Chesapeake

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action – Informational Only

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chesapeake Energy	**Contact:** Bradley Blevins
Address: P.O. Box 190	**Telephone No.:** (505) 391-1462 ext. 6224
Facility Name: J.A. Akens -A- Oil Unit Tank Battery	**Facility Type:** Tank Battery

Surface Owner: Millard Deck Estate	**Mineral Owner:**	**Lease No.:**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
T	3	21S	36E					Lea

200' **Latitude:** N 32° 30' 10.54" **Longitude:** W 103° 15' 36.76"

NATURE OF RELEASE

Type of Release: Crude Oil	**Volume of Release:** ~ 277 bbls	**Volume Recovered:** ~144 bbls
Source of Release: Tank Battery	**Date and Hour of Occurrence:** January 1, 2006, P. M.	**Date and Hour of Discovery:** January 2, 2006, A. M.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Gary Wink, NMOCD	
By Whom? Ralph Skinner	**Date and Hour:** January 2, 2006, A. M.	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* The release of approximately 277 barrels of crude oil was the result of the structural integrity of the tank failing, with approximately 144 barrels were recovered from the site.

Describe Area Affected and Cleanup Action Taken.* Approximately 10,100 square-feet of surface area were impacted by the release.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	**Approved by District Supervisor:**	
Title: Field Supervisor	**Approval Date:**	**Expiration Date:**
E-mail Address: bblevins@chkenergy.com	**Conditions of Approval:**	**Attached** ☐
Date: 16 February 2006 **Phone:** (505) 391-1462 ext. 6224		

*** Attach Additional Sheets If Necessary**

Chesapeake - 147179
facility - fPAC0610938028
Incident - nPAC0610938104
application - pPAC0610938279

4.19.06 VERBAL OK CLOSED

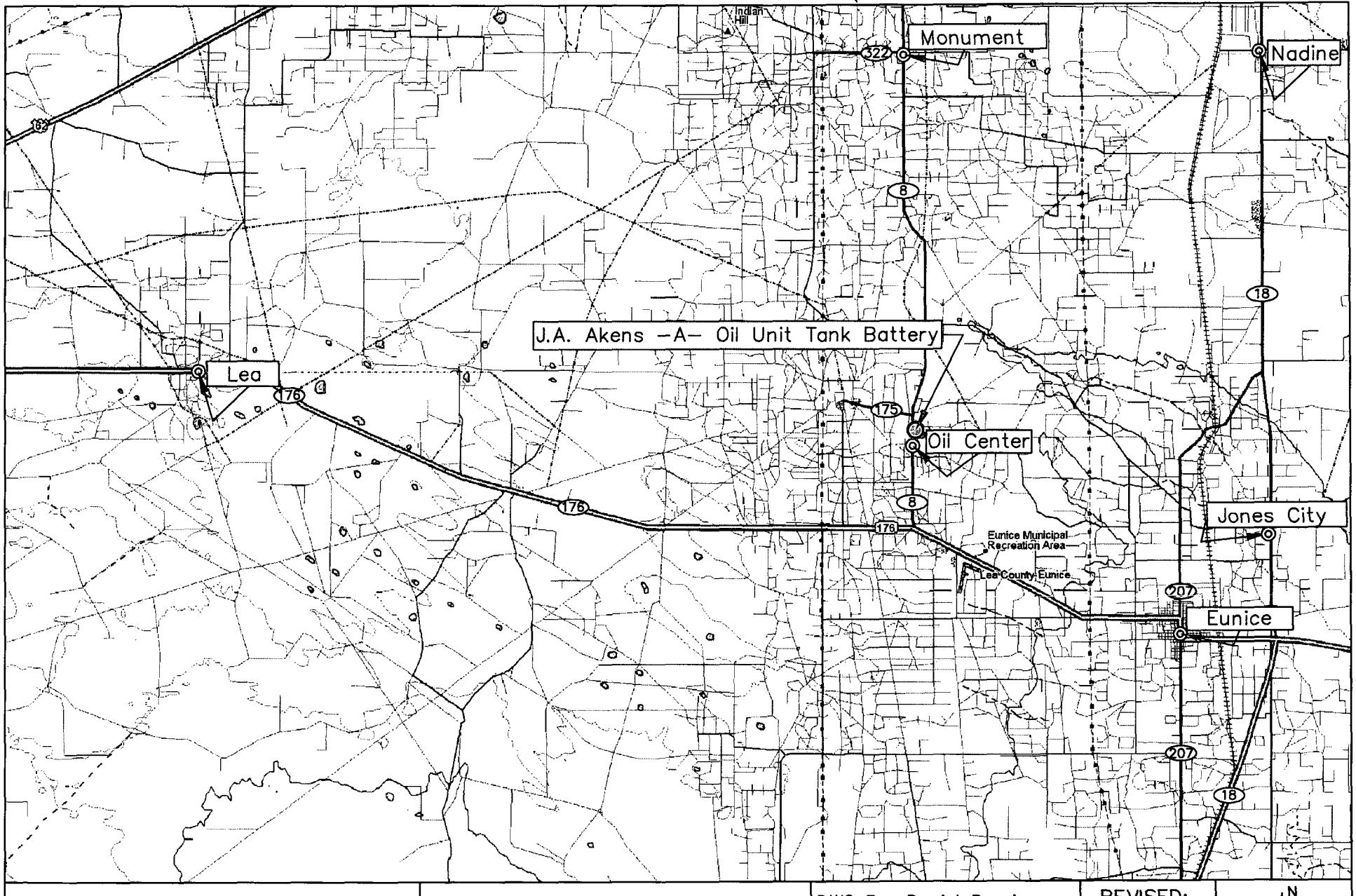


Figure 1
Area Map
Chesapeake Energy
J.A. Akens –A– Oil Unit Tank Battery

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E
N 32° 30' 10.54" W 103° 15' 36.76"
Elevation: 3,579 feet amsl

