



City of Eules

Pad Site Permit Application

Bear Creek Pad

**BC Associates 1H, 2H, 3H, 4H and BC
South 1H**



APPLICATION TYPE

<input checked="" type="checkbox"/> Gas Well Pad Site Permit	<input checked="" type="checkbox"/> Gas Well Operations Permit <input type="checkbox"/> Re-drilling or re-working
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OPERATOR / PROPERTY OWNER / APPLICANT INFORMATION

Operator: Chesapeake Operating, Inc. RRC operator number: 147715
 Incorporation State OK, Partnership _____ (list partners on a separate sheet)
 Physical mailing address (not a P.O. Box):
 Designated Contact Person Ken Thompson (Agent data is added below)
 Street 6100 N Western Avenue Suite _____
 City Oklahoma City, State OK, Zip Code 73154 - 0496
 Office phone (405)879-8400 Mobile () _____, Email ken.thompson@chk.com
 FAX phone () _____ **24 Hour Emergency Contact Phone Number** (800) 556-9306

Property Owner: Chesapeake Land Dev Co LLC
 Physical mailing address (not a P.O. Box):
 Designated Contact Person Chip Keating
 Street 6100 N Western Avenue Suite _____
 City Oklahoma City, State OK, Zip Code 73118 - _____
 Office phone (405)935-8478 Mobile (405)613-6182, Email chip.keating@chk.com
 FAX phone (817) 849-8478

Agent Applicant (If not one of above): Chesapeake Operating, Inc.
 Physical mailing address (not a P.O. Box):
 Designated Contact Person Dusty Anderson
 Street 100 Energy Way Suite _____
 City Fort Worth, State TX, Zip Code 76102 - _____
 Office phone (817) 502-5645 Mobile (817) 718-6403, Email dusty.anderson@chk.com
 FAX phone (817) 945-5202

I certify that the above information is correct and complete to the best of my knowledge and ability and that I am now or will be fully prepared to represent the above Gas Well Pad Site or Gas Well Operations Permit request before the City Council or City Staff. I acknowledge that I have reviewed and understand the requirements contained in Chapter 40 Gas Well Drilling of the Euleless Code of Ordinances, and understand the policies and procedures regarding consideration of Gas Well Pad Site and Gas Well Operations Permits and water use. I reserve the right to withdraw this gas well permit request at any time upon written request filed with the Planning and Development Department.

Signatures:

_____	_____	_____	_____
Operator	Date	Property Owner	Date

The Property Owner(s) must sign the application or provide signatures on separate sheet.

SITE AND OPERATION INFORMATIONLease Name BC Associates/BC SouthStreet Address or Legal Description Abstract 1512, Tracts 4B, 6C, and 6C2Central Abstract: 1512 Survey Name Samuel Tucker Survey County TarrantNumber of Wells to be Permitted with this Application: 5

Well Information:

Well name BC Associates, Pad site _____ Well number 1HWell API: 42- 439 - 34901, RRC permit number 692233Abstract 1512, Survey Samuel Tucker County TarrantX-coordinate 2,132,433.912 Y-coordinate 437,794.287Well name BC Associates, Pad site _____ Well number 2HWell API: 42- 439 - 35132, RRC permit number 395938Abstract 1512, Survey Samuel Tucker County TarrantX-coordinate 2,132,411.406 Y-coordinate 437,764.297Well name BC Associates, Pad site _____ Well number 3HWell API: 42- 439 - 35133, RRC permit number 695939Abstract 1512, Survey Samuel Tucker County TarrantX-coordinate 2,132,403.917 Y-coordinate 437,794.295Well name BC Associates, Pad site _____ Well number 4HWell API: 42- 439 - 35134, RRC permit number 695940Abstract 1512, Survey Samuel Tucker County TarrantX-coordinate 2,132,426.405 Y-coordinate 437,764.293Wellhead(s) located within 600 feet of a Residential Structure,
Commercial Structure, Public Building, or Public Park, or Golf Course? Yes NoPad Site located in 100-year flood plain? Yes NoWill pipelines be installed on, across or under public property or right-of-way? Yes No No city ROW, but state ROW

City Staff to Fill in Case and Fees: COE Case Number _____ - _____ - CC

Fee Paid \$ _____

Receipt No. _____

Check No. _____

Staff Initials _____

SITE AND OPERATION INFORMATIONLease Name BC Associates/BC SouthStreet Address or Legal Description Abstract 1512, Tracts 4B, 6C, and 6C2Central Abstract: 1512 Survey Name Samuel Tucker Survey County TarrantNumber of Wells to be Permitted with this Application: 5

Well Information:

Well name BC South, Pad site _____ Well number 1HWell API: 42- 439 - 34788, RRC permit number 690306Abstract 1512, Survey Samuel Tucker County TarrantX-coordinate 2,132,418.913 Y-coordinate 437,794.291

Well name _____, Pad site _____ Well number _____

Well API: 42- _____ - _____, RRC permit number _____

Abstract _____, Survey _____ County _____

X-coordinate _____ Y-coordinate _____

Well name _____, Pad site _____ Well number _____

Well API: 42- _____ - _____, RRC permit number _____

Abstract _____, Survey _____ County _____

X-coordinate _____ Y-coordinate _____

Well name _____, Pad site _____ Well number _____

Well API: 42- _____ - _____, RRC permit number _____

Abstract _____, Survey _____ County _____

X-coordinate _____ Y-coordinate _____

Wellhead(s) located within 600 feet of a Residential Structure,
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City Staff to Fill in Case and Fees:

COE Case Number _____ - _____ - CC

Fee Paid \$ _____

Receipt No. _____

Check No. _____

Staff Initials _____

CHECKLISTS

INSTRUCTIONS: The City of Euless reviews each application partially based on the items on the following checklists. Each application must be accompanied by a gas well pad site plan or gas operations permit exhibit and supporting documents. The property owner/operator/applicant is encouraged to meet with a member of the City of Euless Staff to determine the extent of plans needed for review.

GENERAL SUBMITTAL REQUIREMENTS	
GAS WELL PAD SITE PERMIT	GAS WELL OPERATIONS PERMIT
<ol style="list-style-type: none"> 1. Completed, dated and signed application form. 2. Accurate legal description of the property to be used for gas operation. Property recorded by plat should reference subdivision, block and lot numbers. Unplatted property should reference abstract numbers and survey names and tract numbers if applicable. 3. All required Gas Well Pad Site Permit Fees. 4. List of names and addresses of every property owner of parcels within 1,000 feet from the proposed drilling pad site outer boundary. Provide a printed hard copy of this information as well as an MS Excel Spreadsheet or Comma Delimited File in digital format on transferable digital media. (CD-ROM 3.5" Floppy or email.) 5. Provide copies of all waivers obtained by the operator/property owner/applicant from all property owners of Residential Structures, Commercial Structures, and Public Buildings located within six hundred (600) feet of the all proposed wellheads. All waivers shall be signed by the property owner and notarized. 6. Seventy-two (72) hour ambient noise study – One (1) twenty four (24) hour day and one weekend day showing ambient levels and potential impact gas well pad site will have based on site conditions. Also show noise contours from the wellhead and effect on contours by any proposed noise mitigation steps to be taken by the operator. If required by the result of the ambient noise study a noise mitigation plan showing noised control elements and locations will be required. <p>Gas Well Pad Site Permit Site Plan Exhibit Requirements</p> <ol style="list-style-type: none"> 1. Plans must be drawn to a scale on a sheet size of ANSI B (11"X17"), ANSI C (18"X24"), ANSI D 	<ol style="list-style-type: none"> 1. Completed, dated and signed application form. 2. Notarized Statement: A notarized statement signed by the Operator, or designated representative, that the information submitted with the application is, within the personal knowledge of the operator or designated representative, true and correct. 3. All required Gas Well Operations Permit Fees. 4. Accurate legal description of the property to be used for gas operation. Property recorded by plat should reference subdivision, block and lot numbers. Unplatted property should reference abstract numbers and survey names and tract numbers if applicable. 5. Copy of Gas Well Pad Site Permit issued by the City of Euless (if approved – not required if permits are conducted concurrently) 6. Original Executed Road Damage Agreement. 7. Copy of the determination by Texas Commission on Environmental Quality (TCEQ) of the depth of usable quality groundwater. 7. Approved copy of the Railroad Commission Drilling Permit (W-1) and Pooling Certificate (P-12) for each well in this application. Provide copies of the attachments and reports required by the Commission that are applicable to the drilling and operations site. 8. Certified survey plat for the surface location, penetration point and bottom hole location of the well bore. Include the (X, Y) coordinate points in STATE PLANE, NAD83, NCT 4202 FEET projection and show the existing or proposed access routes to the pad sites. 9. Evidence of insurance and Security Requirements:

GENERAL SUBMITTAL REQUIREMENTS

GAS WELL PAD SITE PERMIT

(24"X36") or ANSI E (36"X48") Additionally please provide a digital copy of all plansets in Adobe PDF format. PDF files may be password protected to protect original vector images from use, but shall allow raster image copy for usage in presentations to the City Council if necessary. Provide digital information on a transferable digital media (CD-ROM, 3.5" Floppy, or email)

2. Names and addresses of current Property Owner of record and gas well Operator.
3. Name and address, telephone number and email address of the surveyor/engineer responsible for preparing the site plan.
4. Title block in lower right hand corner containing the name of the gas well(s) acreage of pad site and legal description of property on which the pad site is occurring.
5. Location map showing the tract by reference to streets or highways.
6. Date the site plan was prepared.
7. Written scale, graphic scale and north arrow.
8. Location and general outline of any Residential Structures, Commercial Structures, Public Buildings, Parks and Golf Courses within 1,000 feet of the gas well pad boundary.
9. Cross reference marks or numbering system to identify all property owners of Residential Structures, Commercial Structures, Public Buildings within six hundred (600) feet of the wellhead(s).
10. Location of City of Euless city limit boundary if applicable.
11. Location of all transportation routes to the gas well pad site, including the following: (1) a list of non-TxDOT public roads to be used; and the lengths in lane miles of each non TxDOT public roads to be used to access the site.
12. Location and dimensioning of existing or proposed driveways used to access the site. See

GAS WELL OPERATIONS PERMIT

- BOND OR LETTER OF CREDIT FOR SINGLE WELL – Principal amount of fifty thousand (\$50,000) dollars. See Article VII, Section 40-14 of the City of Euless Gas Well Drilling Ordinance for detail.
- BLANKET BOND OR LETTER OF CREDIT FOR MULTIPLE WELLS – Principal amount of one hundred fifty thousand (\$150,000) dollars for the first five (5) wells and an additional fifty thousand (\$50,000) dollars for each additional well. See Article VII, Section 40-14 of the City of Euless Gas Well Drilling Ordinance for detail.
- INSURANCE – Policies must be written by the insurer with A- class VIII or better rating by most current version of the A.M. Best Key Rating Guide. The following minimum coverages are for reference only:
 - Standard Commercial General Liability Policy – Combined Single Limit of \$1,000,000.
 - Excess or Umbrella Liability - \$5,000,000 if Operator has stand-alone EPL policy; \$10,000,000 if Operator does not have stand-alone EPL Policy.
 - Environmental Pollution Liability Coverage - \$1,000,000 per loss, annual aggregate of \$10,000,000.
 - Control of Well - \$5,000,000 per occurrence/ no aggregate or \$10,000,000 aggregate.
 - Workers Compensation and Employers Liability – Texas statutory limits on Worker’s Compensation \$500,000 per accident Employer’s Liability.
 - Automobile Liability – Combined Single Limit of \$1,000,000 for bodily injury and property damage.
- All policies shall be endorsed to read: THIS

