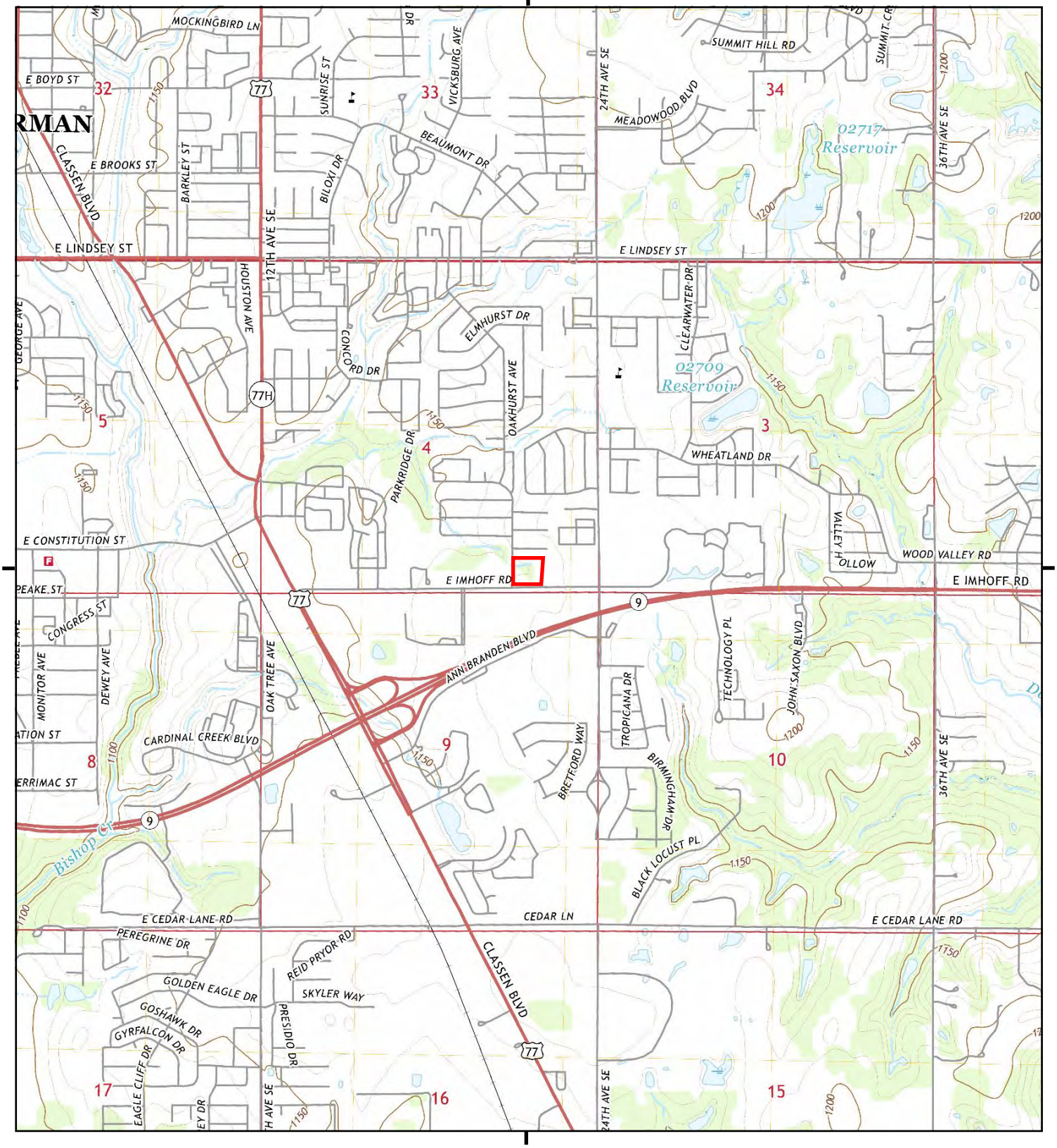
Purcell
1898
30-minute, 125000

1893 Source Sheets

Norman
1893
15-minute, 62500

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

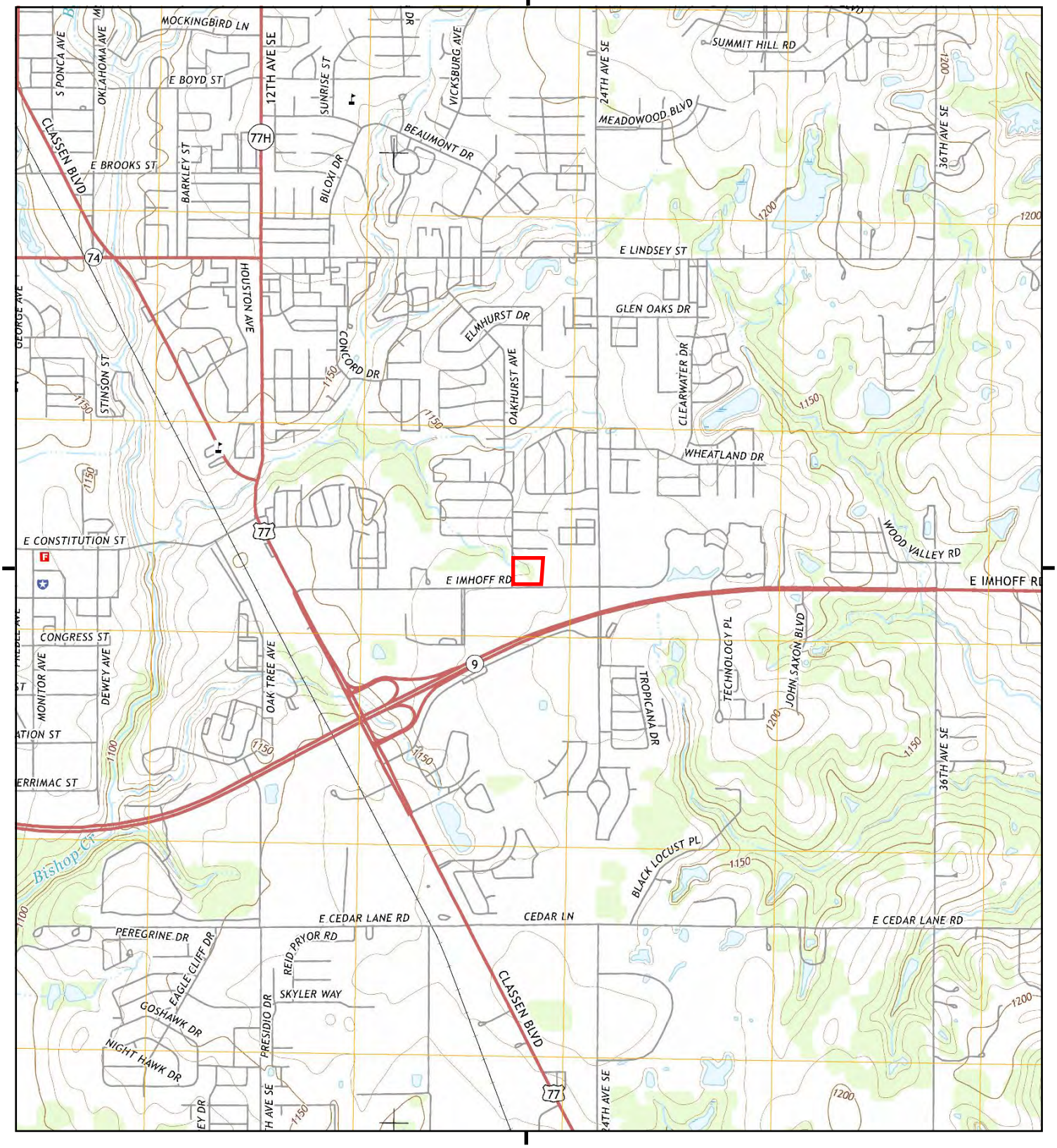
TP, Norman, 2018, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

