



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**Request for  
 Quotation**

RFQ NUMBER  
 709EC010

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 MICHAEL AUSTIN  
 304-558-2402

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE  
 CENTRAL MINE EQUIPMENT COMPANY  
 4215 RIDER TRAIL NORTH  
 EARTH CITY, MO 63045-1106

SHIP TO

DIVISION OF HIGHWAYS  
 EQUIPMENT DIVISION  
 ROUTE 33  
 BRUSHY FORK ROAD  
 BUCKHANNON, WV  
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/09/2009				

BID OPENING DATE: 01/28/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UQP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
MANDATORY PREBID CONFERENCE DATE AND TIME CHANGED						
FROM: 01/08/09 @ 10:00 A.M.						
TO: 01/14/09 @ 10:00 A.M. SAME LOCATION						
BID OPENING DATE & TIME REMAINS 01/28/09 @ 1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		545-17	\$133,866.00	\$133,866.00
SKID MOUNTED CORE & AUGER DRILL						
***** THIS IS THE END OF RFQ 709EC010 ***** TOTAL:						\$133,866.00

RECEIVED

2009 JAN 27 PM 1:27

WV PURCHASING  
 DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE 	TELEPHONE 800-325-8827	DATE 01/26/09	
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/03/2008				

BID OPENING DATE: 01/28/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		545-17	\$133,866.00	\$133,866.00
SKID MOUNTED CORE & AUGER DRILL  OPEN END CONTRACT  TO PROVIDE SKID MOUNTED CORE AND AUGER DRILL WITH PAVEMENT CORING ATTACHMENT AND TRAILER PER THE ATTACHED SPECIFICATIONS.  A MANDATORY PRE-BID CONFERENCE WILL BE HELD ON 01/08/2009 @ 10:00 AM, AT 2019 WASHINGTON ST. EAST, CHARLESTON, WEST VIRGINIA 25305. FAILURE TO ATTEND PRE-BID WILL RESULT IN BID DISQUALIFICATION.  QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00 PM EST.) ON MONDAY, 12/29/2008. SEND YOUR QUESTIONS TO: PURCHASING DIVISION ATTENTION MICHAEL AUSTIN 2019 WASHINGTON ST., EAST CHARLESTON, WV 25305  QUESTIONS MAY BE SENT VIA FAX, E-MAIL, REGULAR MAIL. E-MAIL: MICHAEL.D.AUSTIN@WV.GOV FAX: 304-558-4115  IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.  EXHIBIT 2  LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael Austin</i>	TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE

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2

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MICHAEL AUSTIN  
804-558-2402

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 EARTH CITY, MO 63045-1106

DIVISION OF HIGHWAYS  
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<p>AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 9/98</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSA</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Daniel Blocher</i>	TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE

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DIVISION OF HIGHWAYS  
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<p>SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>EXHIBIT 6</p> <p>PRICE ADJUSTMENT PROVISION:            THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: .....</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David J. ...</i>	TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manger	FAX 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE

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 EARTH CITY, MO 63045-1106


SHIP TO

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<p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 .XX.....</p> <p>NO. 2 .....</p> <p>NO. 3 .....</p> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;">             SIGNATURE            Central Mine Equipment Company            COMPANY         </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE 	TELEPHONE 800-325-8827	DATE 01/26/09	
TITLE Sales Manager	FERN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE	

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SHIPTO

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
DATE						
REV. 11/96						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:				33		
RFQ. NO.:				709EC010		
BID OPENING DATE:				01/28/09		
BID OPENING TIME:				01:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
314-291-4880						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael Austin</i>		TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE	

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SHIP TO  
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12/03/2008				

BID OPENING DATE: 01/28/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTACT PERSON (PLEASE PRINT CLEARLY):						
David L. Bloodworth						
***** THIS IS THE END OF RFQ 709EC010 ***** TOTAL:						\$133,866.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>David L. Bloodworth</i>	TELEPHONE 800-325-8827	DATE 01/26/09
TITLE Sales Manager	FEIN 43-0211000	ADDRESS CHANGES TO BE NOTED ABOVE

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## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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### INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS  
NO. 641-1-I

SKID MOUNTED CORE AND AUGER DRILL  
WITH PAVEMENT CORING ATTACHMENT AND TRAILER

1.0 PURPOSE

It is the purpose of these specifications to describe a Skid Mounted Core and Auger Drill with Pavement Coring Attachment and Trailer (hereinafter referred to as a "drill and trailer" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

**The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply.** Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. **Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail.** Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report...  
**FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.**

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. **Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications".** The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

### 3.2 MANDATORY SPECIFICATIONS

**All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory as stated in Purchasing Divisions Policies and Procedures. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.**

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. **The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.**

### 4.0 REPRESENTATIVE UNIT FOR TEST

**The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.**

### 4.1 CONDITION OF UNIT(S) UPON DELIVERY

**All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.**

### 4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 120 days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. **Delivery terms shall**

be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid.

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**The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.**

**A completed pilot model for inspection must be provided within 30 calendar days after receipt of the purchase agreement by the successful vendor.**

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

## 5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. **The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.**

**Prices for the units shall be in quantities of 1-5.** However, for evaluation purposes, we will use quantities of one (1). DOH reserves the right to place multiple orders in any quantity.

## 6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

### 6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

**The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit.** The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2008 and be clearly identified and marked with date of manufacture.

## 6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

**An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also,**

**there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service manuals.**

**\* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.**

## 6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. **In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract.** Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

**Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.**

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

## 6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

**Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.**

**The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.**

## 6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement

parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways

any technical or engineering improvements during the term of the warranty. **The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.**

**A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items is required for this unit.**

**THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).**

#### 6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

#### 6.7 UNSPECIFIED ACCESSORIES & FEATURES

**All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.**

**All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.**

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

Purpose: Unit is a light weight skid-mounted combination auger, core, rotary type boring machine having low overall travel height and a low center of gravity and can be easily on and off loaded or worked from a trailer that can be towed by a heavy-duty pickup truck. Unit to be used for soil sampling, foundation testing, monitoring well installation and subsurface exploration work. To be capable of performing auger boring in unconsolidated formations with hollow-stem augers and capable of productively using currently popular geo exploration methods and techniques. Drill to be capable of coring or rotary drilling applications.

General Specifications: Drill to be self-contained unit having a single engine power source that is appropriately directed to the hydraulic system and mechanically driven drill head. The drill with its complement of auxiliary equipment to be so arranged that work could be done with optimum efficiency and a minimum of manual labor. **The drill shall be thoroughly field tested and ready for immediate and continuous operation at time of delivery.**

7.1 Rotary Drive:

**7.1.1 The drill transmission to have a minimum of four speeds forward and one speed reverse.**

7.1.2 The transmission to be mounted stationary on the unit main frame with a heavy-duty clutch adjacent to the power unit.

**7.1.3 Drill spindle torque, minimum 3,335 foot pounds in first gear.**

**7.1.4 Rotational speeds of spindle to range from 110 RPM in first gear to a minimum of 698 RPM in fourth gear at 2,500 engine RPM.**

7.2 Vertical Drive:

7.2.1 Vertical drive to consist of two (2) double acting hydraulic feed cylinders with an **overall stroke (or travel) of 68 inches minimum.**

**7.2.2 Vertical drive to have a minimum downward thrust of 13,650 pounds and a minimum upward thrust of 19,600 pounds.**

**7.2.3 Feed cylinders to have a minimum piston rod diameter of 1.375 inches.**

7.2.4 Two (2) feed levers to be provided, one (1) spring return to neutral and one (1) detented down only.

**7.2.5 Minimum feed rate 79 feet per minute down and 55 feet per minute up.**

7.3 Power Unit:

7.3.1 Power unit to be self-contained, electric start, air cooled heavy duty three (3) cylinder industrial type diesel engine.

- 7.3.2 **Engine to have a minimum of 59 horsepower and 187 cubic inch displacement.**
- 7.3.3 Unit to have a heavy duty oil bath air cleaner, a governor and a replaceable full flow oil filter.
- 7.3.4 **A 12 volt electrical system with Manufacturers recommended H.D. maintenance free battery shall be provided.**
- 7.3.5 Engine to have a keyed ignition with a mechanical throttle.
- 7.3.6 **Power unit clutch to be dry disc minimum 13 inch diameter.**
- 7.3.7 Engine to have sufficient power to meet all requirements for core and drill application.
- 7.3.8 Fuel tank capacity approximately 14 gallon with fuel level indicator or gauge.
- 7.4 Upright Drill:
  - 7.4.1 Upright drill frame to be hydraulically actuated permitting 90 degree fold over for traveling.
  - 7.4.2 **The mechanical drive train to rotary shall not have to be disconnected when folding for travel position.**
  - 7.4.3 The direct coupled mechanical drive system to be capable of drilling holes from vertical to 30 degrees from horizontal.
- 7.5 Hydraulic System:
  - 7.5.1 Hydraulic pump to be engine driven independently of the gear train.
  - 7.5.2 **Pump capacity minimum 25.5 GPM at 2,000 PSI.**
  - 7.5.3 System to have full flow replaceable element hydraulic oil filters in pressure line from pump and in return line.
  - 7.5.4 Hydraulic oil cooler to be provided.
    - 7.5.4.1 Hydraulic oil reservoir to have adequate capacity to operate unit during continuous operation within Manufacturers recommended operating temperature.
  - 7.5.5 Reservoir tank to be equipped with sight glass oil level indicator.
  - 7.5.6 Hydraulic tank to equipped with a magnetic drain plug.
  - 7.5.7 **Hydraulic power shall be available whenever engine is running.**



## 7.6 Drillers Control Panel:

7.6.1 All controls and gauges needed for various drilling operations to be placed accessible and convenient for operator while permitting the view of drilling at all times.