DWG By: Daniel Dominguez
January 2006

REVISED:

0 3.0 6.0
Miles

SHEET
1 of 1

N

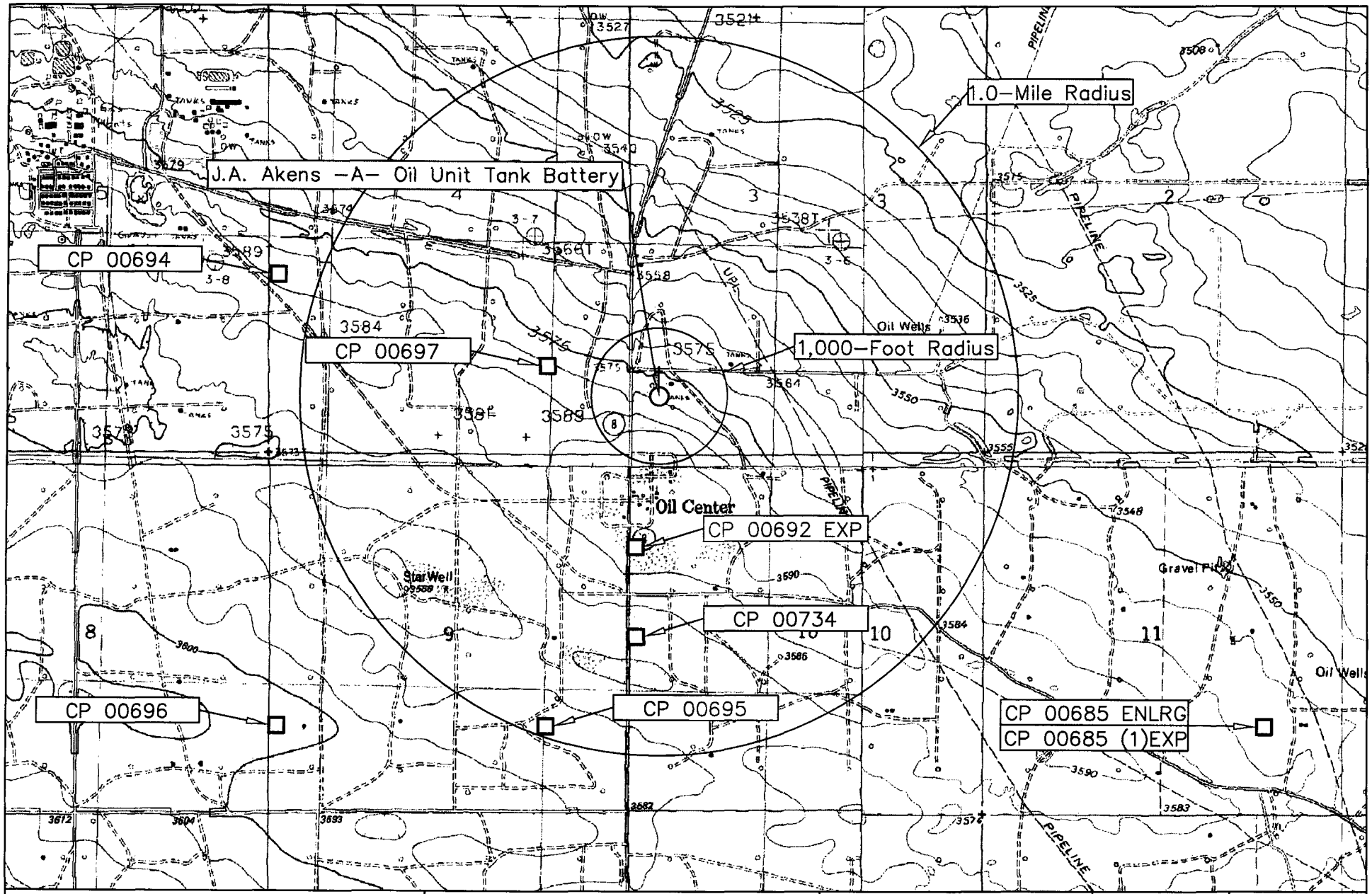
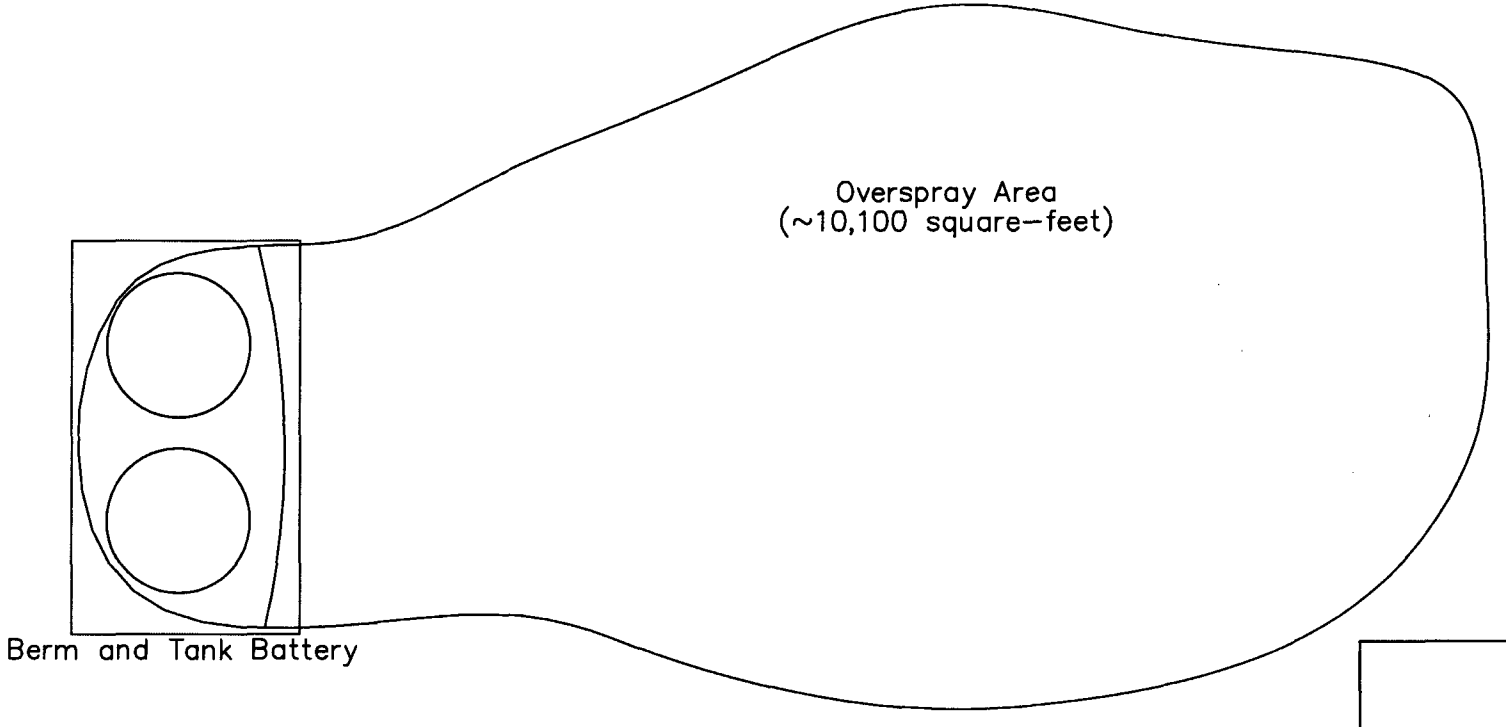