2016



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NW N NE
W E
SW S SE

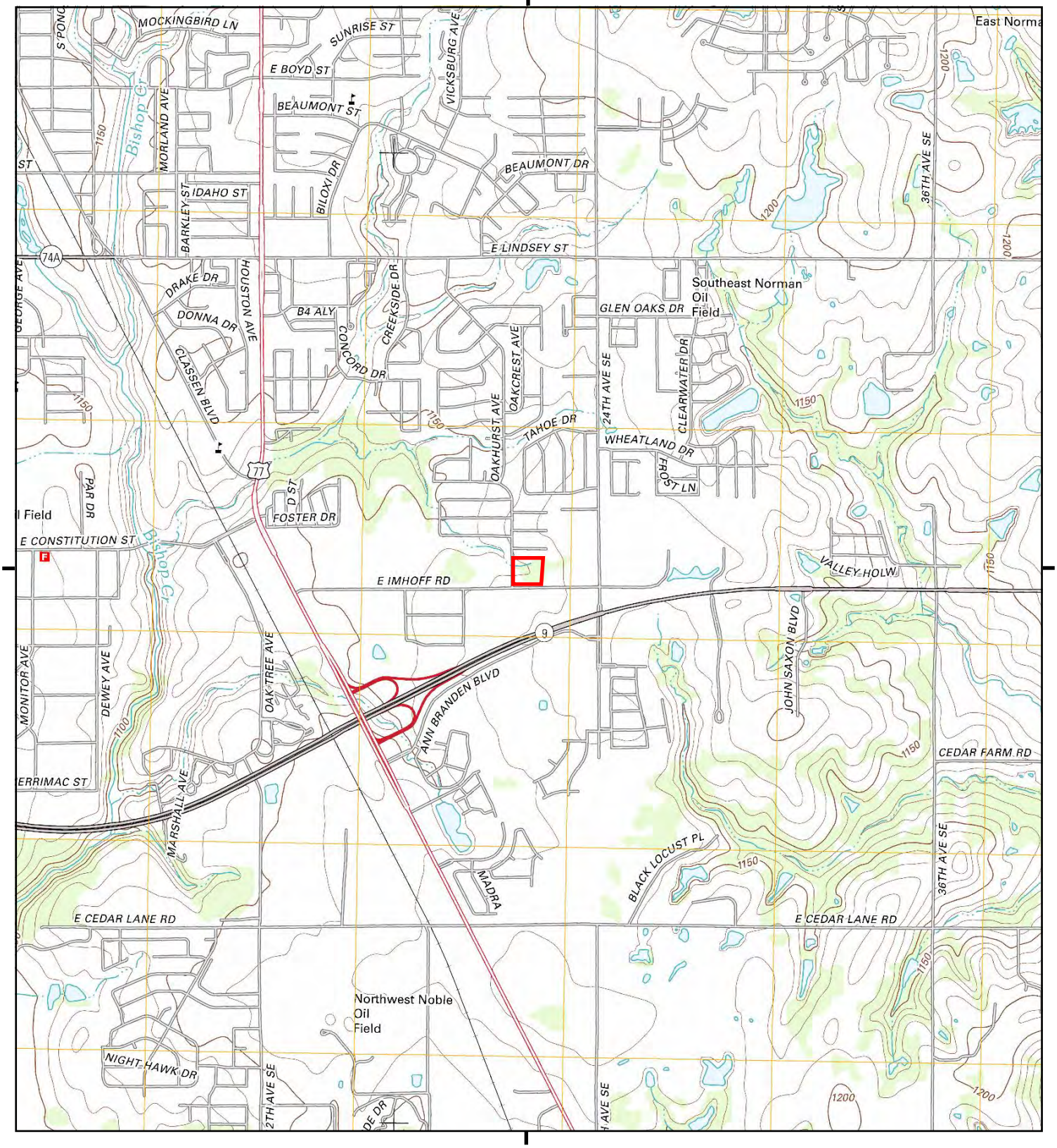
TP, Norman, 2016, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

2012



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NW N NE
W E
SW S SE

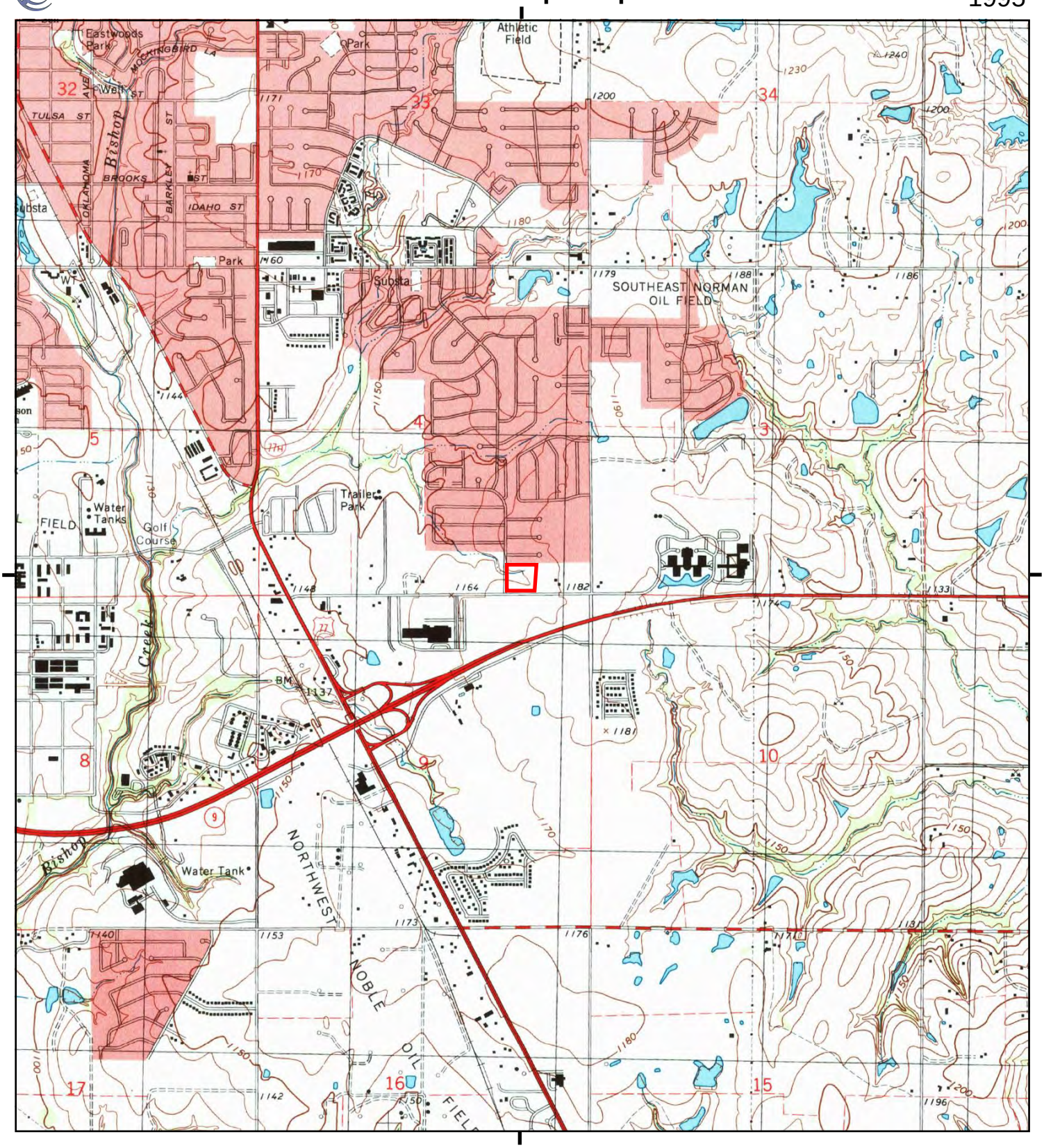
TP, Norman, 2012, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1995