7.6.2 Control panel to include:

7.6.2.1 Keyed ignition switch and starter button.

7.6.2.2 Emergency engine shut-off switch.

7.6.2.3 Transmission gear selector and lockout clutch handle.

7.6.2.4 Hydraulic gauges for systems pressure and pull down pressure.

7.6.2.5 Feed rate and feed pull down pressure control.

7.6.2.6 Feed and detented levers.

7.6.2.7 Hydraulic controls for all standard and optional components.

7.6.2.8 Hour meter.

7.6.2.9 Engine oil pressure gauge.

7.6.2.10 Engine oil temperature gauge.

7.6.2.11 Volt meter.

## 7.7 Mast:

7.7.1 Two (2) adequately sized hydraulic cylinders to be provided to raise and lower drill frame and mast.

7.7.2 Mast to be bolted to drill frame and removable when not needed.

7.7.3 Maximum line pull to be evenly distributed on four cross-braced tubular members.

7.7.4 Pair of 8 inch diameter sheaves to be aligned with rope or wire rope.

## 7.8 Draw Works:

7.8.1 Draw works to include hydraulic hoist and a hydraulic wireline hoist.

7.8.2 **Hoist to have a maximum pull capacity of 3,200 pounds minimum.**

7.8.3 **Maximum line speed 100 feet per minute minimum.**

7.8.4 Hydraulic hoist to be controlled by a single control lever.

- 7.8.5 Hoist line to be 3/8 inch diameter approximately 60 feet in length with a Shur-Lok hook.
- 7.8.6 **Hydraulic wireline hoist to have a maximum pull capacity 1,800 pounds minimum.**
- 7.8.7 **Line speed 200 feet per minute minimum.**
- 7.8.8 Wireline hoist to be controlled by one lever.
- 7.8.9 Hoist to be capable of holding 1,650 feet of 3/16 inch diameter cable.
- 7.9 Drill Winch:
  - 7.9.1 Adequately sized hydraulic winch to be furnished for pulling the skid mounted/trailer mounted drill.
  - 7.9.2 A single hydraulic lever to control rotation direction and speed.
  - 7.9.3 **Line speed to be 40 feet per minute minimum.**
  - 7.9.4 Assembly to include a three-speed forward one reverse (with lock in and out winch pull) hydraulic motor.
  - 7.9.5 Winch to include 100 feet of Manufacturers recommended wire rope with safety hook and roller guides.
- 7.10 Sliding Base: In-Out
  - 7.10.1 A sliding base to be furnished for moving drill in and out so spindle can be positioned to align augers and drill rods.
  - 7.10.2 Clearance from hole to be provided for handling augers, casing and other tools.
  - 7.10.3 **The in-out slide base to have a minimum 15 inches of travel and be hydraulically operated.**
  - 7.10.4 Base to have replaceable nylatron (or equal) wear plates.
- 7.11 Sliding Base: Sideways
  - 7.11.1 **Drill must be movable from side to side at least 8 inches to facilitate alignment of auger and drill rods.**
  - 7.11.2 Slide to be hydraulically operated and equipped with replaceable nylatron (or equal) wear plates.
- 7.12 Steel Skid:
  - 7.12.1 **Drill shall be mounted on a steel skid with sled type runners.**

- 7.12.2 Skid ground clearance at least 12 inches and length not to exceed 10 feet.
- 7.13 Hydraulic Hammer:
  - 7.13.1 A hydraulic hammer to be provided that will safely lift a 140 pound drive weight 30 inches and completely release the weight for a 30 inch free fall.
  - 7.13.2 Rope or cable attached to weight that might impede free fall is unacceptable.
  - 7.13.3 Hammer system to have a minimum rate of at least 50 blows per minute.**
  - 7.13.4 A 140 pound drive weight to be provided.
  - 7.13.5 A single acting hydraulic cylinder is to be dedicated to the operation of the hammer device with a minimum of 60 inches of travel.**
- 7.14 Drill Dimension:
  - 7.14.1 Overall length of drill 85 inches.
  - 7.14.2 Drill frame width 20 inches.
  - 7.14.3 Slide base approximately 24 inches.
  - 7.14.4 Height of drill frame from bottom of slide base to highest point in travel position 54 inches maximum.**
- 7.15 Trailer:
  - 7.15.1 Drill trailer to be constructed of steel box tubing and 12 gauge safety tread plate.
  - 7.15.2 Four (4) watertight tool boxes with approximately 21 cubic feet of storage must be provided on trailer.**
  - 7.15.3 Auger and drill racks must be provided and mounted on trailer.**
  - 7.15.4 Trailer shall have two (2) axles rated at approximately 8,000 pounds each.**
  - 7.15.5 Trailer shall be adequately sized for unit provided.**
  - 7.15.6 Trailer shall be equipped with electric brakes.**
  - 7.15.7 Stop and turn signals, running lights, license plate light and bracket must be provided.**  
All lights to be LED type.
  - 7.15.8 Trailer to have a lunette ring 2 ½ inch diameter with 4-hole base 4800 lb. GTW
  - 7.15.9 Electrical cable to be 7 pole Cole Hersee #12081 (or equal) male plug.

- 7.15.10 Trailer to have heavy duty hydraulic leveling jacks that are individually operated from drill control panel.
- 7.15.11 **Hydraulic jacks shall be capable of supporting weight of machine plus loads generated during drilling operations.**
- 7.15.12 **Check valves shall be provided to prevent leakage or slippage.**
- 7.15.13 Jack piston rods to be completely enclosed to prevent damage.
- 7.16 Paint:
  - 7.16.1 Drill unit and trailer to be primed and painted Manufacturers standard color.
- 7.17 **Unit shall be delivered to WVDOH with all Manufacturers recommended safety related decals and safety features intact.**
- 7.18 **Vendor must certify that unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.**
- 7.19 Advertising: No visible decals or name plates or painted on names other than the Manufacturers or model number or trademark should appear on the exterior surface of the unit. Such logos created through the stamping or casting process of Manufacturer are accepted.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
EQUIPMENT DIVISION

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BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT  
NO. 641-1-I

SKID MOUNTED CORE AND AUGER DRILL  
WITH PAVEMENT CORING ATTACHMENT AND TRAILER

NOTE TO BIDDER: Procurement Specification No. 641-1-I, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report.  
FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 709EC010

Bidder's Name: Central Mine Equipment Company

Address: 4215 Rider Trail North, Earth City, Missouri 63045-1106

Telephone Number: 800-325-8827

Years Bidder has been registered to do business with the State of West Virginia: 30+ YRS.

Years Company has been an authorized dealer for proposed unit: N/A YRS.

X3.2 Have you complied with all mandatory specifications?  YES  NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 30 Calendar Days After  
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 120 Calendar Days After Receipt of  
Purchase Agreement

**The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at [www.state.wv.us/admin/purchase](http://www.state.wv.us/admin/purchase)**

X5.0 AWARD CRITERIA;

X5.1 Prices for units: 1-5 \$133,866.00 per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

Central Mine Equipment Company - CME-45C - Year 2009  
Is descriptive literature, fully describing proposed unit attached to your bid?  YES  NO

If not, why? \_\_\_\_\_

Bid price per unit: \$ 133,866.00

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES  NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit?  YES  NO

X6.2  
2-10-00

**EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE**

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION: \_\_\_\_\_ MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_ YEAR: \_\_\_\_\_ PURCHASE AMOUNT: \_\_\_\_\_

ENGINE: MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ FUEL TYPE: \_\_\_\_\_

HORSEPOWER: \_\_\_\_\_ CYLINDER: \_\_\_\_\_ ENGINE SERIAL: \_\_\_\_\_

COOLING SYSTEM CAPACITY: \_\_\_\_\_

BELTS: DESCRIPTION: \_\_\_\_\_ PART NUMBERS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

GVW: \_\_\_\_\_ AXLE CAPACITY: FRONT: \_\_\_\_\_ REAR: \_\_\_\_\_

TIRES: FRONT MAKE & SIZE: \_\_\_\_\_

REAR MAKE & SIZE: \_\_\_\_\_

DIMENSIONS OF UNIT: LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ LENGTH: \_\_\_\_\_

VENDOR CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_

**PARTS:**

BATTERY MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ CCA: \_\_\_\_\_

TOP OR SIDE POST: \_\_\_\_\_ DIMENSIONS: LENGTH \_\_\_\_\_ WIDTH \_\_\_\_\_ HEIGHT \_\_\_\_\_

SPARK PLUGS OR FUEL INJECTORS MAKE: \_\_\_\_\_ PART # \_\_\_\_\_

FUEL PUMP OR INJECTION PUMP MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

ALTERNATOR MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

STARTER MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

TURBO CHARGER MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

TRANS MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ AUTO/MANUAL: \_\_\_\_\_

HYDRAULIC PUMP MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

FILTERS	MAKE	PART NO	LUBRICANT	MANUFACTURER TYPE
OIL	_____	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training  
 YES  NO

Will you conduct training with each purchase order against this open end contract?  
 YES  NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order?  
 YES  NO

If NO, explain time frame \_\_\_\_\_

Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?  
 YES  NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?  
 YES  NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?  
 YES  NO  
If NO, explain \_\_\_\_\_

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications  
 YES  NO

Is warranty literature attached?  
 YES  NO

Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included?  
 YES  NO

Describe:

\_\_\_\_\_  
WARRANTY STATEMENT ATTACHED.  
\_\_\_\_\_



**X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE**

**THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.**

(If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

One (1) year

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

Location of warranty repairs (DOH facilities or manufacturers) to be decided at time of need by representative of the DOH and manufacturer.

