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REPORTS

DATE:

Aug. 26, 2009



August 26, 2009

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LUG 282009 Environmental Bureau Oil Conservation Division

Mr. Edward Hansen State of New Mexico – Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: OCD Remediation Project Nos. 1R-483, Elliott B-9 #1,4,&5 Tank Battery, Unit C (NE/4, NW/4), Section 9, T22S, R37E, and 1R-484, Elliott B-9 #2 & 3 Tank Battery Unit D (NW/4, NW/4), Section 9, T22S, R37E, Release Delineation Report, John H. Hendrix Corporation, Lea County, New Mexico

Dear Mr. Hansen:

This report is submitted to the State of New Mexico Oil Conservation Division on behalf of John H. Hendrix Corporation (JHHC) by Larson and Associates, Inc., its agent, and presents the results of remedial actions performed at the referenced sites. LAI and JHHC respectfully request a 180 day remediation design extension to negotiate groundwater extraction for remediation with the Office of the State Engineer (OSE), and to design remediation system consistent with OSE requirements.

This report combines the evaluation of two nearby sites since the data from each site separately does not plot well for graphics, and the physical characteristics of the site areas are very similar. However, remediation efforts will be treated separately.

If you have any questions or concerns, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

William D. Green, PG No. 136 Texas Licensed Professional Geologist wgreen@laenvironmental.com

Attachments

CC

Ms. Carolyn Haynes – JHHC Midland Mr. Larry Johnson – OCD District 1

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Environmental Bureau Oil Conservation Division

Release Delineation Report

1R-483 & 1R-484 Elliott B-9 #1, 4, &5 Tank Battery & Elliott B-9 #2 & 3 Tank Battery Unit C & D, Section 9, T22S, R37E Lea County, New Mexico

OCD Project Nos. 1R-483 & 1R-484

LAI Project Nos. 6-0104-02, -03

August 26, 2009

Prepared for: John H Hendrix Corporation 110 N Marienfeld, Suite 400 Midland, TX 79701-4461

Prepared by: William D. Green, PG No. 136 Texas Registered Professional Geologist

Larson & Associates, Inc. 507 North Marienfeld, Suite 200 Midland, Texas 79701

Release Delineation Report Britt B-9 Tank Batteries Section 9, T22S, R37E Lea County, New Mexico

August 26, 2009

Table of Content

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Executive Summary	1
Responsible Party Contact Information	
Release Information	
General Site Characteristics	
Geology	
Groundwater Investigation	
Remedial Options	
Conclusions	

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List of Tables

Table 1	Nonitor Well Completion and Gauging Summary
Table 2	Water Quality Parameter Summary

List of Figures

Figure 1	Topographic Map
Figure 2	Site Map
Figure 3	Groundwater Potentiometric Map
Figure 4	Chloride Concentration Map
Figure 5	TIDS Concentration Map
Figure 6	Geologic Cross Section

List of Appendices

Appendix A	Boring Logs
Appendix B	OCD Communications
Appendix C	Laboratory Reports

Release Delineation Report Britt B-9 Tank Batteries Section 9, T22S, R37E Lea County, New Mexico

August 26, 2009

Executive Summary

This report is submitted to the State of New Mexico Oil Conservation Division (OCD) on behalf of John H. Hendrix Corporation (JHHC) by Larson and Associates, Inc. (LAI), its agent, and presents the results of delineation at referenced leak sites. The report has been prepared based upon the *Guidelines for Remediation of Leaks, Spiils and Releases* (OCD, August 13, 1993), with a slight deviation.

Two site investigations are presented in this report since both locations are nearby (both sites are in the N/2 of the NW/4 of Section 9), are similar in contaminants of concern, and the three monitor wells associated with each site are near linear in placement, limiting the ability to determine groundwater gradient and chemical distribution for individual sites.

Responsible Party Contact Information

JHHC's contact for environmental concerns is:

Ms. Carolyn Haynes John H. Hendrix Corporation 110 N. Marienfeld, Suite 400 Midland, Texas 79701 Office – 432.684.6631, Cell – 575.390.9689 Email – <u>cdoranhaynes@jhhc.org</u>

Historic Information

Site releases were identified through the investigation of closed production pits. Both sites are located approximately 1.5 miles south of Eunice, New Mexico. Figure 1 presents the site locations plotted on a topographic map.

General Site Characteristics

The release locations are at latitude N 32° 24′ 44.63″, longitude W 103° 10′ 31.30″ for the #2&3 site, and N 32° 24′ 37.28″, W 103° 10′ 11.77″ for the #1,4,5 site (Figure 1). The surface estate is owned by Mr. Charlie Bettis and is used for oil and gas production and occasional livestock grazing.

The surface elevation is approximately 3,420 feet above mean sea level and slope gently east-southeast. The nearest surface water is more than two miles from either location. Surface soil is comprised of windblown sand with a vegetation cover of shin oak, sand burr grass, and yucca. No water wells were identified within 1,000 feet of either site using the Office of the State Engineer (OSE) Water Right Lookup database.

Several pipelines are either within the release investigation areas, or are adjacent to the points of release (Figures 2 and 3).

August 26, 2009

Geology

The Geologic Map of New Mexico (2003) and the Geologic Atlas of Texas, Hobbs Sheet indicate the vicinity's surface geology is comprised of Holocene to mid-Pleistocene age interlaid eolian and piedmont-slope deposits. This material covers the eastern flank of the Pecos River valley. These surficial deposits are primarily derived from reworking the underlying Tertiary-aged Ogallala Formation of the Southern High Plains, which are also comprised of alluvial and eolian deposits with petrocalcic soils. The Ogallala Formation is comprised of fluviatile sand, silt, clay and localized gravel, with indistinct to massive crossbeds. The Ogallala sand is generally fine- to medium-grained quartz, and is known to contain arsenic, barium and other heavy metals in an easily mobilized Van der Waals bonded surficial coating.

Monitor well boring logs indicate a general lithology of an unconsolidated veneer of eolian sand over an eight- to 20-foot thickness of carbonate-indurated sand (caliche). The caliche layer is most like the zone of illuviation where carbonate dust accumulates from surface transportation by meteoric water movement. Beneath the caliche layer is a thickness of fine-grained reddish-yellow quartz sand. Redbeds were not encountered at 90' bgs. Depth to groundwater is between 75 and 80 feet below ground surface (bgs), based on monitor wells data (Table 1).

Regional Structure

The site is located over the north-central portion of the Central Basin Platform, a large elevated block between the Delaware and Midland Basins of southeastern New Mexico and West Texas. Prior to late Mississippian time this region had only mild structural deformation, producing broad shallow depressions and regional arches. Tectonic events associated with the Marathon-Ouachita orogeny in the late Mississippian uplifted the platform and subsequent Pennsylvanian and early Permian deformation compressed and faulted the area. Deformation ceased in the early Permian, as evidenced by high angle faulting that ended during Wolfcampian-aged sedimentation, and the presence of younger strata draped over the preexisting structures. A period of tectonic quiescence followed, during which erosion and gradual subsidence took place. An expanding sea eventually covered the area, depositing several thousand feet of evaporites, carbonates, and shales.

During Triassic time the region underwent slow uplift and erosion followed by down-warping that created a large landlocked basin that was filled with sediments that accumulated in flood plain, deltaic and lacustrine environments. This was followed by another period of erosion during Jurassic time, and a final marine inundation by Cretaceous seas, resulting in the deposition of a basal clastic unit with overlying marine shales and carbonates.

The Laramide Orogeny (when Rocky Mountains were formed) uplifted the area west of the Permian Basin and the Cretaceous sea retreated to the south and east. There has been no significant faulting since Permian time; only gentle regional tilting with some local folding and small scale faulting. Hills (1970) postulated that later normal movement may have occurred by reactivation of existing faults, but that the movement was not sufficient to noticeably displace the overlying Permian strata. Hills (1970) further postulated that late movement along the faults may have created a conduit for fresh water for dissolution of Permian evaporate beds. The faults and fractures in the vicinity of the site do not appear to be active. Tension fractures being somewhat more open may be able to hold water longer and

Release Delineation Report Britt B-9 Tank Batteries Section 9, T22S, R37E Lea County, New Mexico

August 26, 2009

thereby account for the enhanced vegetation and development of erosional features such as playas along fractures. A magnitude 5 earthquake beneath the Drinkard Oilfield, approximately seven miles southeast of the facilities, demonstrates that the region is not totally without seismic activity.