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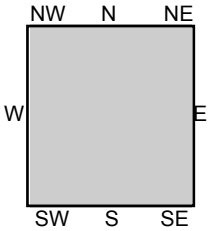


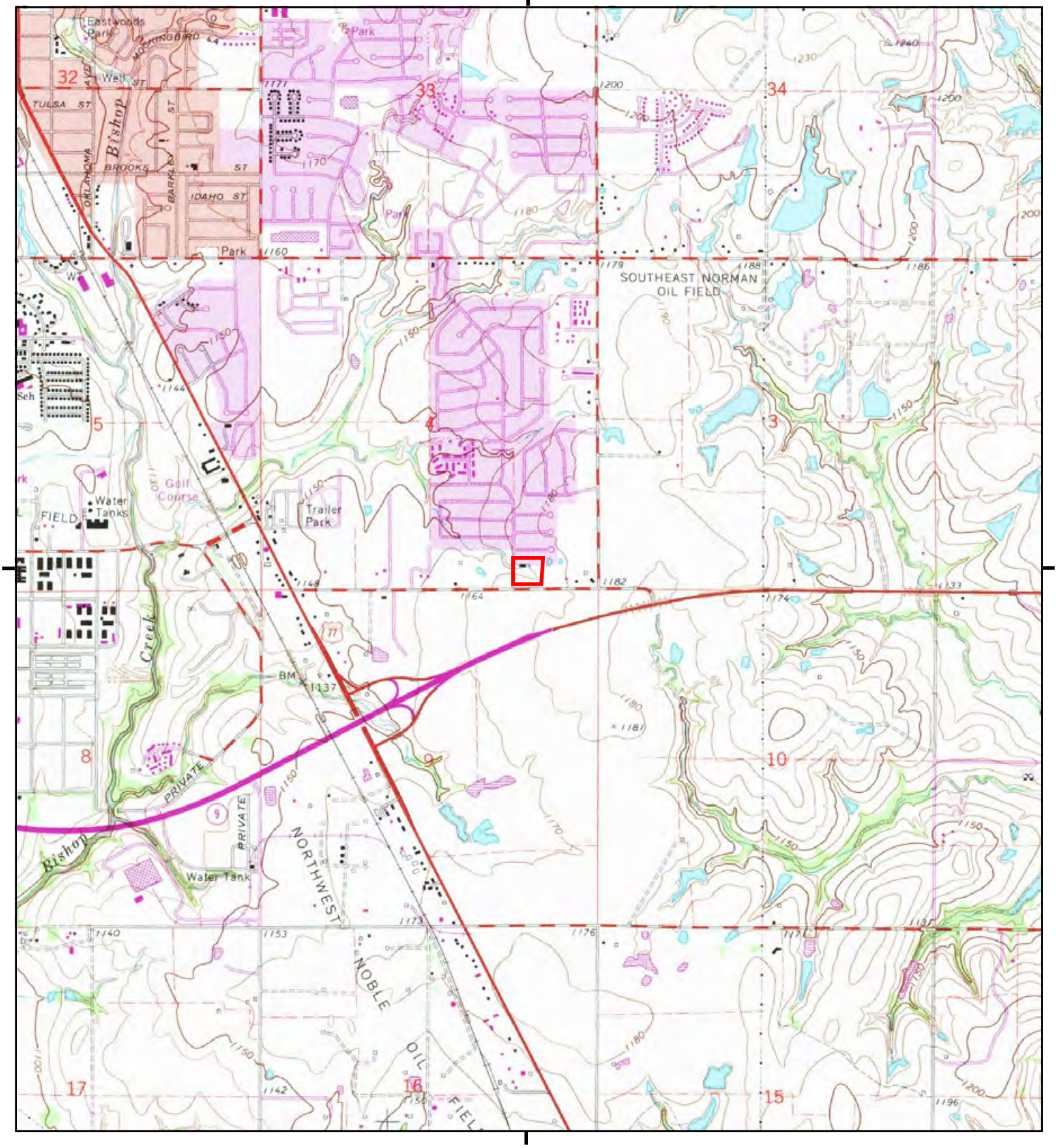
TP, Norman, 1995, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1983