Central Mine Equipment Company, Earth City, Missouri

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

N/A

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

- A. Terms: Net 30      Manufacturer's published list price less: 0 % discount
- B. Terms: Net 60      Manufacturer's published list price less: N/A % discount
- C. Terms: Net 90      Manufacturer's published list price less: N/A % discount

5 During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways?      X YES      \_\_\_ NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

- A. Shop Rate      \$ 0 per mechanic hour
- B. Travel Time Charge      \$ 0 per mechanic hour  
(Specify if one-way)      \_\_\_\_\_; port to port \_\_\_\_\_
- C. Mileage Charge      \$ 0 per vehicle mile  
(Specify if one-way)      \_\_\_\_\_; port to port \_\_\_\_\_
- D. Field Mechanic Rate      \$ 0 per mechanic hour
- E. Specify period of time that prices are in effect: During warranty period
- F. Surcharge for miscellaneous items: 0 %

## X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination?  YES  NO

**X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry?**

YES  NO

**X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished?**

YES  NO

**X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included?**

YES  NO

## X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Manufacturer: Central Mine Equipment Company Model: CME-45C - Year 2009

## X7.1 Rotary Drive:

**X7.1.1 Drill transmission speeds: Forward 4 Reverse 1**

**X7.1.2 Will transmission be mounted stationary on the unit main frame with heavy duty clutch adjacent to the power unit?**  YES  NO

**X7.1.3 Drill spindle torque 3,384 foot pounds in first gear**

**X7.1.4 Rotational speeds of spindle range from 110RPM in first gear to 698 RPM in fourth gear at 2,500 engine RPM**

## X7.2 Vertical Drive:

**X7.2.1 Will vertical drive consist of 2 double acting hydraulic feed cylinders?**  YES  NO

**Overall stroke (or travel) 68 inches**

**X7.2.2 Vertical drive downward thrust 13,650 pounds and an upward thrust 19,600 pounds?**

X7.2.3 Feed cylinders piston rod diameter 1.375 inches?

X7.2.4 Will unit be provided with two (2) feed levers, one (1) spring return to neutral and one (1) detented down only? X YES      NO

X7.2.5 Feed rate 79 feet per minute down and 55 feet per minute up?

X7.3 Power Unit:

X7.3.1 Will power unit be self-contained, electric start, air cooled heavy duty 3 cylinder industrial type diesel engine? X YES      NO

X7.3.2 Engine horsepower 61.8 gross Cubic Inch 197

X7.3.3 Will unit have heavy duty oil bath air cleaner, a governor and a replaceable full flow oil filter? X YES      NO

If not specify \_\_\_\_\_

X7.3.4 Does unit have a 12 volt electrical system with manufacturers. Heavy duty maintenance free battery? X YES      NO

X7.3.5 Will engine have a keyed ignition with a mechanical throttle? X YES      NO

X7.3.6 Will power unit clutch be dry disc? X YES      NO  
Specify diameter 13 inches

X7.3.7 Will engine have sufficient power to meet all requirements for core and drill application? X YES      NO

X7.3.8 Fuel tank capacity 20 U.S. gallons with level indicator or gauge? X YES      NO

X7.4 Upright Drill:

X7.4.1 Will upright drill frame be hydraulically actuated permitting 90 degree fold over for traveling? X YES      NO

X7.4.2 Will mechanical drive train to rotary have to be disconnected when folding for travel position?      YES X NO

X7.4.3 Will direct coupled mechanical drive system be capable of drilling holes from vertical to 30 degrees from horizontal? X YES      NO

X7.5 Hydraulic System:

X7.5.1 Will hydraulic pump be engine driven independently of the gear train? X YES      NO

X7.5.2 Pump capacity 25.5 GPM at 2,000 PSI

- X7.5.3 Will system have full flow replaceable element hydraulic oil filters in pressure line from pump and in return line?  YES  NO
- X7.5.4 Will hydraulic oil cooler be provided?  YES  NO
- X7.5.4.1 Will hydraulic oil reservoir have adequate capacity to operate unit during continuous operation Within manufacturers recommended operating temperature?  YES  NO
- X7.5.5 Will reservoir tank be equipped with sight glass oil level indicator?  YES  NO
- X7.5.6 Will hydraulic tank be equipped with a magnetic drain plug?  YES  NO
- X7.5.7 Will hydraulic power be available whenever engine is running?**  YES  NO
- X7.6 Drillers Control Panel:
- X7.6.1 Will all controls and gauges needed for various drilling operations be placed accessible/convenient for operator while permitting the view of drilling at all times?  YES  NO
- X7.6.2 Control panel to include:
- X7.6.2.1 Will unit have keyed ignition switch/starter button?  YES  NO
- X7.6.2.2 Will unit have emergency shut-off switch?  YES  NO
- X7.6.2.3 Will unit have transmission gear selector/lockout clutch handle?  YES  NO
- X7.6.2.4 Will unit have hydraulic gauges for systems pressure/pull down pressure?  YES  NO
- X7.6.2.5 Will unit have feed rate/feed pull down pressure control?  YES  NO
- X7.6.2.6 Will unit have feed and detented levers?  YES  NO
- X7.6.2.7 Will unit have hydraulic controls for all standard/optional components?  YES  NO
- X7.6.2.8 Will unit have hour meter?  YES  NO
- X7.6.2.9 Will unit have engine oil pressure gauge?  YES  NO
- X7.6.2.10 Will unit have engine oil temperature gauge?  YES  NO
- X7.6.2.11 Will unit have volt meter?  YES  NO
- X7.7 Mast:
- X7.7.1 Two (2) hydraulic cylinders provided to raise and lower drill frame and mast  YES  NO
- X7.7.2 Will mast be bolted to drill frame and removable when not needed?  YES  NO
- X7.7.3 Will maximum line pull be evenly distributed on four cross-braced tubular members?  YES  NO
- X7.7.4 Will a pair of 8 inch diameter sheaves be aligned with rope or wire rope?  YES  NO
- X7.8 Draw Works:
- X7.8.1 Will draw works include hydraulic hoist and hydraulic wireline hoist?  YES  NO
- X7.8.2 **Hoist maximum pull capacity 3,200 pounds?**
- X7.8.3 **Maximum line speed 100 feet per minute?**

- X7.8.4 Will hydraulic hoist be controlled by a single control lever?  YES  NO
- X7.8.5 Hoist line 3/8 inches diameter 60 feet in length with a Shur-Lok hook?  YES  NO
- X7.8.6 Hydraulic wireline hoist maximum pull capacity 180 pounds?**  YES  NO
- X7.8.7 Maximum line speed 200 feet per minute**
- X7.8.8 Will wireline hoist be controlled by a single lever?  YES  NO
- X7.8.9 Hoist capable of holding 1,650 feet of 3/16 inch diameter cable
- X7.9 Drill Winch:
  - X7.9.1 Will hydraulic winch be furnished for pulling skid mounted/ trailer mounted drill as specified?  YES  NO
  - X7.9.2 Will unit have a single hydraulic lever to control rotation direction and speed?  YES  NO
  - X7.9.3 Line speed 40 feet per minute?**
  - X7.9.4 Will assembly include 3-speed forward 1 reverse (with lock in and out winch pull) hydraulic motor?  YES  NO
  - X7.9.5 Winch spooled with 100 feet of manufacturers recommended wire rope with safety hook/roller guides?  YES  NO
- X7.10 Sliding Base: In-Out
  - X7.10.1 Is a sliding base furnished for moving drill in and out so spindle can be positioned to align augers and drill rods?  YES  NO
  - X7.10.2 Will clearance from hole be provided for handling augers, casing/other tools?  YES  NO
  - X7.10.3 Will in-out slide base have at least 15 inches of travel and be hydraulically operated?**  YES  NO
  - X7.10.4 Will base have replaceable nylatron (or equal) wear plates?  YES  NO
- X7.11 Sliding Base: Sideways
  - X7.11.1 Will drill be movable from side to side  YES  NO 8 inches to facilitate alignment of auger and drill rods?**  YES  NO
  - X7.11.2 Will slide be hydraulically operated and equipped with replaceable nylatron (or equal) wear plates?  YES  NO

## X7.12 Steel Skid:

X7.12.1 Will drill be mounted on a steel skid with sled type runners?  YES  NO

X7.12.2 Skid ground clearance 12 inches and length 10 feet?  YES  NO

## X7.13 Hydraulic Hammer:

X7.13.1 Will hydraulic hammer be provided that will safely lift 140 pound drive weight 30 inches and completely release weight for a 30 inch free fall?  YES  NO

X7.13.2 Is rope or cable attached to weight that might impede free fall  YES  NO

X7.13.3 Hammer system provides rate of 50 blows per minute?