GENERAL SUBMITTAL REQUIREMENTS	
GAS WELL PAD SITE PERMIT	GAS WELL OPERATIONS PERMIT
<p>Section 40-8(C-11) for additional information.</p> <ol style="list-style-type: none"> 13. Location, type and height of any fencing proposed to be used for the security of the gas well pad site during drilling operations. Note: a separate fence permit will be required prior to installation. 14. Location and dimension of access gate. 15. Preliminary gas well pad site layout showing the exact locations of proposed wellhead(s) and preliminary locations of any drilling, storage, and support equipment to be utilized on site. This information is only required to determine if gas well pad site will accommodate required production facility setback requirements. 16. Impacted existing vegetation, including the removal of existing trees. 17. Creeks and other topographic information including the limits of 100 year floodplain. 18. Erosion control plan, Clearing and grading plan prepared by a licensed civil engineer for the site showing final drilling pad elevation. The plan shall meet the approval of the City Engineer. 19. Post-drilling production pad fencing location, type of fencing and landscape plan. Landscape plan will include a table outlining plant material species type and number, square footage of landscaped areas and notes regarding any proposed irrigation measures. 20. Show location of any fresh water ponds. Include dimensions, grading, lining plans and any potential pump/line locations servicing gas well pad sites. <p>Extra Exhibits:</p> <ol style="list-style-type: none"> 8. FEMA Map 9. TxDOT Plans 10. FAA Determination 11. Surface Use Plat 12. EADUE Access Easement 	<p>POLICY WILL NOT BE CANCELLED OR NON-RENEWED WITHOUT THIRTY (30) DAYS ADVANCED WRITTEN NOTICE TO THE OWNER AND THE CITY EXCEPT WHEN THIS POLICY IS BEING CANCELLED FOR NONPAYMENT OF PREMIUM, IN WHICH CASE TEN (10) DAYS ADVANCE WRITTEN NOTICE IS REQUIRED.</p> <ol style="list-style-type: none"> 10. Completed Water Needs Questionnaire (included in application packet) <p>Gas Well Operations Permit Site Plan Exhibit Requirements</p> <ol style="list-style-type: none"> 1. Plans must be drawn to a scale on a sheet size of ANSI B (11"X17"), ANSI C (18"X24"), ANSI D (24"X36") or ANSI E (36"X48") 2. Names and addresses of current Property Owner of record and gas well Operator. 3. Name and address, telephone number and email address of the surveyor/engineer responsible for preparing the site plan. 4. Title block in lower right hand corner containing the name of the gas well(s) acreage of pad site and legal description of property on which the pad site is occurring. 5. Location map showing the tract by reference to streets or highways. 6. Date the site plan was prepared. 7. Written scale, graphic scale and north arrow. 8. Detailed drawing showing wellhead(s) location, and providing the specific location of all facilities and equipment for the drilling and production phases of the gas well operations. Include dimensioning of all required setbacks of equipment from wellheads and surrounding structures as required in Section 40-15 (B). 9. A description of public utilities required during drilling and operation phases of the development. 10. Location of all existing and proposed

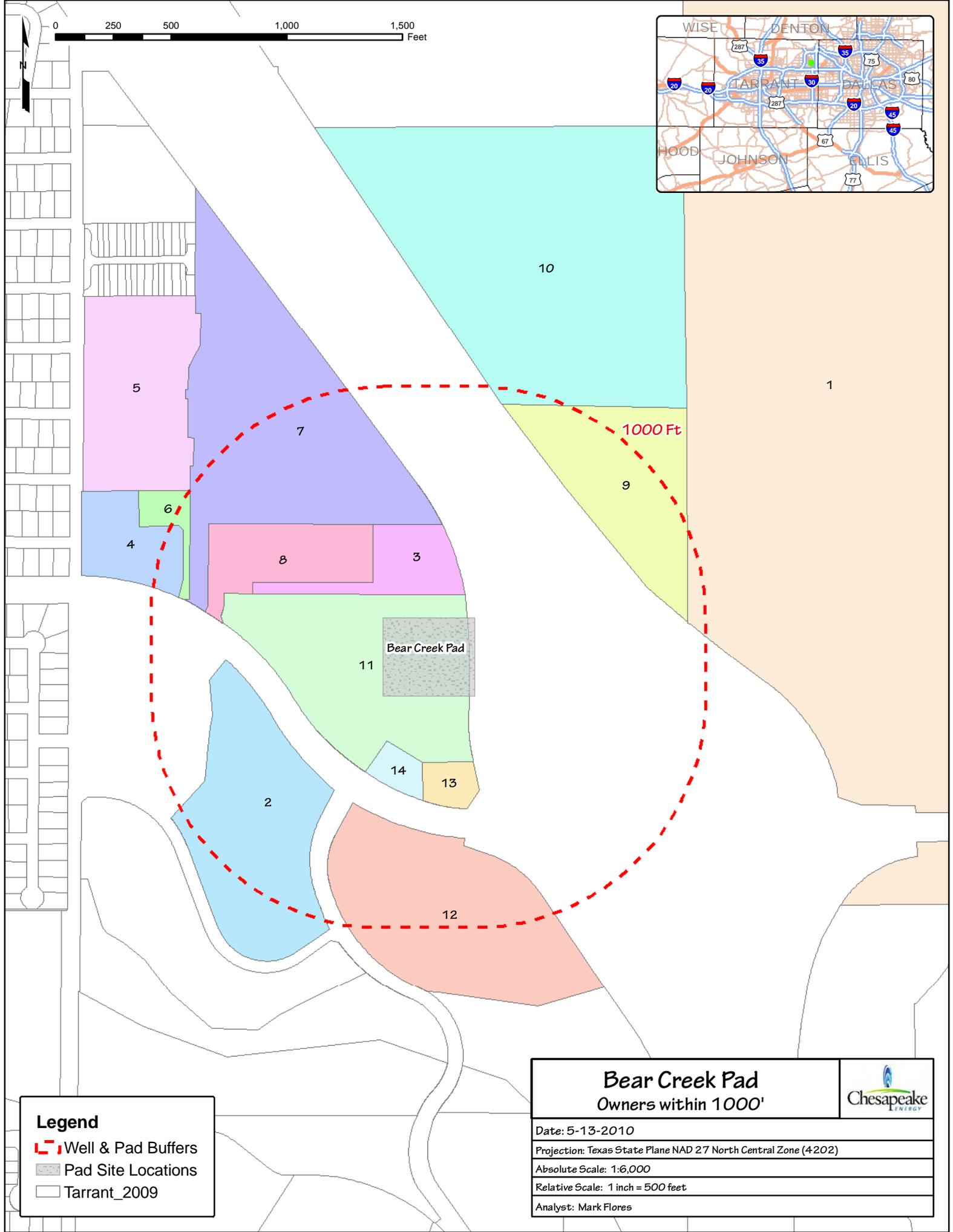
GENERAL SUBMITTAL REQUIREMENTS	
GAS WELL PAD SITE PERMIT	GAS WELL OPERATIONS PERMIT
	<p>underground pipelines on or adjacent to the site. Note: all pipelines located within the public right-of-way requires separate approval and a right-of-way use agreement.</p> <p>11. Response letter to Supplemental Technical Requirements Checklist (Provided in this application packet) to include appropriate responses by the Applicant/Operator/Property owner where required.</p> <p>Emergency and Hazardous Materials Plans</p> <p>1. Emergency Response Plan: Submit to the Fire Marshal (817) 685-1659 and Director of Planning and Development (817) 685-1684 an emergency response plan establishing written procedures to minimize any hazard resulting from drilling, completion or producing of gas wells</p> <p>2. Hazardous Materials Management Plan (HMMP) shall be on file with the Fire Marshal and the Director of Planning and additionally, all Material Safety Data Sheets (MSDS) for all hazardous materials that will be located, stored, transported and/or temporarily used on the operations site.</p>



Exhibit 2

Legal Description

13.8718 Acres located in the Samuel Tucker Survey, Abstract 1512, Tracts 4B, 6C, and 6C2.



Legend

- Well & Pad Buffers
- Pad Site Locations
- Tarrant_2009

Bear Creek Pad Owners within 1000'		
Date: 5-13-2010		
Projection: Texas State Plane NAD 27 North Central Zone (4202)		
Absolute Scale: 1:6,000		
Relative Scale: 1 inch = 500 feet		
Analyst: Mark Flores		



**Surface Owners of Property Within 1000 Feet Of
Bear Creek Pad**

Source: Tarrant County Appraisal District

5/13/2010

Map Label	Georeference ID	Owner Name	Owner Address	Owner City	Owner Zip	Physical Address	Legal 1	Legal 2	Legal 3
1	A 477-1	Fort Worth, City Of (Airport)	1000 Throckmorton St	Fort Worth Tx	76102	000001 Dfw Airport	Everard, Patrick Survey	Abst 477 Trs 1 Thru 2A &	Trs 4 Thru 8 & 8B Thru 8E
2	44715-1-2	Oakmont Of Bear Creek Lip	8120 Penn Ave S Ste 556	Minneapolis Mn	55431	000000 Bear Creek Pkwy	Villages Of Bear Creek Addn	Blk 1 Lot 2	
3	44715-2-3	Bear Creek Associates Iv	24012 Calle De La Plata #460	Laguna Hills Ca	92653	000000 Mid-Cities Blvd E	Villages Of Bear Creek Addn	Blk 2 Lot 3	
4	44715-2-1RA	Bear Creek Centers Ltd	727 S Floyd Rd	Richardson Tx	75080	002390 Fuller Wiser Rd	Villages Of Bear Creek Addn	Blk 2 Lot 1Ra	
5	44715-2-5	Udr The Mandolin Llc	PO Box 06408	Chicago Il	60606	002525 State Hwy 360	Villages Of Bear Creek Addn	Blk 2 Lot 5	
6	44715-2-1RB	Realty Income Texas Prop Lp	PO Box 460069	Escondido Ca	92046	002440 Fuller Wiser Rd	Villages Of Bear Creek Addn	Blk 2 Lot 1Rb	
7	44715-2-4	Udr The Mandolin Llc	PO Box 06408	Chicago Il	60606	002525 State Hwy 360	Villages Of Bear Creek Addn	Blk 2 Lot 4	
8	44715-2-2	Bear Creek Storage Partners	PO Box 320099	Alexandria Va	22320	000701 Mid-Cities Blvd E	Villages Of Bear Creek Addn	Blk 2 Lot 2	
9	A1512-4D	Fort Worth & Dallas Cities Of	1000 Throckmorton St	Fort Worth Tx	76102	000000 State Hwy 360	Tucker, Samuel Survey	A1512 Tr 4D	
10	A1512-3	Fort Worth & Dallas Cities Of	1000 Throckmorton St	Fort Worth Tx	76102	000000 State Hwy 360	Tucker, Samuel Survey	A 1512 Tr 3	
11	A1512-4B	Chesapeake Land Dev Co Llc	6100 N Western Ave	Oklahoma City Ok	73118	000000 Mid-Cities Blvd W	Tucker, Samuel Survey	A1512 Trs 4B 6C & 6C2	
12	44715-5-1	Sunstone Fountainwood Lp	6259 Preston Rd Ste 100	Plano Tx	75024	000750 Mid-Cities Blvd E	Villages Of Bear Creek Addn	Blk 5 Lot 1	
13	44715-2-7	Rader, Homer J Jr	12342 Inwood Rd	Dallas Tx	75244	000901 Mid-Cities Blvd E	Villages Of Bear Creek Addn	Blk 2 Lot 7	
14	44715-2-8	Paran Vision Investment Inc	-801 E Mid Cities Blvd	Euless Tx	76039	000801 Mid-Cities Blvd E	Villages Of Bear Creek Addn	Blk 2 Lot 8	



