MEMORANDUM

September 12, 2008

To: Lorraine Refinery PA File

From: Vanessa Peterson, Technical Intern

Re: Current Ownership of said property, Potentially Responsible Parties (PRP) search, and Site Reconnaissance

The Lorraine Refinery Site, as addressed under the given name by the Sanborn Insurance Map of 1923, is located on the northwest quarter of the northwest quarter of Section 29, Township 16 North, Range 9 East; and also the southwest corner of Section 20, Township 16 North, Range 9 East. The site has the coordinates of 35° 50' 33.37" latitude and 96° 23' 09.06" longitude, and the property lies north and west of the St. Louis and San Francisco Railroad right-of-way in Creek County, Oklahoma. The property contains 15.032 acres. The property is divided into a northern portion and southern portion by a county road (currently E0810 Road), and is bordered by the railroad to the east and south while Sand Creek boarders a portion of the property to the west. The site visits were conducted in April 2008, and July 2008.

According to the Sanborn Map, the southern portion of the property was the operational facility and some storage tanks, while the northern portion was primarily storage tanks. Currently, the First Assembly of God Church in Bristow owns the

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property, and according to the aerial maps, the church buildings and parking lot appear to be built in the area where the refinery buildings were located in the southern portion of the property. A house belonging to the pastor of the church is located on the southwestern portion of the property. Undeveloped property occupies the northern portion of the property, previously housing the storage tanks.

A search concerning the current ownership of a property formerly occupied by the Lorraine Refining Company located in NW corner of the NW corner of S29 T16N R9E and the SW corner of S20 T16N R9E in Creek County, Oklahoma was conducted by the Creek County Assessor's office whose records indicate that the site belongs to two owners, the First Assembly of God Church and Raymond and Carolyn Yoder.

A detailed title search in the County Clerk's Office indicated that one of the first owners of the site was Joe Abraham. Mr. Abraham sold the property to an industrial owner, the Bristow Oil and Refining Company, which purchased the property in May of 1915 (book 112, page 644). The property was then sold to the Continental Refining Company in September of 1916 (book 130, page 604). J. W. Woodford then received the company in November 1921 (book 271, page 388) and then the property was sold to the Lorraine Petroleum Company in July of 1923 (book 271, page 388). At some point, the Lorraine Petroleum Company became the Lorraine Refining Company. The Lorraine Refining Company then sold the property to Interocean Oil Company in October of 1925 (book 309, page 401). The property was then sold to the Producers Oil Company in February of 1929 (book 371, page 265). The Producers Oil Company then sold the

property to the H. F. Wilcox Oil and Gas Company in June of 1937 (book 402, page 432) as part of an expansion process for the Wilcox refinery. According to a report by the ODEQ in 1994, the Wilcox company area then totaled 110 acres, all of which was sold to Wendel Sandlin in November of 1963. After this, the property in question remained in private ownership, and is currently in possession by the First Assembly of God Church.

There are no schools or daycares located within 200 feet of the site. The church, located on the site, maintains three employees, 2 full-time. The Carolyn Inn hotel is located within ¼ mile of the site. The inn has 36 rooms while 2 adults and 2 children living there full-time. There are 31 residences located within ¼ mile of the site. Sand Creek boarders the west portion of the property. Sand Creek is a small perennial tributary of the Little Deep Fork Creek; it enters Little Deep Fork approximately 3.5 miles downstream of the probable point of entry (PPE). Drainage of the site is primarily to the west, into Sand Creek. During heavy rain, a small perennial stream forms which flows west through the property and eventually joins Sand Creek at the west edge of the property.

The site is a former refinery plant with approximately 25 storage tanks of various sizes, a cooling pond, and around 10 buildings housing refinery operations. All of the refinery buildings have been leveled and replaced with the buildings of the current church. All of the storage tanks have also been leveled. The approximate location of the tanks can be estimated using the Sanborn Maps and noting the location of barren spots of soil.

There were no releases to the air or water observed nor were any unusual odors detected during the on-site reconnaissance. The property was divided into two portions, a southern and a northern, by E0810 road. The reconnaissance of the southern portion revealed five barren areas of soil in, many containing spots of tarry waste. Dale Allen, a member of the First Assembly of God Church for over 20 years, stated that four inches of crude oil were discovered when a cap was broken off an existing pipeline. Mr. Allen also stated that a well dug in 1991 was capped in 1992 due to oil contamination of the water. Mr. Allen also testified that a hydrocarbon sheen on moisture in the ground is visible upon digging 2 to 3 feet. The church often discovers into concrete when digging, most likely due to foundations left over from the refinery. The wastes assumed to be associated with this type of facility include crude oil, tank residues, brine, acid and caustic sludges, heavy metals, petroleum products, coke, sulphur compounds, and solvents.

The northern portion of the property contains parts that are well vegetated with bushes, trees, and long grass. The probable refinery site is bordered by the railroad to the east, a road to the west, and a property fence to the north indicating the edge of the Yoder property. The Yoder house was the only building in current use located on the northern portion of the property. There are a number of old buildings located on the west-central portion, however these buildings are not in use and do not appear to have any relation to the refinery.