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

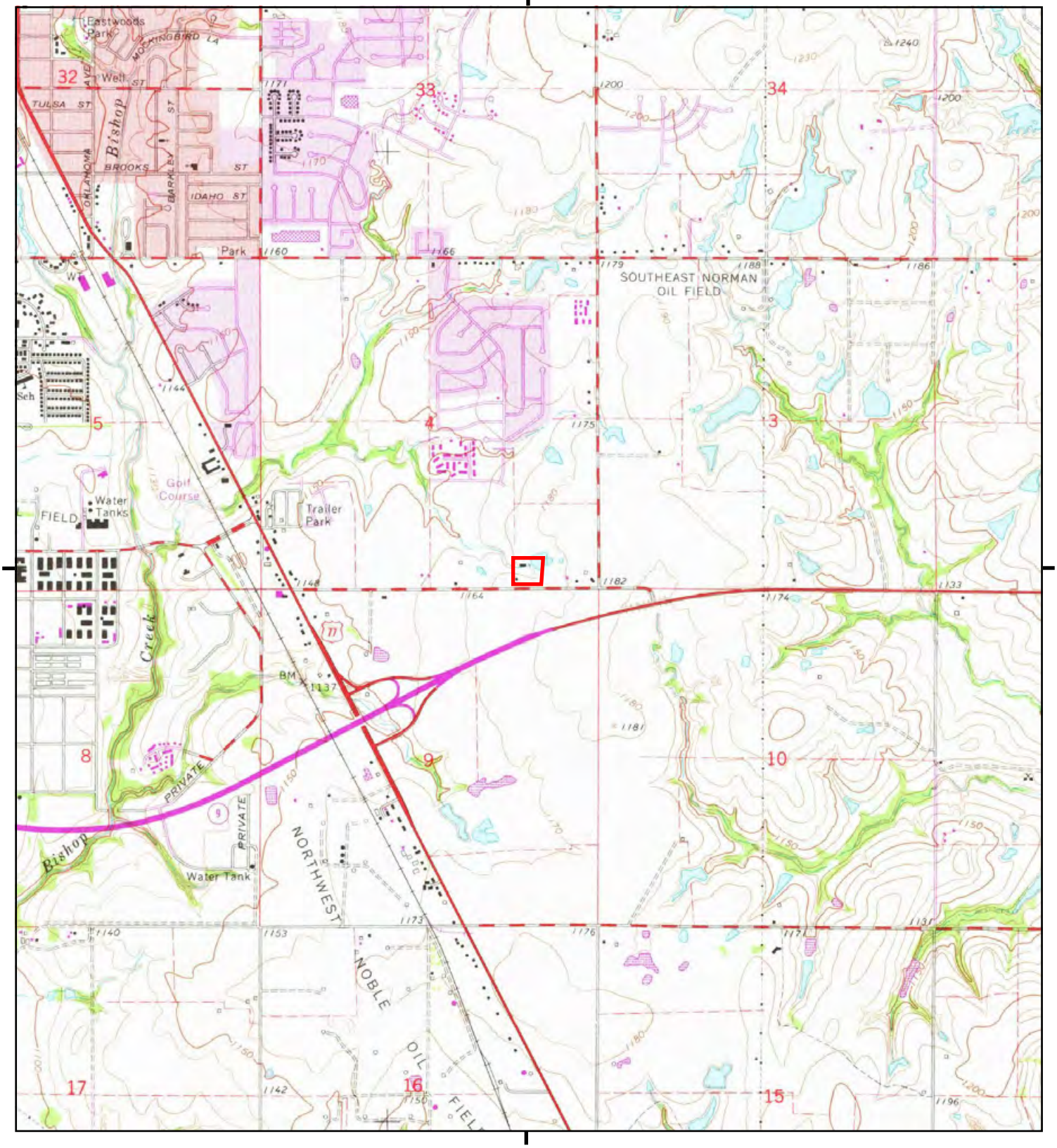
TP, Norman, 1983, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1975



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

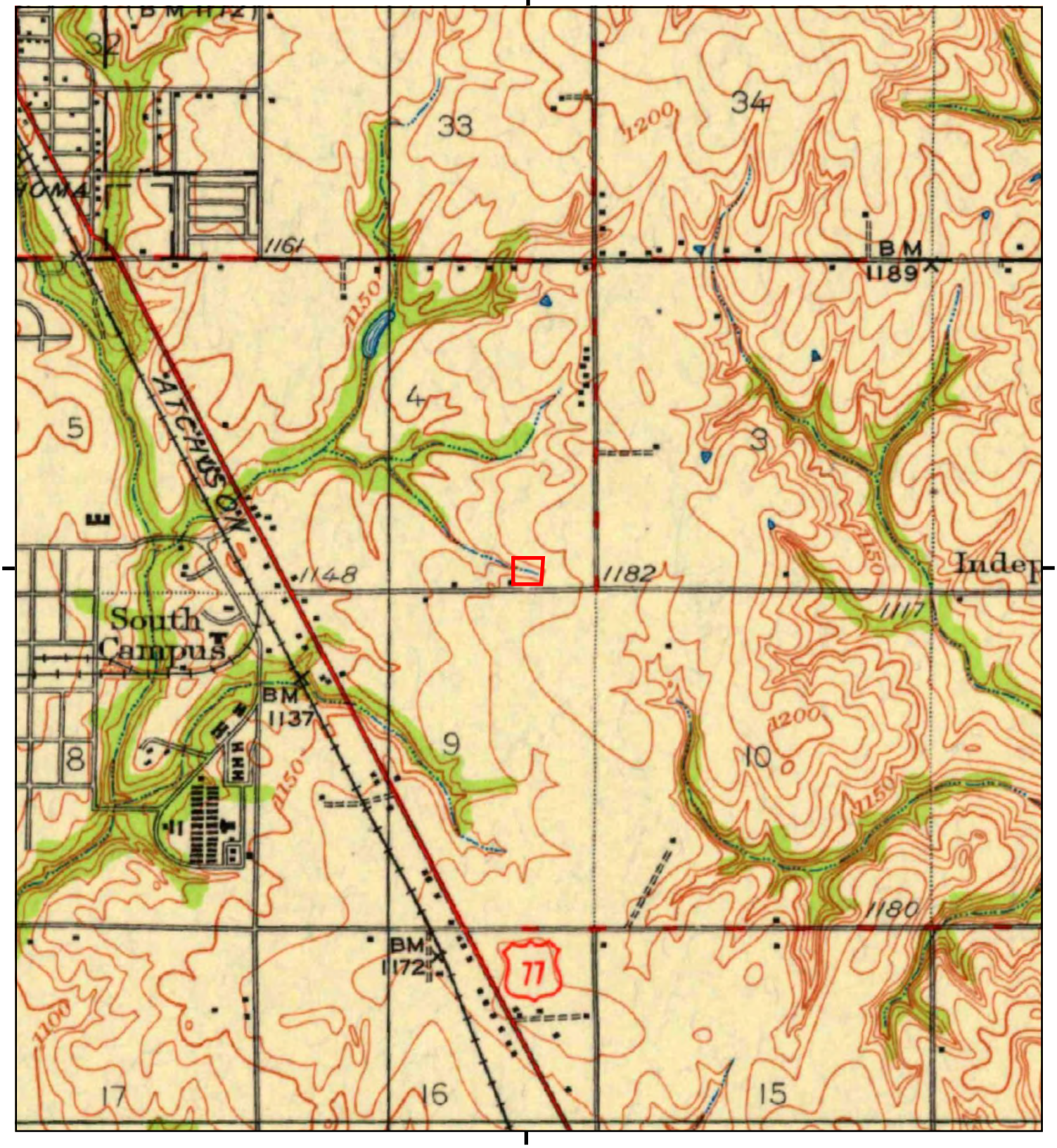
TP, Norman, 1975, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1951