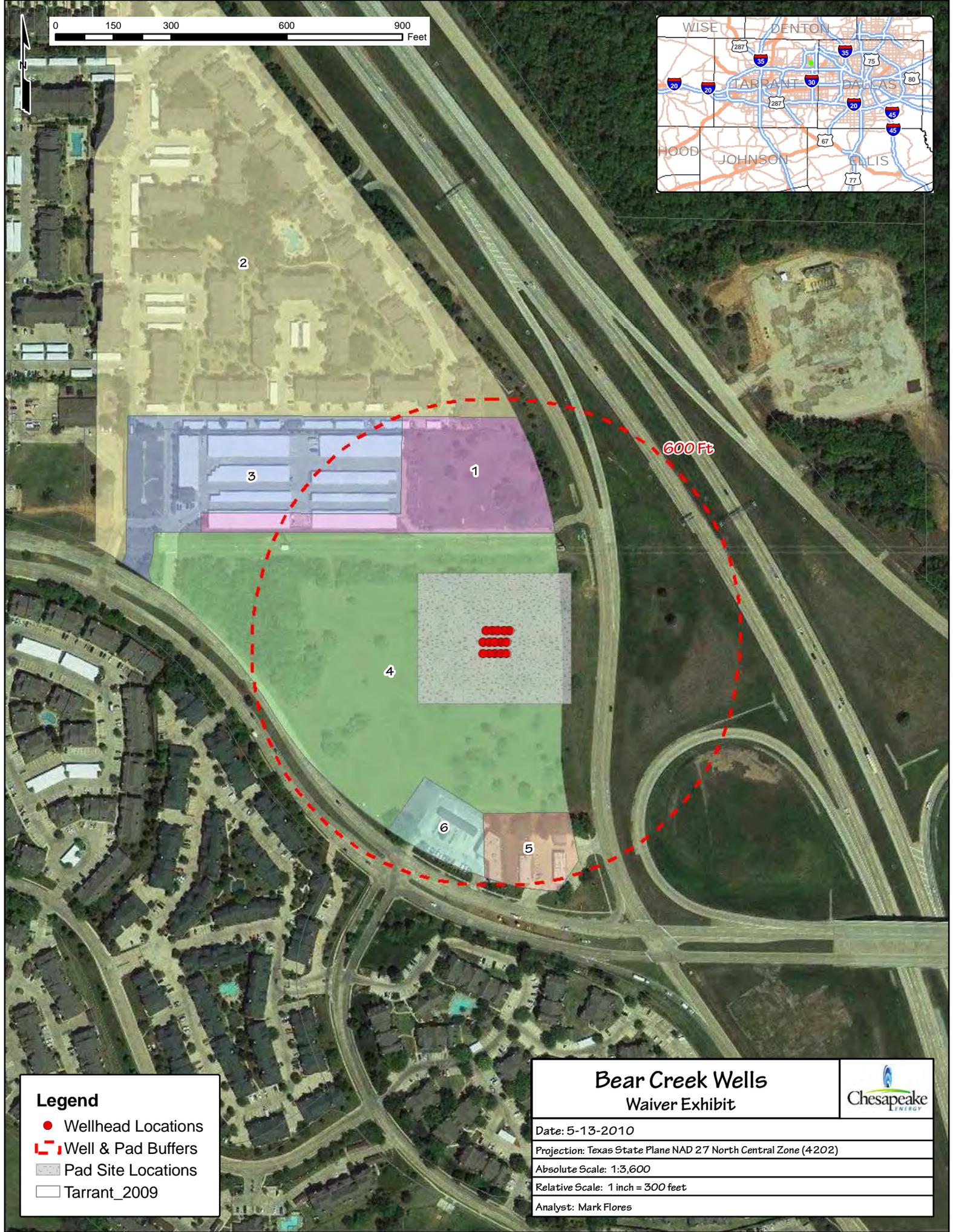
1000 Ft

Bear Creek Pad

Legend

- Well & Pad Buffers
- Pad Site Locations

<h3 style="margin: 0;">Bear Creek Pad</h3> <p style="margin: 0;">Structures within 1000'</p>	
Date: 5-13-2010	
Projection: Texas State Plane NAD 27 North Central Zone (4202)	
Absolute Scale: 1:4,800	
Relative Scale: 1 inch = 400 feet	
Analyst: Mark Flores	

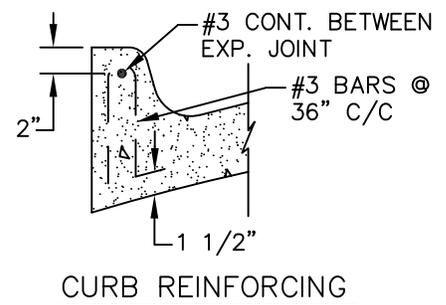
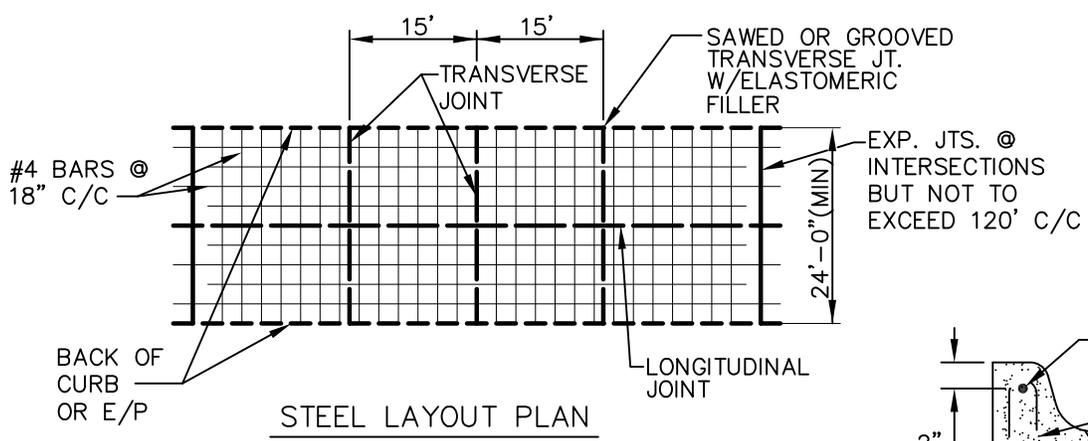
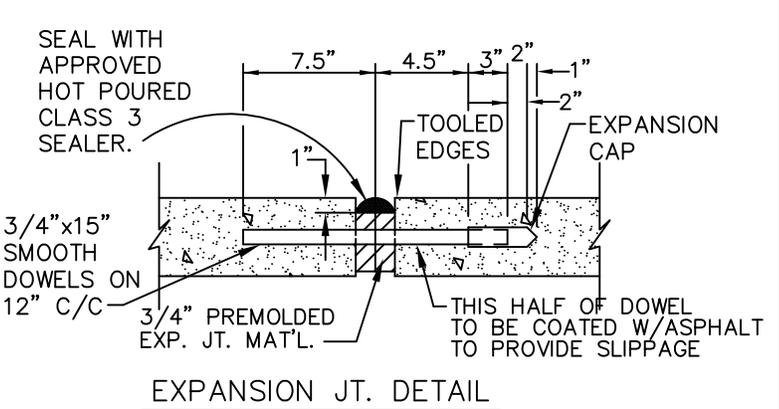
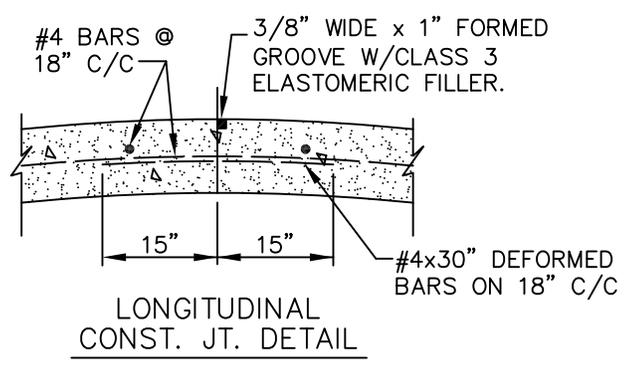
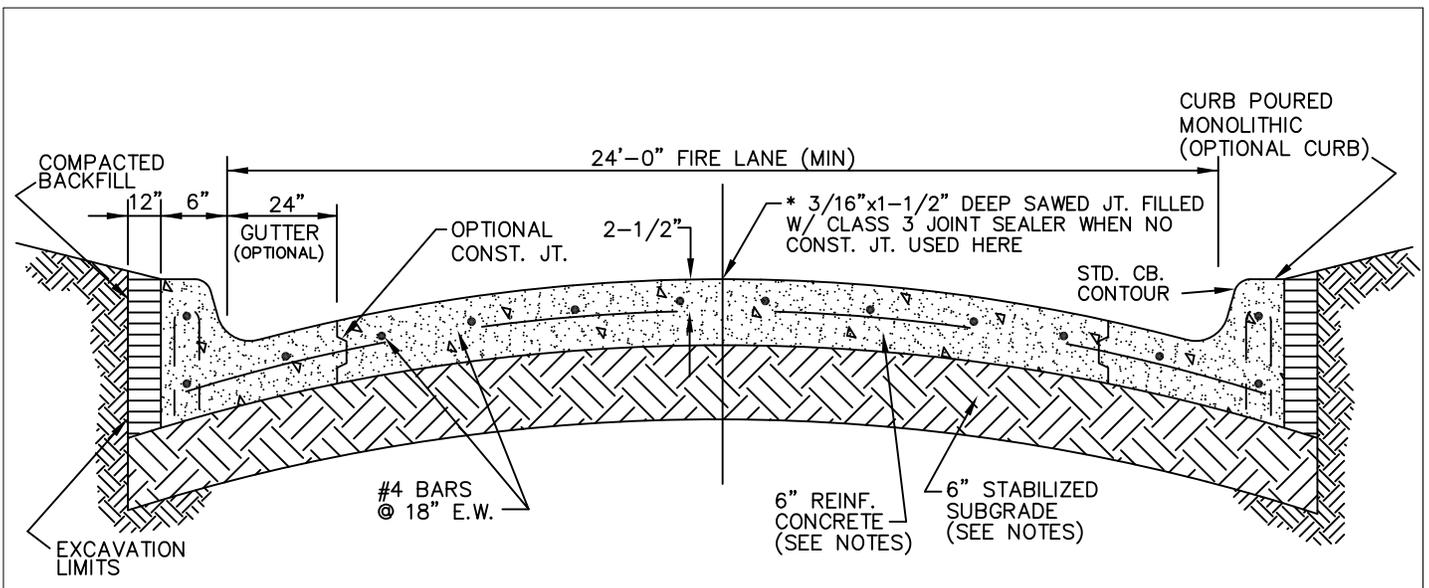


600 Ft

Legend

- Wellhead Locations
- ▭ Well & Pad Buffers
- ▭ Pad Site Locations
- ▭ Tarrant_2009

Bear Creek Wells Waiver Exhibit		
Date: 5-13-2010		
Projection: Texas State Plane NAD 27 North Central Zone (4202)		
Absolute Scale: 1:3,600		
Relative Scale: 1 inch = 300 feet		
Analyst: Mark Flores		