Regional Stratigraphy

Regionally, the Precambrian basement is overlain by marine Cambro-Ordovician platform carbonates and Silurian-Devonian carbonates and shales. These sediments are truncated unconformably by Permian deposits consisting of marine shale, limestone, sandstone, marl, and evaporites. Permian age deposits are unconformably overlain by the Triassic Chinle Group. The Triassic Chinle Group is described as a series of fluvial and lacustrine mudstone, siltstone, sandstone, and silty dolomite strata. Cretaceous sediment strata were deposited as a shallow sea transgressed across the region, and unconformably overlie the Chinle Group. As the shallow sea regressed much of the Cretaceous section was eroded away prior to deposition of the overlying Tertiary Ogallala Formation. The depositional facies of the Ogallala Formation is a series of fluvial valley fills with both valley fills and interfluves overlain by eolian sediments. The Quaternary Blackwater Draw Formation, which overlies the Tertiary Ogallala Formation, consists of windblown sands, silts, and clays.

In the Eunice area, the Ogallala formation consists mainly of unconsolidated to poorly consolidated, very fine to medium-grained sand and gravel, with minor amount of silt and clay up to 30 feet thick under the site. Locally the "c" horizon of the modern soil is called the caprock caliche. The caprock is a hard, erosion resistant, pedogenic calcrete that is typically five to ten feet thick but may exceed 20 feet in some areas. In areas, the caliche is actually forming in, and incorporating, Holocene sediments, and often "Caprock" is a misnomer, as the caprock can be found as a deeper stratum in these areas. The upper-most unit, the Blackwater Draw Formation, consists of reddish brown, very fine to fine grained eolian sand with minor amounts of clay and caliche.

Groundwater Investigation

Prior reported investigation activities consist of the installation of two monitor wells at each location. MW-01s for both sites were installed on October 16, 2007 near the southeast (downgradient) corners of the release area. The results of these wells indicated impacted water quality with both sites exhibiting chloride and total dissolved solids (TDS) concentrations exceeding New Mexico Water Quality Control Commission Domestic Water Supply (DWS) standards. Hydrocarbons and targeted volatile organic compounds were not detected in either well. MW-02s were installed upgradient of both sites on December 3, 2007. Both of these wells had chloride and TDS values within the DWS standards. Copies of all boring logs associated with both locations are presented in Appendix A.

On June 29, 2009, LAI installed MW-03s in the downgradient direction, with locations concurred upon by the OCD (Appendix B). Again, both wells exhibited chloride and TDS values below DWS standards. Details of each site investigation are presented in the following sections.

Release Delineation Report Britt B-9 Tank Batteries Section 9, T22S, R37E Lea County, New Mexico

August 26, 2009

Elliott B-9 #1,4,5 Tank Battery

This is the east-most of the two facilities. The three monitor wells associated with this facility are in a nearly straight line following the apparent groundwater gradient based upon a combined site Surfer[®] plot (Figure 3). Gauging data on June 30, 2009 indicates a slight groundwater mound exists under MW-01. Groundwater elevation is between 3,345.26 feet (MW-03) and 3,346.30 feet (MW-01). Groundwater gradient direction is towards the east-southeast based upon the plot of the two facilities, but may be more southerly than the near linear monitor well configuration suggests. Groundwater gradient slope between the two facilities is approximately 0.00109 ft/ft.

Chloride and TDS concentrations exhibited during June 2009 were below DWS standards for MW-02 and MW-03, while MW-01 exhibited 660 milligrams/liter (mg/l, parts per million) and 1,840 mg/l, respectfully (Figures 4 & 5).

Elliot B-9 #2&3 Tank Battery

This is the western of the two facilities. The three monitor wells associated with this facility are in a "dog-leg" configuration (Figure 3). Gauging data on June 30, 2009 indicates generally laminar groundwater flow. Groundwater elevation is between 3,346.30 feet (MW-03) and 3,347.44 feet (MW-01). Groundwater gradient direction is towards the east-southeast with an onsite slope of approximately 0.0021 ft/ft.

Chloride and TDS concentrations exhibited during June 2009 were below DWS standards for MW-02 and MW-03, while MW-01 exhibited 4,500 mg/l and 7,790 mg/l, respectfully (Figures 4 & 5).

Remedial Options

In the Eunice, NM area, groundwater discharge rates are generally very low. Recovering five gallons per hour (gph) per well is often beyond well production capacity in this region. However, groundwater extraction is not the primary concern at this site.

A New Mexico OSE permit to extract groundwater requires the point of diversion be used for a beneficial purpose. Hindering the design of a remediation program is the fact that there is no viable beneficial use of extracted groundwater as there are no livestock or croplands in the vicinity of the sites. Extracting and disposing chloride-impacted groundwater to protect the remaining groundwater is not considered a beneficial use.

JHHC intend to include all site monitor wells in the quarterly sampling plan, with the next event tentatively scheduled for October 2009. The acquisition of added data will assist in the design and implementation of an effective remediation effort.

LAI and JHHC respectfully request a 180 day extension to negotiate groundwater extraction for remediation with the Office of the State Engineer, and to design remediation system consistent with OSE requirements.

August 26, 2009

Conclusions

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- Groundwater gradient slope between the two facilities is towards the east-southeast at approximately 0.00109 ft/ft.
- Elliott B-9 #1,4,5 Tank Battery has chloride and TDS concentrations exceeding DWS values in MW-01, 660 mg/l and 1,840 mg/l, respectfully. MW-02 (upgradient) and MW-03 (downgradient) are within DWS values.
- Elliot B-9 #2&3 Tank Battery has chloride and TDS concentrations exceeding DWS values in MW-01, 4,500 mg/l and 7,790 mg/l, respectfully. MW-02 (upgradient) and MW-03 (downgradient) are within DWS values.

Table 1 Monitor Well Completion and Gauging Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #1, #4 and #5 (1R0483) Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East Last County, New Mexico

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Well Information	tion							Groundwater Data	Data			
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation Date Gauged	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
MW-1	10/16/2007	90	2	3,424.90	67.03 - 86.34	2.29	3,427.19	10/16/2007	90.27		15.17	3,349.22
								4/7/2008		1	81.08	3,346.11
								9/4/2008		ł	78.35	3,348.84
								6/3/2009		1	80.90	3,346.29
								6/30/2009		ł	80.89	3,346.30
MW-2	12/3/2007	91	2	3,423.50	70.50 - 89.81	3.06	3,426.56	12/4/2007	92.84	1	78.79	3,347.77
					·			4/7/2008		;	81.10	3,345.46
								9/4/2008		1	78.63	3,347.93
								6/3/2009		;	80.87	3,345.69
								6/30/2009		I	80.81	3,345.75
MW-3	6/29/2009	89	2	3,424.40	69 - 89	3.14	3,427.54	6/30/2009	92.28	1	82.28	3,345.26

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 threaded PVC casing and screen.

Table 1

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Monitor Well Completion and Gauging Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #2 and #3 (1R0484) Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico

Well Information	tion							Groundwater Data	Data			
Well ID	Date Drilled	Date Drilled Depth (bgs)	Well Diameter (inches)	Surface [.] Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
îvîW-1	10/16/2007	0 <u>6</u>	Ž	3,425.80	66.13 - 85.07	2.61	3,428.41	10/16/2007	85.00		79.44	3,348.97
				_				4/7/2008		I	82.13	3,346.28
				_	·			9/4/2008		I	82.11	3,346.30
				_				6/3/2009		1	81.94	3,346.47
				_				6/30/2009		ł	81.97	3,346.44
				_								
MW-2	12/3/2007	06	2	3,425.40	66.13 - 85.44	2.59	3,427.99	12/4/2007	86.07	1	79.48	3,348.51
				_				4/7/2008		1	80.75	3,347.24
				_				9/4/2008		I	80.73	3,347.26
				_				6/3/2009		1	80.57	3,347.42
				_				6/30/2009		ł	80.55	3,347.44
				_								
MW-3	6/29/2009	86	2	3,424.70	66 - 86	2.34	3,427.04	6/30/2009	89.93	1	80.74	3,346.30

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 screw-threaded PVC casing and screen.