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

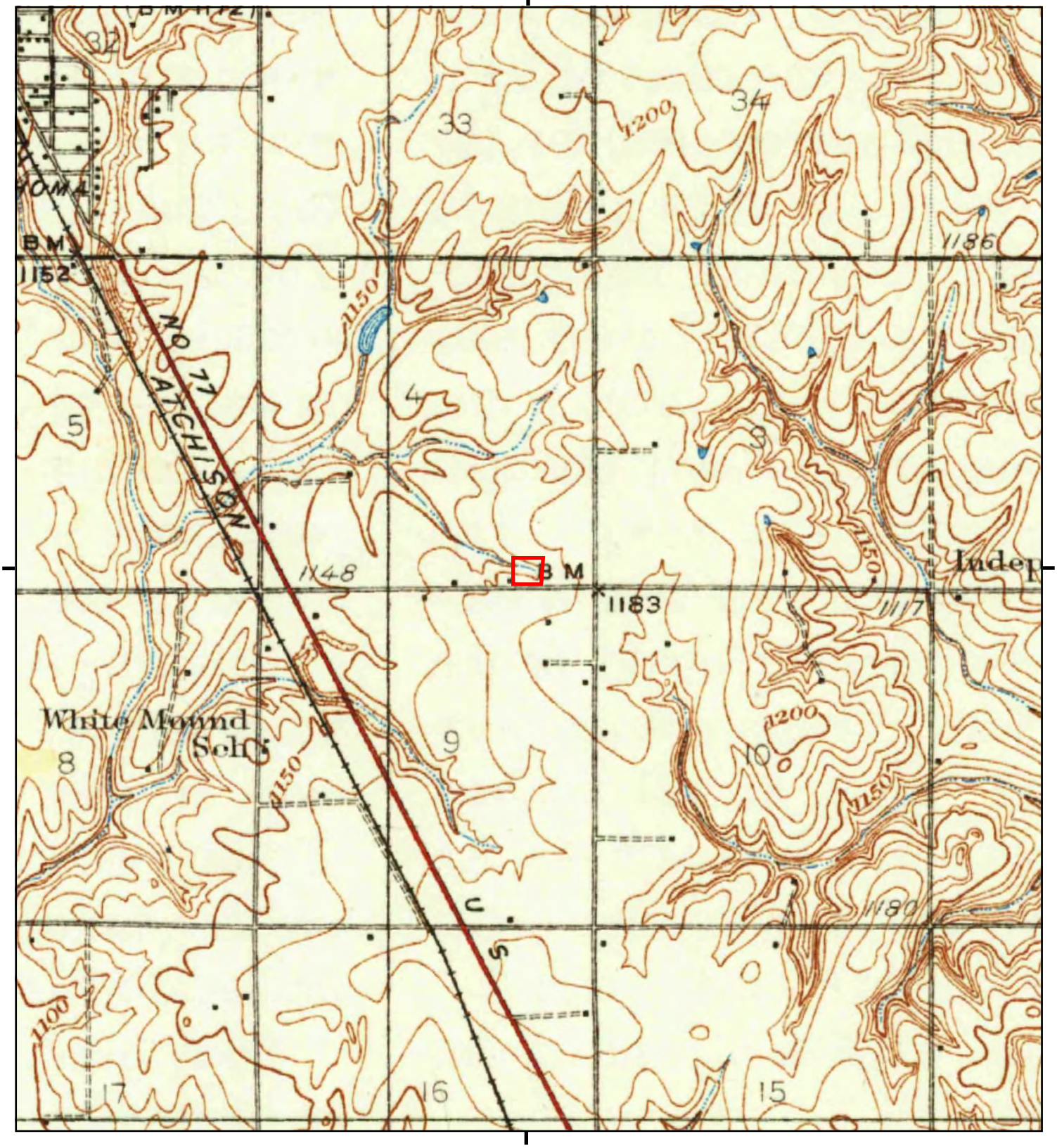
TP, Norman, 1951, 15-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1936



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

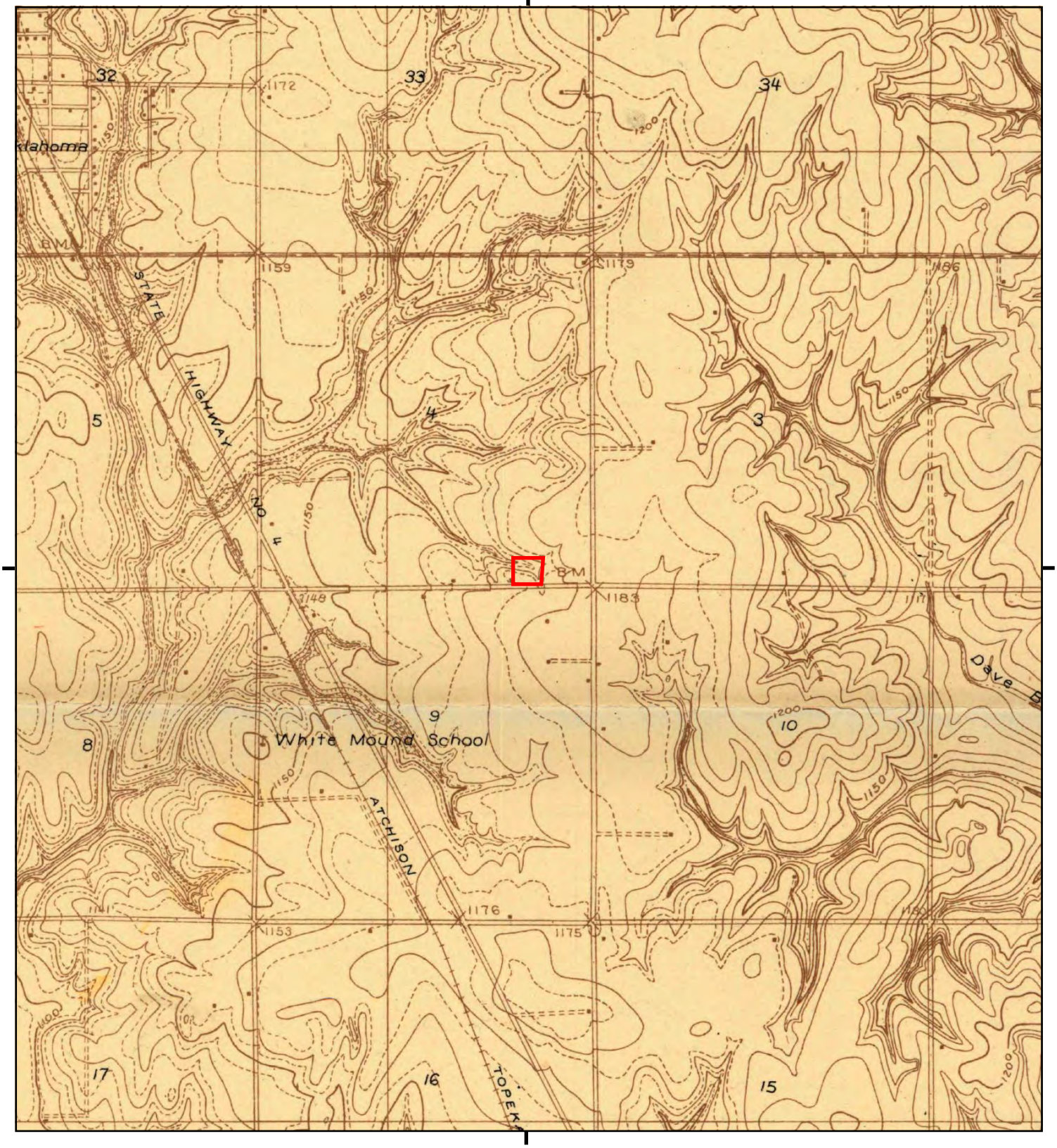
TP, Norman, 1936, 15-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1925