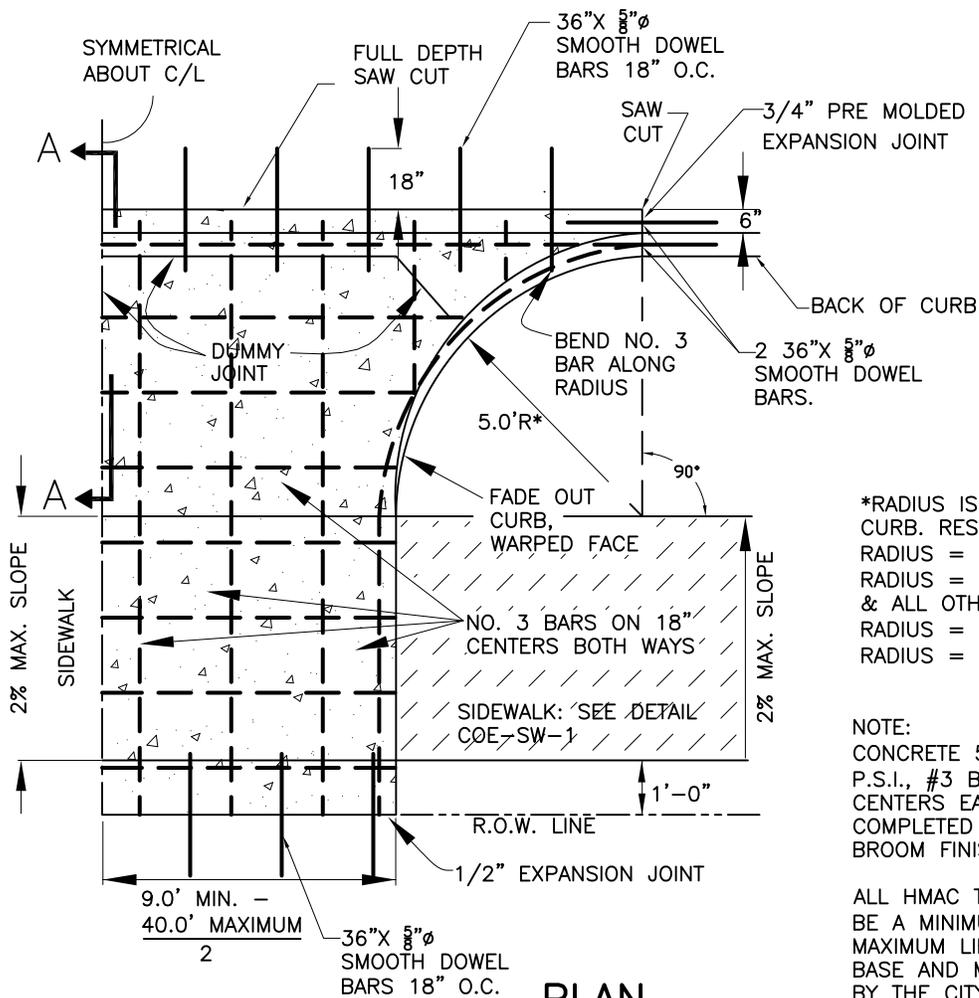


NOTES:
 CONCRETE PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4200 PSI AT 28 DAYS.
 SECTION MAY BE CROWNED (PARABOLIC OR STRAIGHT); INVERTED; OR HAVE A STRAIGHT CROSS SLOPE. MAXIMUM CROSS SLOPE IS 6%. MAXIMUM LONGITUDINAL GRADE IS 6%.

MIN. OF 30 LBS/S.Y. LIME OR CEMENT REQUIRED FOR SUB- GRADE STABILIZATION. COMPACTION TO 95% STANDARD STANDARD PROCTOR DENSITY, AND HAVE A MOISTURE CONTENT FROM 0% TO +4% ABOVE OPTIMUM MOISTURE.

EMERGENCY ACCESS AND FIRE LANE EASEMENT TYPICAL PAVEMENT SECTION

CITY OF EULESS

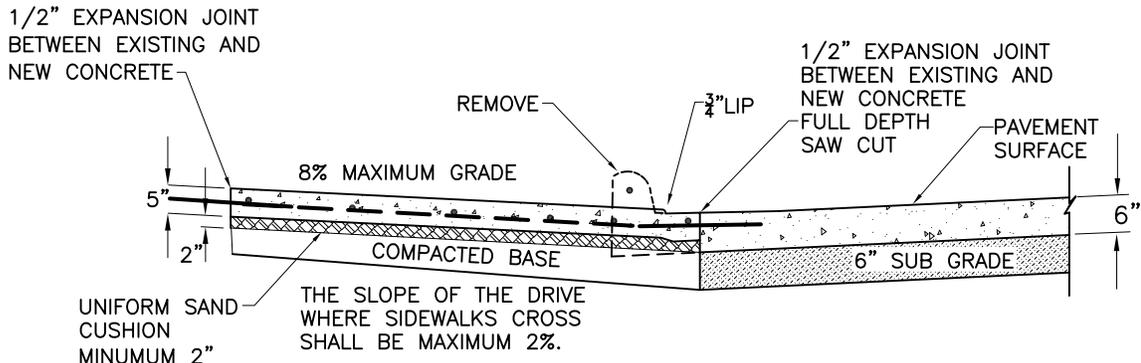


*RADIUS IS TO BACK OF CURB. RESIDENTIAL: MINIMUM RADIUS = 5.0' MAXIMUM RADIUS = 15.0' COMMERCIAL & ALL OTHERS: MINIMUM RADIUS = 15.0' MAXIMUM RADIUS = 30.0'

NOTE:
 CONCRETE 5" THICK, 3000 P.S.I., #3 BARS @ 18" CENTERS EACH WAY. COMPLETED WITH A LIGHT BROOM FINISH.

ALL HMAC TRANSITIONS SHALL BE A MINIMUM OF 30", 2" MAXIMUM LIFTS, HAVE STABLE BASE AND MUST BE APPROVED BY THE CITY INSPECTOR.

PLAN



SECTION A-A

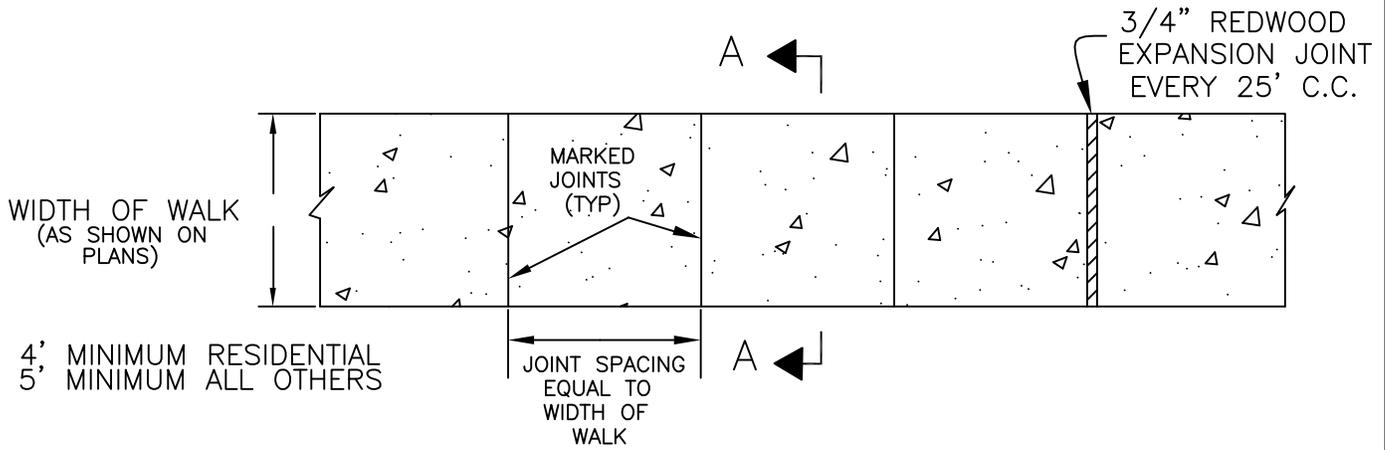
TYPICAL DRIVE APPROACH

STREET PAVING DETAILS

CITY OF EULESS

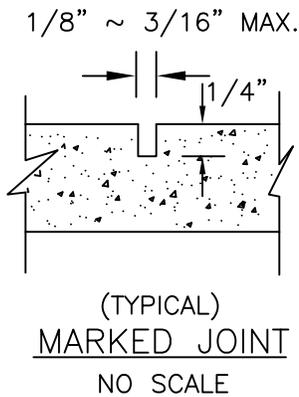
COE-SP-1

1/10



TYPICAL PLAN ~ SIDEWALK

- NO SCALE -

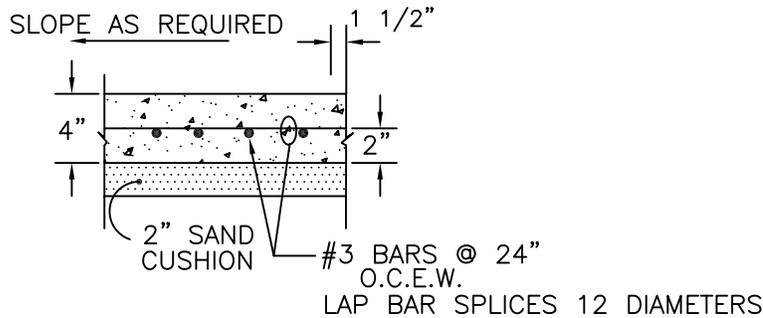


3/4" x 1/2" DEEP JOINT SEAL WITH ELASTOMERIC SEALANT



1/2" DIA. SMOOTH DOWEL
24" LONG @ 24" O.C.
THROUGH EXPANSION JOINT

EXPANSION JOINT
NO SCALE



SECTION A-A
NO SCALE

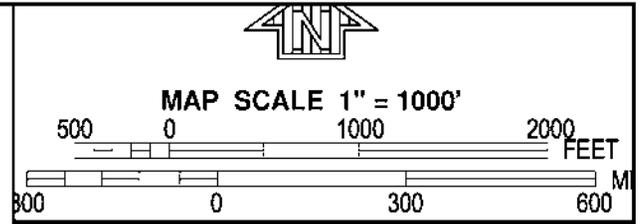
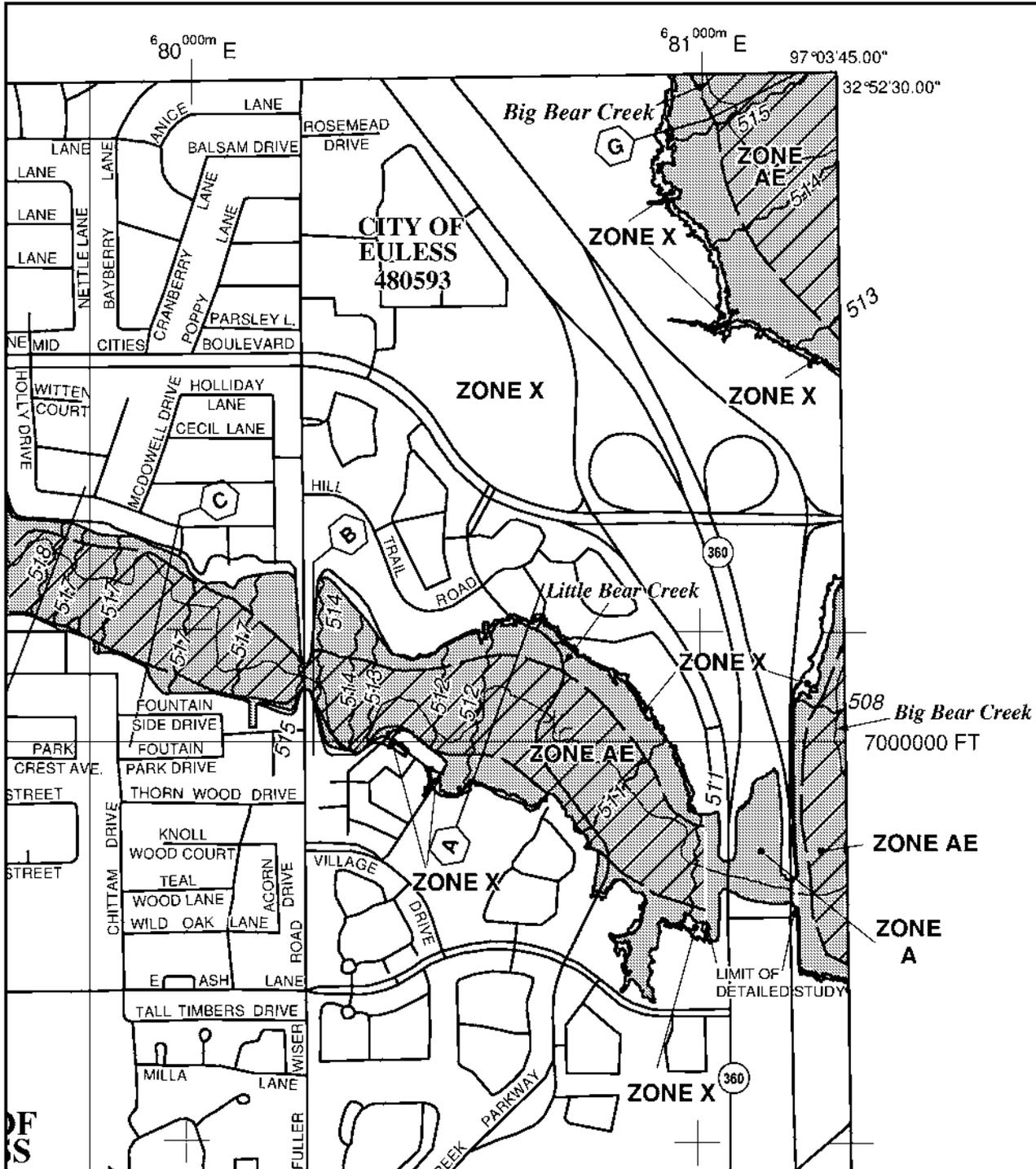
NOTES:

1. ALL CONCRETE SHALL BE CLASS "A" (3000 PSI) AT 28 DAYS.
2. TYPE 2 WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO ALL SIDEWALK.
3. SIDEWALK SHALL RECEIVE A LIGHT BROOM FINISH.
4. INSTALL 1/2" ASPHALT BOARD EXPANSION JOINT FILLER BETWEEN SIDEWALK AND BACK OF CURB OR OTHER FIXED OBJECTS.
5. WHERE NEW SIDEWALK TIES TO OLD OR EXISTING SIDEWALK AT OTHER THAN AN EXISTING EXPANSION JOINT, THE EXISTING REINFORCING STEEL SHALL BE TIED TO THE NEW REINFORCING STEEL.