Table 2 Water Quality Parameters Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #1, #4 and #5 (1R0483) Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC S	tandard (mg/L)		250	10	600	1000
MW-01	10/16/2007	215	1710	1.83	223	3,300
	4/8/2008	200	2070		214	3,980
	9/4/2008	320	936		141	2,240
	6/3/2009	278	660		130	1,840
MW-02	10/16/2007	204	57		88	542
	4/8/2008	240	61.7		87.2	535
	9/4/2008	260	33.3		68.1	438
	6/3/2009	288	56		79.0	492
MW-03	6/30/2009		188			875

Notes

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Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Table 2 Water Quality Parameters Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #2 and #3 (1R0484) Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC S	tandard (mg/L)		250	10	600	1,000
MW-01	10/16/2007	271	3,500	9.87	243	6,610
	4/8/2008	273	4,410		226	7,980
	9/4/2008	340	3,400		177	6,440
	6/3/2009	342	4,500		202	7,790
MW-02	10/16/2007	188	222		205	973
	4/8/2008	210	229		203	920
	9/4/2008	280	194		173	856
	6/3/2009	259	204		188	892
MW-03	6/30/2009		100			622

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Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico Monitor Well Completion and Gauging Summary Elliott B-9 Tank Battery #1, #4 and #5 (1R0483) John H. Hendrix Corporation

Well Information	tion							Groundwater Data	Data			
Well ID	Date Drilled	Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation Date Gauged	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
1-WM	10/16/2007	90	۲۷	3,424.90	67.03 - 86.34	2.29	3,427.19	10/16/2007	90.27		16.77	3,349.22
								4/7/2008		1	81.08	3,346.11
		_						9/4/2008		1	78.35	3,348.84
								6/3/2009		1	80.90	3,346.29
								6/30/2009		ł	80.89	3,346.30
MW-2	12/3/2007	91	2	3,423.50	70.50 - 89.81	3.06	3,426.56	12/4/2007	92.84	1	78.79	3,347.77
		_						4/7/2008		1	81.10	3,345.46
								9/4/2008		1	78.63	3,347.93
								6/3/2009		1	80.87	3,345.69
								6/30/2009		I	80.81	3,345.75
MW-3	6/29/2009	89	5	3,424.40	69 - 89	3.14	3,427.54	6/30/2009	92.28	l	82.28	3,345.26

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 threaded PVC casing and screen.

Table 1

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Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico Monitor Well Completion and Gauging Summary Elliott B-9 Tank Battery #2 and #3 (1R0484) John H. Hendrix Corporation

Well Information	tion							Groundwater Data	Data			
Well ID	Date Drilled	Date Drilled Depth (bgs)	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Well Depth from TOC	Depth to Fluid	Depth to Water	Corrected Water Elevation
Ĩ.ŴĨŴ	10/16/2007	06	2	3,425.80	66.13 - 85.07	2.61	3,428.41	10/16/2007	85.00	1	79.44	3,348.97
								4/7/2008		;	82.13	3,346.28
								9/4/2008		;	82.11	3,346.30
								6/3/2009		:	81.94	3,346.47
								6/30/2009		ł	81.97	3,346.44
MW-2	12/3/2007	06	2	3,425.40	66.13 - 85.44	2.59	3,427.99	12/4/2007	86.07	1	79.48	3,348.51
								4/7/2008		1	80.75	3,347.24
								9/4/2008		1	80.73	3,347.26
								6/3/2009		ł	80.57	3,347.42
								6/30/2009		ł	80.55	3,347.44
MW-3	6/29/2009	86	2	3,424.70	66 - 86	2.34	3,427.04	6/30/2009	89.93	ł	80.74	3,346.30
A1 - +												

Notes

bgs - below ground surface

TOC - top of casing

Wells drilled and constructed by Scarborough Drilling, Inc., Lamesa, Texas, Schedule 40 screw-threaded PVC casing and screen.

Table 1

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Table 2 Water Quality Parameters Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #1, #4 and #5 (1R0483) Unit C (NE/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC S	tandard (mg/L)		250	10	600	1000
MW-01	10/16/2007	215	1710	1.83	223	3,300
	4/8/2008	200	2070		214	3,980
	9/4/2008	320	936		141	2,240
	6/3/2009	278	660		130	1,840
MW-02	10/16/2007	204	57		88	542
	4/8/2008	240	61.7		87.2	535
	9/4/2008	260	33.3		68.1	438
	6/3/2009	288	56		79.0	492
MW-03	6/30/2009		188			875

Notes

Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

Table 2 Water Quality Parameters Summary John H. Hendrix Corporation Elliott B-9 Tank Battery #2 and #3 (1R0484) Unit D (NW/4,NW/4), Section 9, Township 22 South, Range 37 East Lea County, New Mexico

Water Quality	Collection Date	Alkalinity, Total	Chloride	Nitrate	Sulfate	Total Dissolved Solids
NMWQCC S	tandard (mg/L)		250	10	600	1,000
MW-01	10/16/2007	271	3,500	9.87	243	6,610
	4/8/2008	273	4,410		226	7,980
	9/4/2008	340	3,400		177	6,440
	6/3/2009	342	4,500		202	7,790
MW-02	10/16/2007	188	222		205	973
	4/8/2008	210	229		203	920
	9/4/2008	280	194		173	856
	6/3/2009	259	204		188	892
MW-03	6/30/2009		100			622

Notes

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Alkalinity analyzed via EPA Method 310.1.

Anions analyzed via EPA Method 300.

TDS analyzed via EPA Method 160.1.

All values reported in Milligrams per liter (mg/L, parts per million).

< - Indicates the value is less than Method Detection Limit (MDL).