X7.13.4 Drive weight provided 140 pounds?

X7.13.5 A single acting hydraulic cylinder dedicated to operation of hammer device with        inches of travel?  YES  NO

## X7.14 Drill Dimension:

X7.14.1 Overall length of drill 85 inches

X7.14.2 Drill frame width 20 inches

X7.14.3 Slide base 24 inches

X7.14.4 Height of drill frame from bottom of slide base to highest point in travel position 54 inches?

## X7.15 Trailer:

X7.15.1 Will drill trailer be constructed of steel box tubing/12 gauge safety tread plate?  YES  NO  
If not specify \_\_\_\_\_

X7.15.2 Will 4 watertight tool boxes with approximately 21 cubic feet of storage be provided on trailer?  YES  NO  
Specify cubic feet 21.6

X7.15.3 Are auger and drill racks provided and mounted on trailer?  YES  NO

X7.15.4 Is trailer equipped with two (2) axles rated at axle capacity each 8,000 pounds

X7.15.5 Is trailer adequately sized for proposed unit?  YES  NO  
Trailer capacity 16,000 GVWR

X7.15.6 Will trailer be equipped with electric brakes?  YES  NO

- X7.15.7 Are Led lights/ **stop and turn signals, running lights, license plate light and bracket provided?**  YES  NO
- X7.15.8 Trailer has a lunette ring 2-1/2 inch diameter with 4 hole base 4,800 GTW
- X7.15.9 Will electrical cable be 7 pole Cole Hersee #12081 male plug provided?  YES  NO
- X7.15.10 Will trailer have heavy duty hydraulic leveling jacks that are individually operated from drill control panel?  YES  NO
- X7.15.11 **Are hydraulic jacks capable of supporting weight of machine plus loads generated during drilling operations?**  YES  NO
- X7.15.12 **Are check valves provided to prevent leakage or slippage?**  YES  NO
- X7.15.13 Will jack piston rods be completely enclosed to prevent damage?  YES  NO
- X7.16 Paint:
- X7.16.1 Will drill unit/trailer be primed/painted Manufacturers standard color?  YES  NO
- X7.17 **Will unit be delivered to WVDOH with all manufacturers safety related decals/safety features intact?**  YES  NO
- X7.18 **Will unit meet OSHA standards/subsequent amendments?**  YES  NO
- X7.19 Will unit meet advertising as specified in specification section 7.19?  YES  NO

VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37 (Does not apply to construction contracts) West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: \_\_\_\_\_ Signed: \_\_\_\_\_
Date: \_\_\_\_\_ Title: \_\_\_\_\_

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive



STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code* §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

*West Virginia Code* §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid

**LICENSING:**

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: Central Mine Equipment Company

Authorized Signature:  Date: January 26, 2009

## CME-45C

### SPECIFICATIONS FOR BORING AND SUBSURFACE

#### EXPLORATION DRILL MACHINE

**ITEM:** One relatively lightweight skid-mounted combination auger, core, rotary type boring machine having low overall travel height and a low center of gravity shall be required. The drill shall be easily on and off loaded or worked from a trailer that can be towed by a heavy-duty pickup truck.

**INTENT:** These specifications describe salient features that shall be required in a combination auger, core, rotary type skid-mounted drill unit on a trailer. The unit shall be completely assembled and ready for operation when delivered.

**PURPOSE:** This equipment shall be used for soil sampling, foundation testing, and subsurface exploration work. The drill machine shall be capable of performing auger borings in unconsolidated formations with hollow-stem augers. The drill shall have the capability of productively using currently popular geoexploration methods and techniques that include shelby tube or continuous tube sampling and standard penetration testing.

**GENERAL SPECIFICATIONS:** The drill shall be a self-contained unit having a single engine power source. The power shall be appropriately directed to the hydraulic system and mechanically-driven drill head. A hydraulically actuated folding upright drill frame with twin hydraulic feed cylinders shall be supplied. The assembled drill with its complement of auxiliary equipment shall be so arranged that work may be carried on with optimum efficiency and a minimum of manual labor. All parts, materials and workmanship shall be of the highest quality recognized by the trade. The drill unit shall be thoroughly field tested and ready for immediate and continuous operation at time of delivery. The equipment proposed must be a current model under standard production, being produced in quantity for national distribution. The manufacturer must have a minimum of three years production experience designing and manufacturing this type of equipment. The drill shall have been in production for at least two years. Dealer or vendor modifications to a non-conforming model for the express purpose of meeting minimum specification requirements will not be acceptable. Parts and accessories shall be stocked and readily available from the successful vendor. The drill unit shall be furnished with all standard equipment advertised whether or not specifically called for here, except where optional or conflicting equipment is specified. The drill shall meet the following specifications.

**ROTARY DRIVE:** The drill transmission shall have at least four speeds forward and one speed reverse. The transmission shall be mounted stationary on the drill main base frame with a heavy-duty clutch immediately adjacent to the transmission power input. The maximum drill spindle torque shall exceed 3,380 foot-pounds in first gear. Rotational speeds of the drill spindle shall range from at least 110 RPM in first gear to more than 698 RPM in fourth gear at 2,500 engine RPM. The output of the transmission shall power a single speed right angle drive. The right angle drive output shall turn a drive shaft connected to the rotary box. The rotary box shall be stationary with respect to the drive head travel. The rotary box shall be grease packed. The minimum rotary box chain size shall be double 80 series. The rotary box shall turn a rotary drive bar that has a square cross section of at least 1.75 inches a side and shall be made of heat-treated alloy steel. The drill shall be equipped with a heavy-duty auger drive universal joint and 1-5/8 inch hexagon drive socket. Provision against shock overload to the rotary drive shall be accomplished through an easily adjustable torque-limiting clutch.

**VERTICAL DRIVE:** The vertical drive shall consist of two double-acting hydraulic feed cylinders with an overall stroke or travel of at least 68 inches. The feed cylinders shall have a point of thrust centered upon the axis of the drill spindle. The feed slide bushings shall be split for ease of removal and replacement. The vertical drive shall have a maximum downward thrust of not less than 13,650 pounds and an upward or retract force of not less than 19,600 pounds. The feed cylinders shall have a minimum piston rod diameter of 1.375 inches to withstand compressive forces when retracting augers from the ground without rotation. Hydraulic gauges shall be provided on the control panel at the left rear of the drill to indicate in pounds per square inch the hydraulic feed pressure and system pressure. Hydraulic controls shall be furnished for varying the feed rate and down pressure. The maximum rate of feed shall not be less than 79 feet per minute down and 55 feet per minute up.

**DRILL POWER UNIT:** The power unit shall be a self-contained electric starting, air-cooled, heavy-duty 3-cylinder industrial type diesel engine, having not less than 197 cubic inch displacement and a minimum 61 gross horsepower. The engine shall meet U.S. EPA Tier 2 emission certification. The unit shall be equipped with a heavy-duty oil bath air cleaner, a governor, a replaceable full flow oil filter and a cold-weather starting aid. The unit shall have a 12-volt electric starting system consisting of a starter, alternator, battery and regulator. The unit shall have a keyed ignition switch on the drill control panel and an engine throttle.

The power unit shall be equipped with a dry disc clutch not less than 13 inches in diameter and a transmission having not less than four speeds forward and one reverse. When coupled with the drill unit, the engine shall have sufficient power to meet all requirements

listed elsewhere in this specification. The fuel tank shall have a capacity of not less than 20 gallons and shall have level indicator sights.

**UPRIGHT DRILL FRAME WITH PERMANENTLY COUPLED DRIVELINE:** The upright drill frame shall be hydraulically actuated permitting 90-degree fold over for traveling. The depth of the upright part of the base frame shall be at least 8 inches for rigidity. Two 2.5 inch ID double-acting hydraulic cylinders that have a minimum of 1.375-inch diameter rods shall control the drill frame movement. The direct-coupled mechanical drive train to the rotary shall not have to be disconnected when folding the upright drill frame over to a horizontal travel position, and it shall be capable of drilling holes from vertical to 30 degrees from horizontal.

**HYDRAULIC SYSTEM:** This system shall have a heavy-duty engine driven hydraulic pump run independently of the gear train with a capacity of not less than 25.5 GPM at 2,000 PSI. The system shall be equipped with a full-flow replaceable element hydraulic oil filter in the low pressure return line. A hydraulic oil cooler shall be furnished. The hydraulic oil reservoir shall have adequate capacity and shall be equipped with level indicator sight eyes, a vented filler cap and a magnetic drain plug. The hydraulic pump shall be driven from a point in the line of power transmission so that hydraulic power will be available whenever the engine is running.