TYPICAL SIDEWALK PLAN

CITY
OF
EULESS

AMENDED JOINT PLACEMENT 6/01
COE-SW-1 1/01



PANEL 0230K

**FIRM
FLOOD INSURANCE RATE MAP
TARRANT COUNTY,
TEXAS
AND INCORPORATED AREAS**

PANEL 230 OF 495
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
TARRANT COUNTY	480582	0230	K
ARLINGTON, CITY OF	485454	0230	K
BEDFORD, CITY OF	480585	0230	K
COLLEYVILLE, CITY OF	480590	0230	K
EULESS, CITY OF	480593	0230	K
FORT WORTH, CITY OF	480596	0230	K

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER
48439C0230K
MAP REVISED
SEPTEMBER 25, 2009**


Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
1/7/2010

PRODUCER (405)235-6633 FAX: (405)235-6634
Meyers-Reynolds & Associates Inc.
 1230 N. Robinson Ave
 Oklahoma City OK 73103-4820
 n.wood@mraains.com

INSURED
Chesapeake Operating, Inc.
 P O Box 18496
 Oklahoma City OK 73154-0496

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Liberty Mutual Insurance	23043
INSURER B: AEGIS	
INSURER C: Und @ Lloyd's of London	
INSURER D: American Int'l Group	
INSURER E: Colony Insurance Co.	39993

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
E		GENERAL LIABILITY	AR6460514	7/1/2009	7/1/2010	EACH OCCURRENCE \$ 2,000,000
		<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence) \$
		<input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR				MED EXP (Any one person) \$
		<input checked="" type="checkbox"/> Excess of Self				PERSONAL & ADV INJURY \$
		Insured \$1,000,000				GENERAL AGGREGATE \$
		GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS - COMP/OP AGG \$
		<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				
A		AUTOMOBILE LIABILITY	AS1-691-522861-039	7/1/2009	7/1/2010	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
		<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$
		<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
		<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident) \$
E		<input type="checkbox"/> HIRED AUTOS	AR6460514	7/1/2009	7/1/2010	
		<input type="checkbox"/> NON-OWNED AUTOS				
		<input checked="" type="checkbox"/> Excess of \$1,000,000				
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT \$
		<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC \$
						AUTO ONLY: AGG \$
B		EXCESS/UMBRELLA LIABILITY	XO630A1A09	7/1/2009	7/1/2010	EACH OCCURRENCE \$ 5,000,000
		<input type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CLAIMS MADE				AGGREGATE \$
		<input type="checkbox"/> DEDUCTIBLE				\$
		<input type="checkbox"/> RETENTION \$				\$
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	SELF INSURED STATE OF OK	7/1/2009	7/1/2010	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	WAL-69D-522861-069			E.L. EACH ACCIDENT \$ 1,000,000
		If yes, describe under SPECIAL PROVISIONS below	(ALL OTHER STATES)			E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
						E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C		OTHER	205459	7/1/2009	7/1/2010	CSL 10,000,000
		Control of Well				CCC SUB Limit 2,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS
 D) Pollution Liability; Policy #PLC6207816; Term 7/1/2009 to 7/1/2010 Limits \$10,000,000 each incident, \$10,000,000 aggregate.

CERTIFICATE HOLDER

City of Euless
Planning and Development Department
 201 N Ector
 Euless, TX 76039

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL **30** DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
 Mark Bush/MANDY *Mark W. Bush*

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.



CONTINUATION CERTIFICATE

Liberty Mutual Surety
1001 4th Avenue
Suite 1700
Seattle, WA 98154

SAFECO INSURANCE COMPANY OF AMERICA

Seattle, Washington, Surety upon

a certain Bond No. 6543792

dated effective 04/21/2008
(MONTH-DAY-YEAR)

on behalf of CHESAPEAKE OPERATING, INC.
(PRINCIPAL)

and in favor of CITY OF EULESS, TX
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 04/21/2009
(MONTH-DAY-YEAR)

and ending on 04/21/2010
(MONTH-DAY-YEAR)

Amount of bond ONE HUNDRED FIFTY THOUSAND DOLLARS (\$150,000)

Description of bond PERFORMANCE BOND-DRILLING, OPERATION AND THE CORPORATION TO COMPENSATE THE CITY FOR THE MAINTENANCE & DAMAGE REMEDIATION

Premium: \$1,200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on February 20, 2009
(MONTH-DAY-YEAR)

SAFECO INSURANCE COMPANY OF AMERICA

By Timothy A. Mikolajewski
TIMOTHY A. MIKOLAJEWSKI, VICE PRESIDENT



PERFORMANCE BOND

Bond No. 6543792

KNOW ALL MEN BY THESE PRESENTS, that we, Chesapeake Operating, Inc., as Principal, and Safeco Insurance Company of America, licensed to do business in the State of Texas, as Surety, are held and firmly bound unto the City of Euless, Texas (Obligee), in the penal sum of One Hundred Fifty Thousand and No/100 Dollars (\$ 150,000.00), lawful money of the United States of America, for the payment of which sum, well and truly to be made, the Principal and Surety do bind themselves, their heirs, executors, administrators, and successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the above bounden Principal has entered into a certain written Road Use and Repair Agreement with the above named Obligee the 21st day of April, 2008, for drilling, operating and the Corporation to compensate the City for the maintenance and damage remediation of such roadways for the duration of the term the Agreement in consideration for Corporation's use of such roadways and more fully described in said Agreement, a copy of which is attached, which Agreement is made a part hereof and incorporated herein by reference, except that nothing said therein shall alter, enlarge, expand or otherwise modify the term of the bond as set out below.

NOW, THEREFORE, if Principal, its executors, administrators, successors and assigns shall promptly and faithfully perform the Agreement, according to terms, stipulations or conditions thereof, then this obligation shall become null and void, otherwise to remain in full force and effect. This bond is executed by the Surety and accepted by the Obligee subject to the following express condition:

Notwithstanding the provisions of the Contract, the term of this bond shall apply from April 21, 2008, until April 21, 2009, and may be extended by the Surety by Continuation Certificate. However, neither nonrenewal by the Surety, nor the failure or inability of the Principal to file a replacement bond in the event of nonrenewal, shall itself constitute a loss to the obligee recoverable under this bond or any renewal or continuation thereof. The liability of the Surety under this bond and all continuation certificates issued in connection therewith shall not be cumulative and shall in no event exceed the amount as set forth in this bond or in any additions, riders, or endorsements properly issued by the Surety as supplements as set forth in this bond or in any additions, riders, or endorsements properly issued by the Surety as supplements thereto.

Sealed with our seals and dated this 21st day of April, 2008.

Witness Stephanie Corp

Witness [Signature]

Chesapeake Operating, Inc.
(Principal)
By [Signature]
Safeco Insurance Company of America
(Surety)

By [Signature]
Stacy L. Roberts, Attorney-in-Fact





POWER OF ATTORNEY

Safeco Insurance Companies of America
Safeco Plaza
Seattle, WA 98185

No. 13359

KNOW ALL BY THESE PRESENTS:

That SAFECO INSURANCE COMPANY OF AMERICA, a Washington corporation, does hereby appoint

*****STACY L. ROBERTS; Oklahoma City, Oklahoma*****

its true and lawful attorney(s)-in-fact, with full authority to execute on behalf of the company fidelity and surety bonds or undertakings and other documents of a similar character issued in the course of its business, and to bind SAFECO INSURANCE COMPANY OF AMERICA thereby as fully as if such instruments had been duly executed by its regularly elected officers at its home office.

IN WITNESS WHEREOF, SAFECO INSURANCE COMPANY OF AMERICA has executed and attested these presents

this 29th day of January, 2008

STEPHANIE DALEY-WATSON, SECRETARY

TIM MIKOLAJEWSKI, SENIOR VICE-PRESIDENT, SURETY

CERTIFICATE

Extract from the By-Laws of SAFECO INSURANCE COMPANY OF AMERICA:

"Article V, Section 13. - FIDELITY AND SURETY BONDS ... the President, any Vice President, the Secretary, and any Assistant Vice President appointed for that purpose by the officer in charge of surety operations, shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the company in the course of its business... On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

Extract from a Resolution of the Board of Directors of SAFECO INSURANCE COMPANY OF AMERICA adopted July 28, 1970.

"On any certificate executed by the Secretary or an assistant secretary of the Company setting out,

- (i) The provisions of Article V, Section 13 of the By-Laws, and
- (ii) A copy of the power-of-attorney appointment, executed pursuant thereto, and
- (iii) Certifying that said power-of-attorney appointment is in full force and effect,

the signature of the certifying officer may be by facsimile, and the seal of the Company may be facsimile thereof."

