

CONTINUES TO STREAM NWD. LATEST SURFACE ANALYSIS PLACED THE LOW ABOUT 50 MI SSE OF CDS WITH A WARM FROM EXTENDING NEWD TOWARDS CHK AND THEN EWD TO ADR AND SEWD TOWARDS DEQ IN SE OK /DEMARCATED FAIRLY WELL BY THE 65 DEG F ISODROSOTHERM/. SURFACE ANALYSIS ALSO REVEALS A CONVERGENT WIND FIELD AND A MORE BAROCLINIC BOUNDARY EXTENDING FROM JUST S OF AXS NEWD TO BVO.

OVERALL SEVERE THREAT...AND LOCALIZED TORNADO THREAT...WILL DEPEND LARGELY ON HOW THE SURFACE PATTERN EVOLVES OVER THE NEXT FEW HOURS. CURRENT EXPECTATION IS THAT THE BAROCLINIC BOUNDARY WILL ACT AS THE NRN BOUND TO MOISTURE ADVECTION...EFFECTIVELY BECOMING THE WARM FRONT AS SECONDARY SURFACE CYCLOGENESIS OCCURS IN THE VICINITY OF LOGAN COUNTY.

CONVECTIVE INITIATION HAS ALREADY OCCURRED OVER SW OK WITH ADDITIONAL DEVELOPMENT POSSIBLE AS THE SURFACE LOW NEAR CDS CONTINUES EWD. MESOANALYSIS ESTIMATES MLCAPE EWD ALONG THE RED RIVER FROM SW OK IS 2000 J PER KG WITH EFFECTIVE BULK SHEAR AROUND 40 KT. SOME BACKING IS NOTED AROUND 3 KM ON THE FDR AND TLX VAD PROFILES BUT BACKED SURFACE WINDS ARE CONTRIBUTING TO 0-1 KM SRH OVER 100 M2/S2. THIS THERMODYNAMIC AND KINEMATIC ENVIRONMENT IS SUPPORTIVE OF SUPERCELLS CAPABLE OF ALL SVR HAZARDS. A WW WILL LIKELY BE NEEDED TO COVER THIS THREAT.

..MOSIER/THOMPSON.. 04/29/2016

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