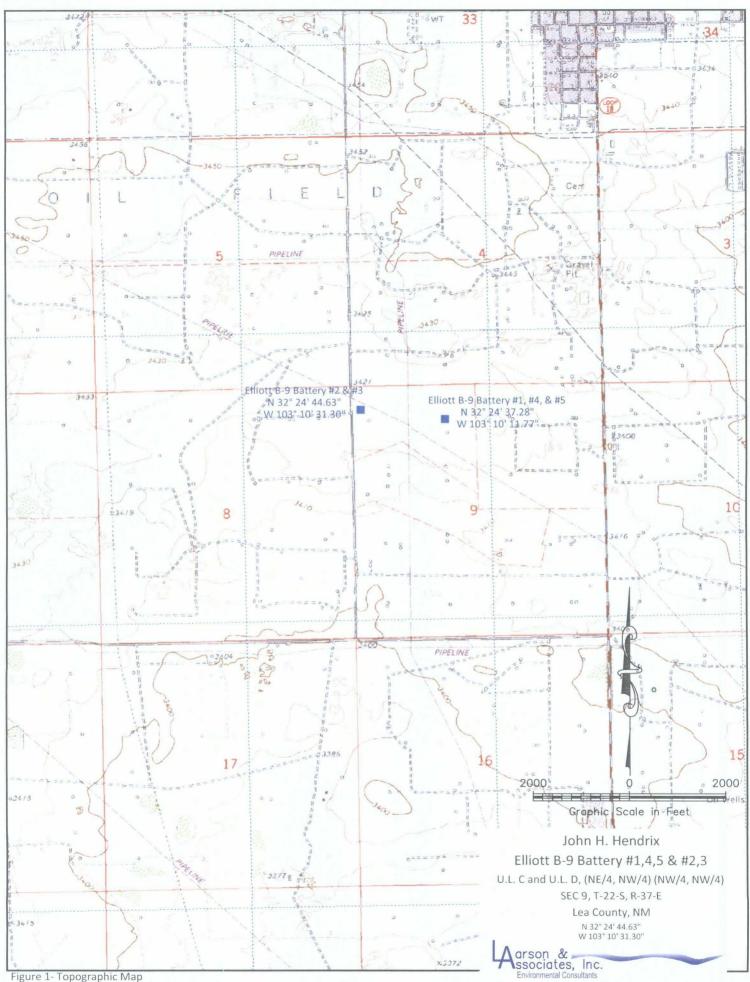
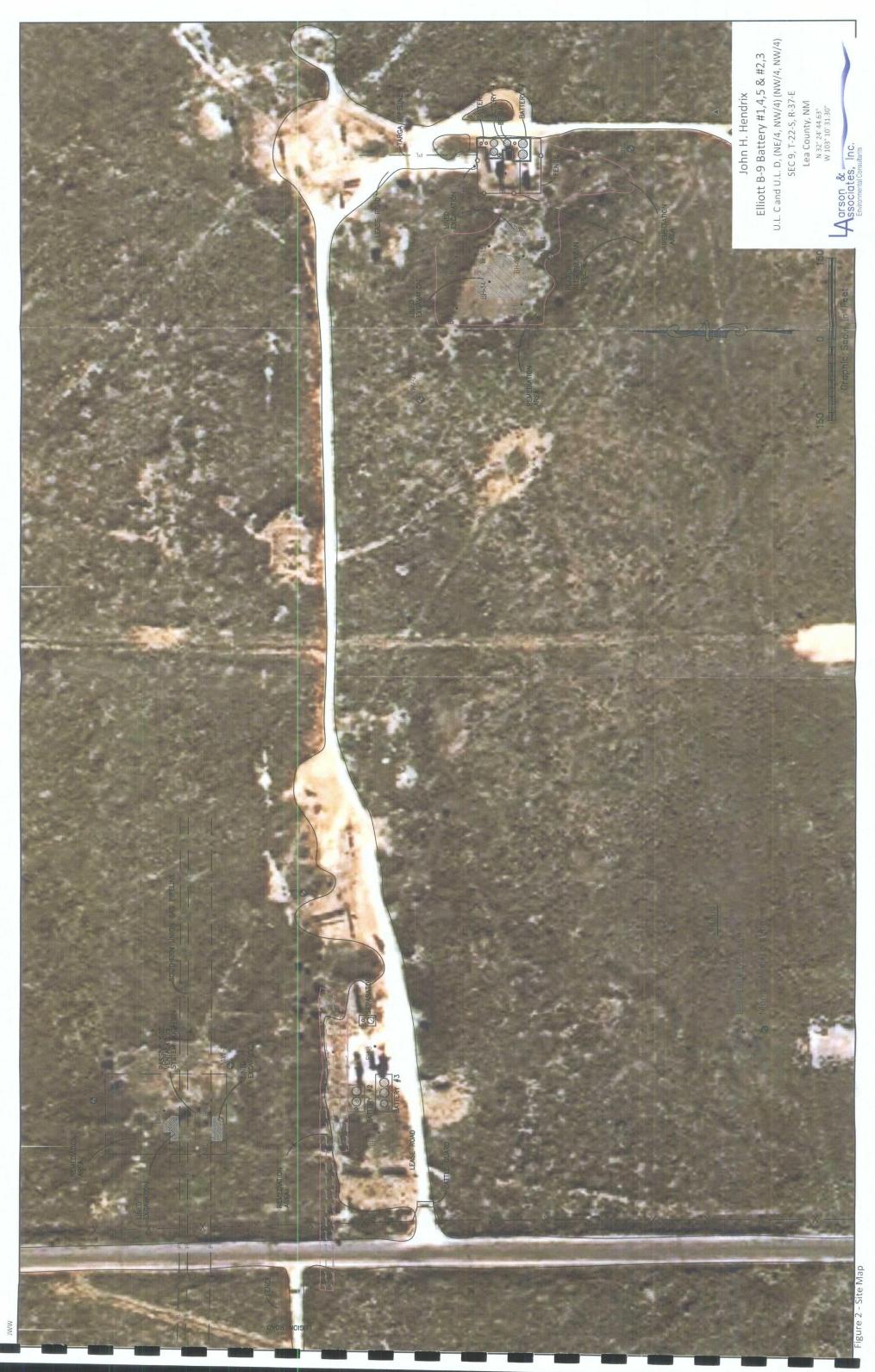
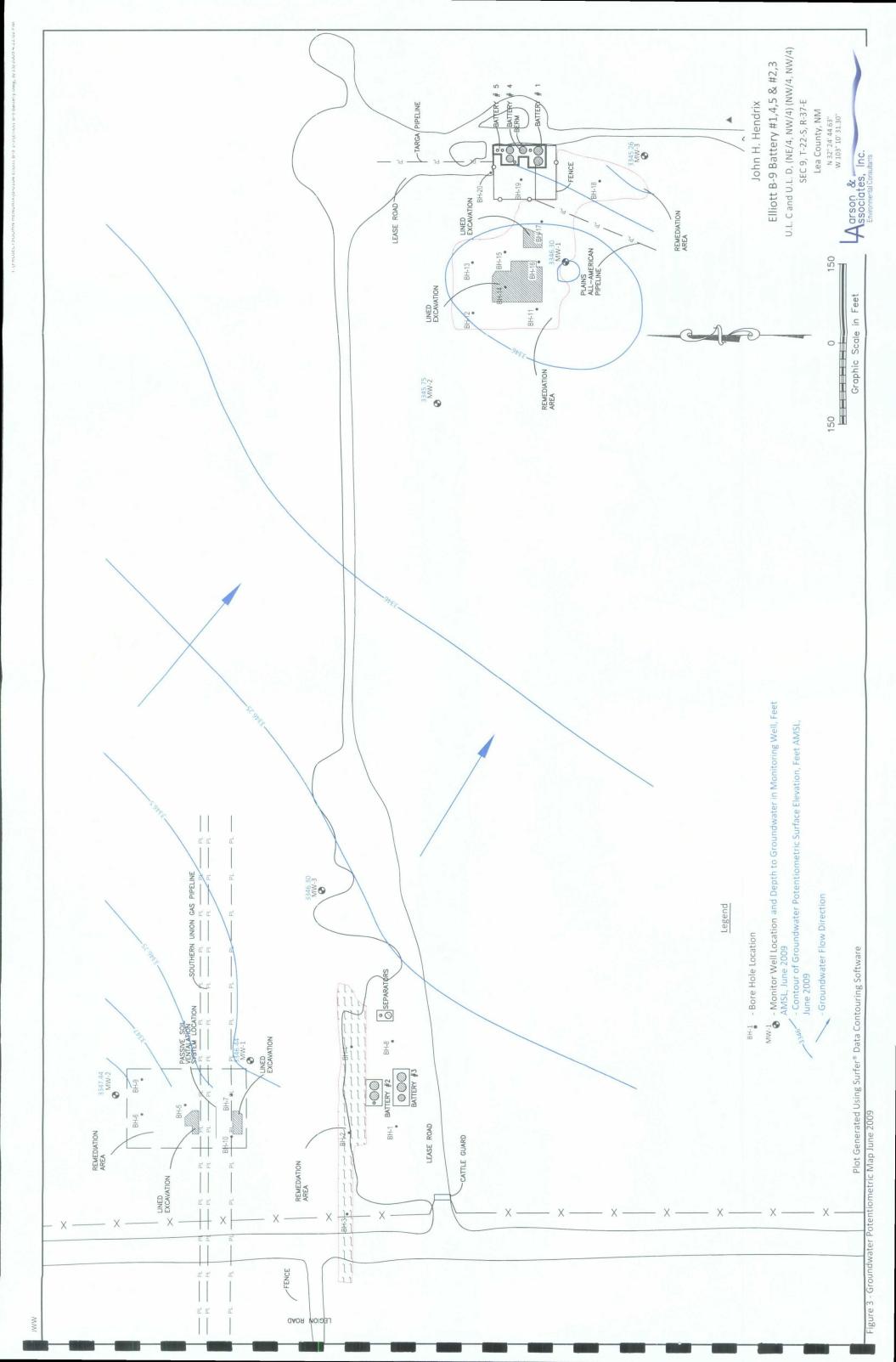
