| Dobias Residence Project Title | | | | 1 Date | 11/23/2004 |
|---|----------------------------|--|---------------------------------|---------------------------------|----------------------------------|
| 2361 Old Mammoth Project Address | Road Mami | noth Lakes | | | |
| Project Address Title 24 Data Corpor Documentation Author | | | 237-8824 | | Permit # |
| Documentation Author Computer Performan | | | Telephone 16 | Field Ch | neck / Date |
| Compliance Method (Package | | | Climate Zone | | ment Agency Use Or |
| GENERAL INFORMATION | | | | | |
| Total Conditioned Floor Total Conditioned Slab | Area:1,97 | <u>3_</u> ft ² <u>0_</u> ft ² | Average Ceilir | ng Height: | <u>9.6 ft</u> |
| Building Type: (check one or more) | | | | | |
| Single Family Deta | ached | Addition | | | |
| Single Family Atta | ched | Existing Buildi | | | |
| ☐ Multi—Family | | Existing Plus | Addition | | |
| Front Orientation: <u>(Nor</u> | | | nstruction Type:[| Slab Floor | |
| Number of Dwelling Un | nits:1.0 | 0 | | ─ X Raised Floor | r |
| Number of Stories: | | <u>Z</u> | L | V Valzea i 1001 | |
| BUILDING SHELL INSULA | ATION | | | | |
| Component | Fram | Const. e Assembly | Loca | ation/Comment garage, typico | tş , |
| Type R-19 Floor | Type Woo | | (attic, Exterior Floor / Ove | | |
| Log Wall | | | Exterior Wall | # Crawispace (w/ | K-6 Credity |
| R-19 Wall R-30 Roof | | | Exterior Wall Exterior Roof | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| FENESTRATION | | | | Shading De | evices |
| Type Orientation Ar (S | ea F) U—Fac | Fenest or SHO | | terior Ov ading Yes | verhang Side Fir / No Yes / N |
| <u>Left (Northeast)</u> | <u>178</u> <u>0.45</u> | 0.3 | | Screen | $\overline{\mathbf{x}}$ |
| • | 57.3 37.8 0.47 0.45 | | | Screen Screen | |
| | 75.9 0.47 | 0.4 | | Screen | |
| - - | 17.8 0.45 | 0.3 | | Screen | |
| • | 32.8 0.47 | 0.4 | | Screen | X |
| | 20.0 0.45 | 0.3 | | Screen | |
| | 875 455 0.48 | | | Screen Screen | |
| | 74.0 0.48 | 0.5 | | Screen | |
| | 15.0 0.48 | 0.5 | | Screen | |
| | 0.48 | 0.5 | | Screen | |
| Г | Run Initiation Time: | 11/23/04 00.3 | | un Code: 110123 | <u> </u> |
| | <u>van minianon fille:</u> | 11/23/04 09:3 | Job Number:14001 | un coue. HUIZ. | 31393 Page:3 of 20 |