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

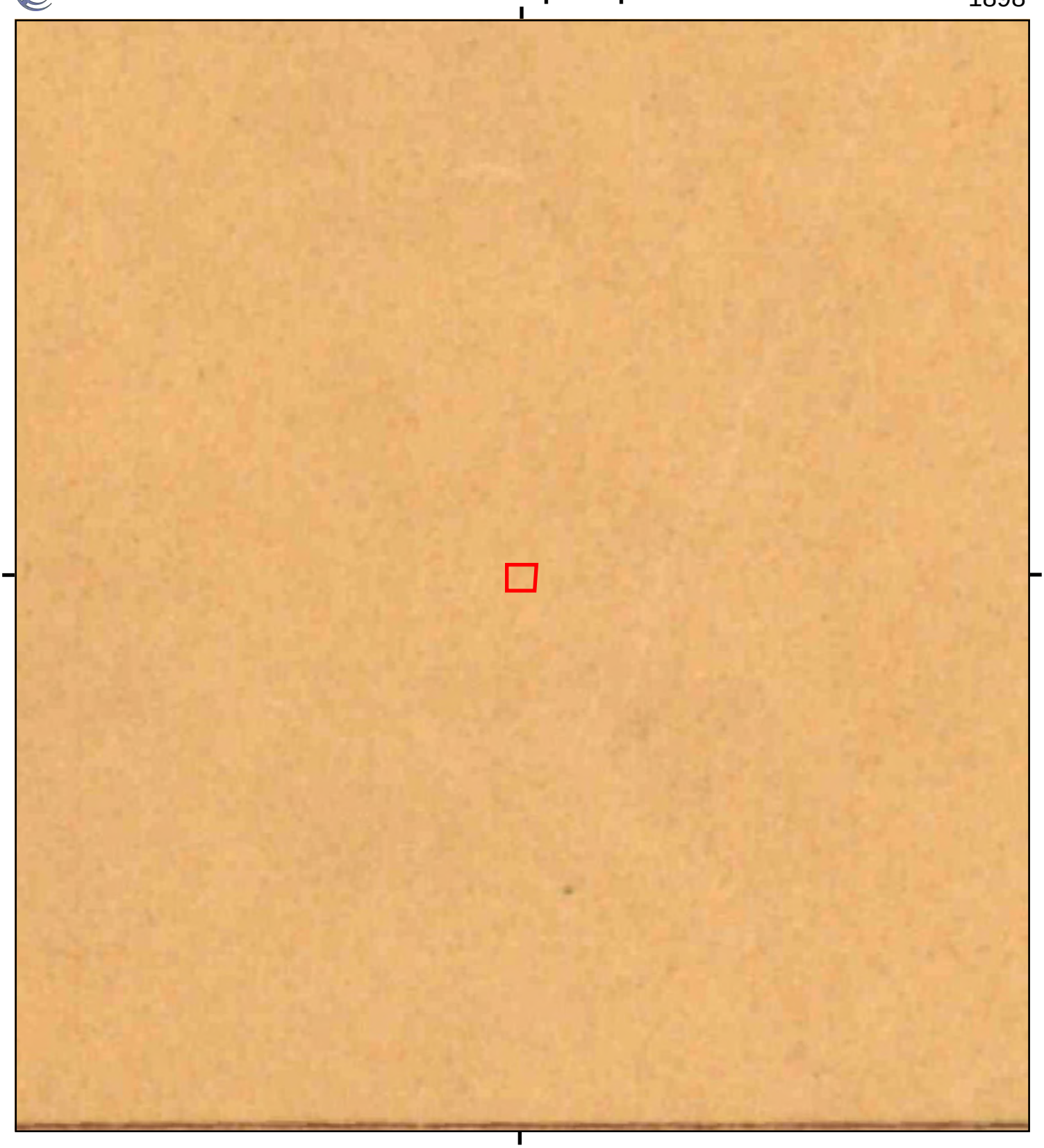
TP, Norman NO 2, 1925, 7.5-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

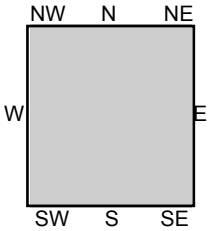
Historical Topo Map

1898



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



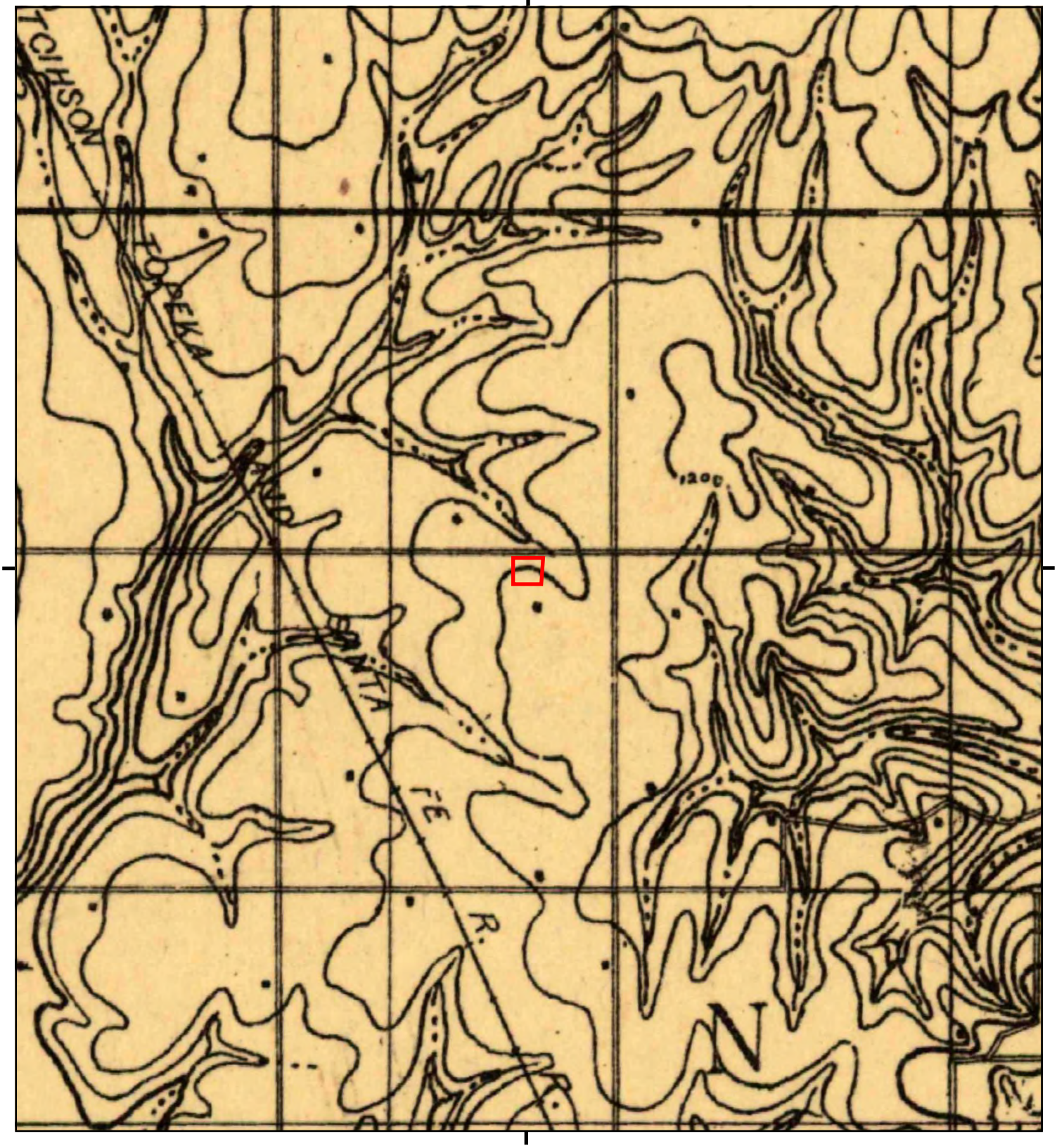
TP, Purcell, 1898, 30-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