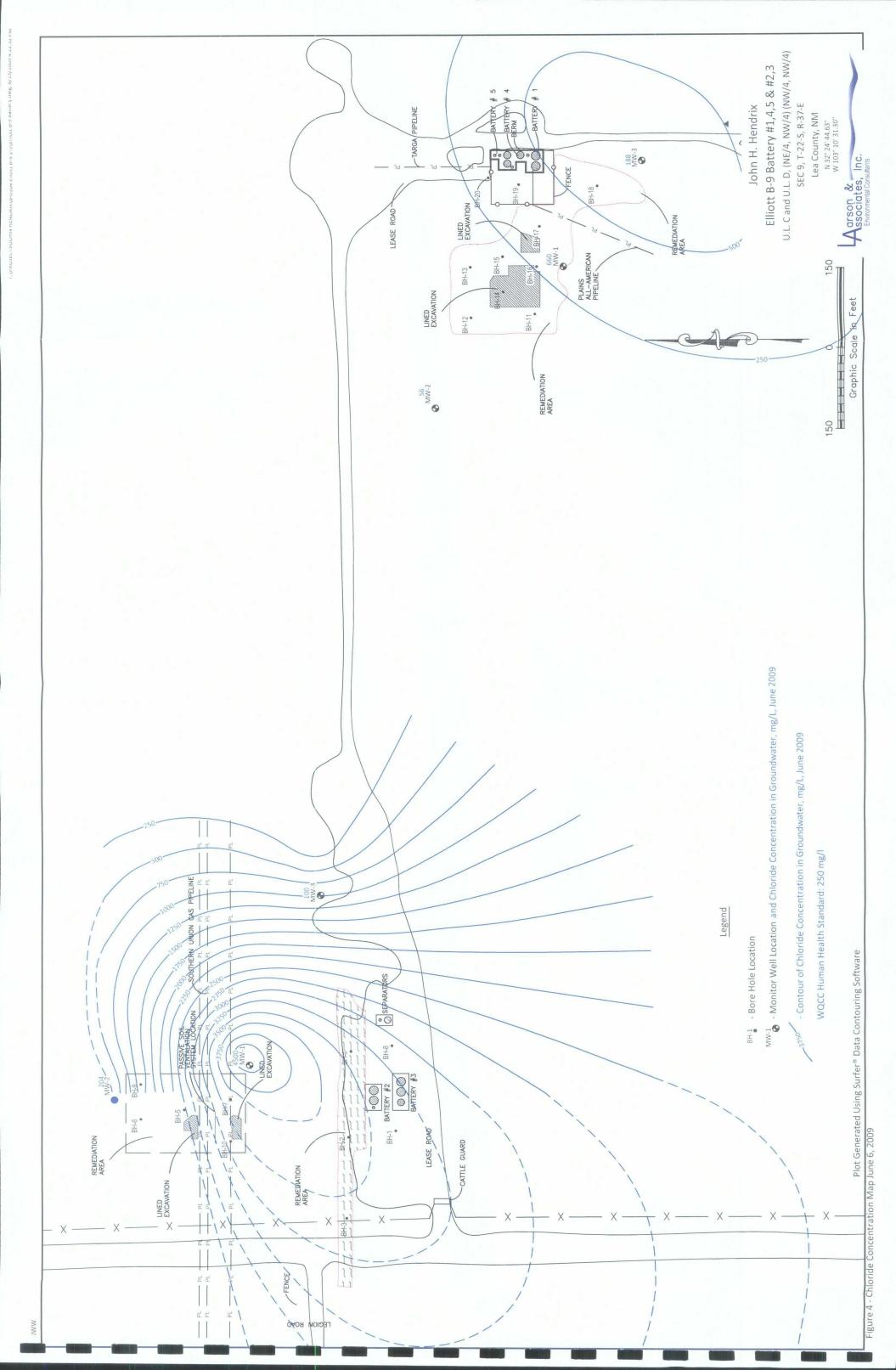
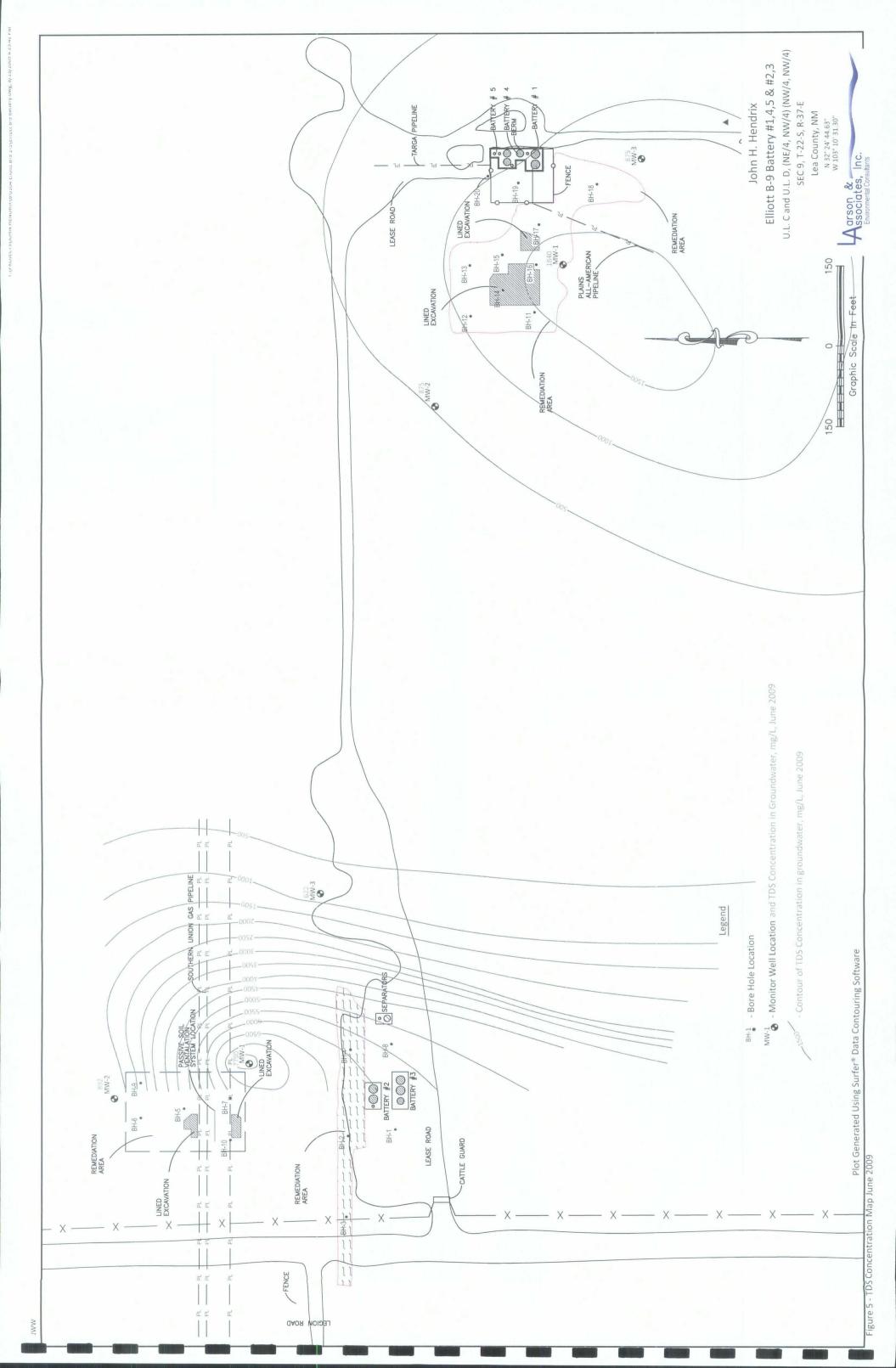