Figure 2 Site Location Map Chesapeake Energy J.A. Akens -A- Oil Unit Tank Battery	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E N 32° 30' 10.54" W 103° 15' 36.76" Elevation: 3,579 feet amsl	DWG By: Daniel Dominguez January 2006	REVISED:
		0 2000 4000 Feet	SHEET 1 of 1



LEGEND

Figure 3 Site Map Chesapeake Energy J.A. Akens –A– Oil Unit Tank Battery	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E N 32° 30' 10.54" W 103° 15' 36.76" Elevation: 3,579 feet amsl	DWG By: Daniel Dominguez January 2006	REVISED:	N
		0 25 50 Feet	SHEET 1 of 1	

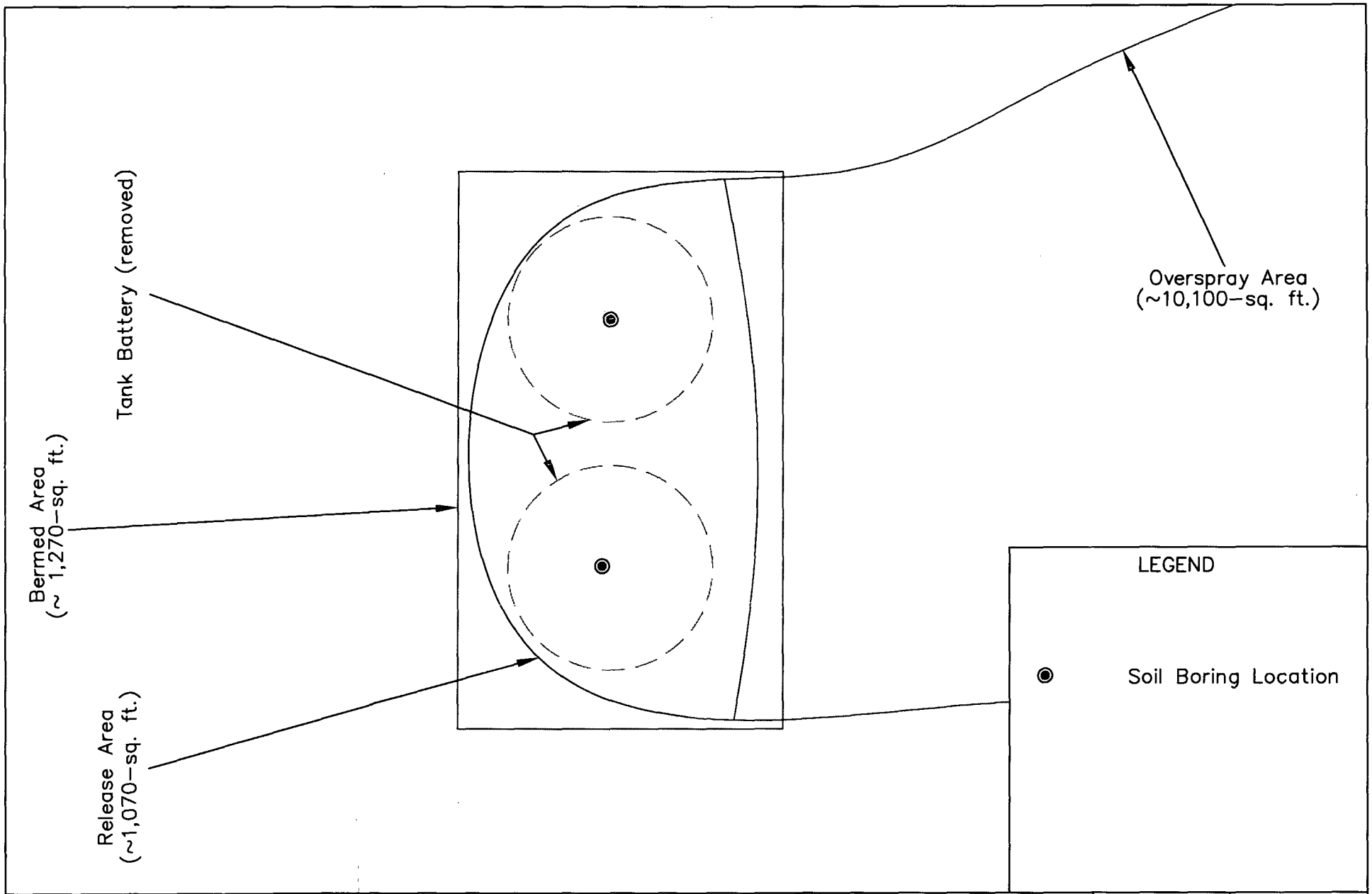


Figure 4
2-27-06 Soil Boring
Chesapeake Energy
J.A. Akens -A- Oil Unit Tank Battery

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E
N 32° 30' 10.54" W 103° 15' 36.76"
Elevation: 3,579 feet amsl

DWG By: Jason Stegemoller
April 2006

REVISED:

0 12.5 25
Feet

SHEET
1 of 1

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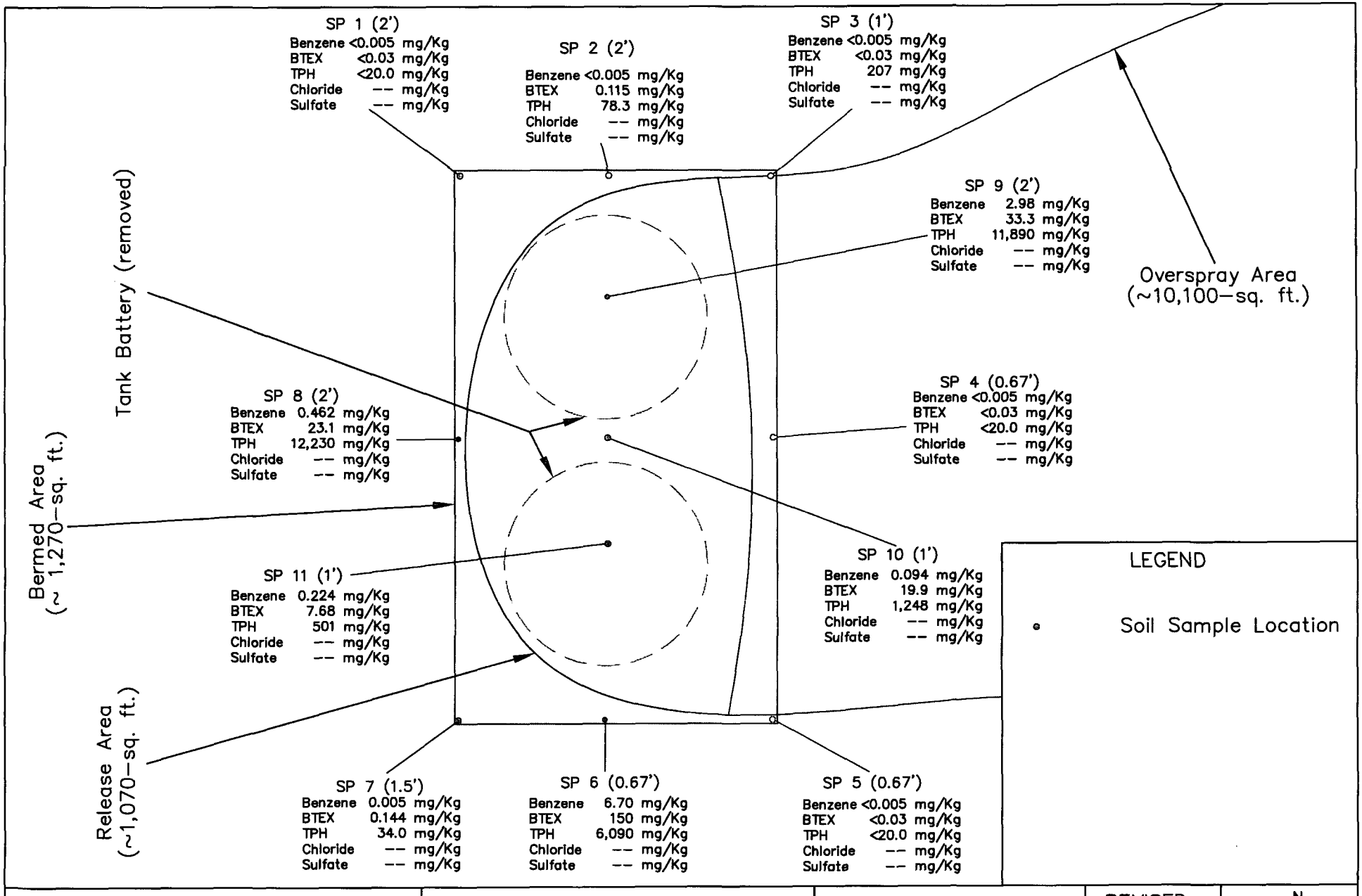