Historical Topo Map

1893



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Norman, 1893, 15-minute

SITE NAME: 4.85 Acres Development Land
ADDRESS: E Imhoff Road
Norman, OK 73071
CLIENT: RedbudEnv

N

4.85 Acres Development Land

E Imhoff Road

Norman, OK 73071

Inquiry Number: 7236303.8

January 31, 2023

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

01/31/23

Site Name:

4.85 Acres Development Land
E Imhoff Road
Norman, OK 73071
EDR Inquiry # 7236303.8

Client Name:

RedbudEnv
3701 Buckingham Drive
Norman, OK 73072
Contact: Daphne Summers

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: February 20, 1995	USGS/DOQQ
1984	1"=500'	Flight Date: June 16, 1984	NHAP
1981	1"=500'	Flight Date: September 19, 1981	USGS
1975	1"=500'	Flight Date: January 03, 1975	USGS
1969	1"=500'	Flight Date: September 30, 1969	USGS
1962	1"=500'	Flight Date: January 29, 1962	USGS
1957	1"=500'	Flight Date: March 01, 1957	USGS
1955	1"=500'	Flight Date: January 06, 1955	USGS
1949	1"=500'	Flight Date: June 21, 1949	USDA
1937	1"=500'	Flight Date: August 29, 1937	USDA

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INQUIRY #: 7236303.8
YEAR: 2019
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 2015
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 1995
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 1984
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 1981
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7236303.8
YEAR: 1975
= 500'
N
EDR

INQUIRY #: 7236303.8

YEAR: 1969

= 500'

N

EDR

INQUIRY #: 7236303.8
YEAR: 1962
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 1957
= 500'
N
EDR

INQUIRY #: 7236303.8
YEAR: 1955
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7236303.8

YEAR: 1949

= 500'

N

EDR

INQUIRY #: 7236303.8
YEAR: 1937
= 500'
N
EDR

National Flood Hazard Layer FIRMette

FEMA

97°24'53"W 35°11'41"N

97°24'15"W 35°11'11"N

Feet 1:6,000

0 250 500 1,000 1,500 2,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/2/2023 at 5:03 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Map Scale: 1:1,120 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cleveland County, Oklahoma
Survey Area Data: Version 20, Sep 2, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 14, 2020—Nov 2, 2020

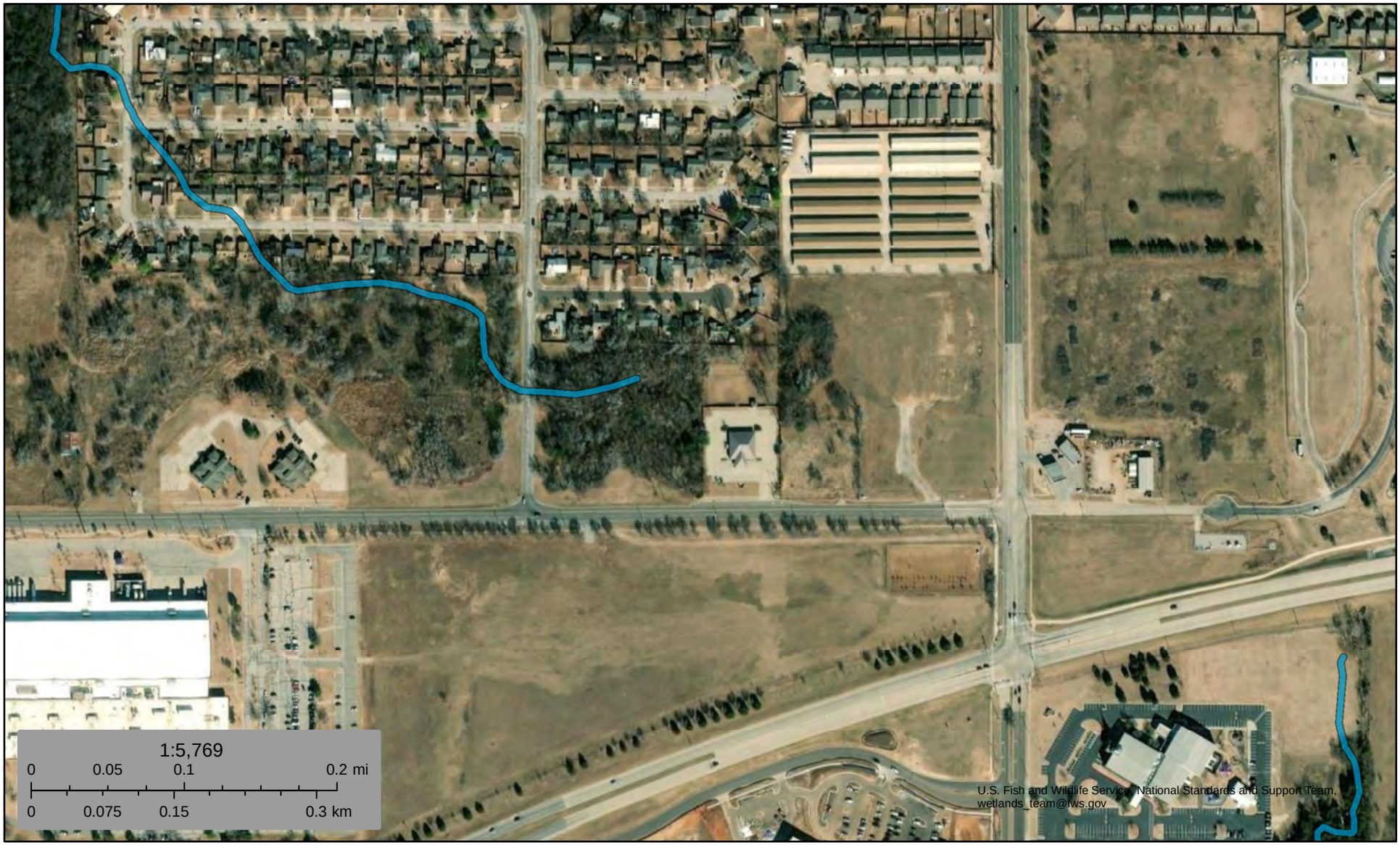
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Grainola-Ashport, frequently flooded, complex, 0 to 12 percent slopes	3.2	67.8%
53	Kirkland-Pawhuska complex, 0 to 3 percent slopes, eroded	0.6	11.7%
84	Grant-Huska complex, 1 to 5 percent slopes	1.0	20.5%
Totals for Area of Interest		**4.7**	**100.0%**