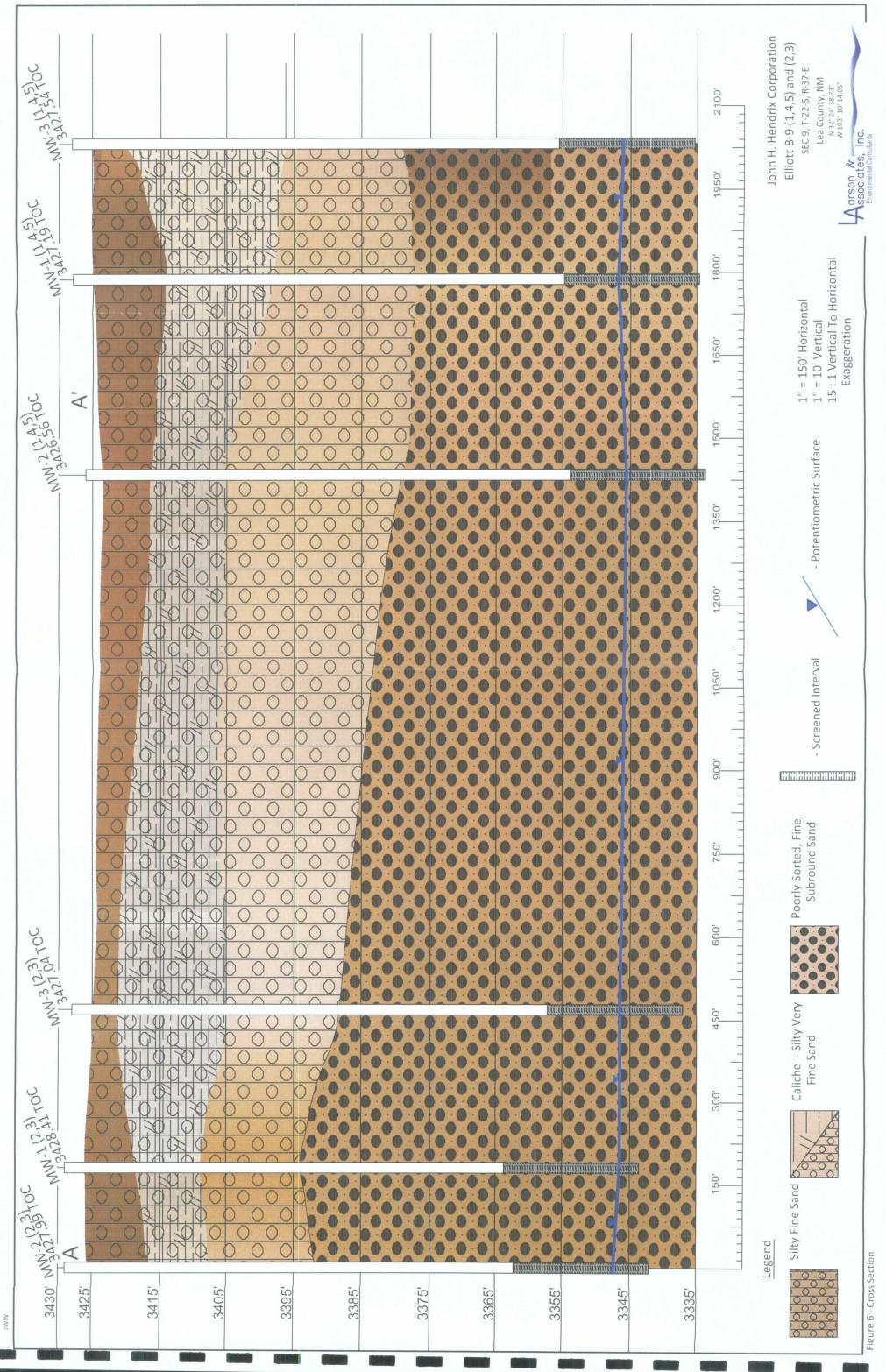
Figure 1- Topographic Map

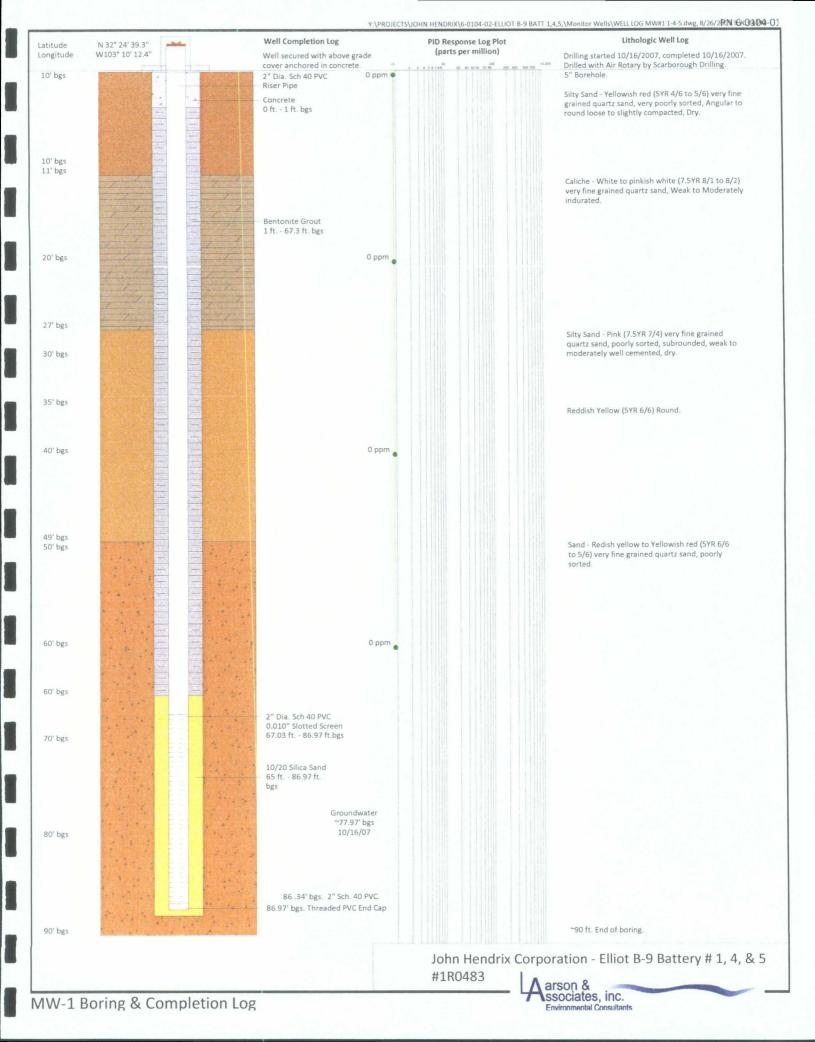


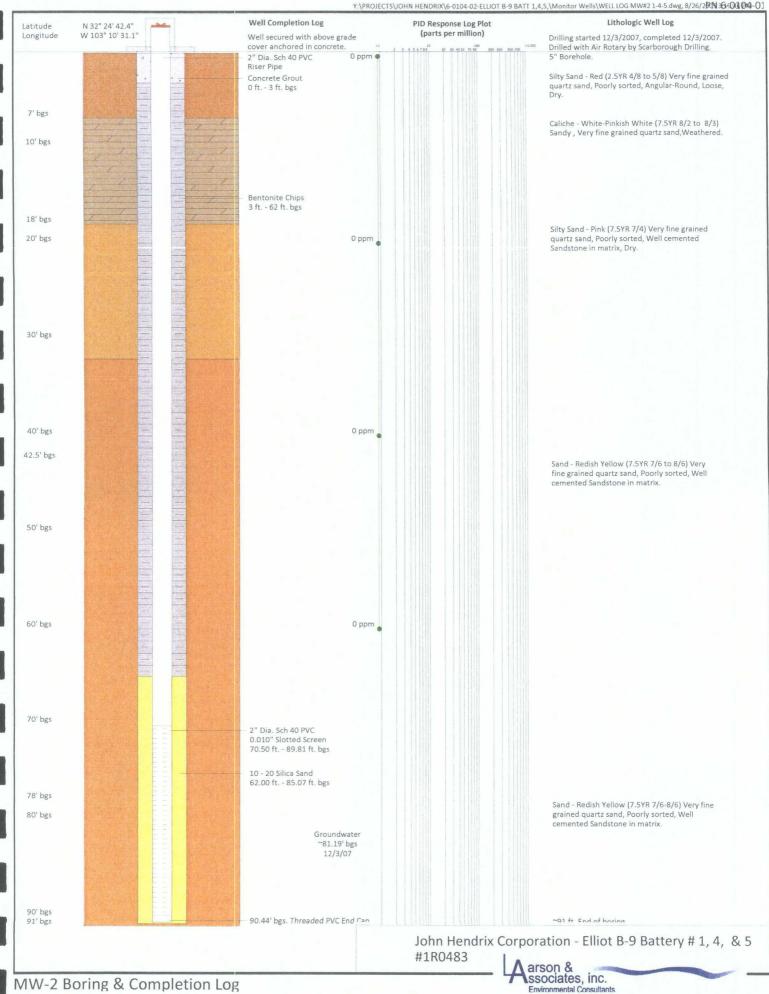


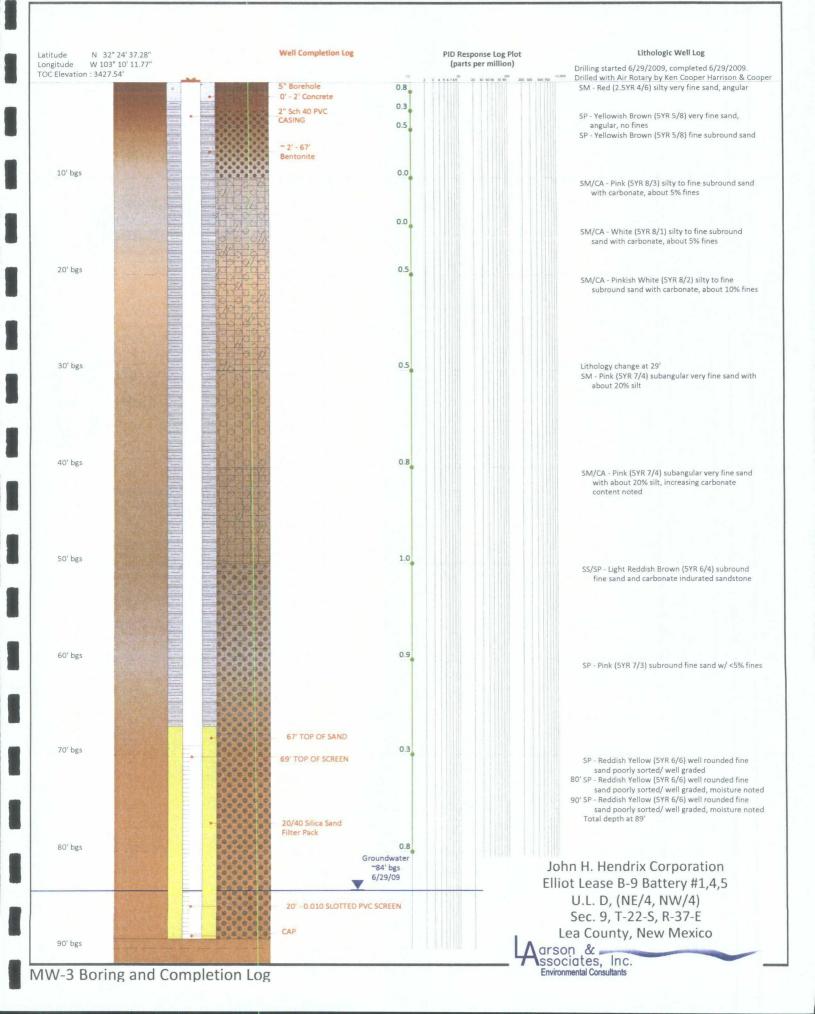


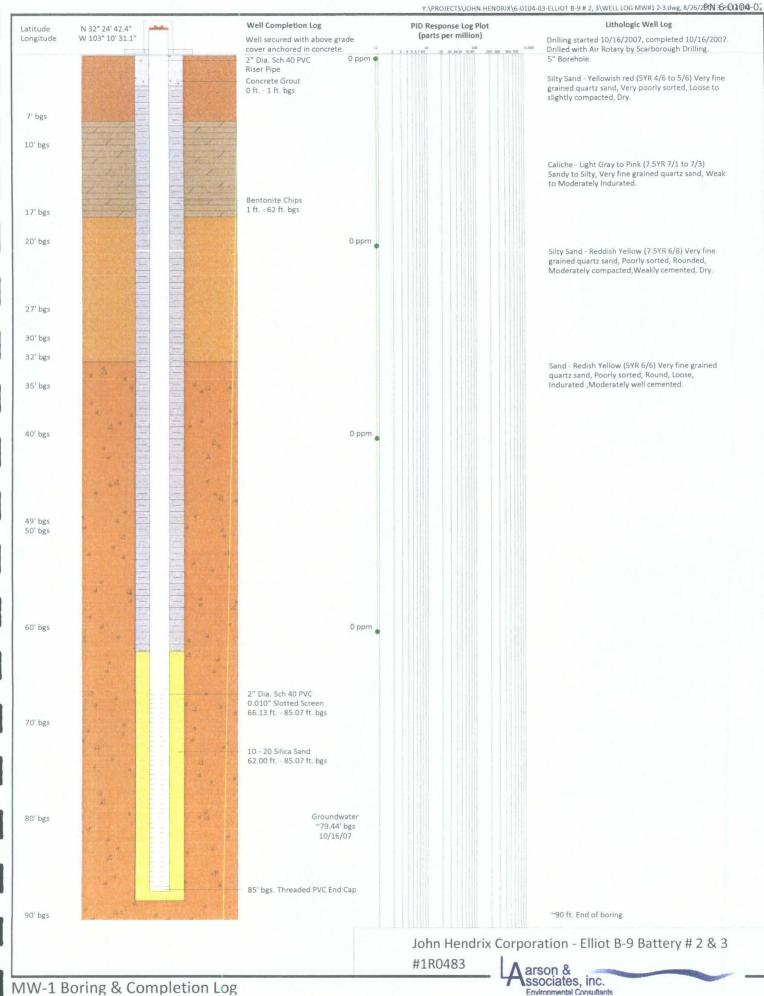




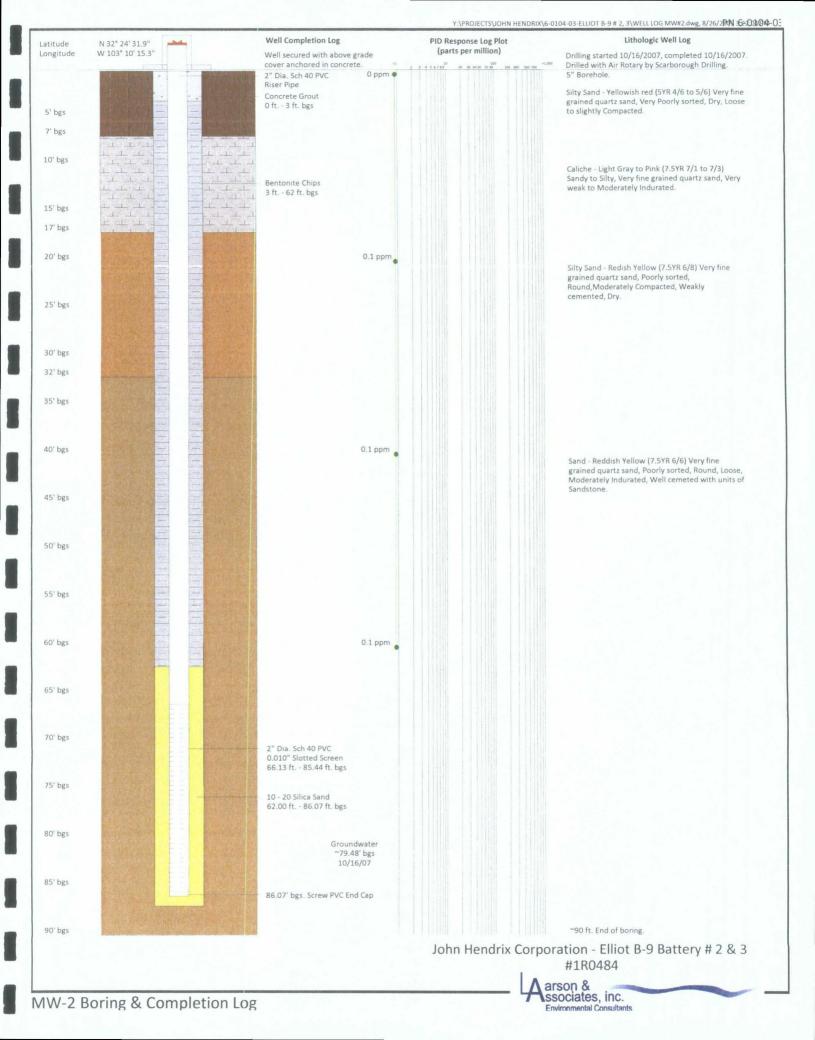


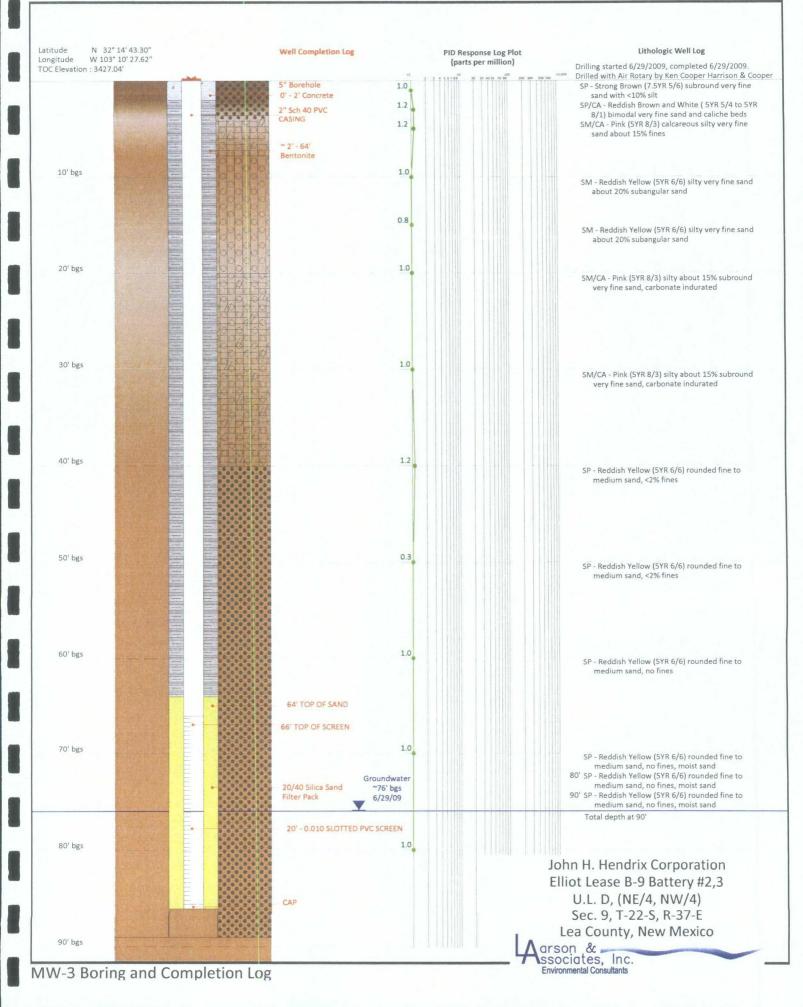






Environmental Consultants





William Green

From: Sent:	Hansen, Edward J., EMNRD [edwardj.hansen@state.nm.us] Monday, June 01, 2009 4:16 PM
То:	cdoranhaynes@jhhc.org
Cc:	Mark Larson; William Green; VonGonten, Glenn, EMNRD
Subject:	RE: Workplans for 1R-483 and 1R-484, Elliot B-9 Tank Battery #1, #4 and #5, and Elliot B-9 Tank Battery #2 & #3, respectfully

Dear Ms. Haynes:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring wells installation workplan for the above-referenced John H. Hendrix Corp. sites, dated June 1, 2009, and has conducted a review of the plan. The workplan substantially meets the requirements of 19.15.29 NMAC. Therefore, the OCD hereby approves the workplan.

Please be advised that OCD approval of this workplan does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Please keep in mind that additional wells may need to be installed to determine the full extent of the release.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

From: William Green [mailto:wgreen@laenvironmental.com]
Sent: Monday, June 01, 2009 1:25 PM
To: Hansen, Edward J., EMNRD
Cc: cdoranhaynes@jhhc.org; Mark Larson
Subject: Workplans for 1R-483 and 1R-484, Elliot B-9 Tank Battery #1, #4 and #5, and Elliot B-9 Tank Battery #2 & #3, respectfully

Dear Mr. Hansen,

Attached is a workplan to install monitor wells at the two referenced sites. If you have any questions please feel free to email me or call me at the phone numbers listed below. I will schedule a driller as soon as your approval is received.