Although the area was well vegetated, under the vegetation contaminated looking soil is present that is black in color and has a tar like consistency. Also, copious barren spots with refinery remnants were present all throughout the northern portion of the property to the extent that their size could not be quantified. The barren spots primarily were made up of hard, black material of a hydrocarbon nature. In some locations, a black, tar like liquid was observed oozing through openings in the hard black spots. The Sanborn map indicates the former location the largest on the Lorraine Refinery, and its area is estimated by a large barren area surrounded by trees that is visible in aerial photos.

In the south-central region of the northern portion of the property there is a dike running west to east with a height of about 20 feet. The dike appears to be man-made; however it is of unknown origin. It does not appear to be related to the refinery, and its presence is not indicated on the Sanborn Map.

The general drainage pattern for the northern portion of the property is north to south. However, there are numerous low-lying depressions throughout the property that could collect surface water. At the time of reconnaissance, no intermittent streams were seen.

Attachments:

Sanborn Map

Aerial Photos

Creek County Assessor's Office Data

Figure 1. Aerial Photo Showing Important Site Locations

Church
Pastor Residence
Dike
Yoder Residence
Former Location of Largest Tank
Location of Multiple Tarry Spots
Old Buildings (not related to refinery)

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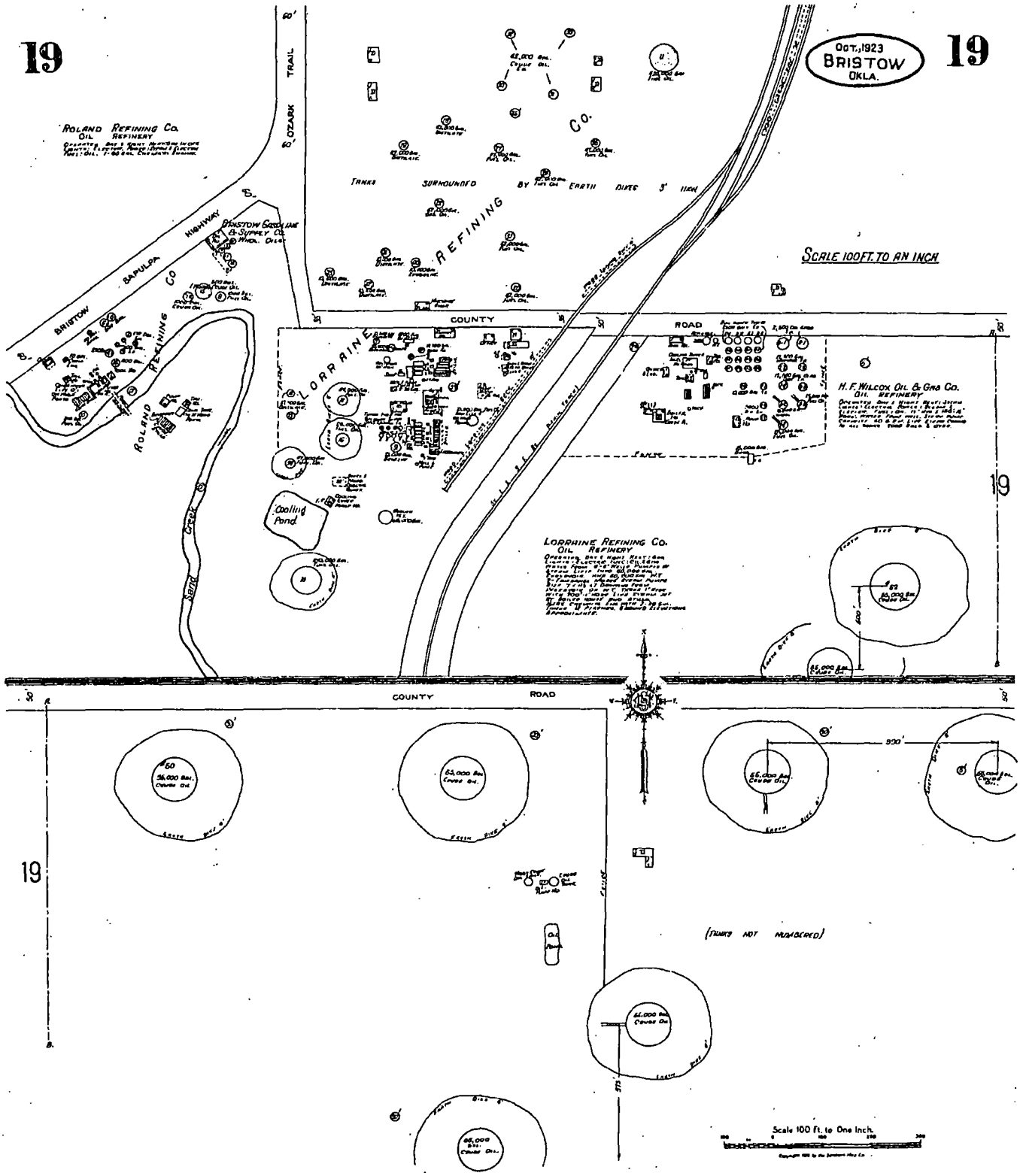
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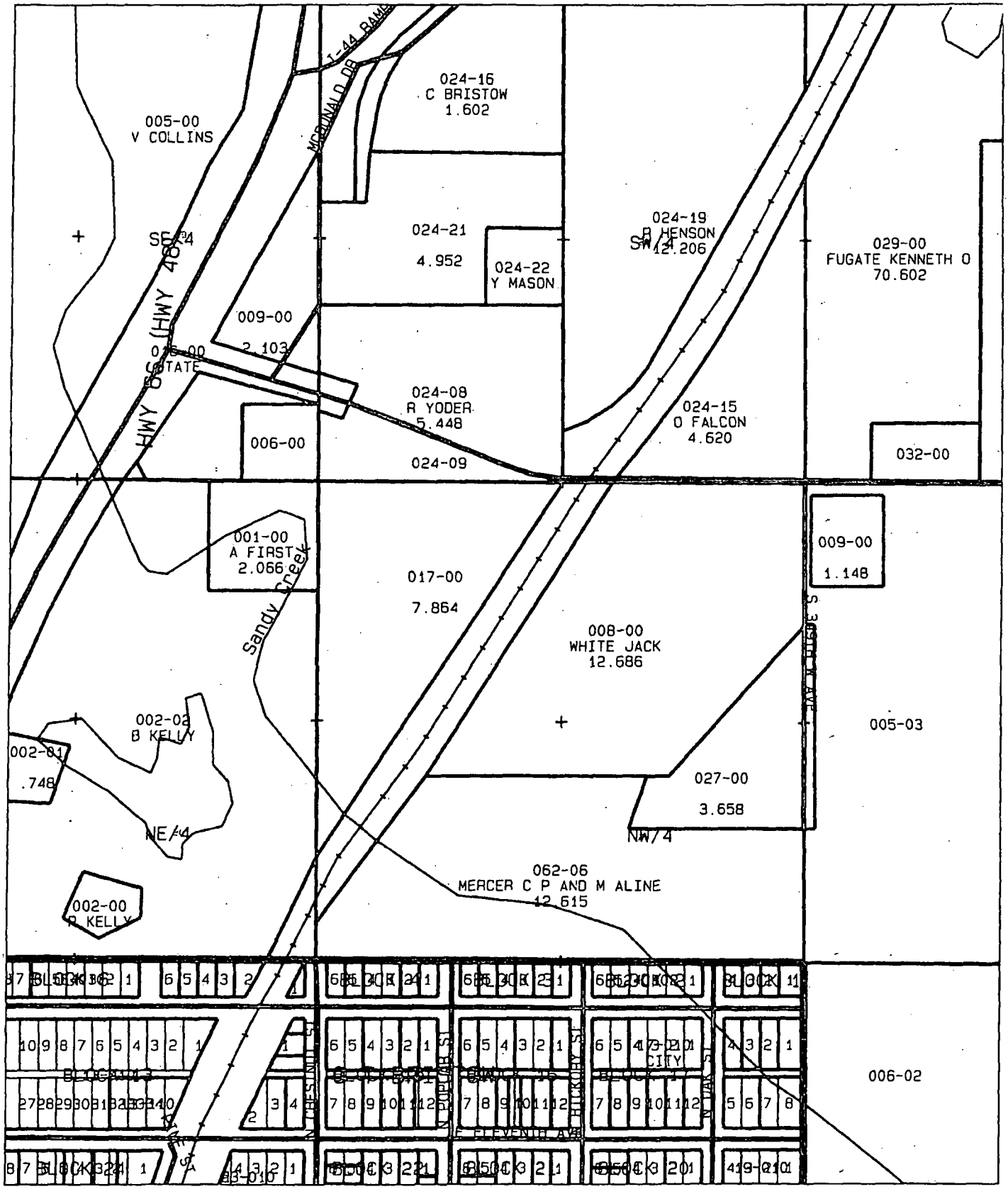
19
19
Oct., 1923
BRISTOW
OKLA.
ROLAND REFINING CO.
OIL REFINERY
60' OZARK TRAIL
BRISTOW BAPULPA HIGHWAY
BRISTOW GASOLINE & SUPPLY CO.
ROLAND REFINING CO.
REFINING CO.
TANKS SURROUNDED BY EARTH DIKES 3' HIGH
SCALE 100 FT. TO AN INCH
COUNTY ROAD
LORRAINE REFINING CO.
Cooling Pond
Sand Creek
H. F. WILCOX OIL & GAS CO.
OIL REFINERY
LORRAINE REFINING CO.
OIL REFINERY
COUNTY ROAD
900'
(TANKS NOT NUMBERED)
Scale 100 Ft. to One Inch.



Scale 1"= 340 ft

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