I, Stephanie Daley-Watson, Secretary of SAFECO INSURANCE COMPANY OF AMERICA, do hereby certify that the foregoing extracts of the By-Laws and of a Resolution of the Board of Directors of this corporation, and of a Power of Attorney issue pursuant thereto, are true and correct, and that both the By-Laws, the Resolution and the Power of Attorney are still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of said corporation

this 21st day of April, 2008



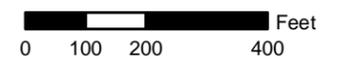
STEPHANIE DALEY-WATSON, SECRETARY

**Bear Creek Pad
Connect to CLM 24
Existing Pipeline
via
Bear Creek Pad Lateral**

03/01/2010



- Pads**
-  Development
 -  Existing
- Pipeline Status**
-  Active
 -  Development
-  Affected Parcels



Notice: This information is based on information provided by third parties and/or from information available to the public and not from the applicant. This information has not been field verified and is subject to change pending verification in the field. The applicant is not responsible for the accuracy of the information as to the exact location of pipelines and/or facilities

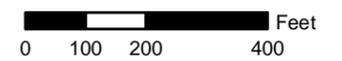


**Bear Creek Pad
Connect to CLM 24
Existing Pipeline
via
Bear Creek Pad Lateral**

03/01/2010



- Pads**
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- Pipeline Status**
-  Active
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D. Indemnification and Express Negligence Provisions

Each Gas Well Operations Permit issued by the City shall include the following language: "OPERATOR DOES HEREBY EXPRESSLY RELEASE AND DISCHARGE ALL CLAIMS, DEMANDS, ACTIONS, JUDGMENTS, AND EXECUTIONS WHICH IT EVER HAD, OR NOW HAS OR MAY HAVE, OR ASSIGNS MAY HAVE, OR CLAIM TO HAVE, AGAINST THE CITY OF EULESS, AND/OR ITS DEPARTMENTS, AGENTS, OFFICERS, SERVANTS, SUCCESSORS, ASSIGNS, SPONSORS, VOLUNTEERS, OR EMPLOYEES, CREATED BY, OR ARISING OUT OF PERSONAL INJURIES, KNOWN OR UNKNOWN, AND INJURIES TO PROPERTY, REAL OR PERSONAL, OR IN ANY WAY INCIDENTAL TO OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK PERFORMED BY THE OPERATOR UNDER A GAS WELL PERMIT. THE OPERATOR SHALL FULLY DEFEND, PROTECT, INDEMNIFY, AND HOLD HARMLESS THE CITY OF EULESS, TEXAS, ITS DEPARTMENTS, AGENTS, OFFICERS, SERVANTS, EMPLOYEES, SUCCESSORS, ASSIGNS, OR SPONSORS, OR VOLUNTEERS FROM AND AGAINST EACH AND EVERY CLAIM, DEMAND, OR CAUSE OF ACTION AND ANY AND ALL LIABILITY, DAMAGES, OBLIGATIONS, JUDGMENTS, LOSSES, FINES, PENALTIES, COSTS, FEES, AND EXPENSES INCURRED IN DEFENSE OF THE CITY OF EULESS, TEXAS, ITS DEPARTMENTS, AGENTS, OFFICERS, SERVANTS, OR EMPLOYEES, INCLUDING, WITHOUT LIMITATION, PERSONAL INJURIES AND DEATH IN CONNECTION THEREWITH WHICH MAY BE MADE OR ASSERTED BY OPERATOR, ITS AGENTS, ASSIGNS, OR ANY THIRD PARTIES ON ACCOUNT OF, ARISING OUT OF, OR IN ANY WAY INCIDENTAL TO OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK PERFORMED BY THE OPERATOR UNDER A GAS WELL OPERATIONS PERMIT. THE OPERATOR AGREES TO INDEMNIFY AND HOLD HARMLESS THE CITY OF EULESS, TEXAS, ITS DEPARTMENTS, ITS OFFICERS, AGENTS, SERVANTS, EMPLOYEES, SUCCESSORS, ASSIGNS, SPONSORS, OR VOLUNTEERS FROM ANY LIABILITIES OR DAMAGES SUFFERED AS A RESULT OF CLAIMS, DEMANDS, COSTS, OR JUDGMENTS AGAINST THE CITY OF EULESS, ITS DEPARTMENTS, ITS OFFICERS, AGENTS, SERVANTS, OR EMPLOYEES, CREATED BY, OR ARISING OUT OF THE ACTS OR OMISSIONS OF THE CITY OF EULESS OCCURRING ON THE DRILL SITE OR OPERATION SITE IN THE COURSE AND SCOPE OF INSPECTING AND PERMITTING THE GAS WELLS INCLUDING, BUT NOT LIMITED TO, CLAIMS AND DAMAGES ARISING IN WHOLE OR IN PART FROM THE NEGLIGENCE OF THE CITY OF EULESS OCCURRING ON THE DRILL SITE OR OPERATION SITE IN THE COURSE AND SCOPE OF INSPECTING AND PERMITTING THE GAS WELLS. IT IS UNDERSTOOD AND AGREED THAT THE INDEMNITY PROVIDED FOR IN THIS SECTION IS AN INDEMNITY EXTENDED BY THE OPERATOR TO INDEMNIFY AND PROTECT THE CITY OF EULESS, TEXAS, AND/OR ITS DEPARTMENTS, AGENTS, OFFICERS, SERVANTS, OR EMPLOYEES FROM THE CONSEQUENCES OF THE NEGLIGENCE OF THE CITY OF EULESS, TEXAS, AND/OR ITS DEPARTMENTS, AGENTS, OFFICERS, SERVANTS, OR EMPLOYEES, WHETHER THAT NEGLIGENCE

IS THE SOLE OR CONTRIBUTING CAUSE OF THE RESULTANT INJURY,
DEATH, AND/OR DAMAGE."


Operator's Authorized Representative

The Operator shall sign this Release and Indemnity agreement before issuance
of a Gas Well Operations Permit.

Addendum

Chesapeake will comply with the notification requirements set forth in Section 40-13 regarding Periodic Reports in the City of Euless Gas Drilling Ordinance 1852. This is specifically related to Section E: Requirements to Report Emergencies.

APPROVAL

“Temporary Water Line Request”

STALLION WATERLINE
MIKE FONGERS
301 COMMERCE ST STE 2850
FORT WORTH, TX 76102
817-682-0802
mfongers@sofs.cc

Approval #: TW-220-054-09
Hwy. No. SH 360
Maint. Section No. 09
County: N TARRANT
Date: 11/19/2009

The Texas Department of Transportation (TxDOT) offers no objection to the location on the right-of-way of your proposed **(3) 10"** temporary water line(s) (see attached details) shown by accompanying drawings and notice dated **11/17/09** except as noted below: **THESE LINES SHALL BE SECURED TOGETHER AND AGAINST THE ROW LINE!! (CUSTOMER MET WITH INSPECTOR AND HE APPROVED THESE LINES)**

Water guards shall be used to cross driveways (along right of way line). There shall be no water lines placed through driveway culverts.

- It shall be the responsibility of the gas company to mow and maintain the right of way area where temporary waterlines are installed, for the complete period of the time the lines are in place.
- Temporary water lines, 3" to 6", shall be installed & remain within the first foot of the outside right of way line. No more than two 10" inch lines shall be installed & remain within the first three feet of the outside right of way line.
- Culverts used for road crossings shall be 24" in diameter for 3" to 6" temporary water lines and 36" or larger for 10" line and shall not occupy more than two lines.
- All culverts shall be free and clear of all debris before installing temporary water lines and shall be kept free and clear during occupancy by temporary water lines.
- Any equipment used for pumping, etc. shall be installed & remain next to the outside right of way line.
- Temporary water lines shall be clearly marked with signs, no smaller than 10" by 10" at a height of three feet or more, reflecting the gas companies name & a contact phone number. A sign shall be placed at the beginning of the water line & at the end, as well as every two miles in between.
- **Failure to comply with TxDOT guidelines may result in TxDOT requesting the owner to remove the line, immediately.**

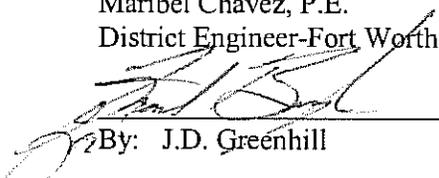
It is expressly understood that the TxDOT does not purport, hereby, to grant any right, claim, title, or easement in or upon this highway. This line may remain in TxDOT right of way from **11/20/09 to 01/20/2010**. It is further understood that in the event of an emergency, TxDOT may remove this line if Tx DOT deems it necessary to maintain a safe right of way. TxDOT may also require the owner to remove this line by giving thirty (30) days written notice.

Attached is a copy of our guidelines entitled "Specifications for Utility Installation". Your company and your contractors are expected to comply with these guidelines at all times while on TxDOT right of way. In the event the Owner fails to comply with any or all of the requirements as set forth herein, the State may take such action, as it deems appropriate to compel compliance. The installation shall not damage any part of the highway and adequate provisions must be made to cause minimum inconveniences to traffic and adjacent property owners.

******CALL YOUR INSPECTOR!!!!******

Please notify STACY CLACK at 817-313-3873 forty-eight (48) hours prior to installation of the line in order that TxDOT may have a representative present. A copy of the "Specifications for Installations," provided by TxDOT, along with the state approved plans and permit approval shall be kept on the job site through the duration of the installation or job could be shut down.

TEXAS DEPARTMENT OF TRANSPORTATION
Maribel Chavez, P.E.
District Engineer-Fort Worth District


By: J.D. Greenhill

Form: FTW--TempWaterRequest

Request for Temporary Water Line

Date: 11/17/09

Stallion Waterline(Chesapeake Operating Inc) proposes to place (3) 10 inch temporary water line one to three feet from the right of way of 360 in Tarrant County, Texas as follows: (give location, length, general design): Run (3) 10 inch temporary waterlines along the East side of the access road of 360 to a 5' culvert and go under 360 to West side of 360 to Bear Creek East location.

Note: If driveways, landscaping, trees, or drainage culverts are involved with this installation, drawing must indicate the method your company proposes to address them.

1. Temporary water lines, 3 to 6 inch, shall be installed & remain within the first three feet of the outside right of way line. No more than two ten inch lines shall be installed & remain within the first three feet of the outside right of way line.

2. Culverts used for crossings shall be 24" in diameter for 3" to 6" temporary water lines & shall not occupy more than 2 lines. A 36" or larger culvert for a ten inch line, & shall not occupy more than two lines. Lines shall NOT pass through private driveways.

3. All culverts shall be & remain free & clear of all debris before installing temporary water lines.

4. Any equipment used for pumping, etc. shall be installed & remain next to the outside right of way line.

5. Temporary water lines shall be clearly marked with signs, no smaller than 10" by 10" at a height of 3' or more, reflecting the gas companies name & a contact phone number. A sign shall be placed at the beginning of the water line & at the end, as well as every 2 miles in between.

6. Water guards or the boring method shall be used for crossing private drives. No temporary water lines will be allowed to pass through private drive culverts.

7. From right of way line (FM roads it is usually the fence line) to three out into the right of way, must be mowed prior to laying the water line & shall continue to be mowed until the line is removed.

The line will be installed and maintained on the highway right of way as shown on the attached drawing and in accordance with the rules, regulations and policies of the Texas Department of Transportation (TxDOT), and all governing laws, including but not limited to the "Federal Clean Water Act," the "National Endangered Species Act," and the "Federal Historic Preservation Act." Upon request by TxDOT, proof of compliance with all governing laws, rules and regulations will be submitted to TxDOT before commencement of construction.

Our firm will use Best Management Practices to minimize erosion and sedimentation resulting from the proposed installation, and we will revegetate the project area as indicated under "Revegetation Special Provisions." Our firm will maintain a leak free line at all times within TxDOT right of way.

Control Devices will be installed and maintained for the duration of this installation.

The location and description of the proposed line and appurtenances is more fully shown by five (5) complete sets of drawings attached to this notice.

Installation of this line will begin on or after the 1/20/2009 and will be removed from the right of way within 2 months. In the event this line is needed a longer period of time, our firm will re-submit a request at that time.

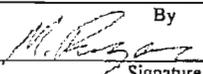
By signing below, I certify that I am authorized to represent the Firm listed below, and that the Firm agrees to the conditions/provisions included in this permit.

Stallion Waterline (Chesapeake Operating Inc.)