**DRILLER'S CONTROL PANEL:** All controls and gauges needed for the various drilling operations shall be placed in such a manner as to be easily accessible and convenient for the drill operator while permitting a view of the drilling operation at all times. The driller's control panel shall be mounted on the left rear of the drill and shall include the following instrumentation and controls:

- (a) Keyed ignition switch and starter button.
- (b) Push-button emergency engine shut-off switch.
- (c) Engine throttle.
- (d) Transmission gear selector and lock-out clutch handle and auxiliary spindle brake set valve.
- (e) Gauges: Hour meter, engine oil pressure, engine oil temperature and volt meter.
- (f) Hydraulic gauges for systems pressure and pull-down pressure.
- (g) Feed rate and feed pull-down pressure controls.
- (h) Feed and detented feed levers.
- (i) Hydraulic controls for all standard and provided optional components.

The drill controls shall be arranged in groups and situated for convenience according to frequency of use. For safety and convenience, the hydraulic levers shall have directional

control that corresponds with cylinder movement. For example, moving the feed lever up shall extend the feed cylinders.

**SAFETY AND EMERGENCY SHUT-DOWN SYSTEM:** Push-button emergency shut-off switches shall be located on the control panel and on the right side of the main drill frame. Two emergency multi-directional wobble shut-off switches with extended levers shall be located near the bottom of and parallel to the feed cylinders. When any emergency shut-off switch is activated, a drive line brake is engaged to stop the spindle rotation in less than one revolution, the clutch is released, and the engine is shut down. The system shall also include a lock-out type clutch handle that positively locks the clutch handle in the down or disengaged position and an auxiliary spindle brake set valve. A neutral start switch is to be included that only allows the engine to start when the clutch is disengaged. A mast-raising alarm shall be included to alert the drill crew to look for overhead obstructions.

**MAST:** The mast shall be secured by bolts to the upright drill frame and shall be removable from the drill when not needed. With the mast in a vertical position, the sheaves shall be not less than 15 feet from the base of the drill main frame. The maximum line pull of the draw works shall be evenly distributed on four cross-braced tubular members with an adequate margin of safety. Pairs of 8 inch diameter sheaves shall be aligned with the rope or wire rope they carry. Two hydraulic cylinders shall be provided to raise and lower the upright drill frame and mast.

**DRAW WORKS:** The draw works shall include a hydraulic hoist and a hydraulic wireline hoist.

The first hydraulic hoist shall have a maximum pulling capacity of not less than 3,200 pounds. Maximum line speed shall be not less than 100 feet per minute. One hydraulic lever shall be furnished for controlling hoisting or lowering and rotation speed. The hoist shall include at least 60 feet of 3/8 inch diameter wire rope and a safety Shur-Lok hook.

The hydraulic wireline hoist shall have a maximum pulling capacity of not less than 1,800 pounds. Maximum line speed shall be not less than 200 feet per minute. One hydraulic lever shall be furnished for controlling hoisting or lowering and rotation speed. Cable shall not be included.

**DRILL WINCH:** A hydraulic winch with a maximum pulling capacity of 12,000 pounds shall be furnished for pulling the skid-mounted trailer-mounted drill. A single hydraulic lever shall control rotation direction and speed. The winch assembly shall be powered by a one speed hydraulic motor operated from the drill hydraulic system. A three-speed forward, one-speed reverse transmission shall be furnished between the hydraulic motor and the winch. The winch shall have a maximum line speed of 40 feet per minute. The

winch assembly shall include 100 feet of 1/2 inch wire rope with safety hook and roller guides.

**SLIDING BASE, IN-OUT:** A sliding base shall be furnished for moving the drill in and out so that the drill spindle can be positioned to facilitate alignment of augers and drill rods and to provide clearance from the hole for handling augers, casing and other down-hole tools. With the slide base extended, the center of the auger drive shall be at least 15 inches from the rear of the skid to provide ample working room. The in-out slide base shall have at least 15 inches of travel and shall be hydraulically operated. The in-out slide base shall have a replaceable nylatron (or approved equal) wear plate between the metal slide surfaces.

**SLIDING BASE, SIDEWAYS:** A sliding base shall be furnished for moving the drill to either side so that the drill spindle can be positioned to facilitate alignment of augers and drill rods when starting or drilling a hole. The sideways slide base shall have at least 8 inches of travel and shall be hydraulically operated. The sideways slide base shall have nylatron (or approved equal) wear plate between the metal slide surface.

**STEEL SKID:** The drill shall be mounted on a steel skid with widely spaced, sled-type runners. The skid ground clearance shall be at least 12 inches. The length of the skid shall not exceed 10 feet.

**HYDRAULIC HAMMER:** A hydraulic hammer system shall be furnished that will lift a 140 pound drive weight 30 inches and completely release the weight for a 30 inch free fall. No rope or cable shall be attached to the weight that might impede free fall. The system shall have a minimum rate of at least 50 blows per minute. The hammer shall be preset at the factory for a consistent weight fall height through the use of adjustable priority hydraulic control valves. Once the valves are set, the fall height of the hammer weight shall not be affected by engine throttle adjustments. The fall height shall have a tolerance of plus or minus 1/2 inch. A method for visual verification of the fall height of the weight while the hammer is in operation shall be provided. The hammer shall be mounted on one single-acting hydraulic cylinder which is dedicated to the operation of the hammer device and shall be attached to the upright drill frame opposite of the control panel. The hammer device shall be hydraulically raised or lowered by this hydraulic cylinder through 60 inches of vertical travel. A 140 pound drive weight shall be furnished. A safety feature shall be furnished that will prevent the hammer from operating if the anvil is not in place.

**HYDRAULIC LEVELING JACKS:** Heavy-duty hydraulic leveling jacks shall be furnished that are individually operated from the control panel at the left rear of the drill. The jacks shall provide adequate leveling capability and shall be strong and rigid enough to easily support the total weight of the machine plus the loads generated when retracting drilling

tools. Check valves shall be furnished in the hydraulic lines to prevent leakage or slippage of the jacks while the drill is set up on a site. The chrome-plated jack piston rods shall be completely enclosed to safeguard them from damage.

Two jacks shall be mounted at the rear of the trailer, one on each corner. The maximum cylinder travel shall not be less than 36 inches. The minimum outside diameter of the jack cylinders shall be 4.5 inches with a 4 inch bore and 2.5 inch diameter piston rod.

One jack shall be mounted at the center front of the trailer. The maximum cylinder travel shall not be less than 36 inches. The minimum outside diameter of the jack cylinders shall be 4.5 inches with a 4 inch bore and 2.5 inch diameter piston rod.

The jack hydraulic hoses shall have quick disconnect fittings to facilitate removal of the skid mounted drill from the trailer. Jack hose extensions shall be provided.

**TRAILER ASSEMBLY:** The trailer shall be constructed of steel box tubing and 12 gauge safety tread plate. Four watertight tool boxes having a total capacity of not less than 21.6 cubic feet shall be furnished. A license plate bracket, plus auger and drill rod racks shall be supplied. The trailer shall have two axles rated at 8,000 pounds each with four 235/70R17.5 (H) tires and a 16,000 pound capacity. Brakes shall be electric type. LED stop, turn signals, running, and license plate lights meeting DOT requirements shall be provided. The trailer shall be undercoated and equipped with a lunette eye.

**IDENTIFICATION:** CME-45C.

**COLOR:** The drill unit, drill platform and all parts normally painted shall be primed and painted the manufacturer's standard color (Chrome Yellow). All exposed hydraulic cylinder piston rods shall be covered to prevent over spray during painting.

**MISCELLANEOUS:** All equipment cataloged as standard shall be furnished and shall be included in the purchase price of the unit. The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load, and the manufacturer's rated loads for chains, bearings and universal joints shall not be exceeded when the unit is loaded with such loads.

The torque capacity of each driven part shall be equal to or exceed the torque capacity of its driving member.

This machine is to be delivered in first-class operating condition with acceptance subject to inspection and approval. The successful bidder, at a time designated, shall provide two

days of training to familiarize personnel with the correct operation and servicing procedures for the equipment delivered.

All items which require periodic lubrication shall be provided with a suitable lubrication fitting.

14 copies of the manufacturer's service manual containing operating instructions, maintenance instructions and a bill of material or parts list shall be furnished by the manufacturer.

All pressure systems shall be provided with suitable pressure relief valves. With the exception of the drill rotary box spindle and drilling tools, all moving parts which are so located as to be a hazard to operating or maintenance personnel shall be fully enclosed or properly guarded. Protective devices shall not impair the operating functions.

The equipment to be furnished under these specifications shall be warranted against defective design, materials and workmanship for a period of two years. Two copies of the manufacturer's warranty shall be furnished.





## **CENTRAL MINE EQUIPMENT COMPANY**

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4215 Rider Trail North • Earth City, MO 63045-1106 • 314-291-7700 • 800-325-8827  
Fax 314-291-4880 • e-mail: info@cmeco.com • website: www.cmeco.com

### **CME DRILL RIG WARRANTY**

The Central Mine Equipment Company warrants all equipment of their manufacture to be free from defects in material and workmanship under normal use and service for 12 months or 1,200 hours, whichever occurs first, after original purchase and which our examination shall disclose, to our satisfaction, to have been thus defective. This warranty being expressly in lieu of all other warranties and representations expressed or implied.