Figure 5
3-3-06 Sample Location Map
Chesapeake Energy
J.A. Akens -A- Oil Unit Tank Battery

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E
N 32° 30' 10.54" W 103° 15' 36.76"
Elevation: 3,579 feet amsl

DWG By: Jason Stegemoller
April 2006

REVISED:

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Feet

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1 of 1

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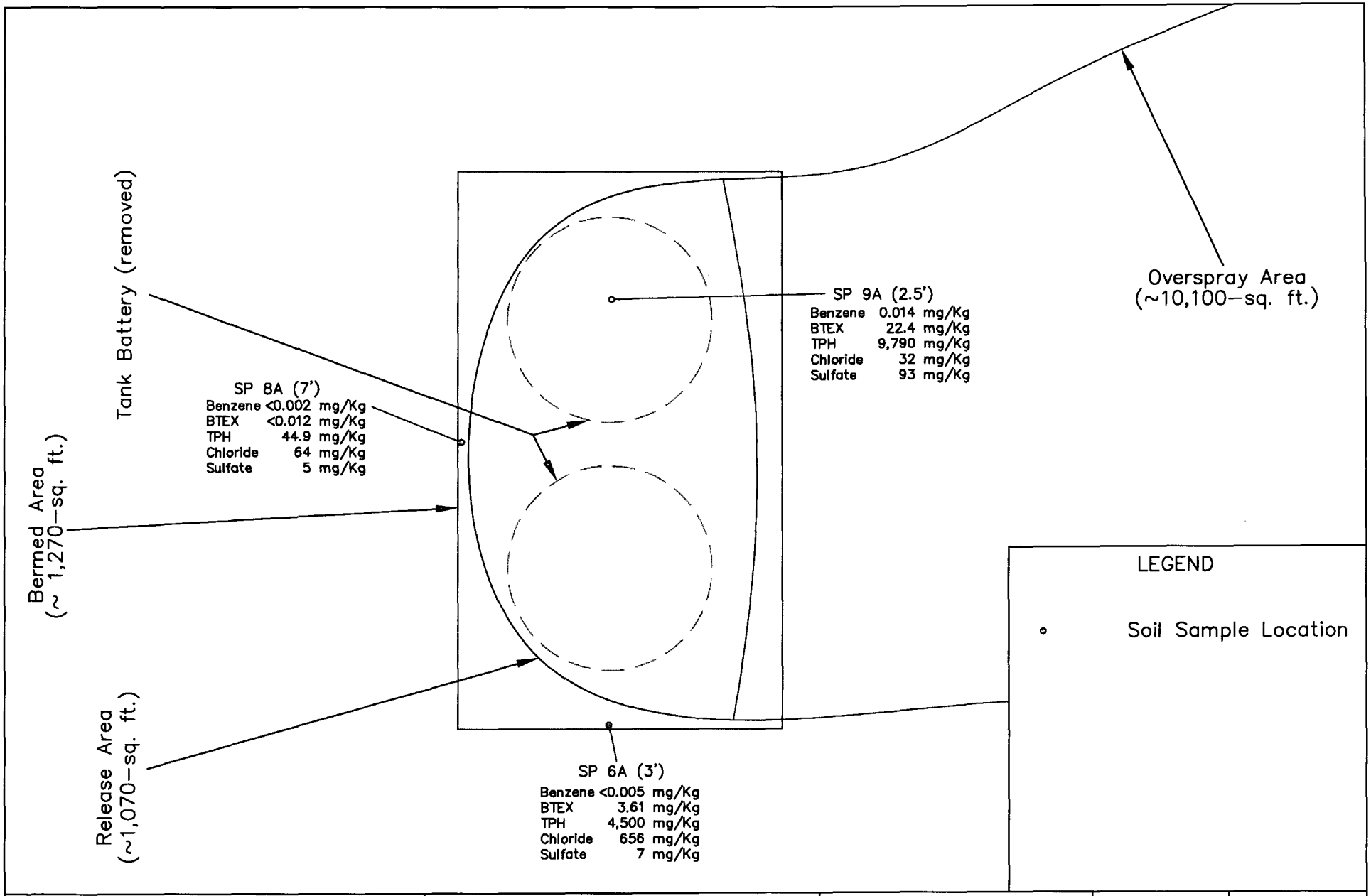