Firm Name

Mike Fongers

By



Signature

Consultant

Title

301 Commerce St Suite 2850

Address

Fort Worth, TX 76102

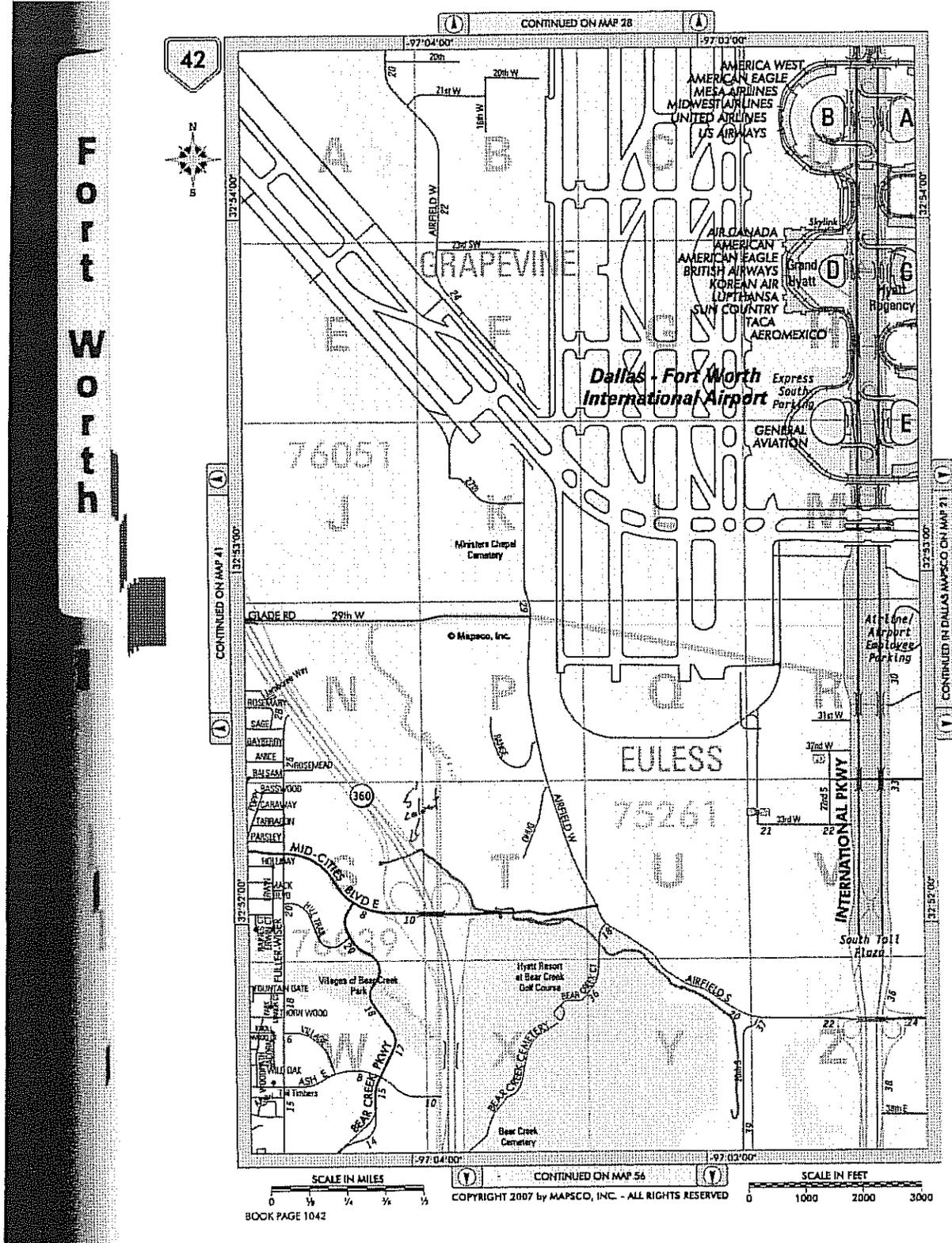
City, State Zip

817-682-0802

Area Code Telephone Number

Email address





Brenda,

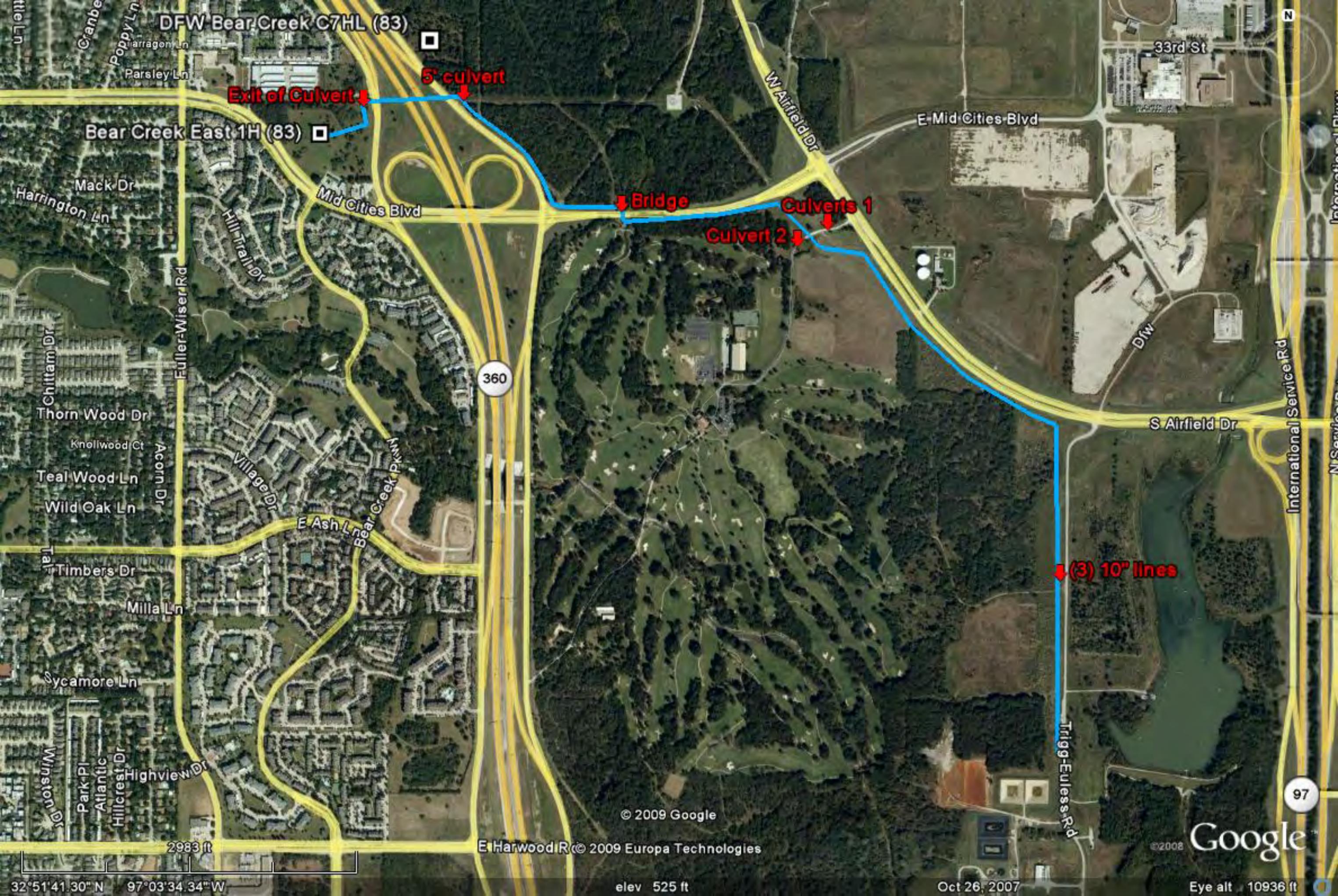
I have attached a permit request for SH 360 for temporary waterlines. Please let me know if you have any questions.

Mike Fongers

Stallion Waterline

Cell-817-682-0802

mfongers@sofs.cc



DFW Bear Creek C7HL (83)

Exit of Culvert

5' culvert

Bear Creek East 1H (83)

Bridge

Culvert 2

Culverts 1

(3) 10" lines

360

97

2983 ft

© 2009 Google

© 2009 Europa Technologies

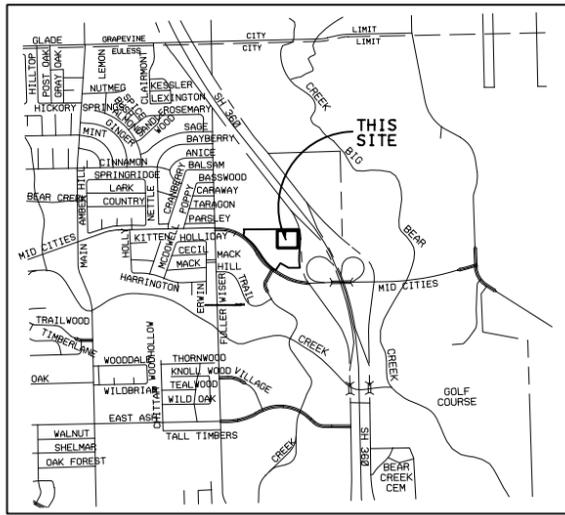
©2008 Google

32°51'41.30" N 97°03'34.34" W

elev 525 ft

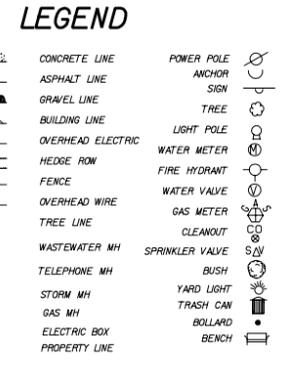
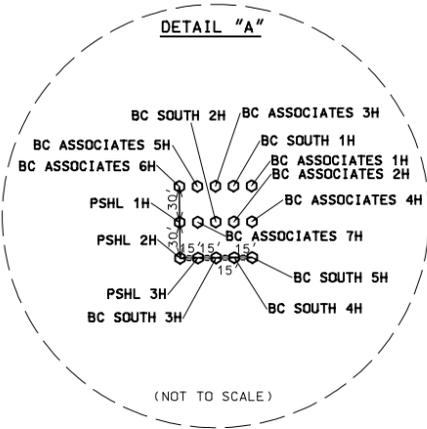
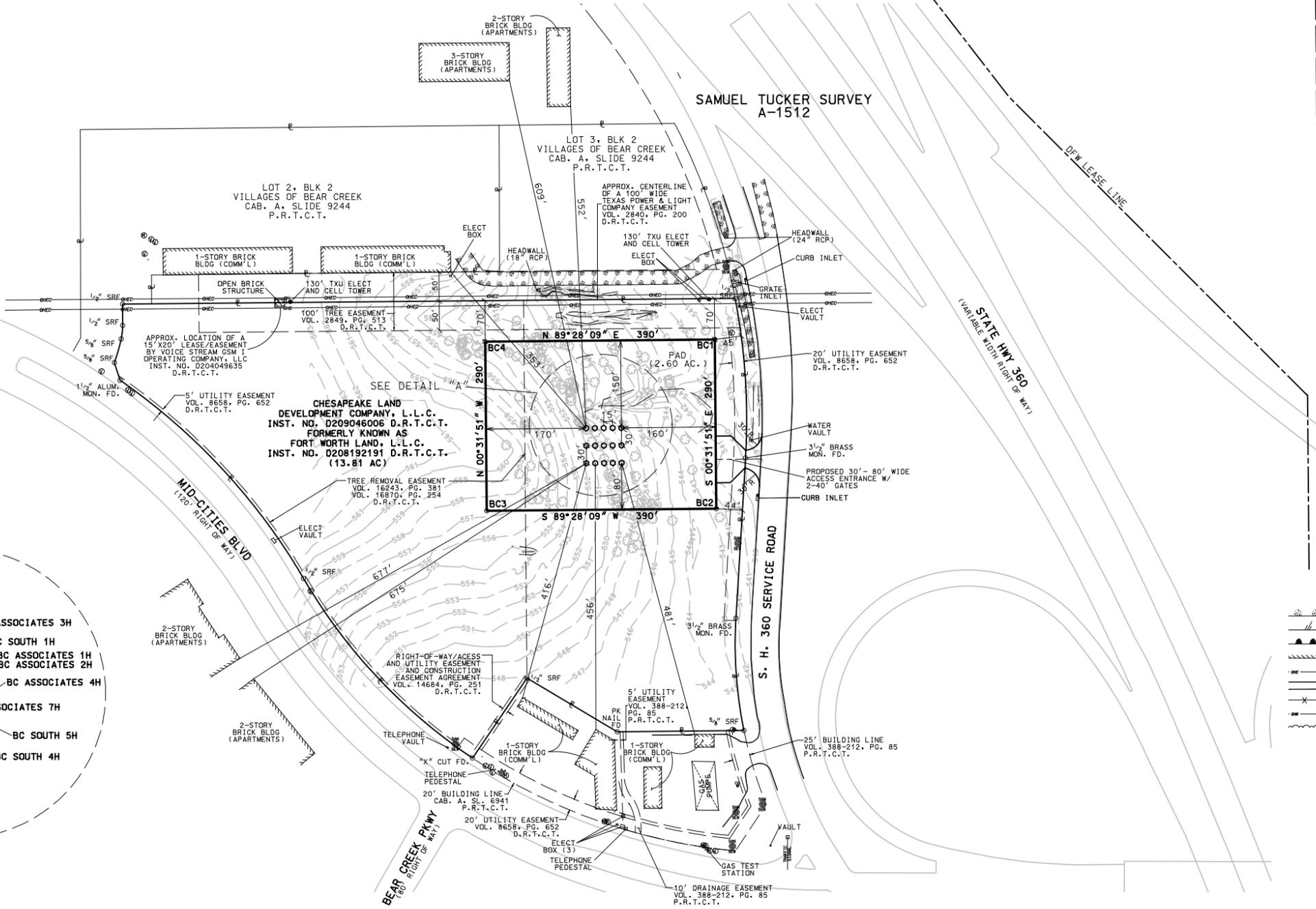
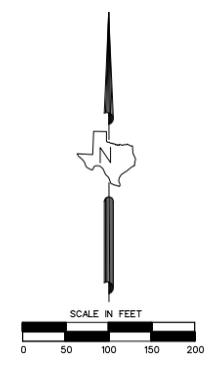
Oct 26, 2007