Sincerely,

William D. Green, PG No. 136

Larson & Associates, Inc. 507 N. Marienfeld, Suite 200 Midland, Texas 79701



ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIEFELD, SUITE 200 MIDLAND, TX 79701

1

Receiving Date: 06/03/09 Reporting Date: 06/10/09 Project Number: 6-0104-02 Project Name: ELLIOTT B-9 #1, 4 & 5 Project Location: NOT GIVEN Sampling Date: 06/03/09 Sample Type: GROUND WATER Sample Condition: COOL & INTACT @ 4°C Sample Received By: ML Analyzed By: AB/HM

		CI	SO₄	TDS	CO3	HCO₃
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Analysis Date:		06/05/09	06/09/09	06/08/09	06/09/09	06/09/09
H17548-1	MW-1	660	130	1,840	0	278
H17548-2	MW-2	56	79.0	492	0	288
Quality Control		490	42.7	NR	NR	988
True Value QC		500	40.0	NR	NR	1000
% Recovery		98.0	107	NR	NR	98.8
Relative Percer	nt Difference	< 0.1	3.0	4.1	NR	1.2
METHOD: Standa	ard Methods, EPA	4500-CI ⁻ B	375.4	160.1	310.1	310.1

Chemist

H17548 Larson & Associates

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Date

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476	BILL TO	P.O. #:	$Company: \mathcal{JHHC}$	Attn: Curilyn H	Address:	City:	State: Zip:	Phone #:	Fax #:	PRESERV. SAMPLING	отнея : ос / соог отнея : отнея : отнея :		1 6-3			to that shall be literand to the emount ces	d received by Cardinal within 30 days afte loss of use, ar loss of profits incurred by c	is based upon any of the above stated re	LOUA LUA		ion CHECKED BY: (Initials) s UCAD
			200	Zip: 7970/			4+5			MATRIX	G)AAB OR (C)OMP. CONTRINERS ROUNDWATER MASTEWATER SOIL DIL SLUDGE	11	-			claim articing whether has ed in contract	emed waved unless made in writing an kithout limitation, business interruptions,	dinal, regardless of whether such claim is based up Received By:			Temp. Sample Condition Coop Intact Coop Intact No I No
 ARDINAL LABORATORIES 2111 Beechwood, Abilene, TX 79603 (325) 673-7001 Fax (325) 673-7020 		Michelle	n Mar	State: 72	87-090/ Fax#:	-0 / 0 / -0 2 Project Owner:	Ellio# B-9 # 1,				Sample I.D.	M W-1	MW-2-			DEASE NOTE: LIANITY and Damastas. Caterinat's labelity and clarifs and him and the new claim and down whether based in contract or fact that the immunit read by the client (of the	anityses. All claims including those for negligence and any other cause windsbower shall be derived waked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be labele for incidental or consequential damages, including without Imitation, business interruptions, loss of use, or loss of profits incurred by cleret, its subcidialies	ameters or successors atsized out of or related to the performance of services hereunder by Cardinel, regardnes Samboler Relinguisthed:	WW Time 3:25 v: Date:	Time:	(Circle One) - Bus - Other:
AF AF	Company Name:	Project Manager:	Address: 507	City: Mrd 1	Phone #: 68	Project #: 6 -	Project Name:	Project Location:	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	HITS48-1	-2			PLEASE NOTE: Labity on	analyses. All claims includir service. In no ovent shall Ca	Samoler Relind	Relinquished By:		Delivered Bv: (Circle One) Sampler - UPS - Bus - Othe

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+ Cardinal cannot accept verbal changes. Please fax written changes to 325-673-7020.



July 3, 2009

Michelle Green Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Elliot B-9 Battery 1, 4, & 5

Enclosed are the results of analyses for sample number H17723, received by the laboratory on 06/30/09 at 2:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely:

Celey D/Reene Laboratory Director



ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIENFELD, SUITE 202 MIDLAND, TX 79701

Receiving Date: 06/30/09 Reporting Date: 07/02/09 Project Number: 6-0104-02 Project Name: ELLIOTT B-9 BATTERY 1, 4 & 5 Project Location: ELLIOT B-9 BATTERY 1, 4, & 5 Sampling Date: 06/30/09 Sample Type: GROUND WATER Sample Condition: COOL & INTACT @ 6°C Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	(mg/L)) (mg/L)
Analysis Date:		07/01/09	07/01/09
H17723-1	MW-3	188	8 875
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Quality Control True Value QC	500	
% Recovery	100	NF
Relative Percent Difference	< 0.1	<0.1
METHOD: Standard Methods, EPA	4500-CI'B	160.1

07/13/09 Date

H17723 Larson & Associates

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63001 1315						r any claim arising whether based in contract or tort, shall be limited to the unrount paid by the client for the so deterried waived untess made in writing and received by Cantrial within 30 days after completion of tho a ing without limitation, business interruptions, toss of uso, or toss of podits interried by client, its subsidiaries, Cataliani, eggadises of wingher such claim is based upon any of the above sladed respons or of herwise.		<u> </u>	1			CHECKED BY:	AC	6.	
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<u>+17723-1 21 21 25 21 21 21 21 21 21 21 21 21 21 21 21 21 </u>						PLEASE NOTE: Lability and Damages. Cardinal's linblity and chen'ts exclusive remedy for any varient arising whethar based in contract or tort, shall be limited to the amount paid by the client for the anabyers. All claims including those for negligence and any other cause whatbower shall be determed with and the state within 30 days after completion of the all anabyers. In courts and those for negligence and any other cause whatbower shall be determed withed untests made in whiting and received by Cardinal within 30 days after completion of the all anabyers. All claims including those for negligence and any other cause whatbower shall be determed withed untests instrugtomed by Cardinal within 30 days after completion of the all and shall be and the state of the allower shall be able of the above stated reports in the shall are all all be able at the otherwes.	ujsh¢d:		M			(Circle One)	Sampler - UPS - Bus - Other:	† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.	
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Project Manager: Michello Green	P.O. #:	
Address: 507 N Marin Feld #202	Company: JAHC	

Attn: Carebyn Hoyus

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State: 7X Zip:

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ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIEFELD, SUITE 200 MIDLAND, TX 79701

Receiving Date: 06/03/09 Reporting Date: 06/10/09 Project Number: 6-0104-03 Project Name: ELLIOTT B-9 #2 & 3 Project Location: NOT GIVEN Sampling Date: 06/03/09 Sample Type: GROUND WATER Sample Condition: COOL & INTACT @ 2°C Sample Received By: ML Analyzed By: AB/HM

		CI	SO₄	TDS	CO3	HCO₃
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Analysis Date:		06/05/09	06/09/09	06/08/09	06/09/09	06/09/09
H17546-1	MVV-1	4,500	202	7,790	0	342
H17546-2	MW-2	204	188	892	0	259
Quality Control		490	42.7	NR	NR	988
True Value QC		500	40.0	NR	NR	1000
% Recovery		98.0	107	NR	NR	98.8
Relative Percent	Difference	< 0.1	3.0	1.7	NR	1.2
METHOD: Standar	d Methods, EPA	4500-CI'B	375.4	160.1	310.1	310.1

Keen Chemist

06/16/09

Date

H17546 Larson & Associates

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S S	Company Name:	Project Manager:	City: My d (Phone #: 43	Project #: 6	Project Name:	Project Location:	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	H17546-1	-2		PLEASE NOTE: Liability a. anatyses. All claims includi sorvice. In no overti shall C	Sampler Relinquished	Relmquished BV	Delivered Bv Sampler - UPS

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 3, 2009

Michelle Green Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Elliot B-9 Battery 2, 3

Enclosed are the results of analyses for sample number H17724, received by the laboratory on 06/30/09 at 2:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely, lene

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR LARSON & ASSOCIATES, INC. ATTN: MICHELLE GREEN 507 N. MARIENFELD, SUITE 202 MIDLAND, TX 79701

Receiving Date: 06/30/09 Reporting Date: 07/02/09 Project Number: 6-0104-03 Project Name: ELLIOTT B-9 BATTERY 2, 3 Project Location: ELLIOT B-9 BATTERY 2, 3 Sampling Date: 06/30/09 Sample Type: GROUND WATER Sample Condition: COOL & INTACT @ 5°C Sample Received By: ML Analyzed By: HM

LAB NO.	SAMPLE ID	CI (mg/L)	TDS (mg/L)
Analysis Date	:	07/01/09	07/01/09
H17724-1	MW-3	100	622
- 19- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10			

Quality Control	500	NR
True Value QC	500	NR
% Recovery	100	NR
Relative Percent Difference	< 0.1	<0.1
METHOD: Standard Methods, EPA	4500-CI'B	160.1

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07/03/09

Date

H17724 Larson & Associates

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