| Dobias Residence | | | | | 11/23/2004 | |
|---|--|--|---|--|---|---------------------------------|
| Project Title | | | | Date | | |
| HVAC SYSTEMS Note: In | put Hydronic or (| Combined Hydronic data ur | der Water He | eating Systems, exce | pt Design Heating Load. | |
| Heating Equipment Type (furnace, heat | Minimum Efficiency | Distribution Type and Location | Duct or Piping | Thermostat | Location / Comments | |
| pump, etc.) | · | F)(ducts, attic, etc.) | 4.2 | Setback | Res HVAC | |
| Central Furnace Gravity Wall Furnace | | Ducts in Attic Ductless / with Fan | | | | |
| | | | | | | |
| Cooling Equipment Type (air conditioner, heat pump, evap. cooling) | Minimum Efficiency (SEER) | Duct Location (attic, etc.) | Duct R-Value | Thermostat Type | Location / Comments | |
| No Cooling | 10.0 SEER | Ducts in Attic | 4.2 | Setback | Res HVAC | |
| No Cooling | _10.0 SEER_ | Ducts in Attic | 4.2 | Setback | Res HVAC - Guest | |
| | | | | | | |
| | ater Heater | Distribution # in | Rated ¹ Input t. Btu/hr | Tank Ener Cap. or Re (gal) Effici | ecovery Standby | Externa Tank Inst R-Value |
| | /pe istant Gas S | | | | 0.82 1 | п/а |
| For small gas storage (rated inputer large gas storage water heats For instantaneous gas water heat REMARKS www.title24.qpg.come-mail: title24@frazmtn.com "One Day Service" since 1978 | ers (rated input of g | greater than 75,000 Btu/hr), li: | st Rated Input | , Recovery Efficiency a | and Standby Loss. | |
| | ENT | eatures and performance s | specifications | s needed to comply | with Title 24, Parts 1 and | d 6 of the |
| COMPLIANCE STATEMI This certificate of compliance lis California Code of Regulations, overall design responsibility. The and field verification by an appro Designer or Owner (per E Name: Title/Firm: Scott Dobias Address: 321 Cazador Lar | and the adminis e undersigned re oved HERS rater Business & Profe | trative regulations to imple ecognize that compliance of essions Code) | ement them. using duct se Pocument lame: | ealing and TXV's re t ation Author <u>Monika Kimball Ri</u> | been signed by the indiquires installer testing ar ES01-1026 poration | nd certification |
| This certificate of compliance lis California Code of Regulations, overall design responsibility. The and field verification by an appropriate of Complex (per EName: Title/Firm: Scott Dobias Address: 321 Cazador Lar | and the adminis e undersigned re eved HERS rater Business & Profe | trative regulations to imple ecognize that compliance of essions Code) N | ement them. using duct se Pocument lame: little/Firm: address: | ealing and TXV's re tation Author Monika Kimball Ri Title 24 Data Corp 633 Monterey Tra Frazier Park, CA S | been signed by the indiquires installer testing ar ES01-1026 Poration il 33225-2199 | nd certification |
| This certificate of compliance lis California Code of Regulations, overall design responsibility. The and field verification by an appro Designer or Owner (per E Name: Title/Firm: Scott Dobias Address: 321 Cazador Lar San Clemente, C Telephone: (949) 310-8187 | and the adminis e undersigned re eved HERS rater Business & Profe | trative regulations to imple ecognize that compliance of essions Code) N | ement them. using duct so cocument lame: litle/Firm: address: | tation Author Monika Kimball Ri Title 24 Data Corp 633 Monterey Tra Frazier Park, CA 9 (800) 237-8824 | been signed by the indiquires installer testing and ES01-1026 poration il | nd certification |
| This certificate of compliance lis California Code of Regulations, overall design responsibility. The and field verification by an appro Designer or Owner (per E Name: Title/Firm: Scott Dobias Address: 321 Cazador Lar San Clemente, C Telephone: (949) 310-8187 Lic. #: (signature) Enforcement Agency Name: Title/Firm: | and the adminis e undersigned re eved HERS rater Business & Profe | trative regulations to imple accognize that compliance in the sessions Code) Sessions Code) N T (date) | ement them. using duct so cocument lame: litle/Firm: address: | tation Author Monika Kimball Ri Title 24 Data Corp 633 Monterey Tra Frazier Park, CA 9 (800) 237-8824 | been signed by the indiquires installer testing ar ES01-1026 Poration il 33225-2199 | nd certification |
| This certificate of compliance lis California Code of Regulations, overall design responsibility. The and field verification by an appro Designer or Owner (per E Name: Title/Firm: Scott Dobias Address: 321 Cazador Lar San Clemente, C Telephone: (949) 310-8187 Lic. #: (signature) Enforcement Agency Name: Title/Firm: | and the adminis e undersigned re eved HERS rater Business & Profe | trative regulations to imple accognize that compliance in the compliance of the comp | ement them. using duct so pocument lame: little/Firm: address: elephone | ealing and TXV's re tation Author Monika Kimball RI Title 24 Data Corp 633 Monterey Tra Frazier Park, CA S (800) 237-8824 | been signed by the indiquires installer testing and ES01-1026 poration il | /· Z3·o |

| Dobias Residence | 1/23/2 | 004 |
|---|---------|-----|
| Special Features and Modeling Assumptions The local enforcement agency should pay special attention to the items specified in this checklist. These items require specy written justification and documentation, and special verification to be used with the performance approach. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies. | ia s | |
| based on the adequacy of the special justification and documentation submitted. | Plan | Fie |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 350 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor | | |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 392 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor HIGH MASS Design(see C-2R) - Verify Thermal Mass: 340 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor | | |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 340 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor HIGH MASS Design(see C-2R) - Verify Thermal Mass: 156 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor | | |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 90 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor - Gues | † | |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 20 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor - Gues | | |
| HIGH MASS Design(see C-2R) - Verify Thermal Mass: 112 sqft Wood, Solid/Logs Exterior Mass, 12.00" thick at Main Floor - Gue | | |
| | | |
| HERS Required Verification These features must be confirmed and/or tested by a certified HERS rater under the supervision of a CEC approved HERS provider. The HERS rater must document the field verification and diagnostic testing of these measures on a form CF-6R. | Plan | Fie |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approaches (*) may be supersected by more stringent compliance requirements listed on the Certificate of Compliance. | | |
|--|----------|----------|
| the permit documents, the features noted shall be considered by all parties as minimum component performance so | | |
| whether they are shown elsewhere in the documents or on this checklist only. | | |
| DESCRIPTION Instructions: Check or initial applicable boxes or enter N/A if not applicable. | DESIGNER | ENFORCEM |
| Building Envelope Measures | | |
| * ^5C(a): Minimum R—19 ceiling insulation. | | |
| ´5C(z): Loose f'll insulation manufacturer's labeled R—Volue. | | |
| * '5C(c): Minimum R-13 wall insulation in wood framec walls or equivalent U-value in metal frame walls (does not apply to exterior mass walls). | | |
| * '5C(d): Minimum R-13 raisec floor insulction in framed floors or equivalent. | | |
| 750(1): Slab edge insulation — water cosoration rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch. | | |
| 18: Insulation specifiec or installed meets insulation quality standards. Incicate type and form. | | |
| 116-17: Ferestration Products, Exterior Doors and Infiltration/Exfiltration Controls | | |
| Doors and windows between concitioned and unconditioned spaces designed to limit air leakage. | | |
| Fenestration products (except field fabricated) have label with certified J-Factor, certified Solar Heat Gain | | |
| Coefficient (SHGC), and infiltration certification. | | |
| Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed. | | |
| '5C(g): Vapor barriers manatary in Climate Zones 14 and 16 only. | | |
| '50(t): Special infiltration barrier installed to comply with Section 151 meets Commission quality standards. | | |
| | | |
| 55(e): Installation of Freplaces, Decorative Gas Appliances and Gas Logs. | | |
| ´. Masonry and fcctory—built f'replaces have: | | |
| a. Closeable metal or glass coor | | |
| b. Outside air intake with damper and control | | |
| c. Flue damper and control | | |
| 2. No continuous burring gas pilots allowed. | | |
| Space Conditioning, Water Heating and Plumbing System Measures | | |
| | | |
| | | |
| '5C(n): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA. | | |
| (50(*): Setacck hermostat on all applicable heating and/or cooling systems. | | |
| 50(): Pipe and Tank Insulation Storage are water heaters and with an Energy Eactor less tage 0.58 must be extended, wrapped with | | |
| Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R-12 or greater. | | |
| 2. First 5 feet of pipes closest to water heater tank, non-recirculating systems, insulated (R-4 or greater) | | |
| 3. Back—up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R—12 external | | |
| insulation or R-16 combined internal/external insulation. | | |
| 4. All buried or exposed picing insulated in recirculating sections of hot water systems. 5. Cooling system piping celow 55 degrees F. insulated. | | |
| 6. Piping insulating between hecting source and indirect hot water tank. | | |
| | | |
| EnergyPro 3.1 By EnergySoft User Number: 1348 Job Number: 114001 | | Page: 6 |