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



February 2, 2023

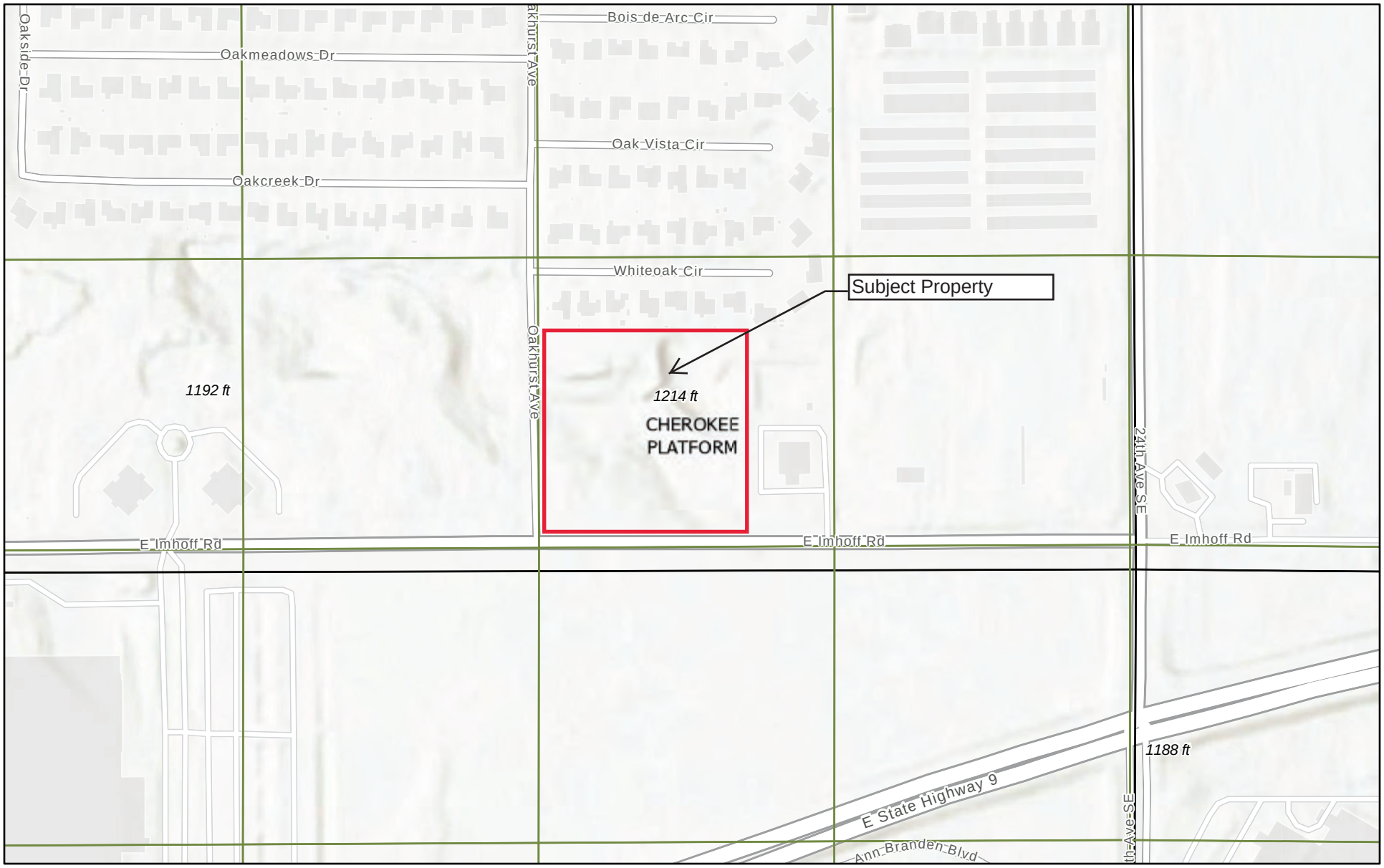
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

OCC WELL DATA FINDER MAP



2/10/2023, 3:27:37 PM

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

-

SEDIMENTARY_BASINS

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OCC ArcGIS

https://gisdata-deq.opendata.arcgis.com/ | Esri Community Maps Contributors, City of Norman, OK, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau,

Exhibit 3: Site Photographs taken February 6, 2023

Utility company staging on northwest end of Subject Property	Northern fence line on Subject Property looking west
Neighborhood adjacent to the north	Adjacent west under development
Adjacent south	Adjacent east

ArcGIS Web Map

2/13/2023, 11:19:23 AM

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

- Reported Well Logs
- Other Wells
- Monitoring Wells
- Groundwater Wells
- 10 Acre Grid
- Sections
- Townships
- County Boundaries
- State Boundary
- Municipal Boundaries

Esri Community Maps Contributors, City of Norman, OK, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph,

ArcGIS Web AppBuilder

OWRB, OGS | OWRB | Maxar | Esri Community Maps Contributors, City of Norman, OK, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA |

Waterwell

SHOW MAP ()

Map ID:	1	EDR ID:	OKWR10000006
Direction:	SE	EPA ID:	835
Distance (mi.):	0.187		-
Distance (ft.):	986		
Relative:	Higher		
Actual:	1181 FT ASL		

Record Id:	35122
Permit #:	19880509
Permit Record Type:	Permit
Water Code:	Groundwater
Entity Name:	Hitachi Computer Products, Inc
OWRB Permit Type:	Temporary
Primary Water Use Purpose:	Irrigation
Date Permit Application Filed:	2/18/1988
Date Permit Issued:	6/14/1988
Hydrologic Unit Code:	11090202
Stream System ID:	2062
Water Allocated to Permit:	60 acre-feet per year

MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

x							

«——— One Mile ———»
Each square is 10-acres

WELL ID NUMBER: 80765

Quarters SW-SW-SW **Section** 03 **Township** 08N **Range** 02WI

Latitude 35.190437 Longitude -97.404674

Date collected(latitude and longitude), if different from date the well was drilled: 11/10/2003
Method latitude and longitude was collected: Mathematical conversion program

County Cleveland Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner CITGO Phone _____
Address/City/State 2401 E IMHOFF NORMAN OK Zip ____
Finding Location ___
Well Name PIT WELL #1 Water Rights #: ___

TYPE OF WORK: Monitoring Well **USE OF WELL:** Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 10/24/2003
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
Hole Diameter 8.25 inches to a depth of 13 ft.

CASING INFORMATION ***Note:** If surface casing is used please indicate that on the appropriate well casing information line.
Surface Pipe Material: __ Surface Pipe Diameter __ inches Surface Pipe From __ ft to __ ft
1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 4 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted From 4 ft to 13 ft.

FILTER PACK INFORMATION

Filter Pack Material: Medium Sand

Filter Pack Interval: From 3 ft to 13

WELL SEAL INFORMATION

Type of Surface Seal Cement Grout

Type of Annular Seal n/a

Filter Pack Seal Material Bentonite Pellets

Surface Seal Interval: From 0 ft to 1.5 ft

Annular Seal Interval: From n/a ft to n/a ft

Filter Pack Seal Interval: From 1.5 ft to 3 ft

TYPE OF COMPLETION: Flush Mounted

HYDROLOGIC INFORMATION

Depth to water at time of drilling ___ ft

Estimated yield of well ___ gpm

First water zone ___ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED FROM (ft.)	ENCOUNTERED TO (ft.)	SATURATED
TAN SAND	0	10	N
RED CLAY	10	13	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? n/a

Are than any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/a

Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a

Total Depth of well being plugged __ ft.

Was the well contaminated or was it plugged as though it was contaminated? n/a

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a

Was the grout tremied? n/a

Backfilled with n/a

Backfilled from ___ ft. to ___ ft.

Grouted with n/a

Grouted from __ ft. to __ ft.

Grouted with Cement

Grouted from __ ft. to __ ft.

Firm Name Davis Environmental Drilling, L.L.C.

D/PC No. DPC-0197

Operator Name JOHN O. STREMLOW

OP No. OP-0981

Date 11/10/2003

Comments: n/a

Exhibit 4: Résumé and Insurance Certificate