Eye alt 10936 ft



VICINITY MAP
(NOT TO SCALE)

POINT NO.	NAD27 GRID COORDINATES (IN FEET)		NAD83 GRID COORDINATES (IN FEET)		NAD83 GEOGRAPHIC COORDINATES (IN DEG-MIN-SECS)		NAD27 GEOGRAPHIC COORDINATES (IN DEG-DEG.)		DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BC1	437944.225	2132593.924	7002393.340	2408005.668	32 52 11.47126	97 04 06.30005	32.869725904	97.068129597	PAD CORNER
BC2	437654.268	2132593.851	7002103.396	2408008.355	32 52 08.60207	97 04 06.31488	32.868928879	97.068133717	PAD CORNER
BC3	437654.365	2132203.911	7002099.783	2407618.429	32 52 08.61887	97 04 10.88717	32.868933546	97.069403760	PAD CORNER
BC4	437944.323	2132203.986	7002389.728	2407615.744	32 52 11.48808	97 04 10.87236	32.869730573	97.069399645	PAD CORNER
BC5	437799.296	2132398.918	7002246.562	2407812.049	32 52 10.04508	97 04 08.59361	32.869329729	97.068766679	PAD CENTER
BC ASSOCIATES 1H	437794.287	2132433.912	7002241.887	2407847.089	32 52 09.99409	97 04 08.18353	32.869315566	97.068652770	WELLHEAD
BC ASSOCIATES 2H	437764.296	2132418.906	7002211.754	2407832.369	32 52 09.69793	97 04 08.36092	32.869233297	97.068702046	WELLHEAD
BC ASSOCIATES 3H	437794.295	2132403.917	7002241.609	2407817.095	32 52 09.99539	97 04 08.53524	32.869315926	97.068750464	WELLHEAD
BC ASSOCIATES 4H	437764.292	2132433.903	7002211.893	2407847.366	32 52 09.69728	97 04 08.18507	32.869233116	97.068653200	WELLHEAD
BC ASSOCIATES 5H	437794.298	2132388.918	7002241.470	2407802.097	32 52 09.99603	97 04 08.71111	32.869316104	97.068799317	WELLHEAD
BC ASSOCIATES 6H	437794.302	2132373.921	7002241.331	2407787.100	32 52 09.99668	97 04 08.88696	32.869316284	97.068848162	WELLHEAD
BC ASSOCIATES 7H	437764.303	2132388.911	7002211.476	2407802.375	32 52 09.69922	97 04 08.71264	32.869233654	97.068799740	WELLHEAD
BC SOUTH 1H	437794.291	2132418.913	7002241.748	2407832.091	32 52 09.99474	97 04 08.53540	32.869315746	97.068701622	WELLHEAD
BC SOUTH 2H	437764.299	2132403.908	7002211.615	2407817.372	32 52 09.69857	97 04 08.53679	32.869233474	97.068750895	WELLHEAD
BC SOUTH 3H	437734.304	2132403.901	7002181.621	2407817.650	32 52 09.40177	97 04 08.53832	32.869151025	97.068751319	WELLHEAD
BC SOUTH 4H	437734.300	2132418.898	7002181.760	2407832.647	32 52 09.40112	97 04 08.36246	32.869150845	97.068702473	WELLHEAD
BC SOUTH 5H	437734.297	2132433.896	7002181.899	2407847.644	32 52 09.40048	97 04 08.18660	32.869150667	97.068653624	WELLHEAD
PSHL 1H	437764.307	2132373.913	7002211.337	2407787.378	32 52 09.69987	97 04 08.88850	32.869233835	97.068848589	WELLHEAD
PSHL 2H	437734.311	2132373.905	7002181.343	2407787.656	32 52 09.40306	97 04 08.89003	32.869151382	97.068849016	WELLHEAD
PSHL 3H	437734.308	2132388.903	7002181.482	2407802.653	32 52 09.40241	97 04 08.71417	32.869151205	97.068800168	WELLHEAD



NOTE:
THIS DRAWING IS BASED ON DFW AIRPORT CONTROL SYSTEM (DFW SURFACE 1988 ADJUSTED DATUM).

2/4/2010 3:20:29 PM S:\Chesapeake\2009036_DFW\88-BC\SOIT\N\Drawn\Bear-Creek_Pad-SUP.dgn

R. D. PRICE
SURVEY A-1206

Revision History
REV01 01-18-10 PAD & WELL 10' W SHIFTING JSB
REV02 01-29-10 ADD VOICESTREAM LEASE JSB
REV03 02-04-10 PAD SIZE & WELL CHANGES JSB

AZ&B
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Chesapeake ENERGY
Chesapeake Operating, Inc.
100 Easser Way
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**WELL LOCATION AND IMPROVEMENTS MAP
OF BEAR CREEK PAD SITE**
CITY OF EULESS
TARRANT COUNTY, TEXAS

Scale:	1"=100'	Sheet No.
Date:	12-11-09	
Drawn by:	JZB	
Designed by:		
Checked by:	JSB	
Drawing Name:	BEAR-CREEK_PAD.DGN	



Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Aeronautical Study No.
2009-ASW-6022-OE

Issued Date: 03/04/2010

Brynn Scalf
Chesapeake Energy Corporation
6100 N Western
OKC, OK 73142

****DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Drilling Rig BC Associates Pad
Location:	Eules, TX
Latitude:	32-52-10.38N NAD 83
Longitude:	97-04-08.06W
Heights:	175 feet above ground level (AGL) 735 feet above mean sea level (AMSL)

This aeronautical study revealed that the temporary structure does exceed obstruction standards but would not be a hazard to air navigation provided the following condition(s), if any, is (are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, flags/red lights - Chapters 3(Marked),4,5(Red),&12.

See attachment for additional condition(s) or information.

It is required that the FAA be notified at least 5 business days prior to the temporary structure being erected and again when the structure is removed from the site. Notification should be made to this office during our core business hours (Monday through Friday, 9:00 a.m. to 3:00 p.m.) via telephone at (SEE PAGE 3). Notification is necessary so that aeronautical procedures can be temporarily modified to accommodate the structure. Voicemail messages are not acceptable notice.

NOTIFICATION IS REQUIRED AGAIN VIA TELEPHONE AT (SEE PAGE 3) WHEN THE CRANE IS REMOVED FROM THE SITE FOR NOTICE TO AIRMAN (NOTAM) CANCELLATION.

It is required that the manager of (SEE PAGE 3) be notified at least 5 business days prior to the temporary structure being erected and again when the structure is removed from the site.

It is required that the manager of (SEE PAGE 3) be notified at least 5 business days prior to the temporary structure being erected and again when the structure is removed from the site. Additionally, please provide contact information for the onsite operator in the event that Air Traffic Control requires the temporary structure to be lowered immediately.

Any height exceeding 175 feet above ground level (735 feet above mean sea level), will result in a substantial adverse effect and would warrant a Determination of Hazard to Air Navigation.

This determination expires on 09/04/2011 unless extended, revised or terminated by the issuing office.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates and heights. Any changes in coordinates and/or heights will void this determination. Any future construction or alteration, including increase to heights, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination did not include an evaluation of the permanent structure associated with the use of this temporary structure. If the permanent structure will exceed Title 14 of the Code of Federal Regulations, part 77.13, a separate aeronautical study and FAA determination is required.

This determination concerns the effect of this temporary structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Aviation Administration Flight Procedures Office if the structure is subject to the issuance of a Notice To Airman (NOTAM).

If you have any questions, please contact our office at (817) 838-1996. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2009-ASW-6022-OE

Signature Control No: 671526-123371986

(TMP)

Bruce Beard
Specialist

Attachment(s)
Additional Information
Map(s)

TEMPORARY EQUIPMENT SITE: BC Associates Pad

The site will be located approximately 5,518 feet southwest of Rwy 36L at the DFW International Airport ARP

- SIAP = Standard Instrument Approach Procedure
- ARP = Airport Reference Point (Center of Airport)
- AGL = Above Ground Level AMSL= Above Mean Sea Level
- MDA = Minimum Descent Altitude DA = Descent Altitude
- LNAV = Lateral Navigation VNAV= Vertical Navigation
- RWY = Runway

Conditions for Operating Temporary Equipment

1. ABSOLUTELY REQUIRED

- > Notify the FAA at least 5 days prior to the erection of the drilling rig/crane so modifications to the SIAP can be made to accommodate the drilling rig/crane.
- > Notify the FAA when the project is complete and the drilling rig/crane has been removed from the site, allowing the modified SIAP to return to normal operations.

2. METHODS OF NOTIFICATION - Monday thru Friday, 7:30 a.m. to 3 p.m. CST

> Preferred Method - Email Notification to ALL of the following:

- (1) linda.steele@faa.gov
- (2) debbie.cardenas@faa.gov
- (3) bruce.beard@faa.gov

> Telephone - VOICEMAIL IS NOT ACCEPTABLE

- (1) Linda Steele (817) 838-1994
- (2) Debbie Cardenas (817) 838-1999
- (3) Bruce Beard (817) 838-1996
- (4) Main Number (817) 838-1990

 For well sites, please provide the FAA, the airport manager, and the air traffic control tower manager with the aeronautical study number and not with the name of the well site.

3. AIR TRAFFIC FIELD FACILITY NOTIFICATION

- > Notify the DFW International Airport Duty Office at 972-574-3112 at least 72 hours prior to raising the temporary crane and when the project is complete and the temporary crane is removed from the site.
- > The DFW International Airport Duty Office shall follow established procedures and coordinate the temporary structure with the DFW Airport Traffic Control Tower.

4. EXPIRATION DATE

This determination will be valid until 09-04-2011. During the effective dates of the determination, it is acceptable to return to the site without submitting a new FAA Form 7460-1, Notice of Proposed Construction or Alteration, provided:

- > The temporary equipment does not exceed a maximum height of 175 feet AGL. If temporary equipment returning to the site exceeds the above maximum height AGL, you are required to file a new FAA Form 7460-1, Notice of Proposed Construction or Alteration.
- > Conditions #1 through # 3 above are met.

5. MARKING/LIGHTING REQUIREMENTS

- > The temporary drilling rig shall be obstruction flagged AND lighted in accordance with FAA Advisory Circular 70/7460-1, "Obstruction Marking and Lighting". This document is available on the Internet at: <http://oeaaa.faa.gov>

6. IMPACT ON FAA FACILITY - DFW

- > DFW RNAV (GPS) RWY 36L . . .
Increase LNAV/VNAV DA FROM 987 TO 1043
Increase LNAV MDA FROM 940 TO 1000
- > DFW RNAV (GPS) RWY 36R . . .
Increase LNAV/VNAV DA FROM 941 TO 1039
- > DFW VOR RWY 31L . . .
Increase S-31L MDA FROM 1020 TO 1040