Figure 6
3-18-06 Sample Location Map
Chesapeake Energy
J.A. Akens -A- Oil Unit Tank Battery

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E
N 32° 30' 10.54" W 103° 15' 36.76"
Elevation: 3,579 feet amsl

DWG By: Jason Stegemoller
April 2006

REVISED:

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Feet

SHEET
1 of 1

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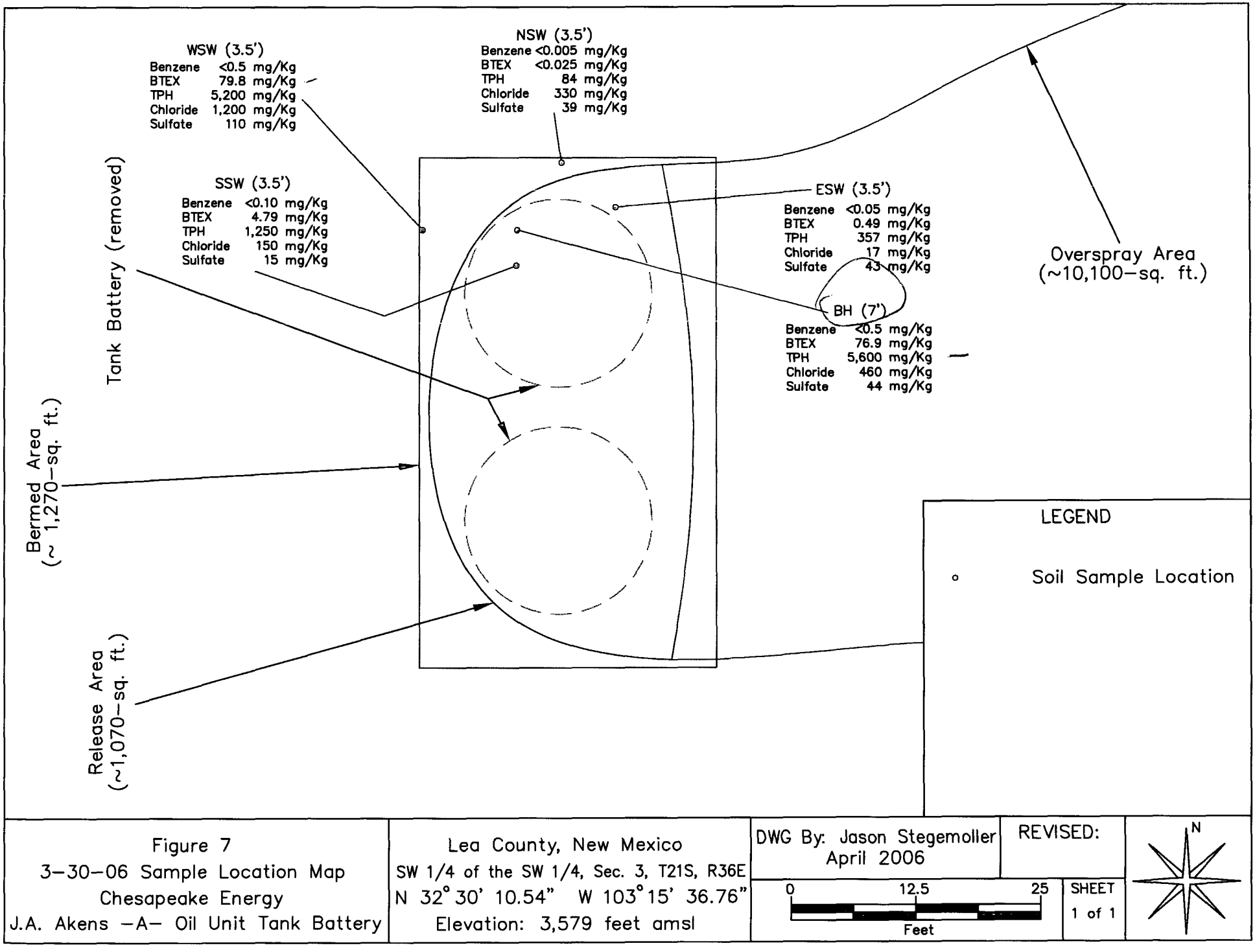

Figure 7 3-30-06 Sample Location Map Chesapeake Energy J.A. Akens -A- Oil Unit Tank Battery	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 3, T21S, R36E N 32° 30' 10.54" W 103° 15' 36.76" Elevation: 3,579 feet amsl	DWG By: Jason Stegemoller April 2006	REVISED: SHEET 1 of 1