| DF21 | CRIPTION Instructions: Check or initial applicable boxes or enter N/A if not applicable. | DESIGNER | ENFORCEMENT |
|------|--|----------|-------------|
| Spa | ce Conditioning, Water Heating and Plumbing System Measures: (continued) | | |
| * | ^k 150(m): Ducts and Fans | | |
| | 1. All ducts and plenums installed, sealed and insulated to meet the requirements of the 1998 CMC Sections 601. 603, 604 and Standard 6-3; ducts insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape, aerosol sealant, or other duct-closure system that meets the applicable requirements of UL181, UL181A, or UL181B. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used. Building cavities shall not be used for conveying conditioned air. Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and drawbands. 2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts. 3. Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such a tape is used in combination with mastic and drawbands. 4. Exhaust fan systems have back draft or automatic dampers. 5. Gravity ventilation systems serving conditioned space have eitherautomatic or readily accessible, manually operated dampers. | | |
| | 6. Protection of Insulation. Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance. and wind but not limited to the following: Insulation exposed to weather shall be suitable for outdoor service e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material. | | |
| | 114: Pool and Spa Heating Systems and Equipment 1. Certified with 78% thermal efficiency, on-off switch, weatherproof operating instructions, no electric resistance | | |
| | heating, and no pilot. 2. System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. | | |
| X | System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. | | |
| | System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. 115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no | | |
| | 2. System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. 115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr) | | |
| | 2. System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. 115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr) 118 (f): Cool Roof material meet specified criteria | | |
| Lig | 2. System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. 115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr) 118 (f): Cool Roof material meet specified criteria 150(k)1: Luminaires for general lighting in kitchens shall have lamps with an efficacy 40 lumens/watt or greater for general lighting in kitchens. This general lighting shall be controlled by a switch on a readily accessible lighting | | |
| Lig | 2. System is installed with at least 36" of pipe between filter and heater for future solar, cover for outdoor pools or spas. a. At least 36" of pipe between filter and heater for future solar heating. b. Cover for outdoor pools or outdoor spas. 3. Pool system has directional inlets and a circulation pump time switch. 115: Gas fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light. (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr) 118 (f): Cool Roof material meet specified criteria 150(k)1: Luminaires for general lighting in kitchens shall have lamps with an efficacy 40 lumens/watt or greater for general lighting in kitchens. This general lighting shall be controlled by a switch on a readily accessible lighting control panel at an entrance to the kitchen. 150(k)2: Rooms with a shower or bathtub must have either at least one luminaire with lamps with an efficacy of 40 lumens/watt or greater switched at the entrance to the room or one of the alternative to this requirement | | |

Connection

B Ellis St,

B.C, Canada

1 11 APRIL 2005

388-207-0210

0) 770-9031

thelogconnection.com

The Log Connection 101, 208 Ellis St,
Penticton, B.C, Canada V2A 4L6
Toll Free 1-888-207-02
Phone. (250) 770-9031

The Log Connection
Log Home Specialist

San Clemente, CA. 02672

General Contractor: Scott Dot Structural Engineering: Alpine Coeur

ENERGY CALCULATIONS
PAGE TITLE

NONE
SCALE

15 OCT. 2004

ROBERT WOOD
RAWN BY

DAVE SUTTON CHECKED BY

A.14