During the warranty period when necessary to repair a warrantable failure, Central Mine Equipment Company shall provide on-site warranty repair work or will pay reasonable and customary fees and costs for mechanics to travel to and from the site where the equipment is located or will provide transportation to and from a site accessible to a trailer or wrecker to an authorized repair facility.

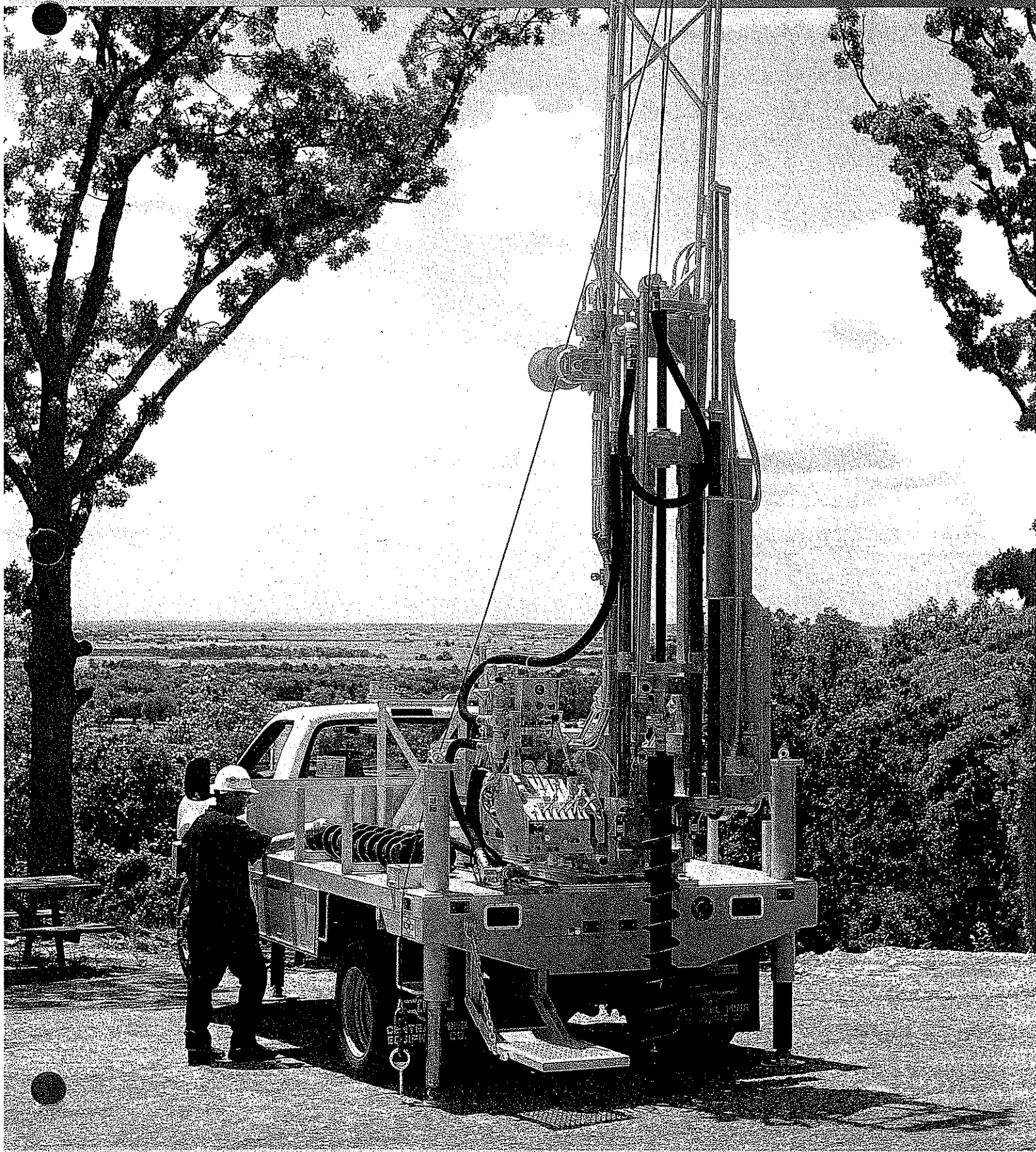
This warranty shall not apply to any CME equipment which shall have been repaired or altered outside the factory in any way so as to affect its stability, which has been subject to misuse, negligence, accident or operated in any other manner than in accordance with our operating instructions. Nor does it cover wear or wear out of parts due to normal use, clutches, filters, belts or operation of the unit without adequate or proper oils, coolant and lubricants. CME is not responsible for lack of or improper maintenance and failures caused by contaminated fluids.

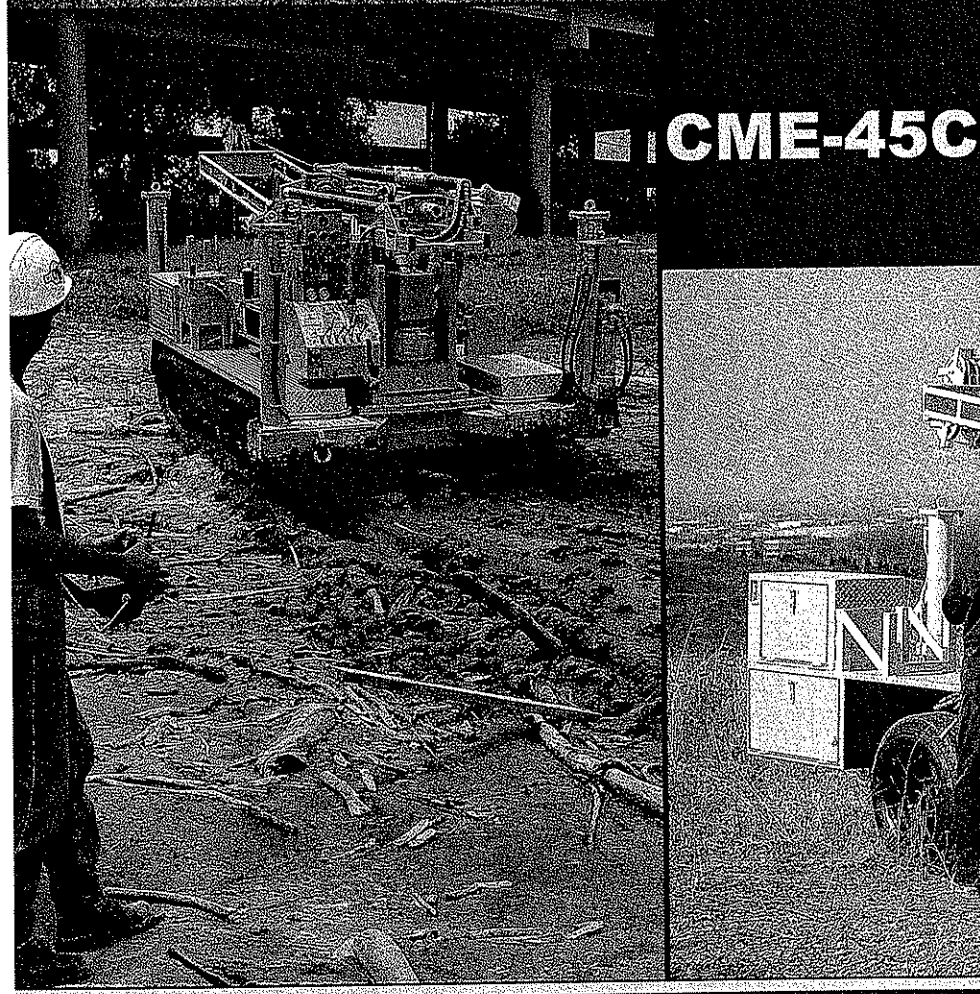
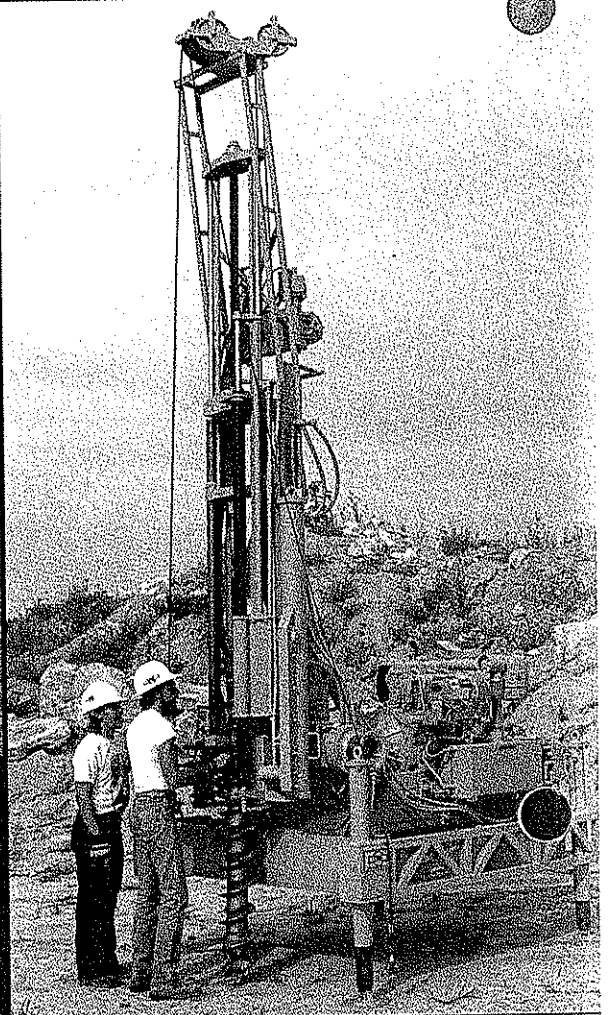
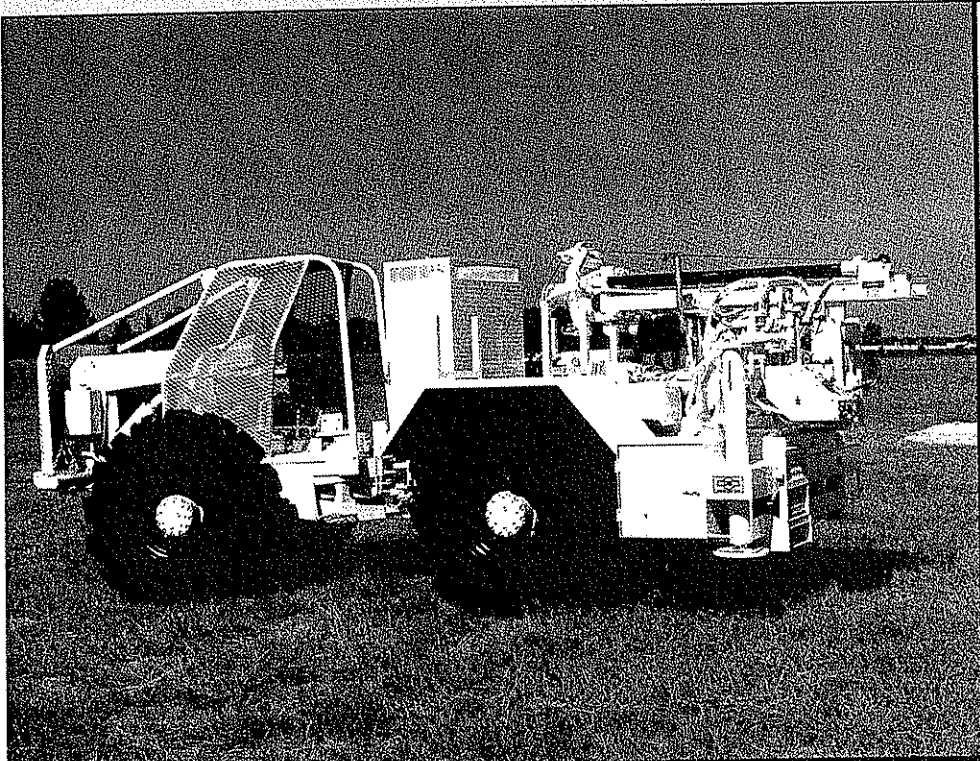
The equipment's engine is warranted directly by its manufacturer as is the cab and chassis upon which truck-mounted drills are installed.