TABLE 1

Well Data

Chesapeake Energy - J.A. Akens -A- Oil Unit Tank Battery (Ref. # 160043)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation[B]	Depth to Water (ft bgs)
CP 00694	0	CHEVRON U.S.A. INC.	SRO	21S	36E	04 1	N32° 30' 28.08"	W103° 16' 42.46"		3,589	
CP 00697	0	CHEVRON U.S.A. INC.	SRO	21S	36E	04 4 2 3	N32° 30' 14.93"	W103° 15' 56.01"		3,586	
CP 00695	0	CHEVRON U.S.A. INC	SRO	21S	36E	09 4 2 4	N32° 29' 22.69"	W103° 15' 56.00"		3,589	
CP 00696	0	CHEVRON U.S.A. INC.	SRO	21S	36E	09 3 1 1	N32° 29' 22.78"	W103° 16' 42.39"		3,606	
CP 00692 EXP	0	W. L. VAN NOY	DOM	21S	36E	10 1 1 3	N32° 29' 48.76"	W103° 15' 40.54"		3,586	
CP 00734	3	W.L. VAN NOY	DOM	21S	36E	10 1	N32° 29' 35.71"	W103° 15' 40.54"	22-Jun-88	3,580	200
CP 00685 ENLRG	0	WILL J. MCCASLAND	COM	21S	36E	11 4 2	N32° 29' 22.71"	W103° 13' 52.54"		3,571	
CP 00685 (1) EXP	0	USA INC. CHEVRON	PRO	21S	36E	11 4 2	N32° 29' 22.71"	W103° 13' 52.54"		3,571	
L 07108 EXP	0	NORTHERN NATURAL GAS CO.	SAN	20S	37E	33 1 2 2	N32° 31' 58.89"	W103° 15' 36.82"		3,540	
L 07355	3	NORHTERN NATURAL GAS CO.	SAN	20S	37E	33 1 2 2	N32° 31' 58.89"	W103° 15' 36.82"	04-Jul-75	3,540	120
L 08157	3	NORTHERN NATURL GAS CO.	SAN	20S	37E	33 1 2 2	N32° 31' 58.89"	W103° 15' 36.82"	08-Oct-79	3,540	275
L 05034 X DCL	0	CONTINENTAL OIL COMPANY	DOM	20S	37E	35 4 4 1	N32° 31' 19.42"	W103° 13' 2.02"		3,497	
L 05034 X-2 DCL	ERROR	CONTINENTAL OIL COMPANY	DOM	20S	37E	35 4 3 2	N32° 31' 19.39"	W103° 13' 17.51"		3,501	
L 05034 DCL	0	CONTINENTAL OIL COMPANY	DOM	20S	37E	35 4 4 2	N32° 31' 19.42"	W103° 13' 2.02"		3,497	

[B] = Elevation interpolated from USGS topographical map based on referenced location.
COM = Commercial
PRO = Prospecting or development of a natural resource
DOM = Domestic **Shaded area indicates wells not shown in Figure 2**
SRO = Secondary recovery of oil
SAN = Sanitary in conjunction with commercial
quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

TABLE 2

Summary of Excavation Soil Sample Laboratory Analytical Results

Chesapeake - J. A. Akens "A" Oil Unit Tank Battery (Ref. #160043)

Soil Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SP-1 (2')	2	In Situ	03-Mar-06	3.90	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	--	--
SP-2 (2')	2	In Situ	03-Mar-06	791	--	<0.005	<0.005	0.014	0.101	0.115	<10.0	78.3	78.3	--	--
SP-3 (1')	1	In Situ	03-Mar-06	30.0	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	207	207	--	--
SP-4 (0.67')	0.67	In Situ	03-Mar-06	10.0	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	--	--
SP-5 (0.67')	0.67	In Situ	03-Mar-06	38.6	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	--	--
SP-6 (0.67')	0.67	Excavated	03-Mar-06	1,315	--	6.70	52.2	25.4	65.6	**150**	2,050	4,040	**6,090**	--	--
SP-7 (1.5')	1.5	In Situ	03-Mar-06	81.7	--	0.005	0.043	0.025	0.071	0.144	<10.0	34.0	34.0	--	--
SP-8 (2')	2	Excavated	03-Mar-06	1,912	--	0.462	4.68	7.93	10.0	23.1	4,680	7,550	**12,230**	--	--
SP-9 (2')	2	Excavated	03-Mar-06	1,457	--	2.98	1.51	6.86	21.9	33.3	4,310	7,580	**11,890**	--	--
SP-10 (1')	1	In Situ	03-Mar-06	802	--	0.094	0.045	4.73	15.0	19.9	301	947	1,248	--	--
SP-11 (1')	1	In Situ	03-Mar-06	1,332	--	0.224	1.92	1.21	4.33	7.68	103	398	501	--	--
SP-6A (3')	3	In Situ	18-Mar-06	388	--	<0.005	<0.005	0.139	3.47	3.61	268	4,230	**4,500**	**656**	7
SP-8A (7')	7	In Situ	18-Mar-06	303	--	<0.002	<0.002	<0.002	<0.006	<0.012	<10.0	44.9	44.9	64	5
SP-9A (2.5')	2.5	Excavated	18-Mar-06	302	--	0.014	0.885	2.80	18.7	22.4	1,330	8,460	**9,790**	32	93
BH (7')	7	In Situ	30-Mar-06	588	360	<0.5	0.98	15	61	76.9	1,700	3,900	**5,600**	**460**	44
ESW (3.5')	3.5	In Situ	30-Mar-06	210	360	<0.05	<0.05	0.19	0.30	0.49	47	310	357	17	43
NSW (3.5')	3.5	In Situ	30-Mar-06	37.7	400	<0.005	<0.005	<0.005	<0.010	<0.025	<10.0	84	84	**330**	39
SSW (3.5')	3.5	In Situ	30-Mar-06	272	360	<0.10	0.19	1.3	3.3	4.79	150	1,100	1,250	150	15
WSW (3.5')	3.5	In Situ	30-Mar-06	1,005	730	<0.5	0.82	19.0	50.0	**79.8**	1,900	3,800	**5,200**	**1,200**	110
NMOCD Remedial Thresholds				**100**		**10**				**50**			**5,000**	**250** [3]	**650** [3]