---

David A. Neibert, President

# CME-45C





# Optional Equipment

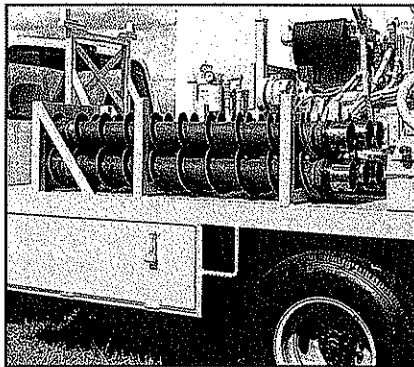
## for even more productivity

### Automatic SPT hammer\*

Our 140-pound (63.5 kg) automatic hammer gives you extremely consistent and accurate Standard Penetration Test results, meeting all ASTM-D-1586-99 requirements. There are no ropes or cables to impede the free-fall of the weight. A viewing slot allows you to verify the 30 inch (76 cm) fall height.

The hammer swings on a hydraulic cylinder, from the stored position to on-hole position. And the five foot vertical travel also allows you to use the hammer to drive casing or probes. Since raising and lowering is done hydraulically, set-up is quick and almost effortless.

To improve safety, all moving parts are enclosed, including the impact area between weight and anvil.



### Auger and rod storage

Above deck auger and rod racks are provided with the optional drill platform.

Several tool box, auger and rod storage configurations are available.

### Slide bases make the job easier and quicker

Slide base options are available for both in-out and sideways movement of the drill on the platform.

A 15 inch in-out movement allows you to quickly move the drill off the borehole and align the sheaves for lifting tools with the cathead or any of the hoists.

A 12 inch sideways movement gives you even more versatility. Aligning augers or rods when making connections is easy. Or, if the bit drifts off at an angle when you start a hole, you can quickly straighten it to a vertical position.

Since the uprights and optional mast are mounted directly to the drill frame, they move with the drill when the slide bases are used. That means you can drill in any position within a 170 square inch area without moving the carrier.

If you've ever tried to line up your rig on an existing borehole, you've probably already recognized another benefit of the slide bases.

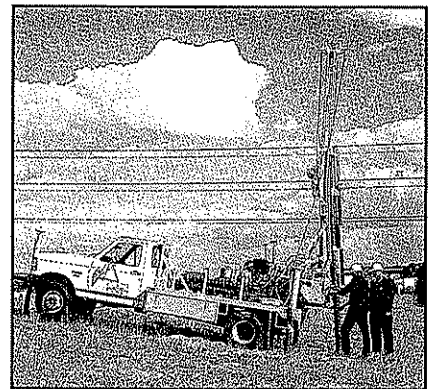
### Angle drilling system for special applications\*

This unique system allows you to drill holes at various angles between horizontal and vertical. It is especially effective for drilling

underneath ponds, storage tanks or other structures. When used with our patented Continuous Sample Tube System, you can even take soil samples while drilling angle holes.

The angle drilling system will also allow you to drill vertically with the rig positioned on an uphill slope. That can eliminate the time-consuming job of leveling an area on which to place the rig.

And, since the kelly drive is directly connected to the right angle drive box, you can raise or lower the mast with the drivetrain already connected and ready to go.





## Additional optional equipment

Drill platform

CME-300 remote controlled tracked carrier

Steel skid

Hydraulic winch, 12,000 lb. (5,443 kg) capacity (for skid-mounted applications)

Electric throttle

Rod holder and Break-out wrench (for CME-300 tracked carrier applications)

Hydraulic leveling jacks

Continuous Sample Tube System

Pavement coring attachment

Stabilized side feed water swivel

Mast, 15 ft. (4.6m), 18 ft. (5.5 m), or 20 ft. (6 m)

(from base of frame to sheaves)

Cathead, 8 in. (20.3 cm) diameter

5,000 lb. (2,268 kg) hydraulic hoist

max line speed...50 ft (15m)/min.

3,200 lb. (1,452 kg) hydraulic hoist

max line speed...100 ft (30m)/min.

1,800 lb. (816 kg) hydraulic hoist

max line speed...200 ft./min.

Hydraulic wireline hoist (1800 lb. pull)

max line speed...200 ft./min.

Auger and rod guides for angle drilling

Water tank (available with rod storage underneath and rack on top)

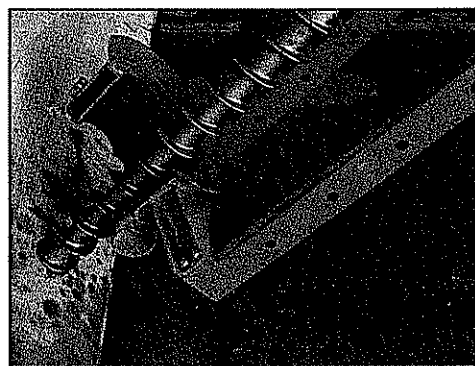
Water pumps:

Progressive cavity..... 36 gpm/150 psi (136 lpm/1,034 kPa)

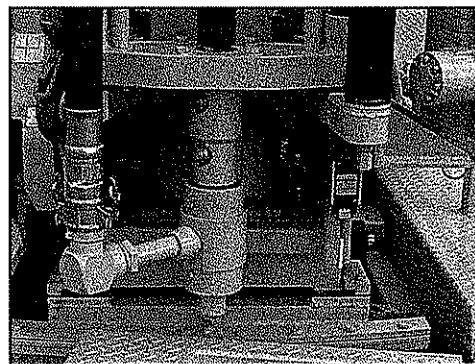
Progressive cavity..... 36 gpm/225 psi (136 lpm/1,551 kPa)

Triplex piston .....20 gpm/600 psi ( 76 lpm/4,137 kPa)

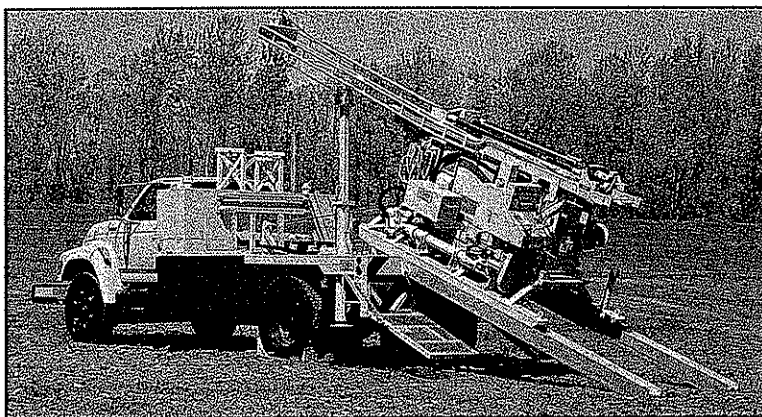
(Other pumps available)



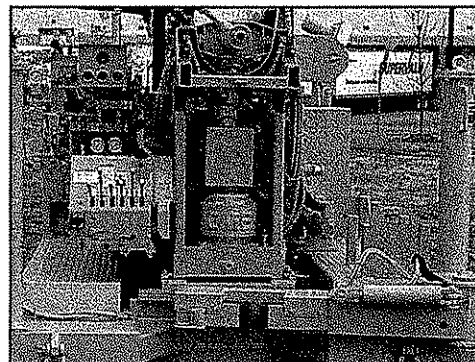
Angle drilling auger guide



Stabilized side feed water swivel



Skid/truck mounted application



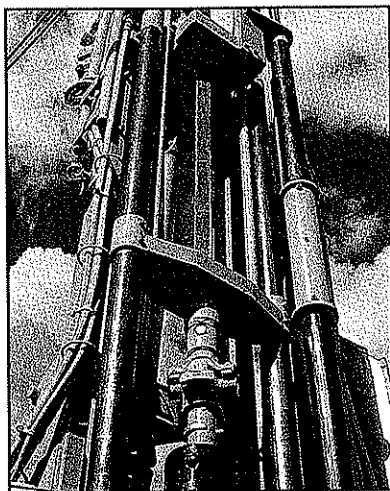
\*Rod holder and break-out wrench  
on CME-300 tracked carrier

# For your *specific* applications...

**Truck, trailer, skid, ATV, tracked carrier, helicopter-portable...  
the choice is yours.**

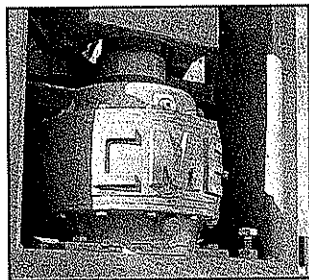
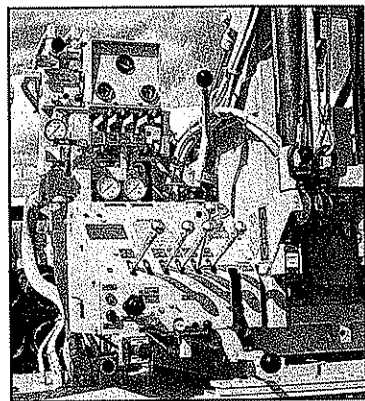
**Hydraulic feed and retract system provides 19,600 pounds of retract force and 13,650 pounds of down pressure.**

The 68 inch stroke, hydraulic vertical drive system has no chains or cables which can stretch. It gives you precise control of force on the drilling tools.



**Control Logic - the key to operator productivity.**

All drilling and setup controls are logically arranged on a control panel located at the driller's station. A lock-out position for the clutch lever helps prevent accidental engagement.

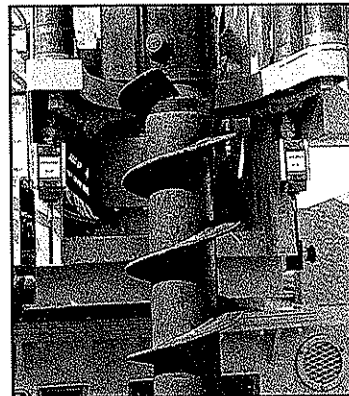


**Rugged mechanical rotary drive with up to 4,730 foot pounds of torque.**

Several torque and rotation speed combinations are available, including a high-speed rotary drive that gives you up to 760 rpm.

The four-speed transmission is connected to the drill engine through a heavy-duty clutch. With four forward gears and one reverse, there's a rotation speed and torque combination available for just about any situation.

The mechanical rotary drive also gives you a good feel for changes in soil and drilling conditions down the hole. It allows you to sense the need to adjust feed pressure and rotational torque. A torque limiting clutch, which is adjustable, provides protection against shock overload.



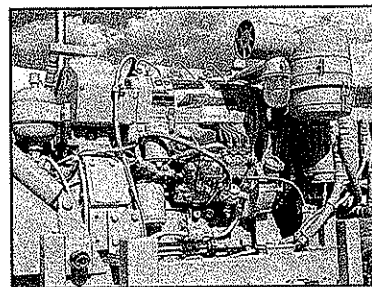
**Patented spindle brake stops rotation in an instant**

Our emergency spindle brake can stop rotation in less than a revolution. This system is activated by two conveniently located push-button switches as well as by strategically located, multi-directional wobble switches. All switches

are located on the drill and are not affected if the drill is removed from the carrier.

**Dependable Deutz diesel power**

The CME-45C is powered by a 187 cubic inch Deutz air-cooled 3 cylinder diesel engine rated at 59 horsepower.



*Safety...  
it's a habit you can live with.*

## Specifications

### Power

59 horsepower Deutz 187 cubic inch air-cooled 3 cylinder diesel engine

### Rotary Drive

Standard:

Rotary torque .....3,337 ft. lbs. (4,525 Nm)

Rotary speed .....698 rpm max

High torque:

Rotary torque .....4,730 ft. lbs. (6,414 Nm)

Rotary speed .....492 rpm max

High speed:

Rotary torque .....3,063 ft. lbs. (4,166 Nm)

Rotary speed .....760 rpm max

Clutch, heavy duty ..... 12 in. (30.5 cm)

Transmission .....4 speed fwd., 1 speed rev.

### Hydraulic Feed System

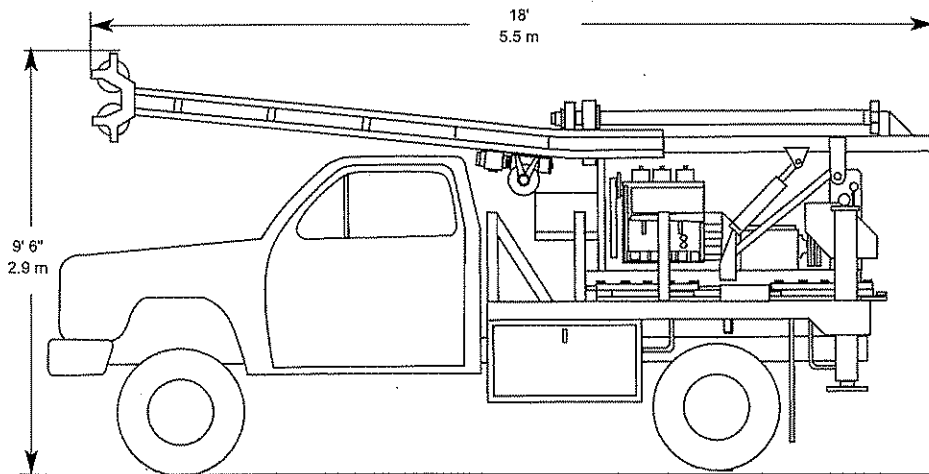
Retract force .....19,600 lbs. (8,891 Kg)

Pulldown force .....13,650 lbs. (6,192 Kg)

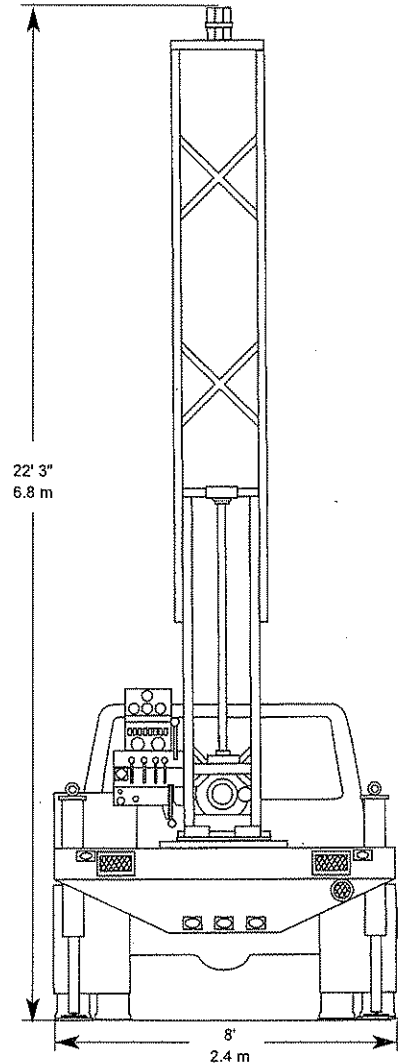
Retract rate (max) .....55 ft./min. (17 m/min)

Feed rate (max) .....80 ft./min. (24 m/min)

Stroke .....68 in. (173 cm)



Typical truck mounted configuration with optional deck platform and 18' mast.  
Dimensions will vary, depending on truck wheel base and all-wheel drive applications.



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