[1] ***Bolded*** *values are in excess of NMOCD Remediation Thresholds and/or NMWQCC groundwater standards.*

[2] *-- = Not Analyzed*

[3] *Chloride and sulfate residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L and 650 mg/L, respectively.*

TABLE 3

Summary of Soil Boring Analytical Results

Chesapeake - J. A. Akens "A" Oil Unit Tank Battery (Ref. #160043)

Soil Boring	Soil Sample I.D.	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Field Chloride Analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	PH (C6-C12) (mg/Kg)	PH (C12-C28) (mg/Kg)	PH (C28-C35) (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SB-1	SB-1 2'-3'	2-3	27-Feb-06	In Situ	1336	160	49.2	250	112	406	817	6,210	7,970	1,650	**15,800**	17.3	32
	SB-1 4.5'-5'	4.5-5	27-Feb-06	In Situ	850	160	3.72	18.3	10.1	32.3	64.4	549	1,540	325	2,410	36.1	25.9
	SB-1 9.5'-10'	9.5-10	27-Feb-06	In Situ	436	160	0.268	2.00	2.17	20.9	23.4	1,140	3,600	614	**5,350**	20.9	41.4
	SB-1 14.5'-15'	14.5-15	27-Feb-06	In Situ	9.0	160	<0.0250	<0.0250	<0.0250	<0.0500	<0.125	<10.0	124	77.0	201	90.5	114
	SB-1 19.5'-20'	19.5-20	27-Feb-06	In Situ	2.9	--	--	--	--	--	--	<10.0	38.7	8.90[A]	38.7	--	--
SB-2	SB-2 2'-3'	2-3	27-Feb-06	In Situ	786	240	1.03	4.00	3.03	25.8	33.8	1,610	2,590	393	4,590	30.6	30.7
	SB-2 4.5'-5'	4.5-5	27-Feb-06	In Situ	145	320	<0.0250	0.173	0.216	0.688	1.08	81.5	316	64.4	462	287	37.2
	SB-1 9.5'-10'	9.5-10	27-Feb-06	In Situ	9.6	400	<0.0250	<0.0250	<0.0250	<0.0500	<0.125	<10.0	35.6	10.3	45.9	213	16.8
	SB-1 14.5'-15'	14.5-15	27-Feb-06	In Situ	2.6	320	<0.0250	<0.0250	<0.0250	<0.0500	<0.125	<10.0	<10.0	<10.0	<10.0	52.0	27.2
NMOCD Remedial Thresholds					**100**		**10**				**50**				**5,000**	**250 [B]**	**600 [B]**

Bolded *values are in excess of the NMOCD Remediation Thresholds and/or NMWQCC groundwater standards.*

-- = Not Analyzed

[A] *Detected below laboratory method detection limits, therefore an estimate.*

[B] *Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC groundwater standards of 250 ppm and 600 ppm, respectively.*

Chesapeake
Information and Metrics

Incident Date: 1 January 2006	**NMOCD Notified:** 2 January 2006

Site: J.A. Akens -A- Oil Unit Tank Battery	**Assigned Site Reference : #**160043
Company: Chesapeake Energy	
Street Address: 1616 West Bender	
Mailing Address: P.O. Box 190	
City, State, Zip: Hobbs, New Mexico 88240	
Representative: Bradley Blevins	
Representative Telephone: (505) 391-1462 ext. 6224	
Telephone:	
Fluid volume released (bbls): ~277 barrels	**Recovered (bbls):** ~144 barrels
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: J.A. Akens -A- Oil Unit Tank Battery	
Source of contamination: Tank Battery	
Land Owner, i.e., BLM, ST, Fee, Other: Millard Deck Estate	
LSP Dimensions: 100 feet by 101 feet	
LSP Area: ~10,100 ft^2	
Location of Reference Point (RP):	
Location distance and direction from RP:	
Latitude: N 32° 30' 10.54"	
Longitude: W 103° 15' 36.76"	
Elevation above mean sea level: 3,579 feet	
Feet from North Section Line:	
Feet from West Section Line:	
Location- Unit or ¼¼: SW¼ of the SW¼	**Unit Letter:** T
Location- Section: 3	
Location- Township: T21S	
Location- Range: R36E	
Surface water body within 1000 ' radius of site: none	
Domestic water wells within 1000' radius of site: none	
Agricultural water wells within 1000' radius of site: none	
Public water supply wells within 1000' radius of site: none	
Depth from land surface to groundwater (DG): ~198 feet	
Depth of contamination (DC): unknown	
Depth to groundwater (DG – DC = DtGW): ~198 feet	

1. Groundwater	**2. Wellhead Protection Area**	**3. Distance to Surface Water Body**
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-1000 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Site Rank (1+2+3) = 0		

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	10 ppm	10 ppm	10 ppm
BTEX[1]	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis